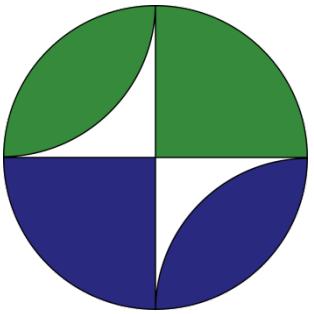


**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

# Yearbook 2025



**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

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# INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

## UNION GÉODÉSIQUE ET GÉOPHYSIQUE INTERNATIONALE

### HISTORIQUE

L'Union Géodésique et Géophysique Internationale (UGGI) est un organisme international non gouvernemental à but non lucratif fondé à Bruxelles le 28 juillet 1919. L'UGGI se consacre à l'étude scientifique de la Terre et à l'utilisation au profit de la société des connaissances acquises grâce à cette étude. L'UGGI est l'une des trois Unions scientifiques ayant participé en 1931 à l'Assemblée constitutive du Conseil international des recherches, devenu ensuite le Conseil international des unions scientifiques (CIUS) en 1996, devenu enfin Conseil international pour la science (CIS) en 2018. Le CIS est un forum planétaire des scientifiques, qui leur permet d'échanger des idées et des informations, promeut la science en tant que bien public universel, et exprime l'expression universelle de la science. L'UGGI fournit son savoir-faire concernant les sciences de la Terre effectuées par les chercheurs dans ses Associations internationales et Commissions inter-associations.

Les neuf premiers pays membres de l'UGGI étaient l'Australie, la Belgique, le Canada, la France, l'Italie, le Japon, le Portugal, le Royaume-Uni et les États-Unis. En 2025, l'UGGI compte 74 organismes adhérents ayant une activité géodésique ou géophysique indépendante.

Au début, l'Union chapeautait six sections : Géodésie, Séismologie, Météorologie, Magnétisme et électricité terrestre, Océanographie physique et Volcanologie. Une septième section, «Hydrologie Scientifique», fut créée en 1922. Le terme «Section» fut remplacé par celui d'«Association» lors de la cinquième Assemblée générale tenue à Lisbonne, en 1933. Une huitième Association sur les Sciences Cryosphériques fut créée lors de l'Assemblée Générale de 2007 à Pérougia, Italie.

Les langues officielles de l'UGGI sont l'anglais et le français.

### BACKGROUND

The International Union of Geodesy and Geophysics (IUGG) is an international, non-governmental, non-profit organization established in Brussels on 28 July 1919. IUGG is dedicated to the scientific study of the Earth and the application of knowledge gained by such studies to benefit society. IUGG was one of the first three Scientific Unions established during the Constitutive Assembly of the International Research Council, the predecessor of the International Council of Scientific Unions (ICSU) created in 1931, known as the International Council for Science since 1996, and as the International Science Council (ISC) since 2018. ISC provides a global forum for scientists to exchange ideas and information, advances science as a global public good, and presents a global voice of science. IUGG brings to ISC expertise on Earth studies from researchers in its International Associations and Inter-Association Commissions.

The first nine member countries of IUGG were Australia, Belgium, Canada, France, Italy, Japan, Portugal, the United Kingdom, and the United States. By 2025, IUGG has 74 Member Countries in which independent activity in geodesy and geophysics has been developed.

The original Union encompassed six Sections: Geodesy, Seismology, Meteorology, Magnetism and Terrestrial Electricity, Physical Oceanography, and Volcanology. A seventh section "Scientific Hydrology" was created in 1922. The term "Section" was replaced by "Association" at the 5<sup>th</sup> General Assembly held in Lisbon in 1933. The eighth Association of Cryospheric Sciences was added at the 2007 General Assembly held in Perugia, Italy.

The official languages of IUGG are English and French.

## OBJECTIFS ET ACTIVITÉS DE L'UGGI

L'UGGI est une organisation purement scientifique, qui a été fondée afin de promouvoir et de coordonner les études sur les propriétés physiques, chimiques et mathématiques de la Terre et sur son environnement spatial. Ces études concernent la forme de la Terre; la nature de ses champs gravitationnel et magnétique; la dynamique de la Terre en tant qu'entité et de celle de ses composants; la structure interne, la composition et la tectonique de la Terre; la formation des magmas; la volcanologie et la genèse des roches; le cycle hydrologique, dont la neige et la glace; la physique et la chimie des océans; l'atmosphère, l'ionosphère, la magnétosphère et les relations Soleil-Terre; ainsi que les problèmes analogues propres à la Lune et aux autres planètes. Les activités de l'UGGI comprennent l'observation de la Terre par satellite et par d'autres techniques de mise en place d'instruments à haute altitude.

### Programmes de recherche interdisciplinaire

L'UGGI a inauguré et activement soutenu les efforts de collaboration qui ont permis de mettre en œuvre des programmes de recherche interdisciplinaire internationaux de grande valeur, dont l'Année Géophysique Internationale (1957-1958), le Projet du Manteau Supérieur de la Terre (1964-1970), la Décennie Hydrologique Internationale (1965-1974), le Projet Géodynamique (1972-1979), le Programme Global de Recherche sur l'Atmosphère (1967-1980), le Programme Mondial de Recherche sur le Climat (1980-présent), le Programme International de la Lithosphère (1981-présent) et le Système Global d'Observation Géodésique (2003-présent). Ces programmes ont servi de modèle de coopération internationale et interdisciplinaire. L'UGGI a inauguré et soutenu des initiatives du CIUS, surtout ceux qui concernent les sciences de la Terre. L'une des contributions majeures de l'UGGI a été la création, il y a environ 60 ans, par l'intermédiaire du CIUS, du système de la Banque de Données Mondiale et de la Fédération des Services d'Analyse des Données Astronomiques et Géophysiques. Ceux-ci ont été transformés en Système de Données Mondial du CIUS qui mettra les données recueillies dans le cadre de ces grands programmes à la disposition des chercheurs du monde entier. L'UGGI a soutenu l'Année Internationale de la Terre (2007-2009) et l'Année Polaire Internationale (2007-2008) et a aussi initié et soutenu l'Année Géophysique Électronique (2007-2008), l'Année Héliophysique Internationale (2007-2008), l'Année internationale des sciences fondamentales pour le développement (2022) et la Décennie internationale des sciences au service du développement durable (2024-2033).

### Recherche internationale en coopération

L'UGGI collabore avec l'UNESCO à l'étude des catastrophes naturelles, des océans, et de l'hydrologie. Elle attache aussi une grande importance aux problèmes scientifiques des pays en voie de développement, en parrainant des activités liées aux besoins scientifiques du tiers monde. L'UGGI est un partenaire d'autres Unions Scientifiques du CIS, par le biais des Commissions inter-unions, et ses activités correspondent avec

## OBJECTIVES AND ACTIVITIES OF IUGG

IUGG is a purely scientific organisation established to promote and co-ordinate studies of physical, chemical, and mathematical properties of the Earth and its environment in space. These studies include the shape of the Earth; the nature of its gravitational and magnetic fields; the dynamics of the Earth as a whole and of its component parts; the Earth's internal structure, composition, and tectonics; the generation of magmas; volcanism and rock formation; the hydrological cycle including snow and ice; the physics and chemistry of the oceans; the atmosphere, ionosphere, magnetosphere and solar-terrestrial relations; and analogous problems associated with the Moon and other planets. IUGG activities embrace studies of the Earth by artificial satellites and other techniques for deploying instruments at high altitude.

### Interdisciplinary Research Programs

IUGG has initiated and vigorously supported collaborative efforts that have led to highly productive world-wide interdisciplinary research programs, such as the International Geophysical Year (1957-58), the Upper Mantle Project (1964-70), the International Hydrological Decade (1965-74), the Geodynamics Project (1972-79), the Global Atmospheric Research Program (1967-80), World Climate Research Programme (1980-present), International Lithosphere Program (1981-present), Global Geodetic Observing System (2003-present) and others. These programs have set a model for international, interdisciplinary co-operation. IUGG has initiated and supported ICSU initiatives, especially those in which Earth sciences have a role to play. One major contribution was the creation, about 60 years ago, through ICSU, of the World Data Centers and the Federation of Astronomical and Geophysical Data Analysis Services. These were transformed to the ICSU World Data System, from which the data gathered during major research programs and data products will be available to researchers everywhere. IUGG supported the International Year of the Planet Earth (2007-2009) and the International Polar Year (2007-2008) and has initiated and supported the Electronic Geophysical Year (2007-2008), the International Heliophysical Year (2007-2008), the International Year of Basic Sciences for Sustainable Development (2022), and the International Decade of Sciences for Sustainable Development (2024-2033).

### Worldwide Co-operative Research

IUGG co-operates with UNESCO in the study of natural catastrophes, oceans, and hydrology. It also gives particular emphasis to the scientific problems of Developing Countries by sponsoring activities relevant to the scientific needs of the Third World. IUGG is a partner with other ISC Scientific Unions in inter-Union Commissions, and coordinates its activities with eight other ISC Unions

celles de huit autres Unions du CIS (GéoUnions): l'Union Astronomique Internationale (UAI), l'Association Cartographique Internationale (ACI), l'Union Géographique Internationale (UGI), la Société Internationale de Photogrammétrie et de Télédétection (SIPT), l'Union Internationale des Sciences Géologiques (UISG), l'Union Internationale pour l'Étude du Quaternaire (INQUA), l'Union Radio-Scientific Internationale (URSI), l'Union Internationale de la Science du Sol (UISS) et l'Union internationale de spéléologie.

## STRUCTURE

De par leur nature même, les études géodésiques et géophysiques requièrent une importante coopération internationale, de même qu'une coordination efficace. L'UGGI, heureusement, compte 74 entités adhérentes (Tableau 1); les entités adhérentes sont répartis dans le monde entier, comme le montre le Tableau 2. En outre, l'UGGI possède six membres affiliés (Tableau 3).

### Comités nationaux

La grande majorité des entités adhérentes participent aux activités de l'UGGI à travers leur Comité National de l'UGGI, mis en place par l'Académie nationale ou une autre institution officielle du pays adhérant à l'Union (il existe d'autres méthodes d'adhésion). Chaque Comité national de l'UGGI est représenté aux Assemblées Générales de l'UGGI par un délégué nommé par l'entité adhérente.

### Assemblées générales

Les Assemblées générales de l'UGGI ont lieu tous les quatre ans. La prochaine Assemblée générale de l'UGGI sera la XXIXe et se tiendra à Incheon, Rép. de Corée, en 2027. L'UGGI tient des Assemblées Générales depuis 1922. Depuis 1963, elles ont lieu tous les quatre ans. Le Tableau 4 indique les années et les localisations des Assemblées générales de l'UGGI.

Au cours de ces Assemblées générales, on adopte les politiques régissant l'UGGI et on définit et coordonne les programmes nécessitant une participation internationale. De plus, on élaboré les plans d'exécution de ces programmes de recherche. Les résultats scientifiques des programmes en cours font l'objet de discussions lors d'un grand nombre de symposiums, de réunions de commissions, de groupes de travail ou de rencontres réunissant les scientifiques assistant aux Assemblées.

### Le Conseil, le Bureau et les Comités de l'UGGI

L'UGGI est dirigée par le Conseil de l'UGGI, lequel est régi par les statuts et le règlement intérieur de l'Union. Le Conseil de l'UGGI est composé des délégués accrédités des entités adhérentes. Le Conseil de l'UGGI se réunit lors de l'Assemblée Générale de l'UGGI, où il est procédé à l'élection des membres du Bureau de l'UGGI et du Comité des finances de l'UGGI. Depuis 2016 UGGI a le Conseil permanent; les membres du Conseil seront présentés à la page 17.

Le Bureau de l'UGGI traite des affaires administratives entre les rencontres du Conseil. Ses membres, élus par le Conseil, sont au nombre de sept – quatre responsables (Président,

(GeoUnions): the International Astronomical Union (IAU), the International Cartographic Association (ICA), the International Geographical Union (IGU), the International Society of Photogrammetry and Remote Sensing (ISPRS), the International Union of Geological Sciences (IUGS), the International Union for Quaternary Research (INQUA), the International Union of Radio Science (URSI), the International Union of Soil Sciences (IUSS), and the International Union of Speleology (UIS).

## STRUCTURE

By their very nature, geodetic and geophysical studies require a high degree of international co-operation as well as effective central co-ordination. IUGG is fortunate in having 74 Member Adhering Bodies (Table 1); the Members are distributed throughout the world as shown in Table 2. In addition, IUGG has six Affiliate Members (Table 3).

### National Committees

The great majority of Member Adhering Bodies participate through IUGG National Committees set up by the national academy or another body in their country that adheres to the Union (other methods of adherence do occur). Each IUGG National Committee is represented at the IUGG General Assemblies by a Delegate appointed by its Adhering Body.

### General Assemblies

IUGG General Assemblies are held every four years. The next XXIX (29th) IUGG General Assembly will be held in Incheon, Rep. of Korea, in 2027. IUGG General Assemblies have been held since 1922. Since 1963, they are held every four years. Table 4 lists the years and locations of IUGG General Assemblies.

During these General Assemblies, policies governing IUGG are adopted, research programs requiring international participation are formulated and coordinated. In addition, plans are drawn for the execution of research programs. The scientific results of programs in progress are discussed at the numerous Symposia, Commission and Working Group meetings, and other gatherings of scientists that are convened during these assemblies.

### The IUGG Council, Bureau, and Committees

IUGG's affairs are directed by the Union Council governed by the Statutes and By-Laws of the Union. The IUGG Council is composed of one credentialed delegate from each Adhering Body. The IUGG Council meets during the IUGG General Assembly and elects the IUGG Bureau and the IUGG Finance Committee. Since 2016, IUGG has a standing Council; the Council Delegates are listed on page 17.

The IUGG Bureau handles administrative affairs between Council meetings. It is elected by the Council and consists of seven members – four officers (President, President-Elect,

Président élu, Secrétaire général et Trésorier) et trois membres associés. Le Bureau se réunit chaque année.

Le Comité directeur de l'UGGI travaille en vue d'atteindre les objectifs scientifiques de l'Union et des Associations internationales grâce à une coordination et une définition efficace des politiques générales. Il regroupe les membres du Bureau de l'UGGI, le président sortant de l'Union et les présidents des Associations internationales.

Le Comité des finances de l'UGGI traite des affaires budgétaires avec le Trésorier de l'UGGI. Il regroupe personnes élues par le Conseil de l'UGGI. Les membres du Comité des finances ne peuvent être membres ni du Bureau de l'UGGI, ni du Comité directeur de l'UGGI.

### **Les Associations internationales**

Les huit Associations internationales semi-autonomes de l'UGGI assument, chacune, les responsabilités relatives à une série de sujets ou de thèmes spécifiques, relevant des activités générales de l'Union. Chaque Association possède sa propre sous-structure, comme il sera expliqué ci-dessous. Les Associations internationales définissent des normes de recherche et conviennent de définitions et d'algorithmes, tels que le *Manual of Seismological Observatory Practice* ou le *Guide for Magnetic Repeat Station Surveys*. Pour les sujets importants les résolutions doivent être adoptées à l'unanimité. Ils transmettent dans le cadre de leur mission éducative les résultats de leurs recherches à la communauté scientifique internationale, aux agences gouvernementales, aux entreprises et au grand public. Les huit Associations internationales sont les suivantes:

Association Internationale des Sciences Cryosphériques (AISC)  
International Association of Cryospheric Sciences (IACS)

Association Internationale de Géodésie (AIG)  
International Association of Geodesy (IAG)

Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)  
International Association of Geomagnetism and Aeronomy (IAGA)

Association Internationale des Sciences Hydrologiques (AISH)  
International Association of Hydrological Sciences (IAHS)

Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)  
International Association of Meteorology and Atmospheric Sciences (IAMAS)

Association Internationale pour les Sciences Physiques des Océans (AISPO)  
International Association for the Physical Sciences of the Oceans (IAPSO)

Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPIT)  
International Association of Seismology and Physics of the Earth's Interior (IASPEI)

Association Internationale de Volcanologie et de Chimie de l'intérieur de la Terre (AIVCIT)  
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

Les Associations internationales jouent également un rôle particulier en faisant bénéficier tous les pays du monde des dernières avancées scientifiques, grâce à des rencontres, des

Secretary General, and Treasurer) and three members at large. The Bureau meets annually.

The IUGG Executive Committee works to further the scientific objectives of the Union and International Associations by effective co-ordination and formulation of general policies. It consists of the IUGG Bureau, the retiring president of the Union, and the Presidents of the International Associations.

The IUGG Finance Committee interacts with the IUGG Treasurer regarding budgetary matters. It consists of persons elected by the IUGG Council. The members of the Finance Committee are not members of the IUGG Bureau or the IUGG Executive Committee.

### **The International Associations**

The eight semi-autonomous International Associations within IUGG are each responsible for a specific range of topics or themes within the overall scope of the Union's activities. Each has a sub-structure as discussed below. The International Associations work to set standards for research and agree on definitions and algorithms, such as the *Manual of Seismological Observatory Practice* or the *Guide for Magnetic Repeat Station Surveys*. Participants pass resolutions on important issues where all agree. They make research visible to the international scientific community, to governmental agencies, to industry, and to the general public through their education activities. These eight International Associations are as follows:

The International Associations also play a special role in bringing state-of-the art science to all the countries of the world through meetings, workshops, and assemblies. The

ateliers et des assemblées. Les Associations internationales tiennent leurs propres Assemblées scientifiques tous les quatre ans environ, généralement deux ans avant la tenue de l'Assemblée générale de l'UGGI (Tableau 5). Lors des Assemblées scientifiques, les Associations internationales parrainent des symposiums sur des sujets particuliers, souvent en partenariat.

Les géodésiens et les géophysiciens de tous les pays du monde sont invités à participer aux nombreux symposiums et ateliers des Associations internationales et des Assemblées générales de l'UGGI. Lors de ces rencontres, les scientifiques ont l'occasion de discuter de leurs méthodologies, résultats et hypothèses respectifs, et de planifier des projets de recherche en collaboration.

Les symposiums ont vocation à s'adresser tout particulièrement aux jeunes scientifiques des pays en voie de développement. L'UGGI a prévu un budget particulier pour assurer leur participation aux symposiums organisés sous l'égide de l'Union et de ses Associations.

Comme l'UGGI, les Associations internationales sont gérées par des officiers qui sont élus pendant leurs Assemblées Générales. Dans son domaine respectif, chaque Association est responsable de la définition de son propre programme et de soutenir les activités de ses propres composantes.

International Associations convene their own Scientific Assemblies approximately every four years, generally two years following the IUGG General Assembly (Table 5). At Scientific Assemblies the International Associations sponsor symposia on particular topics, often in partnership with one another.

Geodesists and geophysicists from all countries of the world are encouraged to attend the numerous Symposia and Workshops of the International Associations and the General Assemblies of IUGG. At these meetings scientists have the opportunity to discuss their respective methodologies, results, and hypotheses and to plan collaborative research projects.

The Symposia are intended to be particularly helpful to younger scientists from developing countries of the world. The IUGG has made special financial provision for them to participate in the Symposia organised under the aegis of the Union and its Associations.

Like IUGG, International Associations are managed by officers who are elected during their General Assembly. Within its own discipline each Association is responsible for determining its own program of investigations and for supporting the activities of its own component parts.

### **Commissions de l'Union**

En raison de la nature interdisciplinaire des domaines traités par les Associations internationales, plusieurs Commissions de l'Union ont été créées pour assister l'Union et la communauté géophysique internationale pour promouvoir l'étude de problèmes interdisciplinaires particuliers. Ces organisations sont habilitées par le Comité directeur de l'UGGI à mener des recherches conjointes entre les Associations. Les commissions de l'Union font l'objet d'un examen et d'un remaniement lors de chaque Assemblée générale de l'UGGI. Les cinq Commissions suivantes sont actuellement en activité:

- Commission de l'union sur les changements climatiques et les modifications de l'environnement (CCEC)
- Commission de l'union sur la géophysique mathématique (CMG)
- Commission de l'union sur les risques géophysiques et le développement durable (GRC)
- Commission de l'union sur l'étude des profondeurs terrestres (SEDI)
- Commission de l'union sur la planétologie (UCPS)

En outre, deux ou plusieurs Associations internationales peuvent créer et soutenir des groupes de travail conjoints chargés de sujets scientifiques spécifiques.

### **Union Commissions**

Owing to the interactive nature of the subject fields managed by the International Associations, several Union Commissions and a Working Group have been established which serve the Union and the international geophysical community by promoting the study of particular interdisciplinary problems. These bodies are chartered by the IUGG Executive Committee to conduct inter-association science. Union Commissions are reviewed and renewed at each IUGG General Assembly. The following five Commissions are presently active:

- Union Commission on Climatic and Environmental Change (CCEC)
- Union Commission on Mathematical Geophysics (CMG)
- Union Commission on Geophysical Risk and Sustainability (GRC)
- Union Commission on the Study of the Earth's Deep Interior (SEDI)
- Union Commission on Planetary Sciences (UCPS)

In addition, two or more International Associations may set up and support joint working groups to address specific scientific topics.

## **Commission Inter-Unions**

Le Programme International du Lithosphère (ILP), guidé par le Comité Scientifique du Lithosphère (SCL), fut établi en 1980 comme la Commission Inter-Union sur le Lithosphère (ICL) par le Conseil International des Sciences (CIUS), selon la demande de l'Union Internationale des Sciences Géologiques (IUGS) et l'Union Géodésique et Géophysique Internationale (UGGI). Le nom fut changé au Comité Scientifique sur le Lithosphère en 1999. Selon la Décision 8.4 de l'Assemblée Générale de 2005 du CIUS, le CIUS a décidé de terminer son soutien du SCL/ILP et de recommander un décallage de responsabilité vers l'UGGI et l'IUGS. Depuis cette décision, l'UGGI et l'IUGS ont ratabli la mission du ILP et ont collaboré pour re-définir l'ILP comme une entité Inter-Union. Des nouveaux Termes de Référence ont été approuvés par les deux Unions.

## **FINANCES**

L'UGGI collecte les cotisations annuelles pour financer les projets scientifiques inter-unions, les initiatives inter-associations et les activités administratives de l'UGGI, y compris ses publications. La moitié du revenu net de l'UGGI est remis aux Associations internationales qui peuvent décider de l'utilisation de ces fonds.

Le revenu de l'Union provient des contributions annuelles des entités adhérentes. Les entités adhérentes ont le choix entre le statut de membre régulier ou de membre associé (ne payant pas de cotisation). Les entités adhérentes peuvent envoyer un délégué aux rencontres quadriennales du Conseil de l'UGGI et voter sur les affaires administratives. Les scientifiques des entités adhérentes peuvent occuper un poste de responsabilité dans les Associations internationales et ils ont un droit de vote lors des séances de travail. Les membres associés ne paient pas de cotisations, n'ont pas le droit de voter, et leurs scientifiques ne peuvent pas occuper un siège de responsabilité dans le comité exécutif ou financier de l'UGGI. Les scientifiques des entités adhérentes associés sont toutefois les bienvenus aux activités scientifiques et sociales tenues lors de toutes les rencontres de l'UGGI et des Associations internationales. Les données scientifiques et les recherches effectuées par les entités adhérentes associées sont prises en considération par les autres scientifiques, et nombreuses sont les occasions de rencontres et de collaboration avec d'autres participants de l'UGGI. Si la situation économique d'un pays ne lui permet pas l'adhésion de plein droit à l'UGGI., le statut de membre associé peut être une étape vers l'adhésion de plein droit.

Les cotisations qu'une entité adhérente régulière paye sont calculées selon un barème (en fonction de la 'catégorie - Tableau 1') défini par le Comité des finances de l'UGGI. Les catégories reflètent la situation économique du pays et à sa participation aux Assemblées Générales de l'UGGI. Les détails figurent dans le titre III des statuts et le titre III du règlement intérieur de l'UGGI. Chaque catégorie correspond à un nombre d'unités permettant de calculer la cotisation. En 2025 la valeur d'une unité de cotisation est de USD 2525. Le Comité des finances utilise un algorithme pour déterminer le montant de l'unité. Le Comité des finances examine également la catégorie

## **Inter-Unions Commission**

The International Lithosphere Program (ILP), guided by the Scientific Committee on the Lithosphere (SCL), was established in 1980 as the Inter-union Commission on the Lithosphere (ICL) by the International Council for Science (ICSU), at the request of the International Union of Geological Sciences (IUGS) and the International Union of Geodesy and Geophysics (IUGG). The name was formally changed to the Scientific Committee on the Lithosphere in 1999. According to Decision 8.4 from the 2005 ICSU General Assembly, ICSU decided "to withdraw ICSU sponsorship from SCL/ILP and to recommend that responsibility would then shift to IUGG and IUGS." Since that time, IUGG and IUGS have reaffirmed the ILP mission and have collaborated to re-define ILP as an inter-Union body. New Terms of Reference have been approved by both Unions.

## **FINANCES**

IUGG collects annual contributions to carry out its support for Inter-Union science, Inter-Association initiatives, and IUGG administration, including IUGG publications. One half of IUGG's net income from the previous year is passed to the International Associations to use as they see fit.

The income of the Union comes from annual contributions of the Members. Member Adhering Bodies can choose to be regular paying Members or Associate (non-paying) Members. Members may send a delegate to quadrennial meetings of the IUGG Council and vote on matters of business. Scientists from regular Members may hold office in the International Associations and vote at their business meetings. Associate Members pay no contributions, have no voting rights, and their scientists may not hold offices in the IUGG Executive Committee and Finance Committee. However, scientists from Associate Member countries are welcome to attend all scientific and social activities at all IUGG and International Association meetings. The scientific data collected and research performed within Associate Member countries is valued by other scientists and the opportunities for networking and collaboration with other IUGG participants are abundant. Associate Membership can be a first step toward regular membership, if a country's economic condition does not currently permit the payment of annual dues.

A regular Member Adhering Body pays dues according to a scale ("the category number - Table 1") established by the IUGG Finance Committee. Categories are related to the economic condition of the country and its participation in IUGG General Assemblies. Details are specified in Statute III and By-Law III of IUGG. Each category has an associated number of Units used to determine the dues to be paid. The value of a single Unit of membership in 2025 is USD 2,525. The Finance Committee uses an algorithm to determine the price of a Unit. The Finance Committee also reviews the

d'adhésion de chaque entité adhérente au moins une fois tous les quatre ans.

Tout défaut de paiement d'une cotisation par un pays entraîne son passage dans une catégorie particulière de membres sans droit de vote, dits «observateurs». Le défaut prolongé de paiement des cotisations peut entraîner l'expulsion d'un pays de l'UGGI.

category of membership for each Member Adhering Body at least every four years.

Failure to pay fees in a timely manner places a country into a special class of non-voting membership known as "observers". Continued failure to pay fees is grounds for expulsion from IUGG.

**Table 1: Member Adhering Bodies of IUGG**

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY <sup>(1)</sup>	UNITS <sup>(2)</sup>
ALBANIA	1997-2002, 2003	A	0
ALGERIA	1971-2006, 2018	1	1
ARGENTINA	1927	3	3
ARMENIA	2000	A	0
AUSTRALIA	1919	5	7
AUSTRIA	1948	3	3
AZERBAIJAN	2010	1	1
BELGIUM	1919	4	5
BOLIVIA	1960-2000, 2006	A	0
BOSNIA & HERZEGOVINA	2003	A	0
BRAZIL	1922	3	3
BULGARIA	1930	1	1
<i>BURUNDI</i>	<i>1987-1995</i>		
CANADA	1919	6	10
CHILE	1924	2	2
CHINA	1977	6	10
CHINA – Acad. of Sciences in Taipei	1995	4	5
COLOMBIA	1938-1971, 2000	1	1
CONGO D.R. (**)	2004	A	0
COSTA RICA	2010	1	1
CROATIA	1992	1	1
CUBA	1960-1996		
CZECH REPUBLIC	1993	2	2
DENMARK	1923	4	5
<i>DOMINICAN REP.</i>	<i>1957-1971</i>		
EGYPT	1924	2	2
ESTONIA	1991	1	1
<i>ETHIOPIA</i>	<i>1952-2000</i>		
FINLAND	1927	3	3
FRANCE	1919	7	15
GEORGIA	2009	A	0
GERMANY	1951	8	20
GHANA	1957-1987, 2006	A	0
GREECE	1922-2003; 2008	2	2
<i>GUATEMALA</i>	<i>1957-2000</i>		
<i>GUINEA</i>	<i>1987-1995</i>		
<i>HAITI</i>	<i>1956-1971</i>		
HUNGARY	1930	2	2
ICELAND	1967	1	1
INDIA	1947	6	10
INDONESIA	1951	1	1
IRAN	1957	1	1
<i>IRAQ</i>	<i>1983-1996</i>		
IRELAND	1946	2	2
ISRAEL	1951	2	2
ITALY	1919	6	10
<i>IVORY COAST</i>	<i>1975-1996</i>		
JAPAN	1919	8	20
JORDAN	1979	1	1
<i>KENYA</i>	<i>1975-1997</i>		
KOREA, Rep. of	1960	2	2
KOREA, DPR	1967-2000		
LATVIA	2019	A	0
<i>LEBANON</i>	<i>1967-2003</i>		
<i>LIBYA</i>	<i>1979-1996</i>		

**Table 1 (continued): Member Adhering Bodies of IUGG**

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY <sup>(1)</sup>	UNITS <sup>(2)</sup>
LUXEMBOURG	1971	1	1
MADAGASCAR	1967-1995		
MALAYSIA	1967-2002		
MAURITIUS	2003	A	0
MEXICO	1922	2	2
MONACO	1967-2013		
MONGOLIA	1995-2001		
MOROCCO	1924	A	0
MOZAMBIQUE	1983	1	1
MYANMAR (BURMA)	1957-2003		
NEPAL	1975-1987		
NETHERLANDS	1925	4	5
NEW ZEALAND	1927	2	2
NICARAGUA	2014	A	0
NIGERIA	1971	2	2
NORTH MACEDONIA <sup>(****)</sup>	1995-2001, 2010	A	0
NORWAY	1923	4	5
PAKISTAN	1952	2	2
PARAGUAY	2023	A	0
PERU	1925-1979, 2000	A	0
PHILIPPINES	1951-2015		
POLAND	1924	2	2
PORTUGAL	1919	2	2
ROMANIA	1930	1	1
RUSSIA (***)	1992	6	10
SAUDI ARABIA	1971-2001, 2012	2	2
SENEGAL	1960-1995		
SERBIA (*)	1996-2006, 2018	A	0
SIERRA LEONE	1967-1983		
SLOVAK REPUBLIC	1993	1	1
SLOVENIA	1994	1	1
SOUTH AFRICA	1924	3	3
SPAIN	1922	5	7
SUDAN	1955-2000		
SWEDEN	1923	4	5
SWITZERLAND	1923	5	7
SYRIA	1948-1995		
TANZANIA	1975-2000		
THAILAND	1923	2	2
TUNISIA	1927-2001		
TÜRKİYE	1949	2	2
UK	1919	8	20
URUGUAY	1924-2000, 2018	A	0
USA	1919	11	35
VENEZUELA	1975-2008		
VIETNAM	1931	1	1
ZIMBABWE	1967-2000		

(1) According to IUGG Statute 12a, there are fourteen categories of membership in the Union, numbered 1 to 14, plus a special category, called A (Associate).

(2) According to IUGG Statute 12b and IUGG By-Law 18 a, for categories 1 to 14, each member country pays annually the number of units of contribution assigned to the category in which it adheres. Associates (Category A) do not pay an annual contribution to the Union.

(\*) Adhesion in 1996 under the name of the Federal Republic of Yugoslavia which was changed to Serbia and Montenegro in 2003, and changed to Serbia in 2018.

(\*\*\*) Adhesion in 1991 under the name Zaire, membership terminated in 1997.

(\*\*\*) Adhesion in 1954 under the name of the USSR.

(\*\*\*\*) Adhesion in 1995 under the name of the former Yugoslav Republic of Macedonia.

**Table 2:**  
**Regional Distribution of  
 Members**

REGION	# OF MEMBERS
Africa	9
Asia	18
Europe	32
North and Central America	5
Oceania	2
South America	8

**Table 3:**  
**Affiliate Members of IUGG**

MEMBERS	ADMISSION
American Geoscience Institute (AGI)	2014
Commission for the Geological Map of the World (CGMW)	2014
International Association for Geoethics (IAGETH)	2014
International Association for Mathematical Geosciences (IAMG)	2015
International Consortium on Landslides (ICL)	2015
Young Earth Scientist (YES) Network	2014

**Table 4: IUGG General Assemblies**

Assembly	Year	National	Foreigners	Total
I. Rome	1922			
II. Madrid	1924			
III. Prague	1927	91	240	331
IV. Stockholm	1930			
V. Lisbon	1933	40	160	200
VI. Edinburgh	1936	80	264	344
VII. Washington	1939	580	225	805
VIII. Oslo	1948	46	322	368
IX. Bruxelles	1951	60	858	918
X. Rome	1954	163	760	923
XI. Toronto	1957	293	872	1165
XII. Helsinki	1960	121	1254	1375
XIII. Berkeley	1963	1124	814	1938
XIV. Zurich	1967	151	2049	2200
XV. Moscow	1971	1070	1507	2577
XVI. Grenoble	1975	413	2151	2564
Durham, UK	1977		Exceptional G.A.	
XVII. Canberra	1979	469	1475	1944
XVIII. Hamburg	1983	495	2709	3204
XIX. Vancouver	1987	539	3400	3939
XX. Vienna	1991	162	4169	4331
XXI. Boulder	1995	2066	2415	4481
XXII. Birmingham	1999	647	3405	4052
XXIII. Sapporo	2003	1989	2162	4151
XXIV. Perugia	2007	618	3757	4375
XXV. Melbourne	2011	675	2717	3392
XXVI. Prague	2015	143	4088	4231
XXVII. Montreal	2019	869	3083	3952
XXVIII. Berlin	2023	986	4212	5198

## Current Officers of IUGG

### Bureau of the Union

<i>President:</i>	Chris Rizos	AUSTRALIA
<i>President-Elect:</i>	Mioara Mandea	FRANCE
<i>Secretary General:</i>	Alexander Rudloff	GERMANY
<i>Treasurer:</i>	Niels Andersen	DENMARK
<i>Members:</i>	Athena Coustenis	FRANCE
	Andrew Mackintosh	AUSTRALIA
	Virendra Tiwari	INDIA

### Executive Committee of the Union

According to Article 10 of the Statutes of IUGG, the Executive Committee consists of:

- the Bureau (see above),
- the Immediate Past President of the Union, Kathryn Whaler (UK)
- the Presidents of the International Associations:

<i>IACS:</i>	Liss M. Andreassen	NORWAY
<i>IAG:</i>	Richard Gross	USA
<i>IAGA:</i>	Andrew Yau	CANADA
<i>IAHS:</i>	Berit Arheimer	SWEDEN
<i>IAMAS:</i>	Andrea Flossmann	FRANCE
<i>IAPSO:</i>	Hans van Haren	NETHERLANDS
<i>IASPEI:</i>	Michelle Gubbelaar	AUSTRIA
<i>IAVCEI:</i>	Costanza Bonadonna	SWITZERLAND

### Finance Committee of the Union

<i>Chair:</i>	Jan Krynski	POLAND
<i>Members:</i>	Archana Bhattacharyya	INDIA
	Priscilla Grew	USA

### Secretariat of IUGG

The Secretariat of IUGG is located in Germany:

GFZ Helmholtz Centre for Geosciences  
Telegrafenberg, A17  
14473 Potsdam

<i>Executive Secretary:</i>	Franz G. Kuglitsch	GERMANY
<i>Assistant:</i>	Katrin Gundrum	GERMANY
<i>Webmaster:</i>	Jan Schubert	GERMANY

The Executive Secretary of IUGG is a non-voting Member of the Bureau of the Union.

## IUGG Liaison Officers and Representatives

**IUGG Liaison Officers with Intergovernmental Organizations** (Principal Liaisons are marked by **bold**)

### IUGG Representatives to organizations of the United Nations

<i>UNESCO International Hydrological Programme (IHP):</i>	<b>Christophe Cudennec</b> Liss Marie Andreassen	<b>FRANCE</b> NORWAY
<i>UNESCO Intergovernmental Oceanographic Commission (IOC):</i>	Denise Smythe-Wright	UK
<i>UNESCO Earth Sciences:</i>	<b>Mari Paz Miralles</b> Patrick Allard	<b>USA</b> FRANCE
<i>World Meteorological Organization (WMO):</i>	<b>Robert Pulwarty</b> Sara Barsotti Christophe Cudennec Minghu Ding Eugene Rozanov Jens Wickert Hua Zhang	<b>USA</b> ICELAND FRANCE CHINA SWITZERLAND GERMANY CHINA
<i>Intergovernmental Panel on Climate Change (IPCC):</i>	<b>Jianping Li</b> Franz Kuglitsch	<b>CHINA</b> GERMANY
<i>International Civil Aviation Organization (ICAO):</i>	<b>David Schneider</b> Samantha Engwell	<b>USA</b> UK
<i>Committee of Experts on Global Geospatial Information Management (UN-GGIM):</i>	Harald Schuh	GERMANY

### IUGG Representatives on ISC Committees

<i>Committee on Data for Science and Technology (CODATA) and World Data System (WDS):</i>	<b>Kirsten Elger</b> Masahito Nose	<b>GERMANY</b> JAPAN
<i>Committee on Space Research (COSPAR):</i>	Christopher Kotsakis Simon Wing	GREECE USA
<i>Scientific Committee on Antarctic Research (SCAR):</i>	<b>Thomas Bracegirdle</b> Andrew Mackintosh	<b>UK</b> AUSTRALIA
<i>Scientific Committee on Oceanic Research (SCOR):</i>	Andrea Flossmann Hans van Haren	FRANCE NETHERLANDS
<i>Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):</i>	<b>Peter Pilewski</b> Michael Kosch	<b>USA</b> SOUTH AFRICA

### IUGG Representatives to other organizations

<i>Consultative Committee for Time and Frequency (CCTF):</i>	Sebastien Merlet	FRANCE
<i>Group on Earth Observations (GEO):</i>	Alexander Rudloff	GERMANY
<i>Pan-American Institute of Geography and History (PAIGH):</i>	Laura Sánchez	GERMANY/COLOMBIA
<i>World Climate Research Programme (WCRP):</i>	Lisa Alexander	AUSTRALIA

## Accredited Delegates to the Council of IUGG

MEMBER COUNTRY	Name SURNAME
ARGENTINA	Jorge Horacio MACHUCA
AUSTRALIA	Ian JACKSON
AUSTRIA	Wolfgang LENHARDT
BELGIUM	Philippe HUYBRECHTS
BULGARIA	tbd
CANADA	Fiona Ann DARBYSHIRE
CHILE	Pedro CASTILLO Figueroa
CHINA	Yigang XU
CHINA-TAIPEI	Kuo-Fong MA
CROATIA	Gordana BEG PAKLAR
CZECH REPUBLIC	Eduard PETROVSKY
DENMARK	Aksel Walløe HANSEN
ESTONIA	Piia POST
FINLAND	Jyri NÄRÄNEN
FRANCE	Pierre BRIOLE
GERMANY	Jürgen MÜLLER
GREECE	Christos ZEREFOS
HUNGARY	Szabolcs RÓZSA
ICELAND	Arni SNORRASON
INDIA	Vineet K. GAHALAUT
INDONESIA	Mohamad Arief SYAFII
IRELAND	tbd
ISRAEL	Colin PRICE

MEMBER COUNTRY	Name SURNAME
ITALY	Fausto GUZZETTI
JAPAN	Kenji SATAKE
KOREA, Rep. of	Sang-Mook LEE
LATVIA	Jānis KAMINSKIS
LUXEMBOURG	Felicia Norma RebeccaTEFERLE
MEXICO	Miguel Ángel SANTOYO
NETHERLANDS	Ramon HANSEN
NEW ZEALAND	Matt AMOS
NORWAY	Tormod KVAERNA
POLAND	Jan KRYNSKI
PORTUGAL	Conceição SANTOS
SLOVAK REPUBLIC	Juraj JANÁK
SLOVENIA	Matjaž LIČER
SOUTH AFRICA	Isabelle ANSORGE
SPAIN	Lorenzo GARCÍA ASENSIO
SWEDEN	Per HOLMLUND
SWITZERLAND	Luca CARICCHI
THAILAND	Krit RAMMON
TÜRKİYE	Osman ALP
UNITED KINGDOM	James HAMMOND
USA	Aaron VELASCO

## Past Officers of IUGG Bureau

### PAST IUGG PRESIDENTS

1919-1933	Charles Lallemand (France)
1933-1936	William Bowie (USA)
1936-1942	Dan La Cour (Denmark)
1946-1948	Bjørn Helland-Hansen (Norway)
1948-1951	Felix A. Vening-Meinesz (Netherlands)
1951-1954	Sidney Chapman (UK)
1954-1957	Kalpathi R. Ramanathan (India)
1957-1960	John T. Wilson (Canada)
1960-1963	Vladimir V. Belousov (USSR)
1963-1967	Joseph Kaplan (USA)
1967-1971	Jean Coulomb (France)
1971-1975	Henry Charnock (UK)
1975-1979	Attia Ashour (Egypt)
1979-1983	George D. Garland (Canada)
1983-1987	Devendra Lal (India)
1987-1991	Vladimir I. Keilis-Borok (USSR)
1991-1995	Helmut Moritz (Austria)
1995-1999	Peter J. Wyllie (USA)
1999-2003	Masaru Kono (Japan)
2003-2007	Uri Shamir (Israel)
2007-2011	Tom Beer (Australia)
2011-2015	Harsh K. Gupta (India)
2015-2019	Michael Sideris (Canada)
2019-2023	Kathryn Whaler (UK)

### PAST IUGG PRESIDENTS-ELECT

2019-2023	Chris Rizos (Australia)
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### PAST IUGG VICE-PRESIDENTS

1919-1922	S.A.S. Prince Albert le de Monaco William Bowie (USA) Sir William Napier Shaw (UK) M. Tanakadate (Japan)
1922-1948	The Presidents of the Associations
1948-1951	Sydney Chapman (UK) Leason H. Adams (USA)
1951-1954	Gino Cassinis (Italy) Jacob Bjerknes (USA)
1954-1957	John T. Wilson (Canada)
1957-1960	Vladimir V. Belousov (USSR) Weikko Heiskanen (Finland)
1960-1963	Julius Bartels (FRG) Joseph Kaplan (USA)
1963-1967	Keith E. Bullen (Australia) Jean Coulomb (France)
1967-1969	Hisashi Kuno (Japan)
1969-1971	Liviu Constantinescu (Romania)
1971-1975	Attia Ashour (Egypt)
1975-1979	George D. Garland (Canada)
1979-1983	Nikolai V. Shebalin (USSR)
1983-1991	Carl Kisslinger (USA)
1991-1995	Peter J. Wyllie (USA)
1995-2003	Uri Shamir (Israel)
2003-2007	Tom Beer (Australia)
2007-2011	Harsh K. Gupta (India)
2011-2015	Michael Sideris (Canada)
2015-2019	Kathryn Whaler (UK)

### PAST IUGG SECRETARIES GENERAL

1919-1930	Sir Henry Lyons (UK)
1930-1946	Harold St. J.L. Winterbotham (UK)
1946-1951	James M. Stagg (UK)
1951-1963	Georges R. Laclavère (France)
1963-1973	George D. Garland (Canada)
1973-1991	Paul Melchior (Belgium) *
1991-1999	Georges Balmino (France)
1999-2007	JoAnn Joselyn (USA)
2007-2019	Alik Ismail-Zadeh (Germany/Russia)

\* served as Adjoint Secretary General from 1971-1975

### PAST IUGG TREASURERS

1960-1971	Einar Andersen (Denmark)
1971-1979	Elvin Kejlsø (Denmark)
1979-1987	Ole Bedsted Andersen (Denmark)
1987-1999	Søren GregerSEN (Denmark)
1999-2019	Aksel Hansen (Denmark)

### PAST IUGG BUREAU MEMBERS

1957-1960	George Deacon (UK) J. Wallace Joyce (USA) Chuji Tsuboi (Japan)
1960-1963	M.S. Krishnan (India) Takesi Nagata (Japan)
1963-1967	Bert Bolin (Sweden) Valery A. Troitskaya (USSR)
1967-1971	Liviu Constantinescu (Romania) Thomas Malone (USA) Alexei M. Oboukhov (USSR)
1971-1975	William C. Ackermann (USA) Liviu Constantinescu (Romania) Nikolai V. Shebalin (USSR)
1975-1979	Nikolai V. Shebalin (USSR) Henri Lacombe (France) Carl Kisslinger (USA)
1979-1983	James C.I. Dooge (Ireland) Henri Lacombe (France) Carl Kisslinger (USA)
1983-1987	James C.I. Dooge (Ireland) Vladimir I. Keilis-Borok (USSR) Helmut Moritz (Austria)
1987-1991	Gordon McBean (Canada) Helmut Moritz (Austria) Ye Duzheng (China)
1991-1995	Gordon McBean (Canada) Ye Duzheng (China) Andrei S. Monin (Russia)
1995-1999	Junyong Chen (China) Andrei S. Monin (Russia) Seiya Uyeda (Japan)
1999-2001	Junyong Chen (China) Harsh K. Gupta (India) L.Vere Shannon (South Africa)
2001-2003	Tom Beer (Australia) Junyong Chen (China) Harsh K. Gupta (India)
2003-2007	Yun-tai Chen (China) Harsh K. Gupta (India) Ali A.A. Tealeb (Egypt)
2007-2011	Yun-tai Chen (China) David Jackson (USA) Ali A.A. Tealeb (Egypt)

**PAST IUGG BUREAU MEMBERS cont'd**

- |           |                                   |
|-----------|-----------------------------------|
| 2011-2015 | Isabelle Ansorge (South Africa)   |
|           | Pierre Hubert (France)            |
| 2015-2019 | Kenji Satake (Japan)              |
|           | Isabelle Ansorge (South Africa)   |
|           | Pierre Hubert (France)            |
|           | Chris Rizos (Australia)           |
| 2019-2023 | Stephen McNutt (USA)              |
|           | Eduard Petrovsky (Czech Republic) |
|           | Jun Xia (China)                   |

## Past Officers of IUGG Finance Committee (FC)

### PAST FC CHAIRS

1948-1954	John T. Wilson (Canada)
1957-1957	Arthur T. Doodson (UK)
1957-1963	K. Hilding Beij (USA)
1963-1967	M. Doporto (Ireland)
1967-1971	Tauno J. Kukkamäki (Finland)
1971-1975	James M. Stagg (UK)
1975-1979	Charles A. Whitten (USA)
1979-1983	Henry I.S. Thirlaway (UK)
1983-1995	Josep O. Cardus (Spain)
1995-1999	Attia A. Ashour (Egypt)
1999-2003	A. Fred Spilhaus (USA)
2003-2007	Mike Hamlin (UK)
2007-2011	Juan F. Vilas (Argentina)
2011-2016	David Collins (UK)
2017-2019	Jan Krynski (Poland)
2019-2023	Corina Risso (Argentina)

1967-1971	Stanislaw Krynski (Poland) A. Romana (Spain)
1971-1975	Stanislaw Krynski (Poland) James M. Stagg (UK) E. Walser (Switzerland)
1975-1979	Stanislaw Krynski (Poland) E. Walser (Switzerland) G. Yamamoto (Japan)
1979-1983	Stanislaw Krynski (Poland) G. Yamamoto (Japan) P.K. Das (India)
1983-1987	Josep O. Cardus (Spain) Jacub Rais (Indonesia) József Somogyi (Hungary)
1987-1991	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) József Somogyi (Hungary)
1991-1995	Attia A. Ashour (Egypt) A. Fred Spilhaus (USA)
1995-1999	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
1999-2003	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina)

### PAST FC SECRETARIES

1948-1957	K. Hilding Beij (USA)
1957-1960	Martin Goldschmidt (Israel)
1960-1967	Tauno J. Kukkamäki (Finland)
1967-1975	Charles A. Whitten (USA)
1975-1979	Henry I.S. Thirlaway (UK)
1979-1987	Arthur E. Maxwell (USA)
1987-1989	József Somogyi (Hungary)
1989-1999	A. Fred Spilhaus (USA)
1999-2003	Patrick Pinet (France)

1995-1999	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
1999-2003	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina)
2007-2011	David Jackson (USA) David Collins (UK) Jan Krynski (Poland)
2011-2015	Kiyoshi Suyehiro (Japan) Zoltan Hajnal (Canada) Jan Krynski (Poland)
2015-2016	David Rhoades (New Zealand) Jan Krynski (Poland) Corina Risso (Argentina)
2016-2019	Corina Risso (Argentina) Virendra Tiwari (India) Nasser Abou Ashour (Egypt)
2019-2022	Virendra Tiwari (India) József Ádám (Hungary)
2019-2023	Priscilla Grew (USA) Jan Krynski (Poland)
2023	

### PAST FC MEMBERS

1948-1951	Gerardo Dianderas (Peru) Arthur T. Doodson (UK) Jean Vignal (France)
1951-1954	Arthur T. Doodson (UK) Martin Goldschmidt (Israel) Jean Vignal (France)
1954-1957	Martin J. Goldschmidt (Israel) Jean Vignal (France) Fritz Gassmann (Switzerland)
1957-1960	J.M. Rayner (Australia) A. Romana (Spain) Jean Vignal (France)
1960-1963	M. Doporto (Ireland) Jack M. Rayner (Australia) A. Romana (Spain)
1963-1967	Charles A. Whitten (USA)

## Union Commissions

### Union Commission on Climatic and Environmental Change (CCEC):

<https://iugg.org/associations-commissions/commissions/ccec/>

<i>Chair:</i>	Jianping Li	CHINA
<i>Vice-Chair:</i>	Keith Alverson	CANADA
<i>Secretary-Treasurer:</i>	Tonie Van Dam	USA
<i>Commission Members:</i>	Harry Bryden	UK
	Mark Clilverd	UK
	Annette Eicker	GERMANY
	Domenico Giardini	SWITZERLAND
	Andrew Mackintosh	AUSTRALIA
	Alberto Montanari	ITALY
	Joyce Penner	USA
	Alan Robock	USA
	Dan Rosberg	DENMARK
<i>Immediate Past Chair:</i>	Tom Beer	AUSTRALIA

### Union Commission on Mathematical Geophysics (CMG):

<https://iugg.org/associations-commissions/commissions/cmg/>

<i>Chair:</i>	Alik Ismail-Zadeh	GERMANY
<i>Secretary:</i>	Andrew Valentine (IASPEI)	UK
<i>Vice-Chair:</i>	Enamundram Chandrasekhar	INDIA
<i>Past Chair:</i>	Yehuda Ben-Zion	USA
<i>Executive Committee Members:</i>	Roberto Carniel (IAVCEI)	ITALY
	Fabio Castelli (IAHS)	ITALY
	William Dewar (IAPSO)	USA
	Alexander Fournier (IAGA)	FRANCE
	Sang-Mook Lee	KOREA, Rep. of
	Elisa Mantelli (IACS)	GERMANY
	Oleg Melnik	UK
	Pavel Novák (IAG)	CZECH REPUBLIC
	Leslie M. Smith (IAMAS)	USA
<i>Advisory Committee Members:</i>	Salvatore Grimaldi	ITALY
	Ute Herzfeld	USA
	Dick Peltier	CANADA
	Annick Pouquet	USA
	Daniel Rothman	USA
	Malcolm Sambridge	AUSTRALIA
	Frederik J. Simons	USA

### Union Commission on Geophysical Risk and Sustainability (GRC):

<https://iugg.org/associations-commissions/commissions/grc/>

<i>Chair:</i>	John LaBrecque	USA
<i>Vice-Chairs:</i>	Vyacheslav Gusakov	RUSSIA
	Chun-Chieh Wu	CHINA-TAIPEI
<i>Secretary and Treasurer:</i>	Yekaterina (Katia) Kontar	USA
<i>Executive Committee Members:</i>	Georgios Balasis	GREECE
	Mohsen Ghafory-Ashtiani	IRAN
	Kosuke Heki	CHINA
	Michael Krautblatter	GERMANY
	Roberto Sulpizio	ITALY
	Christa von Hillebrandt-Andrade	USA
<i>Past Chair and Advisory Board Member:</i>	Joan Martí	SPAIN

**Union Commission on the Study of the Earth's Deep Interior (SEDI):**

[www.sedigroup.org](http://www.sedigroup.org)

<i>Chair:</i>	Mathieu Dumberry	CANADA
<i>Vice-Chair:</i>	Lauren Waszek	AUSTRALIA
<i>Secretary:</i>	Michael Bergman	USA
<i>Executive Committee Members at large:</i>	Jonathan Aurnou (Former Chair)	USA
	James Badro	FRANCE
	Carla Braatenberg (IAG rep.)	ITALY
	Chris Davies	UK
	Arwen Deuss	NETHERLAND
	Ed Garnero	USA
	Yumei He	CHINA
	George Helffrich	JAPAN
	Richard Holme	UK
	Catherine Johnson	CANADA
	Yongxin Pan	CHINA
	Sebastian Rost	UK
	Hisayoshi Shimizu	JAPAN
	Nicholas Schmerr (IASPEI rep.)	USA
	Satoru Tanaka (Former Chair)	JAPAN
	Christine Thomas (Former Chair)	GERMANY
	Hrvoje Tkalcic	AUSTRALIA

**Union Commission on Planetary Sciences (UCPS):**

<https://iugg.org/associations-commissions/commissions/ucps/>

<i>Chair:</i>	Shuanggen Jin	CHINA
<i>Vice-Chairs:</i>	Nader Haghighipour	USA
<i>Secretary/Treasurer:</i>	Paul Hartogh	GERMANY
<i>Executive Committee Members:</i>	Scot Rafkin	USA
	Christine Schott Hvidberg	DENMARK
	Michael Purucker	USA
	Fabrizio Capaccione	ITALY
	Philippe Lognonné	FRANCE
	José Luis Macias-Vasquez	MEXICO

## Inter-Unions Commission

### Inter-Unions Commission on the Lithosphere: The International Lithosphere Program (ILP)

<https://ilp.nju.edu.cn>

*President:*

Hans Thybo

TÜRKİYE

*Secretary General:*

Mian Liu

USA

*Executive Secretary*

Qin Wang

CHINA

*Bureau Members (Executive):*

IUGG: Alexander Rudloff

GERMANY

IUGS: John Ludden

FRANCE

Chair of National Representatives:

Alessandro Tibaldi

ITALY

Past President: Sierd Cloetingh

NETHERLANDS

Özlem Adiyaman Lopes

UNESCO

Kristine Asch

GERMANY

Atalay Ayele

ETHIOPIA

Shuwen Dong

CHINA

Cynthia Ebinger

USA

Dietmar Mueller

AUSTRALIA

Victor Ramos

ARGENTINA

Harsh Gupta

INDIA

Mary von Knorring

SWEDEN

Jörg Negendank

GERMANY

Roland Oberhänsli

GERMANY

Alan Green

SWITZERLAND

*Lifetime Members:*

*ILP-Fellow:*

*Past Secretary General:*

*Honorary President:*

## Union Committees

### Nominating Committee for the XXX General Assembly

<i>Chair:</i>	Michael G. Sideris	IAG	CANADA
<i>Members:</i>	Sergio Barrientos	IASPEI	CHILE
	Monika Korte	IAGA	GERMANY
	Marilyn Raphael	IAMAS	USA

### Site Comparison Committee

<i>Chair:</i>	Eduard Petrovsky	IAGA	CZECH REPUBLIC
<i>Members:</i>	Fiona Darbyshire	IASPEI	CANADA
	Jürgen Müller	IAG	GERMANY
	Stefania Sparnocchia	IAPSO	ITALY
	Martin Streck	IAVCEI	USA
	Hans Volkert	IAMAS	GERMANY
	Virendra Tiwari	IUGG	INDIA

### Resolutions Committee

<i>Chair:</i>	Kathryn Whaler	IAGA	UK
<i>Members:</i>	Andrew Harris	IAVCEI	FRANCE
	Harald Schuh	IAG	GERMANY
	Dmitry Storchak	IASPEI	UK
	Tirusha Thambiran	IAMAS	SOUTH AFRICA

### Awards Committee

<i>Chair:</i>	Denise Smythe-Wright	IAPSO	UK
<i>Members:</i>	Johan Gaume	IACS	SWITZERLAND
	Richard S. Gross	IAG	USA
	Jay Johnson	IAGA	USA
	Fuqiang Tian	IAHS	CHINA
	Mary Scholes	IAMAS	SOUTH AFRICA
	Keiko Kuge	IASPEI	JAPAN
	Paolo Papale	IAVCEI	ITALY
	Alexander Rudloff (ex-officio)	IUGG	GERMANY

### Statutes and By-Laws Committee

<i>Chair:</i>	Charles Barton	IAGA	AUSTRALIA
<i>Members:</i>	Zuheir Altamimi	IAG	FRANCE
	Neil Holbrook	IAMAS	AUSTRALIA
	Jan Lindsay	IAVCEI	NEW ZEALAND
	Johannes Schweitzer	IASPEI	NORWAY
	Mioara Mandea (ex-officio)	IUGG	FRANCE

### Equality, Diversity, and Inclusion Committee

<i>Chair:</i>	Andrew Mackintosh	IACS	AUSTRALIA
<i>Members:</i>	Rebekka Steffen	IAG	SWEDEN
	Katia Pinheiro	IAGA	BRAZIL / GERMANY
	Archana Sarkar	IAHS	INDIA
	Keith Alverson	IAMAS	USA
	Joellen Russell	IAPSO	USA
	Michelle Grobbelaar	IASPEI	AUSTRIA / SOUTH AFRICA

## INTERNATIONAL ASSOCIATIONS

IUGG comprises eight semi-autonomous International Associations, each responsible for a specific range of topics or themes within the overall scope of the Union's activities and each with a sub-structure discussed below. The International Associations hold Scientific Assemblies such as those since 1969 listed in Table 5.

### The eight International Associations are:

Association Internationale des Sciences Cryosphériques (AISC)  
International Association of Cryospheric Sciences (IACS)

Association Internationale de Géodésie (AIG)  
International Association of Geodesy (IAG)

Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)  
International Association of Geomagnetism and Aeronomy (IAGA)

Association Internationale des Sciences Hydrologiques (AISH)  
International Association of Hydrological Sciences (IAHS)

Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)  
International Association of Meteorology and Atmospheric Sciences (IAMAS)

Association Internationale pour les Sciences Physiques des Océans (AISPO)  
International Association for the Physical Sciences of the Oceans (IAPSO)

Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPIT)  
International Association of Seismology and Physics of the Earth's Interior (IASPEI)

Association Internationale de Volcanologie et de Chimie de l'intérieur de la Terre (AIVCIT)  
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

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**Table 5: Scientific Assemblies of the International Associations**

International Association	Year	Meeting Location	Number of Participants
IASPEI	1969	Madrid, Spain	NA
IAGA	1969	Madrid, Spain	475
IAPSO	1970	Tokyo, Japan	602
IASPEI	1973	Lima, Peru	250
IAGA	1973	Kyoto, Japan	613
IAMAP	1974	Melbourne, Australia	596
IAPSO	1974	Melbourne, Australia	596
IAG	1975	Grenoble, France	398
IASPEI	1977	Durham, UK	500
IAVCEI	1977	Durham, UK	500
IAGA	1977	Seattle, USA	950
IAMAP	1977	Seattle, USA	950
IASPEI	1981	London, Canada	448
IAGA	1981	Edinburgh, UK	747
IAMAP	1981	Hamburg, Germany	921
IAG	1982	Tokyo, Japan	200
IAVCEI	1982	Reykjavik, Iceland	190
IAHS	1982	Exeter, UK	530
IAPSO	1982	Halifax, Canada	759
IASPEI	1984	Hyderabad, India	285
IASPEI	1985	Tokyo, Japan	651
IAGA	1985	Praha, Czechoslovakia	994
IAMAP/IAPSO	1985	Hawaii, USA	450
IAHS	1986	Budapest, Hungary	310

**Table 5 (continued): Scientific Assemblies of the International Associations**

<b>International Association</b>	<b>Year</b>	<b>Meeting Location</b>	<b>Number of Participants</b>
IAPSO	1988	Acapulco, Mexico	543
IAG	1989	Edinburgh, UK	NA
IASPEI	1989	Istanbul, Türkiye	611
IAGA	1989	Exeter, UK	1200
IAMAS/IAPSO	1989	Reading, UK	1020
IAHS	1989	Baltimore, MD, USA	440
IASPEI	1990	Nairobi, Kenya	132
IAVCEI	1991	Naples, Italy	800
IAG	1993	Beijing, China	350
IAVCEI	1993	Canberra, Australia	600
IAMAS/IAHS	1993	Yokohama, Japan	450
IAGA	1993	Buenos Aires, Argentina	505
IASPEI	1994	Wellington, New Zealand	483
IAPSO	1995	Hawaii, USA	700
IAG	1997	Rio de Janeiro, Brazil	350
IASPEI	1997	Thessaloniki, Greece	1040
IAVCEI	1997	Puerto Vallarta, Mexico	600
IAGA	1997	Uppsala, Sweden	1200
IAHS	1997	Rabat, Morocco	500
IAMAS/IAPSO	1997	Melbourne, Australia	1100
IAG	2001	Budapest, Hungary	461
IASPEI/IAGA	2001	Hanoi, Vietnam	1078
IAVCEI	2000	Bali, Indonesia	490
IAMAS	2001	Innsbruck, Austria	851
IAHS	2001	Maastricht, Netherlands	400
IAPSO*	2001	Mar del Plata, Argentina	430
IAVCEI	2004	Pucon, Chile	936
IAG/IAPSO*	2005	Cairns, Australia	724
IAGA	2005	Toulouse, France	886
IAHS	2005	Foz de Iguassu, Brazil	459
IAMAS	2005	Beijing, China	840
IASPEI	2005	Santiago, Chile	360
IAVCEI	2008	Reykjavik, Iceland	907
IASPEI	2009	Cape Town, South Africa	347
IAMAS/IAPSO/IACS	2009	Montreal, Canada	1340
IAGA	2009	Sopron, Hungary	832
IAG	2009	Buenos Aires, Argentina	363
IAHS	2009	Hyderabad, India	500
IACS/IAMAS	2013	Davos, Switzerland	950
IAHS/IAPSO/IASPEI	2013	Gothenburg, Sweden	1087
IAG	2013	Potsdam, Germany	532
IAGA	2013	Merida, Mexico	459
IAVCEI	2013	Kagoshima, Japan	1069
IACS	2017	Wellington, New Zealand	250
IAG/IASPEI	2017	Kobe, Japan	1107
IAGA/IAMAS/IAPSO	2017	Cape Town, South Africa	1000
IAHS	2017	Port Elizabeth, South Africa	223
IAVCEI	2017	Portland, OR, USA	1400
IACS/IAMAS/IAPSO Seminar	2021	Online	200
IAG	2021	Beijing, China and Online	1200
IAGA/IASPEI	2021	Online	850
IAHS	2022	Montpellier, France	592
IAVCEI	2023	Rotorua, New Zealand	1100

\* With the International Association for Biological Oceanography (IABO)

## International Association of Cryospheric Sciences (IACS) Association Internationale des Sciences Cryosphériques (AISC)

[www.cryospheric sciences.org](http://www.cryospheric sciences.org)

On 4 July 2007, at the XXIV<sup>th</sup> IUGG General Assembly in Perugia, Italy, the IUGG Council decided to launch the International Association of Cryospheric Sciences (IACS) as the 8<sup>th</sup> IUGG Association. IACS is now a sister organization to long established Associations such as those for Hydrological Sciences (IAHS), Meteorology and Atmospheric Sciences (IAMAS) and Physical Sciences of the Oceans (IAPSO). The decision by the IUGG Council was mainly reached in recognition of the fact that the study of the Cryosphere has to be seen on equal footing to investigations of other components of the Earth system. With the initiation of IACS, its predecessors, the International Commission for Snow and Ice (ICSI) and the Union Commission on Cryospheric Sciences (UCCS) are superseded.

### IACS BUREAU 2021-2025

<i>President:</i>	Liss M. Andreassen	NORWAY
<i>President Elect:</i>	Mathieu Morlighem	USA
<i>Secretary General:</i>	Richard Essery	UK
<i>Vice-Presidents:</i>	Minghu Ding	CHINA
	Regine Hock	NORWAY
	Andrew Mackintosh	AUSTRALIA

### IACS DIVISIONS

#### Division I – Snow and Avalanches:

<i>Head:</i>	Rebecca Mott	SWITZERLAND
<i>Deputy Head:</i>	Vincent Vionnet	CANADA

#### Division II – Glaciers:

<i>Head:</i>	Mohd Farooq Azam	INDIA
<i>Deputy Head:</i>	Lauren Vargo	NEW ZEALAND

#### Division III – Ice Sheets:

<i>Head:</i>	Sophie Nowicki	USA
<i>Deputy Head:</i>	Ted Scambos	USA

#### Division IV – Sea Ice, Lake and River Ice:

<i>Head:</i>	Sandra Barreira	ARGENTINA
<i>Deputy Head:</i>	Alex Fraser	AUSTRALIA

#### Division V – Cryosphere, Atmosphere and Climate:

<i>Head:</i>	Anais Orsi	FRANCE
<i>Deputy Head:</i>	Ji-Woong Yang	FRANCE

#### Division VI – Planetary and other Ices of the Solar System:

<i>Head:</i>	Christine Schøtt Hvidberg	DENMARK
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### IACS SERVICES

#### World Glacier Monitoring Service (WGMS):

<i>Director:</i>	Michael Zemp	SWITZERLAND
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#### PAST IACS PRESIDENTS

2007-2009	Georg Kaser (Austria)
2009-2013	Ian Allison (Australia)
2013-2017	Charles Fierz (Switzerland)
2017-2021	Regine Hock (Norway/USA)

#### PAST IACS SECRETARIES GENERAL

2007-2011	Manfred Lange (Germany)
2011-2019	Andrew Mackintosh (Australia)

## International Association of Geodesy (IAG) Association Internationale de Géodésie (AIG)

[www.iag-aig.org](http://www.iag-aig.org)

In April 1862, the “Mitteleuropäische Gradmessung” was initiated by a “preliminary consultation” of representatives of the states of Prussia, Austria and Saxony. It was established at the constituent conference in Berlin, October 1864, as the first international scientific association of significance and expanded to the “Internationale Erdmessung” (Association Géodésique Internationale) in 1886. At the first General Assembly of the IUGG in Rome, May 1922, it became one of the constituent Sections of the Union. It took its present name at the IUGG General Assembly in Stockholm, August 1930.

### IAG EXECUTIVE COMMITTEE 2023-2027

The IAG Executive Committee consists of the Bureau, the Immediate Past President and Immediate Past Secretary General, the Commission Presidents, the Inter-commission Committees Presidents, the President of the Global Geodetic Observing System, the President of the Communication and Outreach Branch, three Representatives of the Services, and two Members at Large.

#### IAG Bureau:

<i>President:</i>	Richard Gross	USA
<i>Vice-President:</i>	Peter Teunissen	NETHERLANDS
<i>Secretary General:</i>	Daniela Thaller	GERMANY

#### Immediate Past President:

<i>President 2019-2023:</i>	Zuheir Altamimi	FRANCE
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#### Immediate Past Secretary General:

<i>Secr. General 2019-2023:</i>	Markku Poutanen	FINLAND
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#### Commission Presidents:

<i>Commission 1:</i>	Urs Hugentobler	GERMANY
<i>Commission 2:</i>	Srinivas Bettadpur	USA
<i>Commission 3:</i>	Rebekka Steffen	SWEDEN
<i>Commission 4:</i>	Paweł Wielgosz	POLAND

#### President of the Inter-Commission Committee on Theory (ICCT):

Mattia Crespi	ITALY
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#### President of the Inter-Commission Committee for Climate Research (ICCC):

Annette Eicker	GERMANY
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#### President of the Inter-Commission Committee for Marine Geodesy (ICCM):

Valérie Ballu	FRANCE
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#### President of the Global Geodetic Observing System (GGOS):

Laura Sánchez	GERMANY
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#### President of the Communication and Outreach Branch:

Szabolcs Rózsa	HUNGARY
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#### Representatives of the IAG Services:

Riccardo Barzaghi	ITALY
Tom Herring	USA
Vincenza Luceri	ITALY

#### IAG Members at Large:

Masato Furuya	JAPAN
Maria Virginia Mackern	ARGENTINA

#### Non-voting Members:

<i>IAG Project Novel Sensors and Quantum Technology for Geodesy:</i>	
Jürgen Müller	GERMANY

<i>IAG Past Presidents:</i>	Wolfgang Torge Fernando Sansó Gerhard Beutler Michael Sideris Chris Rizos Harald Schuh	GERMANY ITALY SWITZERLAND CANADA AUSTRALIA GERMANY
<i>Past Secretaries General:</i>	Hermann Drewes	GERMANY

## IAG COMMISSIONS, INTER-COMMISSION COMMITTEES and PROJECTS

### Commission 1: Reference Frames

<i>President:</i>	Urs Hugentobler	GERMANY
<i>Vice-President</i>	Xavier Collilieux	FRANCE

### Commission 2: Gravity Field

<i>President:</i>	Srinivas Bettadpur	USA
<i>Vice-President</i>	Tao Jiang	CHINA

### Commission 3: Earth Rotation and Geodynamics

<i>President:</i>	Rebekka Steffen	SWEDEN
<i>Vice-President:</i>	Jose M. Ferrandiz	SPAIN

### Commission 4: Positioning and Applications

<i>President:</i>	Paweł Wielgosz	POLAND
<i>Vice-President:</i>	Xingxing Li	CHINA

### IAG Inter-Commission Committee on Theory (ICCT)

<i>President:</i>	Mattia Crespi	ITALY
<i>Vice-President:</i>	Amir Khodabandeh	AUSTRALIA

### IAG Inter-Commission Committee for Climate Research (ICCC)

<i>President:</i>	Annette Eicker	GERMANY
<i>Vice-President:</i>	Carmen Blackwood	USA

### IAG Inter-Commission Committee on Marine Geodesy (ICCM)

<i>President:</i>	Valérie Ballu	FRANCE
<i>Vice-President:</i>	Heidrun Kopp	GERMANY

### IAG Project Novel Sensors and Quantum Technology for Geodesy (QuGe)

<i>President:</i>	Jürgen Müller	GERMANY
<i>Vice-President:</i>	Marcelo Santos	CANADA

## IAG SERVICES

### Bureau Gravimétrique International (BGI):

<i>Director:</i>	Sylvain Bonvalot	FRANCE
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### International Geodynamics and Earth Tide Service (IGETS)

<i>Chair:</i>	Marta Calvo García-Maroto	SPAIN
<i>Director Central Bureau:</i>	Jean-Paul Boy	FRANCE

### International Centre for Global Earth Models (ICGEM):

<i>Director:</i>	Elmas Sinem Ince	GERMANY
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### International Digital Elevation Model Service (IDEMS):

<i>Director:</i>	Kevin M. Kelly	USA
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### International DORIS Service (IDS):

<i>Chair Governing Board:</i>	Frank Lemoine	USA
<i>Director Central Bureau:</i>	Laurent Soudarin	FRANCE

### International Earth Rotation and Reference Systems Service (IERS):

<i>Chair of Directing Board:</i>	Adrian Jäggi	SWITZERLAND
<i>Director of Central Bureau:</i>	Daniela Thaller	GERMANY

**International Service for the Geoid (ISG):**

<i>President:</i>	Mirko Reguzzoni	ITALY
<i>Director:</i>	Daniela Carrion	ITALY

**International Gravity Field Service (IGFS):**

<i>Chair:</i>	Riccardo Barzaghi	ITALY
<i>Director of Central Bureau:</i>	Georgios Vergos	GREECE

**International GNSS Service (IGS):**

<i>Chair of Governing Board:</i>	Rolf Dach	SWITZERLAND
<i>Director of Central Bureau:</i>	Allison Craddock	USA

**International Laser Ranging Service (ILRS):**

<i>Chair of Governing Board:</i>	Stephen Merkowitz	USA
<i>Director of Central Bureau:</i>	Michael Pearlman	USA

**International Service for Geodesy and Astrometry (IVS):**

<i>Chair of Directing Board:</i>	Rüdiger Haas	SWEDEN
<i>Director of Coord. Centre:</i>	Dirk Behrend	USA

**Permanent Service for Mean Sea Level (PSMSL):**

<i>Head:</i>	Elizabeth Bradshaw	UK
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**IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)**

<i>President:</i>	Laura Sánchez	GERMANY
<i>Vice-President:</i>	Anna Ridell	AUSTRALIA

**IAG OFFICE**

**Federal Agency of Cartography and Geodesy (BKG)**

<i>Secretary General:</i>	Daniela Thaller	GERMANY
<i>Assistant Secretary:</i>	Christina Dimopoulou	GERMANY

**IAG COMMUNICATION AND OUTREACH BRANCH**

**Hungarian Academy of Sciences (HAS) / Budapest University of Technology and Economics (BUTE)**

<i>President:</i>	Szabolcs Rózsa	HUNGARY
<i>Secretary:</i>	Martin Sehnal	AUSTRIA

**JOURNAL OF GEODESY**

<i>Editor in Chief:</i>	Peiliang Xu	JAPAN
<i>Assistant Editor in Chief:</i>	Hansjörg Kutterer	GERMANY

**IAG SYMPOSIA SERIES**

<i>Editor in Chief:</i>	Jeff Freymueller	USA
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**PAST IAG & FORERUNNER PRESIDENTS**

1864-1868	Peter Andreas Hansen (Thuringia)
1869-1874	August von Fligely (Austria)
1874-1891	Carlos Ibanez de Ibero (Spain)
1892-1902	Hervé Faye (France)
1903-1917	Léon Bassot (France)
1917-1922	Raul Gautier (Switzerland)
1922-1933	William Bowie (USA)
1933-1945	Felix A. Vening Meinesz (Netherlands)
1945-1951	Walter D. Lambert (USA)
1951-1954	Carl F. Baeschlin (Switzerland)
1954-1957	James de Graaf Hunter (UK)
1957-1960	Gino Cassinis (Italy)
1960-1963	Charles A. Whitten (USA)
1963-1967	Guy Bomford (UK)
1967-1971	Antonio Marussi (Italy)
1971-1975	Yuri D. Boulanger (USSR)
1975-1979	Tauno J. Kukkamäki (Finland)
1979-1983	Helmut Moritz (Austria)
1983-1987	Peter V. Angus-Leppan (Australia)

**PAST CENTRAL BUREAU DIRECTORS**

1864-1885	Johann Jacob Baeyer (Prussia/Germany)
1886-1917	Friedrich Robert Helmert (Germany)

**PAST PERMANENT SECRETARIES**

1886-1900	Adolf Hirsch (Switzerland)
1900-1921	Hendricus G. Van de Sande-Bakhuyzen (Netherlands)

**PAST SECRETARIES GENERAL**

1922-1945	George Perrier (France)
1946-1960	Pierre Tardi (France)
1960-1975	Jean-Jacques Levallois (France)
1975-1991	Michel Louis (France)
1991-1995	Claude Boucher (France)
1995-2007	Carl Christian Tscherning (Denmark)
2007-2019	Hermann Drewes (Germany)
2019-2023	Markku Poutanen (Finland)

1987-1991	Ivan I. Mueller (USA)
1991-1995	Wolfgang Torge (Germany)
1995-1999	Klaus-Peter Schwarz (Canada)
1999-2003	Fernando Sansó (Italy)
2003-2007	Gerhard Beutler (Switzerland)
2007-2011	Michael Sideris (Canada)
2011-2015	Chris Rizos (Australia)
2015-2019	Harald Schuh (Germany)
2019-2023	Zuheir Altamimi (France)

## International Association of Geomagnetism and Aeronomy (IAGA) Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)

[www.iugg.org/IAGA](http://www.iugg.org/IAGA)

At the First IUGG General Assembly (Rome, 1922), the *Section de Magnétisme et Electricité Terrestres* became one of the constituent *sections* of the Union. At the IV IUGG General Assembly (Stockholm, 1930), it became the *International Association of Terrestrial Magnetism and Electricity*. It took its present name at the X IUGG General Assembly (Rome, 1954).

### IAGA EXECUTIVE COMMITTEE 2023-2027

<i>President:</i>	Andrew Yau	CANADA
<i>Vice-Presidents:</i>	Kusumita Arora	INDIA
	Klaus Spitzer	GERMANY
<i>Secretary General:</i>	Monika Korte	GERMANY
<i>Treasurer:</i>	Aude Chambodut	FRANCE
<i>Past President:</i>	Mioara Mandea	FRANCE
<i>Members:</i>	Anna Kelbert	USA
	Michael Kosch	SOUTH AFRICA
	Dominika Nierzabitowska	SWEDEN, Early Career Representative
	Masahito Nosé	JAPAN
	Katia Pinheiro	BRAZIL
	Pornchai Supnithi	THAILAND

### IAGA DIVISIONS

#### IAGA Division I – Internal Magnetic Fields

<i>Chair:</i>	Nicolas Gillet	FRANCE
<i>Co-Chairs:</i>	Liao Chang Patrick Arneitz	CHINA AUSTRIA

#### Working Group FAIR-MOD

<i>Chairs:</i>	Chris Davies	UK
	Catherine Constable	USA
<i>Co-Chairs:</i>	Julien Aubert	FRANCE
	Sanja Panovska	GERMANY

#### IAGA Division II – Aeronomic Phenomena

<i>Chair:</i>	Petra Koucká Knízová	CZECH REPUBLIC
<i>Co-Chair:</i>	Christina Arras	GERMANY

#### Working Group II-A: Electrodynamics of the Middle Atmosphere

<i>Chair:</i>	Martin Füllekrug	UK
<i>Co-Chair:</i>	Mitsuteru Sato	JAPAN

#### Working Group II-C: Meteorological Effects on the Ionosphere

<i>Chair:</i>	Loren Chang	CHINA-TAIPEI
<i>Co-Chair:</i>	Christina Arras	GERMANY

#### Working Group II-D: External Forcing of the Middle Atmosphere

<i>Chair:</i>	Christoph Jacobi	GERMANY
<i>Co-Chairs:</i>	Luc Damé	FRANCE
	Nicholas Pedatella	USA

#### Working Group II-E: Ionospheric Irregularities, Fields and Waves

<i>Chair:</i>	Venkatesh Kavutarapu	INDIA
<i>Co-Chairs:</i>	Paulo Roberto Fagundes	BRAZIL
	Alessio Pignalberi	ITALY

#### Working Group II-F: Long-term Trends in the Mesosphere, Thermosphere and Ionosphere (IAGA/ICMA/SCOSTEP)

<i>Chair:</i>	Liying Qian	USA
<i>Co-Chair:</i>	Ana G. Elias	ARGENTINA

**Working Group II-G: Ionosphere and Atmosphere Interactions in the Polar Regions**

<i>Chair:</i>	Irina A. Mironova	RUSSIA
<i>Co-Chair:</i>	Tamás Bozóki	HUNGARY

**IAGA/URSI Working Group: VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere (VERSIM)**

<i>IAGA Chair:</i>	Frantisek Nemec	CZECH REPUBLIC
<i>Co-Chair:</i>	Claudia Martinez-Calderon	JAPAN

**Joint Division II / Division III Working Group Geospace Data Assimilation (GeoDAWG)**

<i>Chair:</i>	Tomoko Matsuo	USA
<i>Co-Chair:</i>	David Themens	UK

**IAGA Division III – Magnetospheric Phenomena**

<i>Chair:</i>	Jay Johnson	USA
<i>Co-Chair:</i>	Jayashree Bulusu	INDIA

**Working Group ULF waves**

<i>Chair:</i>	Peter Chi	USA
<i>Co-Chairs:</i>	Yuki Obana	JAPAN
	Kazuhiro Yamamoto	JAPAN

**IAGA Division IV – Solar Wind & Interplanetary Field**

<i>Chair:</i>	Cynthia López-Portela	USA
<i>Co-Chair:</i>	Laura Rodríguez García	SPAIN

**IAGA Division V – Geomagnetic Observatories, Surveys & Analysis**

<i>Chair:</i>	Roman Leonhardt	AUSTRIA
<i>Co-Chair:</i>	Tanja Petersen	NEW ZEALAND

**Working Group V-OBS: Geomagnetic Observation**

<i>Chair:</i>	Seiki Asari	JAPAN
<i>Co-Chair:</i>	Jürgen Matzka	GERMANY

**Working Group V-MOD: Geomagnetic Field Modeling**

<i>Chair:</i>	Ciaran Beggan	UK
<i>Co-Chair:</i>	Clemens Kloss	DENMARK

**Working Group V-DAT: Geomagnetic Data and Indices**

<i>Chair:</i>	Anna Willer	DENMARK
<i>Co-Chair:</i>	Ayako Matsuoka	JAPAN

**IAGA Division VI – Electromagnetic Induction in the Earth and Planetary Bodies**

<i>Chair:</i>	Ute Weckmann	GERMANY
<i>Co-Chair:</i>	Kiyoshi Baba	JAPAN

**IAGA Inter-divisional Commissions**

**Inter-divisional Commission on Developing Countries**

<i>Chair:</i>	Geeta Vichare	INDIA
<i>Co-Chairs:</i>	Igo Paulino	BRAZIL
	Marta M. Zossi	ARGENTINA

**Inter-divisional Commission on History**

<i>Chair:</i>	Nada Al-Haddad	USA
<i>Co-Chairs:</i>	Hisashi Hayakawa	JAPAN
	Veronika Barta	HUNGARY

**Inter-divisional Commission on Education and Outreach**

<i>Chair:</i>	Barbara Leichter	AUSTRIA
<i>Co-Chair:</i>	Ashley Smith	UK
	Sara Gasparini	NORWAY

**Working Group ComNet**

<i>Chair:</i>	Hannah F. Rogers	UK
<i>Co-Chair:</i>	Shivangi Sharan	UK

**Inter-divisional Commission on Space Weather**

<i>Chair:</i>	Laure Lefevre	BELGIUM
<i>Co-Chair:</i>	Gemma Richardson	UK

**PAST IAGA PRESIDENTS**

1919-1922	Aikitsu Tanakadate (Japan)
1922-1927	Charles Chree (UK)
1927-1930	Louis A. Bauer (USA)
1930-1948	John A. Fleming (USA)
1948-1951	Sydney Chapman (UK)
1951-1954	Jean Coulomb (France)
1954-1957	Julius Bartels (F.R. Germany)
1957-1960	Joseph Kaplan (USA)
1960-1963	Viggo Laursen (Denmark)
1963-1967	Marcelle Nicolet (Belgium)
1967-1971	Takesi Nagata (Japan)
1971-1975	Valery A. Troitskaya (USSR)
1975-1979	Juan G. Roederer (USA)
1979-1983	Keith D. Cole (Australia)
1983-1987	Denis I. Gough (Canada)
1987-1991	Roger E. Gendrin (France)
1991-1995	D. J. Williams (USA)
1995-1999	Masaru Kono (Japan)
1999-2003	David J. Kerridge (UK)
2003-2007	Charles Barton (Australia)
2007-2011	Egil Friis-Christensen (Denmark)
2011-2015	Kathryn Whaler (UK)
2015-2019	Eduard Petrovsky (Czech Republic)
2019-2023	Mioara Mandea (France)

**PAST IAGA GENERAL SECRETARIES**

1919-1927	Louis A. Bauer (USA)
1927-1933	Charles Maurain (France)
1933-1936	Dan La Cour (Denmark)
1936-1939	A.H.R. Goldie (UK)
1939-1951	J. Wallace Joyce (USA)
1951-1957	Viggo Laursen (Denmark)
1957-1963	Josep O. Cardus (Spain)
1963-1975	Leroy Alldredge (USA)
1975-1983	Naoshi Fukushima (Japan)
1983-1995	Michael Gadsden (UK)
1995-1999	JoAnn Joselyn (USA)
1999-2001	Herbert W. Kroehl (USA)
2001-2009	Bengt Hultqvist (Sweden)
2009-2019	Mioara Mandea (France)

## International Association of Hydrological Sciences (IAHS) Association Internationale des Sciences Hydrologiques (AISH)

<http://iahs.info>

At the First IUGG General Assembly (Rome, 1922), the *Section d'Hydrologie Scientifique* became one of the constituent sections of the Union. At the IV IUGG General Assembly (Stockholm, 1930) it became the *International Association of Scientific Hydrology*. It took its present name at the XV IUGG General Assembly (Moscow, 1971).

### IAHS OFFICERS, 2023-2025

<i>President:</i>	Berit Arheimer	SWEDEN
<i>President-Elect:</i>	Salvatore Grimaldi	ITALY
<i>Secretary General:</i>	Jean-Marie Kileshye Onema	SOUTH AFRICA / D.R. CONGO
<i>Vice-Presidents:</i>	Christophe Cudennec Archana Sarkar Fuqiang Tian	FRANCE INDIA CHINA
<i>Treasurer:</i>	Kate Heal	UK
<i>HSJ Editor-in-Chief</i>	Attilio Castellarin	ITALY
<i>Executive Secretary:</i>	Claire Lupton	UK

### IAHS INTERNATIONAL COMMISSIONS

#### International Commission on Continental Erosion (ICCE)

<i>President:</i>	Paolo Porto	ITALY
<i>President-Elect:</i>	Sergey Chalov	RUSSIA
<i>Vice-Presidents:</i>	Allen Gellis Peter Molnar	USA SWITZERLAND
	Yuri Jacques A. B. da Silva	BRAZIL
<i>Secretary:</i>	Michal Habel	POLAND
<i>ECC Representative:</i>	Anatoly Tsyplenkov	NEW ZEALAND

#### International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

<i>President:</i>	Richard Petrone	CANADA
<i>President-Elect:</i>	Christopher White	UK
<i>Vice-Presidents:</i>	Tirtha Banerjee Lindsay Beevers	USA UK
	Shanshui Yuan	CHINA
<i>Secretary:</i>	Rodolfo Nóbrega	UK
<i>ECC Representative:</i>	P. James Dennedy-Frank	USA

#### International Commission on Groundwater (ICGW)

<i>President:</i>	Felipe de Barros	USA
<i>President-Elect:</i>	Michelle Newcomer	USA
<i>Vice-Presidents:</i>	Makoto Kagabu Chengpeng Lu	JAPAN CHINA
	Rajendra Prasad Patury	INDIA
<i>Secretary:</i>	Antonio Zarlenga	ITALY
<i>ECC Representative:</i>	Rahim Barzegar	CANADA

#### International Commission on Human-Water Feedbacks (ICHWF)

<i>President:</i>	Heidi Kreibich	GERMANY
<i>Vice-Presidents:</i>	Tobias Krüger Anne van Loon	GERMANY NETHERLANDS
	Saket Pande	NETHERLANDS
<i>Secretary:</i>	Melissa Haeffner	USA
<i>ECC Representative:</i>		

#### International Commission on Remote Sensing (ICRS)

<i>President:</i>	Amir AghaKouchak	USA
<i>President-Elect:</i>	Maria José Polo Gómez	SPAIN
<i>Vice-Presidents:</i>	Gilles Boulet Lisa Milani	FRANCE USA
	Yanjun Shen	CHINA

<i>Secretary:</i>	Pankaj Ramji Dhote	INDIA
<i>ECC Representative:</i>	Pankaj Kumar	INDIA

**International Commission on Statistical Hydrology (ICSH)**

<i>President:</i>	Elena Volpi	ITALY
<i>President-Elect:</i>	Krzysztof Kochanek	POLAND
<i>Vice-Presidents:</i>	Eleonora Dallan Simon Papalexiou	ITALY CANADA
	Sahani Pathiraja	AUSTRALIA
<i>Secretary:</i>	Svenja Fischer	GERMANY
<i>ECC Representative:</i>	Jew Das	INDIA

**International Commission on Snow and Ice Hydrology (ICSIH)**

<i>President:</i>	Melody Sandells	UK
<i>President-Elect:</i>	James McPhee	CHILE
<i>Vice-Presidents:</i>	Vsevolod Moreydo Dhiraj Pradhananga	RUSSIA NEPAL
	McKenzie Skiles	USA
	Shiqiang Zhang	CHINA
<i>Secretary:</i>	Tim Link	USA
<i>ECC Representative:</i>	Anna-Marie Jörss	GERMANY

**International Commission on Surface Water (ICSW)**

<i>President:</i>	David Hannah	UK
<i>President-Elect:</i>	Alain Dezetter	FRANCE
<i>Vice-Presidents:</i>	Ernest Amoussou Elizabeth W. Boyer	BÉNIN USA
	Faiza Hallouz	ALGERIA
<i>Secretary:</i>	Yonca Cavus	TÜRKİYE
<i>ECC Representative:</i>	Moctar Dembélé	GHANA/BURKINA FASO

**International Commission on Tracers (ICT)**

<i>President:</i>	Zhonghe Pang	CHINA
<i>President-Elect:</i>	Maki Tsujimura	JAPAN
<i>Vice-Presidents:</i>	Søren Jessen Koichi Sakakibara	DENMARK JAPAN
	Matthias Sprenger	USA
<i>Secretary:</i>	Wei Jiang	CHINA
<i>ECC Representative:</i>	Ravindra Dwivedi	INDIA/USA

**International Commission on Water Quality (ICWQ)**

<i>Co-President 2021-23:</i>	Elango Lakshmanan	INDIA
<i>Co-President 2023-25:</i>	Xiaohong Chen	CHINA
<i>President-Elect:</i>	Dedi Liu	CHINA
<i>Vice-Presidents:</i>	Remegio B. Confesor Ann van Griensven	NORWAY BELGIUM
	Stefan Krause	UK
<i>Secretary:</i>	Alena Bartosova	SWEDEN
<i>ECC Representative:</i>	Bertil Nlend	CAMEROON

**International Commission on Water Resources Systems (ICWRS)**

<i>President:</i>	Barry Croke	AUSTRALIA
<i>President-Elect:</i>	Pedro Chaffé	BRAZIL
<i>Vice-Presidents:</i>	Emmanouil Anagnostou Suxia Liu	USA CHINA
	Alberto Viglione	ITALY
<i>Secretary:</i>	Gökçen Uysal	TÜRKİYE
<i>ECC Representative:</i>	Chris Leong	JAPAN/FIJI

**IAHS WORKING GROUPS**

**MOXXI (Measurements and Observations in the XXIst century)**

<i>Chair:</i>	Salvatore Manfreda	ITALY
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**CANDHY (Citizen AND Hydrology)**

*Chair:* Wouter Buytaert UK

**History of Hydrology**

*Chair:* Keith Beven UK

**UPH (Unsolved Problems in Hydrology)**

*Chair:* Günter Blöschl AUSTRIA

**IAHS Committees**

**Early Career Scientists**

*Chair:* Moctar Dembélé GHANA

**Africa Regional Committee**

*Chair:* Hodson Makurira ZIMBABWE

**Latin America Regional Committee**

*Chair:* James McPhee CHILE

**PAST IAHS PRESIDENTS**

1922-1933	E. Wade (UK)
1933-1936	Jan Smetana (Czechoslovakia)
1936-1947	Otto Lütschg (Switzerland)
1947-1948	Gustaf Slettenmark (Sweden)
1948-1951	Merrill Bernard (USA)
1951-1957	Johannes T. Thijssse (Netherlands)
1957-1960	Harold G. Wilm (USA)
1960-1963	W. Friedrich (F.R. Germany)
1963-1967	Adriaan Volker (Netherlands)
1967-1970	Károly Szczesztay (Hungary)
1970-1971	William C. Ackermann (USA)
1971-1975	Jean Rodier (France)
1975-1979	James C.I. Dooge (Ireland)
1979-1983	Mark F. Meier (USA)
1983-1987	György Kovacs (Hungary)
1987-1991	Vit Klemes (Canada)
1991-1995	Uri Shamir (Israel)
1995-2001	John C. Rodda (UK)
2001-2005	Kuniyoshi Takeuchi (Japan)
2005-2009	Arthur Askew (Australia)
2009-2013	Gordon Young (Canada)
2013-2017	Hubert Savenije (Netherlands)
2017-2021	Günter Blöschl (Austria)

**PAST IAHS SECRETARIES GENERAL**

1922-1933	Giovanni Magrini (Italy)
1933-1947	Frédéric Diénert (France)
1947-1948	Auguste Vibert (France)
1948-1971	Léon J. Tison (Belgium)
1971-1975	György Kovacs (Hungary)
1975-1979	Jean Rodier (France)
1979-1987	John C. Rodda (UK)
1987-1995	Henny J. Colenbrander (Netherlands)
1995-2000	Gordon J. Young (Canada)
2000-2011	Pierre Hubert (France)
2011-2023	Christophe Cudennec (France)

## International Association of Meteorology and Atmospheric Sciences (IAMAS) Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)

[www.iamas.org](http://www.iamas.org)

Right at the start of IUGG in July 1919, the *Section de Météorologie* became one of the constituent *sections* of the Union. At the fourth IUGG General Assembly (Stockholm, 1930) it became the *International Association of Meteorology*. It was renamed *International Association of Meteorology and Atmospheric Physics* at the eleventh IUGG General Assembly (Toronto, 1957) and, more general, *International Association of Meteorology and Atmospheric Sciences* in 1993.

### IAMAS EXECUTIVE COMMITTEE 2023-2027

<i>President:</i>	Andrea Flossmann	FRANCE
<i>Vice-Presidents:</i>	John Burrows	GERMANY
	Mary Scholes	SOUTH AFRICA
<i>Past President:</i>	Joyce E. Penner	USA
<i>Secretary General:</i>	Keith Alverson	CANADA
<i>Members at large:</i>	Neil Holbrook	AUSTRALIA
	Mu Mu	CHINA
	Marilyn Raphael	USA
	Tirusha Thambiran	SOUTH AFRICA
	John Turner	UK
<i>Commission presidents (ex officio):</i>	see below	see below

### IAMAS COMMISSIONS

#### Atmospheric Chemistry and Global Pollution (ICACGP)

<a href="http://www.icacgp.org">www.icacgp.org</a>		
<i>President:</i>	Mary Barth	USA
<i>Vice-Presidents:</i>	Hugh Coe	UK
	Christian George	FRANCE
	Judith Hoelzemann	BRAZIL
	Hiroshi Tanimoto	JAPAN

#### Atmospheric Electricity (ICAE)

<a href="http://www.icae-iamas.org/">http://www.icae-iamas.org/</a>		
<i>President:</i>	Xiushu Qie	CHINA
<i>Secretary:</i>	Weitao Lyu	CHINA

#### Climate (ICCL)

<a href="http://www.iccl-iamas.net">www.iccl-iamas.net</a>		
<i>President:</i>	Jianping Li	CHINA
<i>Secretary:</i>	Qizhen Yin	BELGIUM

#### Clouds and Precipitation (ICCP)

<a href="http://www.iccp-iamas.org">www.iccp-iamas.org</a>		
<i>President:</i>	Greg McFarquhar	USA
<i>Vice-President:</i>	Luis Ladino Moreno	MEXICO
<i>Secretary-Treasurer:</i>	Martina Krämer	GERMANY

#### ICCP - Committee on Nucleation and Atmospheric Aerosols (CNAA)

<a href="http://www.icnaa.org">www.icnaa.org</a>		
<i>Chair:</i>	Markku Kulmala	FINLAND
<i>Secretary:</i>	Katrianne Lehtipalo	FINLAND

#### Dynamic Meteorology (ICDM)

<a href="http://icdm.atm.ucdavis.edu/ICDM.html">http://icdm.atm.ucdavis.edu/ICDM.html</a>		
<i>President:</i>	Thomas Spengler	NORWAY
<i>Secretary:</i>	Craig Bishop	AUSTRALIA

**Middle Atmosphere (ICMA)**

<https://www.iamas.org/icma/>

*President:*

Natalia Calvo

SPAIN

*Vice-President:*

Seok Woo Son

KOREA, Rep. of

**Ozone (IO3C)**

[www.io3c.org](http://www.io3c.org)

*President:*

Irina Petropavlovskikh

USA

*Vice-Presidents:*

Nathaniel Livesey

USA

Valérie Thouret

FRANCE

*Secretary:*

Corinne Vigouroux

BELGIUM

**Planetary Atmospheres and their Evolution (ICPAE)**

<http://iamas.org/icpae>

*President:*

Ann Carine Vandaele

BELGIUM

*Secretary:*

Yeon Joo Lee

KOREA, Rep. of

*Vice-Secretary:*

Giuliano Liuzzi

ITALY

**Polar Meteorology (ICPM)**

[www.iamas.org/icpm/](http://www.iamas.org/icpm/)

*President:*

Matthew Lazzara

USA

*Secretary:*

Tracy Moffat-Griffin

UK

**Radiation (IRC)**

<https://www.iamas.org/irc/>

*President:*

Manfred Wendisch

GERMANY

*Vice-President:*

Hajime Okamoto

JAPAN

*Secretary General:*

Christine Chiu

USA

**PAST IAMAS PRESIDENTS**

1919-1930	William Napier Shaw (UK)
1930-1936	Axel Wallen (Sweden)
1936-1948	Sidney Chapman (UK)
1948-1951	Jacob Bjerknes (USA)
1951-1954	Kalpathi R. Ramanathan (India)
1954-1957	Carl-Gustaf Rossby (Sweden)
1957-1960	Jacques van Mieghem (Belgium)
1960-1963	Horace R. Byers (USA)
1963-1967	Alexei M. Oboukhov (USSR)
1967-1971	Reginald C. Sutcliffe (UK)
1971-1975	Sigmund Fritz (USA)
1975-1979	Christian Junge (F.R. Germany)
1979-1983	Warren L. Godson (Canada)
1983-1987	Hans-Jürgen Bolle (Austria)
1987-1991	G. Brian Tucker (Australia)
1991-1995	Brian J. Hoskins (UK)
1995-1999	Robert A. Duce (USA)
1999-2003	Huw C. Davies (Switzerland)
2003-2007	Michael C. MacCracken (USA)
2007-2011	Guoxiong Wu (China)
2011-2015	Athena Coustenis (France)
2015-2019	John Turner (UK)
2019-2023	Joyce E. Penner (USA)

**PAST IAMAS SECRETARIES GENERAL**

1919-1922	Charles F. Marvin (USA)
1922-1927	Filippo Eredia (Italy)
1927-1936	Philippe Wehrlé (France)
1936-1948	Jacob Bjerknes (USA)
1948-1954	Jacques van Mieghem (Belgium)
1954-1960	Reginald C. Sutcliffe (UK)
1960-1975	Warren L. Godson (Canada)
1975-1987	Stanley Ruttenberg (USA)
1987-1995	Michael Kuhn (Austria)
1995-2007	Roland List (Canada)
2007-2015	Hans Volkert (Germany)
2015-2019	Teruyuki Nakajima (Japan)
2019-2023	Steven Ackerman (USA)

## International Association for the Physical Sciences of the Oceans (IAPSO) Association Internationale pour les Sciences Physiques des Océans (AISPO)

<https://iapso-ocean.org/>

At the First IUGG General Assembly (Rome, 1922), the *Section d'Océanographie* became one of the constituent Sections of the Union. At the IV IUGG General Assembly (Stockholm, 1930) it became the *International Association of Physical Oceanography*. It took its present name at the XIV IUGG General Assembly (Zurich, 1967).

### IAPSO BUREAU 2023-2027

<i>President:</i>	Hans van Haren	NETHERLANDS
<i>Past President:</i>	Trevor McDougall	AUSTRALIA
<i>Secretary General:</i>	Silvia Blanc	ARGENTINA
<i>Treasurer:</i>	Ken Ridgway	AUSTRALIA

### IAPSO EXECUTIVE COMMITTEE 2023-2027

<i>Vice-Presidents:</i>	Agatha de Boer	SWEDEN
	Toshiyuki Hibiya	JAPAN
<i>Members:</i>	Juliet Hermes	SOUTH AFRICA
	Yukio Masumoto	JAPAN
	Malin Ödalen	NORWAY
	Jae-Hun Park	KOREA, Rep. of
	Regina Rodrigues	BRAZIL
	Joellen Russell	USA
	Alejandra Sanchez-Franks	UK
	Peter Zavialov	RUSSIA

### IAPSO COMMISSIONS, JOINT COMMITTEES & WORKING GROUPS

#### Sea Level & Tides

<i>President:</i>	Gary T. Mitchum	USA
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#### SCOR/IAPWS/IAPSO Joint Committee on the Properties of Seawater, JCS

<i>Chair:</i>	Rich Pawlowicz	CANADA
<i>Vice-Chair:</i>	Steffen Seitz	GERMANY

#### IAPSO Early Career Scientists Working Group

<i>Chair:</i>	Alejandra Sanchez-Franks	UK
<i>Vice-Chair:</i>	Malin Ödalen	GERMANY

### SERVICES

#### Permanent Service for Mean Sea Level (affiliated to the World Data System of ISC)

<a href="http://www.psmls.org">www.psmls.org</a>		
<i>Head:</i>	Elizabeth Bradshaw	UK
<i>IAPSO Liaison:</i>	Philip L. Woodworth	UK

#### IAPSO Standard Seawater Service

<i>Director:</i>	Richard Williams	UK
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### PAST IAPSO PRESIDENTS

1919-1922	S.A.S. Prince Albert 1 <sup>er</sup> (Monaco)
1924-1930	Odón de Buen (Spain)
1930-1936	Martin Knudsen (Denmark)
1936-1946	Bjørn Helland-Hansen (Norway)
1946-1951	Harald U. Sverdrup (Norway)
1951-1954	Joseph Proudman (UK)
1954-1960	Håkon Mosby (Norway)
1960-1963	George E.R. Deacon (UK)
1963-1967	Roger Revelle (USA)
1967-1970	Günter Dietrich (F.R. Germany)
1970-1975	Henri Lacombe (France)

### PAST IAPSO SECRETARIES GENERAL

1919-1930	Giovanni Magrini (Italy)
1930-1933	Rolf Witting (Finland)
1933-1948	Joseph Proudman (UK)
1948-1954	Håkon Mosby (Norway)
1954-1957	Richard H. Fleming (USA)
1957-1963	Börje Kullenberg (Sweden)
1963-1967	Ilmo Hela (Finland)
1967-1970	Arthur E. Maxwell (USA)
1970-1987	Eugene C. LaFond (USA)
1987-1995	Robert E. Stevenson (USA)
1995-2007	Fred E. Camfield (USA)

1975-1979	Robert W. Stewart (Canada)	2007-2015	Johan Rodhe (Sweden)
1979-1983	Devendra Lal (India)	2015-2023	Stefania Sparnocchia (Italy)
1983-1987	Wolfgang M. Krauss (F.R. Germany)		
1987-1991	James J. O'Brien (USA)		
1991-1995	Robin D. Muench (USA)		
1995-1999	L.Vere Shannon (South Africa)		
1999-2003	Paola Rizzoli (Italy/USA)		
2003-2007	Shiro Imawaki (Japan)		
2007-2011	Lawrence Mysak (Canada)		
2011-2015	Eugene G. Morozov (Russia)		
2015-2019	Denise Smythe-Wright (UK)		
2019-2023	Trevor McDougall (Australia)		

## International Association of Seismology and Physics of the Earth's Interior (IASPEI) Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPI)

[www.iaspei.org](http://www.iaspei.org)

At the Sixth International Congress of Geography (London, 1895), G. Gerland (Germany) presented E. v. Rebeur-Paschwitz' ideas on the necessity of an international cooperation in seismology. At the Seventh Congress (Berlin, 1899) a *Commission séismologique permanente* was created. The first meeting of the Commission was held in Strasbourg in 1901 under the name of *Première Conférence Séismologique Internationale*. Subsequent conferences were held in Strasbourg (1903) and Berlin (1905). During the 2<sup>nd</sup> Strasbourg meeting, an international convention had been drafted to form the *Association Internationale de Séismologie* by signatures of member states. After being signed by 18 states the convention came in power on 1 April 1904. It consisted of a permanent *Bureau* located in Strasbourg, *General Assemblies* and a *Commission Permanente*. The *Commission Permanente* was formed during the Berlin conference and met in Rome (1906), The Hague (1907), Zermatt (1910), Manchester (1911), and Strasbourg (1922). General Assemblies were held jointly in The Hague, Manchester, and Strasbourg. The Association was dissolved by the Strasbourg General Assembly. At the first IUGG General Assembly (Rome, 1922), seismology became one of the constituent Sections of the Union. It changed its name to *International Association of Seismology* at the IV IUGG General Assembly (Stockholm, 1930) and took its present name at the IX IUGG General Assembly (Brussels, 1951). For a detailed account of the history of the International Association of Seismology and Physics of the Earth's Interior, see: J. H. Hodgson, *Our Association, its Past as a Guide to its Future* (Comptes Rendus de l'AISPI, n15, Première Partie, 12-28, 1967); J.-P. Rothé, *Fifty Years of the International Association of Seismology* (1901-1951) (BSSA, 71, 905-923, 1981); R. Adams, *International Seismology* (in International Handbook of Earthquake & Engineering Seismology, ed. by Willie Lee et al., 29-37, 2002); and J. Schweitzer & T. Lay, *IASPEI: its origins and the promotion of global seismology* (History of Geo- and Space Sciences, 10, 173-180, 2019).

### IASPEI BUREAU 2023-2027

<i>President:</i>	Michelle Grobbelaar	SOUTH AFRICA / AUSTRIA
<i>First Vice-President:</i>	Li Li	CHINA
<i>Second Vice-President:</i>	Dmitry Storchak	UK
<i>Secretary General &amp; Treasurer:</i>	Johannes Schweitzer	NORWAY

### IASPEI EXECUTIVE COMMITTEE 2023-2027

<i>Members:</i>	Sergio Barrientos	CHILE
	Fiona Ann Darbyshire	CANADA
	Christine Thomas	GERMANY
	Hrvoje Tkalcic	AUSTRALIA
<i>Past President:</i>	Kenji Satake	JAPAN

### IASPEI Early Career Scientists Group

<i>Contacts:</i>	Louisa Murray-Bergquist	NETHERLANDS
	María del Puy Papí Isaba	AUSTRIA
	R. Arun Prasath	INDIA

### IASPEI COMMISSIONS

#### Commission on Tectonophysics and Crustal Structure

<i>Co-Chair:</i>	Magdalena Tesauro	ITALY
------------------	-------------------	-------

#### Commission on Earthquake Hazard, Risk & Strong Ground Motion (SHR)

<i>Chair:</i>	Fabrice Cotton	GERMANY
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#### Commission on Seismological Observation & Interpretation (CoSOI)

<i>Chair:</i>	Torsten Dahm	GERMANY
---------------	--------------	---------

#### Working Group on Seismic Scattering & Heterogeneity

<i>Co-Chairs:</i>	Hisashi Nakahara	JAPAN
	Ulrich Wegler	GERMANY

#### Working Group on Utilization of Global 3-D Models for Seismic Observatory Applications

<i>Chair:</i>	István Bondár	HUNGARY
---------------	---------------	---------

**Working Group on Magnitude Measurements**

*Chair:* Allison Bent CANADA

**Working Group on New Manual of Seismological Observatory Practice**

*Chair:* Torsten Dahm GERMANY

**Working Group on Triggered and Induced Seismicity**

*Chair:* Beata Orlecka-Sikora POLAND

**Working Group on Historical Seismicity**

*Co-Chairs:* Paola Albini ITALY  
 Kenji Satake JAPAN

**Working Group on Reference Events for Improved Locations**

*Chair:* Ryan J. Gallacher UK

**Working Group on Automatic and routine Moment tensors: benchmark and verification platform**

*Chair:* Simone Cesca GERMANY

**Working Group on Review "classification of seismic events" (jointly with FDSN)**

*Chair:* Dmitry Storchak UK

**Commission on Earthquake Generation Process - Physics, Modelling and Monitoring for Forecast**

*Chair:* Eleftheria Papadimitriou GREECE

**Commission on Earthquake Source Mechanics**

*Chair:* Satoshi Ide JAPAN

**Joint IAG-IASPEI Sub-Commission on Seismo-Geodesy**

*Co-Chair & IAG* Jean-Mathieu Nocquet FRANCE

*Representative:*

*Co-Chair & IASPEI* Masayuki Kano JAPAN

*Representative:*

**Commission on Education & Outreach**

*Co-Chairs:* Raju Sarkar INDIA  
 Aaron Velasco USA  
 Xyoli Pérez-Campos MEXICO / AUSTRIA

**IASPEI REGIONAL COMMISSIONS**

**European Seismological Commission (ESC)**

[www.esc-web.org](http://www.esc-web.org)

<i>President:</i>	Florian Haslinger	SWITZERLAND
<i>Vice-President:</i>	Aysegül Askan Gündoğan	TÜRKİYE
<i>Secretary General:</i>	Adrien Oth	LUXEMBOURG
<i>Assistant Secretary:</i>	Olga-Joan Ktenidou	GREECE
<i>Past President:</i>	Dmitry Storchak	UK

**Asian Seismological Commission (ASC)**

[www.asc-iaspei.org](http://www.asc-iaspei.org)

<i>President:</i>	Ruben Tatevossian	RUSSIA
<i>First Vice-President:</i>	Makoto Okubo	JAPAN
<i>Second Vice-President:</i>	Sandeep Kumar Gupta	INDIA
<i>Secretary General:</i>	Li Li	CHINA
<i>Past President:</i>	Paramesh Banerjee	SINGAPORE

**African Seismological Commission (AfSC)**

<http://www.iaspei.org/commissions/africa-seismological-commission-afsc>

<i>President:</i>	Paulina Ampionsah	GHANA
<i>First Vice-President:</i>	Mohamed El-Gabry	EGYPT
<i>Second Vice-President:</i>	Momoun Chourak	MOROCCO

<i>Secretary General:</i>	Michelle Grobbelaar	SOUTH AFRICA / AUSTRIA
<i>Past President:</i>	Mustapha Meghraoui	ALGERIA / FRANCE

**Latin American and Caribbean Seismological Commission (LACSC)**

<http://www.iaspei.org/commissions/latin-american-and-caribbean-seismological-commission>

<i>President:</i>	Victor Huérano Moreno	PUERTO RICO
<i>Vice-President:</i>	Sergio Ruiz	CHILE
<i>Secretary General:</i>	Xyoli Pérez-Campos	MEXICO / AUSTRIA
<i>Past President:</i>	Esteban J. Chaves Sibaja	COSTA RICA

**FURTHER GROUP WITH IASPEI COMMISSION STATUS**

**International Federation of Digital Seismograph Networks (FDSN)**

[www.fdsn.org](http://www.fdsn.org)

<i>Chair:</i>	Michelle Grobbelaar	SOUTH AFRICA / AUSTRIA
<i>Secretary General</i>	Nick Ackerley	CANADA

**IASPEI REPRESENTATIVES TO IUGG AND OTHER GROUPS**

**IUGG Commission on Mathematical Geophysics**

*Secretary, Representative:* Andrew Valentine UK

**IUGG Commission on Geophysical Risk and Sustainability**

*Representative:* Mohsen Ghafory-Ashtiani IRAN

**IUGG Commission on Study of the Earth's Deep Interior (SEDI)**

*Representative:* Lauren Waszek AUSTRALIA

**IUGG Commission on Climatic and Environmental Changes**

*Representative:* Domenico Giardini SWITZERLAND

**IUGG Commission on Planetary Science**

*Representative:* Philippe Lognonné FRANCE

**IUGG/IUGS International Lithosphere Program (ILP)**

*Representative:* Alexander Rudloff GERMANY

**International Seismological Centre Executive Committee**

*Representative:* IASPEI Secretary-General  
 (Johannes Schweitzer) NORWAY)

**SCAR (Solid Earth Geophysical Working Group)**

*Representative:* Masaki Kanao JAPAN

**GEM Foundation**

*Representative:* Stefano Parolai ITALY

**PAST IASPEI PRESIDENTS**

1905-1907	Luigi Palazzo (Italy)
1907-1911	Arthur Schuster (UK)
1911-1916	Boris Galitzin (Russia)
1916-1922	Georges Lecointe (Belgium)
1922-1930	Herbert H. Turner (UK)
1930-1936	Emilio Oddone (Italy)
1936-1940	Nicholas H. Heck (USA)
1940-1951	Robert Stoneley (UK)
1951-1954	Beno Gutenberg (USA)
1954-1957	Keith E. Bullen (Australia)
1957-1960	Harold Jeffreys (UK)
1960-1963	Perry Byerly (USA)
1963-1967	John Hodgson (Canada)

**PAST IASPEI SECRETARIES GENERAL**

1905-1922	Radó de Kovesligethy (Hungary)
1922-1942	Edmond Rothé (France)
1942-1971	Jean P. Rothé (France)
1971-1979	Jean-Claude de Bremaecker (USA)
1979-1991	Robin D. Adams (UK)
1991-2003	E. Robert Engdahl (USA)
2003-2015	Peter Suhadolc (Italy)

1967-1971	Kiyoo Wadati (Japan)
1971-1975	Vladimir A. Magnitsky (USSR)
1975-1979	Hans Berckhemer (F.R. Germany)
1979-1983	Bruce A. Bolt (USA)
1983-1987	Ziro Suzuki (Japan)
1987-1991	Stephan Müller (Switzerland)
1991-1995	Alexei V. Nikolaev (Russia)
1995-1999	Claude Froidevaux (France)
1999-2003	Brian L.N. Kennett (Australia)
2003-2007	E. Robert Engdahl (USA)
2007-2011	Zhongliang Wu (China)
2011-2015	Domenico Giardini (Switzerland)
2015-2019	Thorne Lay (USA)
2019-2023	Kenji Satake (Japan)

# International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

# Association Internationale de Volcanologie et de Chimie de l'Intérieur de la Terre (AIVCIT)

[www.iavceivolcano.org](http://www.iavceivolcano.org)

At the First General Assembly of IUGG (Rome, 2-10 May 1922), the *Section de Vulcanologie* became one of the constituent sections of the Union. This name was changed into *Association Internationale de Vulcanologie* at the Fourth IUGG General Assembly (Stockholm 1930). The present name of IAVCEI was adopted at the Moscow General Assembly in 1971.

## IAVCEI BUREAU 2023-2027

<i>President:</i>	Costanza Bonadonna	SWITZERLAND
<i>Vice-Presidents:</i>	Marta Calvache	COLOMBIA
	Andrew Harris	FRANCE
<i>Secretary General:</i>	Ulrich Kueppers	GERMANY
<i>Officers:</i>	Alessandro Aiuppa	ITALY
	Alvaro Amigo	CHILE
	Alessandro Bonforte	ITALY
	Nobuo Geshi	JAPAN
<i>Past President:</i>	Patrick Allard	FRANCE
<i>Early Career Researcher</i>	Joali Paredes-Mariño	NEW ZEALAND
<i>Editor, Bulletin of Volcanology:</i>	Marie Edmonds	UK
<i>Webmaster:</i>	Marek Libiger	CZECH REPUBLIC
<i>Membership Secretary:</i>	Marie-Anna Mysikova	CZECH REPUBLIC

## IAVCEI COMMISSIONS

### *CHEMISTRY OF THE EARTH*

#### Commission on the Chemistry of Volcanic Gases

<i>Co-Leaders:</i>	Tobias Fischer	USA
	Silvana Hidalgo	ECUADOR
<i>Secretary:</i>	Artur Ionescu	ROMANIA

#### Commission on Volcanic Clouds

<i>Leader:</i>	Simon Carn	USA
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#### Commission on Volcano Geology

<i>Co-Leaders:</i>	Natalia Pardo	COLOMBIA
	Karoly Nemeth	NEW ZEALAND

#### Commission on Volcanic Lakes

<i>Co-Leaders:</i>	Agnes Mazot	NEW ZEALAND
	Jacopo Cabassi	ITALY
<i>Secretary:</i>	Felipe Aguilera	CHILE

### *VOLCANIC PROVINCES AND PROCESSES*

#### Commission on Collapse Calderas

<i>Co-Leaders:</i>	Guilherme Gualda	USA
	Steve Self	UK

#### Commission on Explosive Volcanism

<i>Co-Leaders:</i>	Karen Fontijn	BELGIUM
	Jorge Romero Moyano	CHILE

#### Commission on Large Igneous Provinces

<i>Leader:</i>	Richard E. Ernst	CANADA
<i>Co-Leaders:</i>	Simon M. Jowitt	USA

<i>IAVCEI Liaison Committee:</i>	Hafida El Bilali Mike Widdowson Scott Bryan	CANADA UK AUSTRALIA
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**Commission on Monogenetic Volcanism**

<i>Co-Leaders:</i>	Marie-Noelle Guilbaud Emily Johnson	MEXICO USA
<i>Secretary:</i>	Karen Bemis	USA

**Commission on Submarine Volcanism**

<i>Leader:</i>	Sam Mitchell	UK
<i>Co-Leader:</i>	Tashur Mittal	USA

**Commission on Volcanogenic Sediments**

<i>Co-Leaders:</i>	Andrea Di Capua Rebecca Williams	ITALY UK
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**Commission on Volcano Geoheritage and Protected Volcanic Landscapes**

<i>Co-Leaders:</i>	Olga Bergal-Kuvikas Heather Handley Juana Vegas Vladislav Rappich	RUSSIA NETHERLAND SPAIN CZECH REPUBLIC
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**Commission on Volcanic and Igneous Plumbing Systems**

<i>Leader:</i>	Catherine Annen	CZECH REPUBLIC
<i>Co-Leader:</i>	John Browning	CHILE

**MITIGATION OF VOLCANIC DISASTERS**

**Commission on Volcanic Hazards and Risk**

<i>Co-Leaders:</i>	Heather Wright Sebastian Biass Danielle Charlton Lis Gallant Sylvain Charbonnier Shinji Takarada	USA SINGAPORE NEW ZEALAND USA USA JAPAN
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**Commission on Statistics in Volcanology**

<i>Co-Leaders:</i>	Susanna Jenkins Stuart Mead	SINGAPORE NEW ZEALAND
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**Commission on Tephrochronology**

<i>Co-Leaders:</i>	Britta Jensen Paul Albert Richard Streeter Peter Abbott Takehiko Suzuki	CANADA UK UK SWITZERLAND JAPAN
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**Commission on Tephra Hazard Modelling**

<i>Co-Leaders:</i>	Paul Jarvis Alastair Hodgetts Thomas Aubry	NEW ZEALAND UK UK
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**Commission on Cities and Volcanoes**

<i>Co-Leaders:</i>	Natalia Deligne Angela Doherty Beatriz Cosenza-Muralles Alana Weir	USA NEW ZEALAND GUATEMALA USA
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**The International Volcanic Health Hazard Network (IVHHN)**

<i>Leader:</i>	Claire Horwell	UK
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## IAVCEI NETWORKS

### Early-Career Researchers Network (ECR-Net)

#### *Co-Representatives:*

Alex Iezzi	USA
Omari Graham	TRINIDAD & TOBAGO
Sandy Drymoni	ITALY
Silvia Vallejo	ECUADOR
Jamie Farquharson	JAPAN
Jacqueline Grech Licari	NEW ZEALAND
Hannah Buckland	UK
Geoffrey Lerner	MEXICO
Nicole Guinn	USA
Tabegra Disando	BELGIUM
Thystere Bantidi Matondo	JAPAN

### International Network for VOLcanology Collaboration (INVOLC)

#### *Representatives:*

Victoria Miller	MONSERRAT
Omari Graham	TRINIDAD & TOBAGO
Claudia Inés Rivera	MEXICO
Blas Ureña	COSTA RICA
José Luis Palma	CHILE
Natalia Pardo	COLOMBIA
Supriyati Andreastuti	INDONESIA
Antonia Bornas	PHILIPPINES
Esline Garaebiti Bule	VANUATU
Adalbert Syavulisembo	D.R. CONGO
Muhindo	
Amdemichael Tadesse	BELGIUM
Karen Fontijn	BELGIUM

### World Organization of Volcano Observatories (WOVO)

#### *Chair:*

Nico Fournier NEW ZEALAND

#### *Executive Leadership Team:*

Jake Lowenstern	USA
Benoit Taisne	SINGAPORE
Christina Widiwijayanti	SINGAPORE
Sara Barsotti	ICELAND
Nobuo Geshi	JAPAN
Alvaro Amigo	CHILE
Alessandro Bonforte	ITALY

### PAST IAVCEI PRESIDENTS

1919-1922	Annibale Riccò (Italy)
1922-1927	Alfred Lacroix (France)
1927-1933	Alessandro Malladra (Italy)
1933-1936	Constantine A. Ktenas (Greece)
1936-1948	Auguste Michel-Lévy (France)
1948-1954	Berend G. Escher (Netherlands)
1954-1963	Alfred Rittmann (Switzerland/Italy)
1963-1967	Hisashi Kuno (Japan)
1967-1971	Gordon A. MacDonald (USA)
1971-1975	Georgii S. Gorshkov (USSR)
1975-1979	Robert W. Decker (USA)
1979-1983	Sergei A. Fedotov (USSR)
1983-1987	Ian G. Gass (UK)
1987-1991	Shigeo Aramaki (Japan)
1991-1995	Paolo Gasparini (Italy)
1995-1999	Grant Heiken (USA)
1999-2003	Steve J. Sparks (UK)
2003-2007	Oded Navon (Israel)
2007-2011	Setsuya Nakada (Japan)
2011-2015	Ray Cas (Australia)

### PAST IAVCEI SECRETARIES GENERAL

1919-1936	Alessandro Malladra (Italy)
1936-1960	Francesco Signore (Italy)
1960-1967	Francesco Penta (Italy)
1967-1975	Pierre Evrard (Belgium)
1975-1983	Peter E. Baker (UK)
1983-1991	Hans-Ulrich Schmincke (F.R. Germany)
1991-1999	R. Wally Johnson (Australia)
1999-2007	Steve R. McNutt (USA)
2007-2015	Joan Martí (Spain)
2015-2023	Roberto Sulpizio (Italy)

2015-2019    Donald B. Dingwell (Germany)  
2019-2023    Patrick Allard (France)

## Inter-Association Activities Activités Inter-Associations

### IACS/IAG Sub-Commission on Cryospheric Deformation:

<i>Chairs:</i>	Karen Simon (IAG)	
	Matthias Willen (IACS)	GERMANY
<i>Vice-Chair:</i>	Carsten Ludwigsen (IAG)	DENMARK

### IACS/IAPSO Joint Commission on Ice-Ocean Interactions:

<i>Co-Chairs:</i>	Isabel Nias (IACS)	UK
	Felicity McCormack (IAPSO)	AUSTRALIA
<i>IAPSO Liaison:</i>	Joellen Russell (IAPSO)	USA

### IACS/IAVCEI Volcano-Ice Interactions Commission (VIIC)

<https://viic.iavceivolcano.org>

<i>Co-Chairs:</i>	Linda Sobolewski (IAVCEI)	ICELAND
	Maximillian Van Wyk de Vries (IACS)	UK
<i>Vice-Chairs:</i>	Iestyn Barr (IAVCEI)	UK
	Tryggvi Unnsteinsson (IACS)	UK

### IAG/IASPEI Sub-Commission on Seismogeodesy:

<i>Co-Chairs:</i>	Jean-Mathieu Nocquet (IAG)	FRANCE
	Masayuki Kano (IASPEI)	JAPAN

### IAG/IAVCEI Commission on Volcano Geodesy:

<i>Chair:</i>	Susanna Ebmeier (IAG)	UK
<i>Vice-Chair:</i>	Matthew Head (IAVCEI)	USA

### IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes & Volcanoes (EMSEV)

[www.emsev-iugg.org/emsev](http://www.emsev-iugg.org/emsev)

<i>Chair:</i>	Toshiyasu Nagao	JAPAN
<i>Vice-Chair:</i>	Valerio Tramutoli	ITALY
<i>Secretary and IAGA Liaison:</i>	Jann-Yenq Liu	CHINA-TAIPEI
<i>IASPEI Liaison:</i>	Qinghua Huang (IASPEI)	CHINA
<i>IAVCEI Liaison:</i>	Takeshi Hashimoto (IAVCEI)	JAPAN

### IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<https://tsunamicommission.ipma.pt/home/>

<i>Chair:</i>	Yuichiro Tanioka (IASPEI)	JAPAN
<i>Vice-Chairs:</i>	Maria Ana Baptista (IAPSO)	PORTUGAL
	Diana Greenslade (IAPSO)	AUSTRALIA
	Alexander Rabinovich (IASPEI)	RUSSIA / CANADA
<i>Secretary:</i>	Mohammad Heidarzadeh (IASPEI)	IRAN / UK
<i>IAPSO Representative:</i>	Christa von Hillebrandt-Andrade	USA
<i>IASPEI Liaison:</i>	Kenji Satake	JAPAN

### IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)

<http://ihfc-iugg.org/>

<i>Chair:</i>	Raquel Negrete-Aranda	MEXICO
<i>Vice-Chair:</i>	Sven Fuchs	GERMANY
<i>Secretary:</i>	Robert Harris	USA
<i>Vice-Secretary:</i>	Graeme Beardsmore	AUSTRALIA
<i>Past Chair:</i>	Massimo Verdoya	ITALY

### IASPEI/IAVCEI/IAPSO Commission on Physics & Chemistry of Earth Materials

<i>Chair:</i>	Jiuhua Chen	USA
<i>IASPEI liaison:</i>	Sergio Speziale	GERMANY
<i>IAVCEI liaison:</i>	Tomoo Katsura	GERMANY

**IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics**

[http://volc\\_seis\\_commission.leeds.ac.uk](http://volc_seis_commission.leeds.ac.uk)

<i>Chair and IASPEI Representative:</i>	Jürgen Neuberg (IASPEI)	UK
<i>Co-Chairs:</i>	Jeffrey B. Johnson (IAVCEI)	USA
	Roberto Carniel	ITALY

## NATIONAL COMMITTEES, ADHERING ORGANIZATIONS, NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

### ANNUAIRE 2025 YEARBOOK

The composition of the National Committees and, in consequence, the names of the officially accredited national representatives to the Union and its eight Associations are in conformity with what was communicated to the IUGG Secretariat in 2024.

La composition des Comités Nationaux et par voie de conséquence les noms des représentants nationaux officiellement accrédités auprès de l'Union et de ses huit Associations sont conformes à ce qui a été communiqué au Secrétariat de l'UGGI en 2024.

### ALBANIA - ALBANIE

#### ADHERING ORGANIZATION

The Institute of Geosciences  
Polytechnic University of Tirana  
Rr. Don Bosko, Nr. 60  
1024, Tirana  
**Contact:** E. DUSHI

#### NATIONAL COMMITTEE

**Chair:** Y. MUCEKU

**Secretary:** E. DUSHI

#### National Correspondents of the Associations

IACS:		IAG: B. NURÇE	IAGA: K. PEQINI
		K. MATRAKU	
IAHS:	L. LATA	IAMAS: E. KUCAJ	IAPSO:
	A. DOKO	G. ÇELA	
IASPEI:	Y. MUCEKU	IAVCEI: B. MUCEKU	
	E. DUSHI	E. KIRI	
	D. KOXHAJ		
	K. QOSHI		

### ALGERIA - ALGERIE

#### ADHERING ORGANIZATION

Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG)  
Route de l'Observatoire B.P. 63  
Bouzareah, Algiers  
**Contact:** A.K. YELLES-CHAOUCHÉ

#### NATIONAL COMMITTEE

**President:** A. YELLES-CHAOUCHÉ

**Secretary:** A. ABTOUT

**Vice-President:** H. ABDELLAOUI

#### National Correspondents of the Associations

IACS:	IAG: H. ABDELLAOUI	IAGA: A. ABTOUT
IAHS:	IAMAS: A. AMBAR	IAPSO: M. BOULAHID
IASPEI: A.K. YELLES-CHAOUCHÉ	IAVCEI: N. ABELLAH	

## ARGENTINA - ARGENTINE

### ADHERING ORGANIZATION

Instituto Geográfico Nacional  
 Comité Nacional de la Unión Geodésica y Geofísica Internacional  
 Cabildo 381  
 Ciudad Autónoma de Buenos Aires  
**Web:** [www.ign.gob.ar](http://www.ign.gob.ar)

### NATIONAL COMMITTEE

<b>President:</b> J.H. MACHUCA	<b>Secretary:</b> M. L. CONTIN
<b>Executive Vice-President:</b> C. RISSO	<b>Second Vice-President:</b> M.E. DOYLE

#### National Correspondents of the Associations

<b>IACS:</b> S. PASTORE	<b>IAG:</b> C. N. TOCHO	<b>IAGA:</b> C.B. PREZZI
<b>IAHS:</b> V. POCHAT	<b>IAMAS:</b> M.E. DOYLE	<b>IAPSO:</b> L. A. RUIZ ETCHEVERRY
<b>IASPEI:</b> G.A. BADI	<b>IAVCEI:</b> C. RISSO	

## ARMENIA - ARMENIE

### ADHERING ORGANIZATION

Territorial Survey for Seismic Protection, MES RA  
 Davidashen 4 massiv  
 P.O. 0054  
 Yerevan  
**Web:** [www.mes.am](http://www.mes.am)

### NATIONAL COMMITTEE

<b>President:</b> H. PETROSYAN	<b>Secretary:</b> S. NAZARETYAN
--------------------------------	---------------------------------

#### National Correspondents of the Associations

<b>IACS:</b> V. BOYNAGRYAN	<b>IAG:</b> G. AVETYAN	<b>IAGA:</b> S. HOVHANISSIAN
<b>IAHS:</b> V. BOYNAGRYAN	<b>IAMAS:</b> L. VARDANYAN	<b>IAPSO:</b>
<b>IASPEI:</b> A. ARAKELYAN	<b>IAVCEI:</b> S. NAZARETYAN	

## AUSTRALIA - AUSTRALIE

### ADHERING ORGANIZATION

Australian Academy of Science  
 Ian Potter House – Gordon Street  
 GPO Box 783  
 Canberra, ACT, 2601

<b>Contact:</b> R. SHAMSHUDIN	<b>Web:</b> <a href="http://www.science.org.au">www.science.org.au</a>
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### NATIONAL COMMITTEE

**Chair:** I. JACKSON

#### National Correspondents of the Associations

<b>IACS:</b> B. GALTON-FENZI	<b>IAG:</b> X. DENG	<b>IAGA:</b> B. CARTER
<b>IAHS:</b> B. CROKE	<b>IAMAS:</b> L. ALEXANDER	<b>IAPSO:</b> T. McDougall
<b>IASPEI:</b> H. TKALČIĆ	<b>IAVCEI:</b> T. UBIDE	

## AUSTRIA - AUTRICHE

### ADHERING ORGANIZATION

Österreichische Geodätische Kommission  
 Austrian Geodetic Commission  
 Bundesministerium für Arbeit und Wirtschaft  
 Abteilung VI/4  
 Stubenring 1  
 1010 Vienna

### NATIONAL COMMITTEE

**President:** W. LENHARDT

**Secretary:** F. BLAUENSTEINER

#### National Correspondents of the Associations

IACS: L. NICHOLSON	IAG: J. BÖHM	IAGA: B. LEICHTER
IAHS: G. BLÖSCHL	IAMAS: M. ROTACH	IAPSO: G.J. HERNDL
IASPEI: H. HAUSMANN	IAVCEI: I. FRITZ	

## AZERBAIJAN - AZERBAIDJAN

### ADHERING ORGANIZATION

Azerbaijan National Academy of Sciences (ANAS)  
 Istiglaliyyat Str., 30  
 Baku  
**Contact:** G. BABAYEV

### NATIONAL COMMITTEE

**President:** I. GULIYEV

**Secretary General:** G. BABAYEV

#### National Correspondents of the Associations

IACS:	IAG: F. KADIROV	IAGA: E. GULIYEV
IAHS: Y. ISRAFILOV	IAMAS:	IAPSO:
IASPEI: G. YETIRMISHLI	IAVCEI:	

## BELGIUM - BELGIQUE

### ADHERING ORGANIZATION

The Royal Academies of Science and the Arts of Belgium (RASAB)  
 Palais des Académies-Paleis der Academiën  
 Hertogsstraat 1 Rue Ducale  
 1000 Brussels

**Contact:** L. HANSEN

**Web:** <http://bncgg.oma.be>

### NATIONAL COMMITTEE

**President:** P. HUYBRECHTS

**Secretary:** A.C. VANDAELE

**Vice-President:** M. CRUCIFIX

**Adjunct Secretary:** K. VANNESTE

#### National Correspondents of the Associations

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Union of Associations of Geodetic Professionals in Bosnia and Herzegovina  
Stjepana Tomica 1 / III  
71000 Sarajevo

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Diretoria de Geociências  
Instituto Brasileiro de Geografia e Estatística  
Av. República do Chile 500, 15º andar  
20031-170, Rio de Janeiro, RJ  
**Web:** [www.ibge.gov.br](http://www.ibge.gov.br)

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IAG: G. GUIMARÃES

IAGA: S.L. FONTES

IAHS: C.A.G. SANTOS

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 Bulgarian Academy of Sciences  
 Acad. G. Bonchev str., block 3  
 1113 Sofia

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## CANADA

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National Research Council of Canada  
 International Affiliations Program  
 International Relations Office, Bldg. M50  
 1200 Montreal Road  
 Ottawa, ON K1A 0R6

**Contacts:** T. ROMANO, D. SOCHINSKAIA

**Web:** [http://cgu-ugc.ca/cnc\\_iugg/](http://cgu-ugc.ca/cnc_iugg/)

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Instituto Geográfico Militar  
 Avenida Santa Isabel 1651  
 Santiago

**Contacts:** S. E. HUNT Wallis

**Web:** [www.igm.cl](http://www.igm.cl)

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### ADHERING ORGANIZATION

China Association for Science and Technology (CAST)  
 Institute of Geophysics, China Earthquake Administration (IGP-CEA)  
 No.5 South Road of Minzu University  
 Beijing, 100081  
**Contact:** Z. F. DING

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### ADHERING ORGANIZATION

Academia Sinica  
 128, Academy Road, Sec. 2  
 Taipei

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<b>IASPEI:</b> C. P. CHANG	<b>IAVCEI:</b> S. R. SONG	

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Instituto Geográfico Agustín Codazzi  
 Oficina Asesora de Planeación - Cooperación Internacional  
 Carrera 30 No. 48-51  
 Bogotá, D.C.

**Contact:** X. SIERRA MÉNDEZ

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B.P. 10336  
Kinshasa I

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## COSTA RICA

### ADHERING ORGANIZATION

Academia Nacional de Ciencias  
Apartado postal: 1367-2050  
San Pedro

<b>Contact:</b> M. PROTTO	<b>Web:</b> <a href="http://www.anc.cr">www.anc.cr</a>
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Croatian Academy of Sciences and Arts  
Trg Nikole Subica Zrinskog 11  
10000 Zagreb

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### ADHERING ORGANIZATION

Institute of Geophysics  
 Czech Academy of Sciences  
 Bocni II/1401  
 141 31 Prague 4

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### ADHERING ORGANIZATION

Det Kongelige Danske Videnskabernes Selskab  
 H.C. Andersens Boulevard 35  
 1553 Kobenhavn V

**Contact:** V.K. NISSEN  
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Academy of Scientific Research and Technology  
 101 Kasr El-Eini Street  
 Cairo

**Contacts:** M. SAKAR  
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Estonian Academy of Sciences  
Kohtu 6  
10130 Tallinn

**Contact:** P. POST

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The Council of Finnish Academies  
Pohjoinen makasiinikatu 7 A  
00130 Helsinki

**Contact:** A. MIETTINEN

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Comité national français de géodésie et géophysique (CNFGG)  
Académie des Sciences  
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**Web:** <http://cnfgg.fr>

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Georgian Geophysical Association  
1, Alexidze str.  
0160 Tbilisi

**Contact:** T. CHELIDZE

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Federal Institute for Geosciences and Natural Resources (BGR)  
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**Contact:** C. BÖNNEMANN

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Water Research Institute  
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28 Panepistimiou Avenue  
106 79 Athens

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Hungarian Academy of Sciences  
PO Box 6, Nádor u. 7  
1361 Budapest

**Web:** [www.iugg.epss.hu](http://www.iugg.epss.hu)

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Rannsóknamistöð Islands/RANNÍS (The Icelandic Centre for Research)  
Borgartún  
30105 Reykjavik

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Indian National Science Academy  
Bahadur Shah Zafar Marg  
New Delhi 110 002

**Contact:** B. CHATTOPADHYAY

**Web:** <http://insaindia.res.in/>

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Geospatial Information Agency (BIG)  
Jl. Raya Jakarta-Bogor km. 46  
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Institute of Geophysics  
University of Tehran  
P.O. Box 14155-6466  
Tehran

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Royal Irish Academy  
19 Dawson Street  
Dublin 2

**Contact:** F. PARFREY

**Web:** [www.ria.ie](http://www.ria.ie)

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The Israel Academy of Sciences and Humanities  
Albert Einstein Square, 43 Jabotinsky Street  
P.O. Box 4040  
Jerusalem 91040

**Contact:** N. PERETZ  
G. FINZI

**Web:** [www.academy.ac.il](http://www.academy.ac.il)

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Consiglio Nazionale delle Ricerche – CNR  
Unità Relazioni Internazionali  
Piazzale Aldo Moro 7  
00185 Roma

**Contact:** C. LALLE

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C. PASQUERO

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Science Council of Japan  
7-22-34 Roppongi, Minato-ku  
Tokyo, 106-8555

**Contact:** T. SASAGAWA  
S. SHIMOTSUMA  
N. NISHITANI

**Web:** [www.scj.go.jp/en/](http://www.scj.go.jp/en/)

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## JORDAN - JORDANIE

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Royal Jordanian Geographic Centre  
92, Ahmad Tarawneh Str.  
P.O. Box: 414  
Al Jubayha 11941

**Contact:** O. ELASMER

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<b>IACS:</b>	<b>IAG:</b>	<b>IAGA:</b>
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<b>IASPEI:</b>	<b>IAVCEI:</b>	

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Korea Meteorological Administration  
61 16-gil, Yeouidaebang-ro, Dongjak-gu  
Seoul, 07062

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**Audit:** S.-D. HUR

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Latvian Academy of Sciences  
Akadēmijas laukums I  
Riga, LV-1050  
iugg.lv[at]lza.lv

**Contact:** J. KAMINSKIS

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7256 Walferdange

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 Circuito Investigación Científica  
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 04510, Ciudad de México

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 B.P. 703  
 Agdal-Rabat

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 Instituto Nacional de Minas (INAMI)  
 C.P. 217  
 Maputo

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Netherlands Center for Geodesy and Geoinformatics (NCG)  
 Stichting NCG  
 Hofstraat 110  
 7311 KZ Apeldoorn

**Web:** [www.ncgeo.nl](http://www.ncgeo.nl)

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The Royal Society Te Apārangi  
 11 Turnbull Street  
 Thorndon  
 P.O. Box 598  
 Wellington, 6140

**Contact:** M. WICKENS

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 400 m al norte  
 Managua

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### ADHERING ORGANIZATION

Ss. Cyril and Methodius University in Skopje  
Bldv. Krste Misirkov bb  
1000 Skopje

**Web:** [www.ukim.edu.mk](http://www.ukim.edu.mk)

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## NORWAY - NORVEGE

### ADHERING ORGANIZATION

Norsk Geofysisk Forening (Norwegian Geophysical Society)  
Allegaten 70 5007 Bergen

<b>Contact:</b> T. SPENGLER	<b>Email:</b> post[at]geofysikk.org <b>Web:</b> <a href="http://www.geofysikk.org">https://www.geofysikk.org</a>
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Survey of Pakistan  
Surveyor General's Office  
Murree Road  
Rawalpindi

**Contact:** G. SARWAR

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Facultad de Ciencias Exactas y Naturales  
Universidad Nacional de Asunción  
Ruta Mcal Estigarribia, Km 11  
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**Contact:** C. VELAZQUEZ OLIVETTI

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Instituto Geofisico del Peru  
Calle Calatrava 216  
Urb. Camino Real, La Molina  
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Polish Academy of Sciences  
Palace of Culture & Science  
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Ministério da Ciéncia, Tecnologia e Ensino Superior  
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1249-074 Lisboa

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RNCGG Secretariat  
23-25 Dimitrie Onciu Str.  
024053 Bucharest

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Russian Academy of Sciences  
3 Molodezhnaya st.  
119296 Moscow

**Web:** <http://ngc.gcras.ru/>

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King Abdulaziz City for Science and Technology (KACST)  
P.O. Box 6068  
Riyadh 11442

**Contact:** M. AL-BADRANI

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Geographical Institute "Jovan Cvijić"  
Serbian Academy of Sciences and Arts  
Đure Jakšića 9  
11000 Belgrade

**Contact:** M. RADOVANOVIC

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Slovak Academy of Sciences  
Earth Science Institute  
Dubravská cesta 9  
P.O. Box 106  
840 05 Bratislava

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 28003 Madrid

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Ministry of National Defense  
 General Directorate of Mapping  
 06590 Cebeci, Ankara

**Web:** [www.harita.gov.tr](http://www.harita.gov.tr)

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The Royal Society  
 6-9 Carlton House Terrace  
 London SW1Y 5AG

**Contact:** R. COOPER

**Web:** [www.royalsociety.org](http://www.royalsociety.org)

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 Washington D.C., 20001

**Web:** <https://www.nationalacademies.org/our-work/us-national-committee-for-geodesy-and-geophysics-usnc-iugg>

**Contact:** S. NORDT  
 O. KOSTI

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Instituto Geográfico Militar  
 Comité Nacional de la Unión Geodésica y Geofísica Internacional  
 Av. 8 de octubre 3255  
 Montevideo

**Web:** [www.sgm.gub.uy](http://www.sgm.gub.uy)

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Institute of Geophysics  
 Vietnam Academy of Science and Technology (VAST)  
 Nha A8-18, Hoang Quoc Viet, Cau Giay  
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<b>IASPEI:</b> N.A. DUONG	<b>IAVCEI:</b> T.T. ANH	

## ADDRESSES

<b>ABASS</b> Dr. Gibrilla <i>IASPEI National Correspondent</i>	IUGG-Ghana National Nuclear Research Institute Ghana Atomic Energy Commission P.O. Box LG80 Legon Accra GHANA	T: 233 20 8209303 a.gibrilla[at]gaecgh.org
<b>ABBAS</b> Prof. Dr. Abbas Mohamed <i>IAHS National Correspondent</i>	National Research Institute of Astronomy and Geophysics Helwan, Cairo EGYPT	T: 20 111 330 9595 F: 20 2 2554 8020 dr.abbas.ali[at]gmail.com abbas[at]nriag.sci.eg
<b>ABBOTT</b> Dr. Peter <i>Co-Leader, IAVCEI Commission on Tephrochronology</i>	Universität Bern Hochschulstrasse 6 3012 Bern SWITZERLAND	T: 41 31 684 8652 peter.abbott[at]unibe.ch
<b>ABDEL AAL</b> Prof. Dr. Mohamed Hamed <i>Secretary, National Committee</i>	Ain Shams University Roxy, Cairo EGYPT	T: 20 100 290 9532 F: 20 2 2454 2099 mabdelaal81[at]yahoo.com mohamedabdelaal[at]edu.asu.edu.eg
<b>ABDELDAYEM</b> Prof. Dr. Abdelaziz <i>IACS National Correspondent</i>	Geology Department Faculty of Science Tanta University Tanta EGYPT	T: 20 40 3350804 F: 20 40 3350804 aldayem[at]yahoo.com
<b>ABDELLAH</b> Prof. Nachida <i>IAVCEI National Correspondent</i>	Former Dean Faculty des sciences de la Terre et de l'Aménagement du Territoire (FSTGAT) Université Houari Boumedienne (USTHB) B.P. 32 El Alia 16111 Bab Ezzouar, Algiers ALGERIA	T: 213 21 24 76 47 a.nachida[at]yahoo.fr
<b>ABDELLAOUI</b> Dr. Hassen <i>Vice-President, National Committee</i> <i>IAG National Correspondent</i>	Director National Institute of Mapping and Remote Sensing (INCT) ALGERIA	T: 213 21 49 17 03 F: 213 21 49 16 91 contact[at]inct.dz
<b>ABD-ELMOTAAL</b> Prof. Dr. Hussein Abou-Elsoaad <i>IAG National Correspondent</i>	Minia University Faculty of Engineering Civil Engineering Department Minia, 61111 EGYPT	T: 20 122 55 38880 hussein.abdelmotaal[at]gmail.com
<b>ABDELZAHER</b> Dr. Mohamed <i>IAVCEI National Correspondent</i>	National Research Institute of Astronomy and Geophysics Helwan, Cairo EGYPT	T: 20 1159299090 F: 20 2 2554 8020 moh_zaher[at]yahoo.com
<b>ABIDIN</b> Prof. Dr. Hasanuddin Zainal <i>IAG National Correspondent</i>	Institute of Technology of Bandung (ITB) Faculty of Earth Science and Technology Department of Geodesy and Geomatics Engineering Jl. Ganesa 10 Bandung, 40132 INDONESIA	T: 62 22 253 0701 F: 62 22 253 0702 hzabidin[at]itb.ac.id
<b>ABTOU</b> Prof. Abdesslam <i>Secretary, National Committee</i> <i>IAGA National Correspondent</i>	Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG) Route de l'Observatoire B.P. 63 Bouzareah, Algiers ALGERIA	T: 213 23 18 90 98/99 a.abtout[at]craag.dz abtout[at]yahoo.fr
<b>ACKERLEY</b> Dr. Nicholas <i>Secretary General, International Federation of Digital Seismograph Networks (FDSN)</i>	NRCAN-RNCAN 930 Carling Avenue Ottawa, K1A 0Y3 CANADA	T: 1 343 551 3972 nicholas.ackerley[at]NRCan-RNCan.gc.ca
<b>ACKERMAN</b> Emeritus Prof. Steven <i>Past Secretary General, IAMAS (2019-2023)</i>	University of Wisconsin-Madison 1225 West Dayton Street Madison, WI, 53706 USA	stevea[at]ssec.wisc.edu
<b>ADALGEIRSDÓTTIR</b> Dr. Guðfinna <i>IACS National Correspondent</i>	University of Iceland Askja, room N-329 Sturlugata 7 101 Reykjavik ICELAND	T: 354 525 4489 F: 354 525 4632 gua[at]hi.is

<b>ADAMIA</b> Prof. Shota <i>IAVCEI National Correspondent</i>	Chief Researcher Javakhishvili Tbilisi State University Institute of Geophysics Chavchadze av. 1 0128 Tbilisi GEORGIA	T: 995 32 299 8574 sh_adamia[at]hotmail.com
<b>ADIYAMAN LOPES</b> Dr. Özlem <i>Advisory Board, SCL/ILP</i>	UNESCO Earth Sciences and Geo-hazards Risk Reduction Section 7, Place de Fontenoy 75352 Paris 07 SP FRANCE	T: 33 145 68 14 33 o.adiyaman[at]unesco.org
<b>AGHAKOUCHAK</b> Dr. Amir <i>President, IAHS ICRS</i>	Center for Hydrometeorology & Remote Sensing (CHRS) Department of Civil & Environmental Engineering Department of Earth System Science University of California Irvine, CA USA	T: 1 949 824 9350 amir.a[at]uci.edu
<b>AGSORN</b> Mr. Songkran <i>IAMAS National Correspondent</i>	Deputy Director-General for Technical Services Thai Meteorological Department Ministry of Information and Communication Technology 4353 Sukhumvit Road, Bangna Bangkok THAILAND	T: 66 2 399 2355 F: 66 2 398 9222 agsorn[at]yahoo.com
<b>AGUILERA BARAZZA</b> Dr. Felipe <i>Secretary, IAVCEI Commission on Volcanic Lakes</i>	Instituto Milenio CKELAR VOLCANES Facultad de Ingeniería y Ciencias Geológicas Universidad Católica del Norte Casa Central. Anganos 1610, Antofagasta CHILE	T: +56 9 4220 1580 feaguilera[at]ucn.cl
<b>AHADI</b> Dr. Suaidi <i>IAGA National Correspondent</i>	Meteorological, Climatological and Geophysical Agency (BMKG) Center of Engineering Seismology, Potential Geophysics and Time Code Jl. Angkasa I No. 2, Kemayoran Jakarta, 10620 INDONESIA	T: 62 21 426 0266 F: 62 21 426 0266 suaidi.ahadi[at]gmail.com
<b>AHLSTRÖM</b> Dr. Andreas Peter <i>IACS National Correspondent</i>	Senior Scientist GEUS - Geological Survey of Denmark and Greenland Øster Voldgade 10 1350 Copenhagen K DENMARK	T: 45 3814 2000 apa[at]geus.dk
<b>AHMADI-GIVI</b> Prof. Dr. Farhang <i>IAMAS National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 ahmadig[at]ut.ac.ir
<b>AHMED</b> Mr. Rauf <i>IAG National Correspondent</i>	Deputy Director Survey of Pakistan Murree Road Rawalpindi PAKISTAN	T: 92 51 929 0213 F: 92 51 929 0229 svyofpak[at]yahoo.com dtr[at]surveyofpakistan.gov.pk
<b>AHN</b> Prof. Jinho <i>IACS National Correspondent</i>	Seoul National University School of Earth and Environmental Sciences 1 Gwanak-ro, Gwanak-gu Seoul, 08826 KOREA, Rep. of	T: 82 2 880 6726 F: 82 2 871 3269 jinhoahn[at]snu.ac.kr
<b>AIUPPA</b> Prof. Alessandro <i>Member, IAVCEI Executive Committee</i>	Università di Palermo Dipartimento di Scienze della Terra e del Mare Piazza Marina, 61 90133 Palermo ITALY	T: 39 0 9123861624 alessandro.aiuppa[at]unipa.it
<b>AKOSHILE</b> Prof. C.O. <i>IAMAS National Correspondent</i>	University of Ilorin Department of Physics Ilorin, Kwara State NIGERIA	T: 234 805 590 2692 bsrnclm[at]yahoo.co.uk
<b>AKPINAR</b> Capt.Eng. İlyas <i>Secretary, National Committee</i>	General Directorate of Mapping Geodesy Department 06590 Cebeci/Cankaya, Ankara TÜRKİYE	T: 90 312 595 2251 F: 90 312 320 1495 ilyas.akpinar[at]harita.gov.tr

<b>ALABI</b> Prof. A.O. <i>IASPEI National Correspondent</i>	Ladoke Akintola University Department of Physics Ogbomoso <b>NIGERIA</b>	T: 234 803 329 8249 aoalabi[at]yahoo.co.uk
<b>AL-BADRANI</b> Mr. Mohammed <i>Contact Person, Adhering Organization</i>	Director Directorate of International Cooperation King Abdulaziz City for Science and Technology (KACST) P.O. Box 6068 Riyadh, 11442 <b>SAUDI ARABIA</b>	T: 966 1 481 3384 F: 966 1 481 3441 mbadrani[at]kacst.edu.sa int_coop[at]kacst.edu.sa
<b>AL-BASSAM</b> Prof. Abdulaziz <i>IAHS National Correspondent</i>	King Saud University (KSU) P.O. Box 2455 Riyadh, 11451 <b>SAUDI ARABIA</b>	T: 966 1 467 0388 F: 966 1 467 0389 ambassam[at]ksu.edu.sa
<b>ALBERT</b> Dr. Paul <i>Co-Leader, IAVCEI Commission on Tephrochronology</i>	Swansea University Singleton Park Swansea, Wales, SA2 8PP <b>UK</b>	T: 44 1792 205678 9792 p.g.albert[at]swansea.ac.uk
<b>ALBINI</b> Dr. Paola <i>Co-Chair, IASPEI Working Group on Historical Seismicity</i>	Istituto Nazionale di Geofisica e Vulcanologia Sezione di Milano Via E. Bassini 15 20133 Milan <b>ITALY</b>	T: 39 02 2369 9264 albini[at]ingv.it
<b>ALDAMEGH</b> Dr. Khaled <i>Secretary General, National Committee</i> <i>IASPEI National Correspondent</i>	King Abdulaziz City for Science and Technology (KACST) Oil & Gas Research Institute Mail Box # 6086 Riyadh, 11442 <b>SAUDI ARABIA</b>	T: 966 1 481 4524 F: 966 1 481 3526 kdamegh[at]kacst.edu.sa kdamegh[at]gmail.com
<b>ALEXANDER</b> Prof. Lisa <i>IUGG Liaison, World Climate Research Programme (WCRP)</i> <i>IAMAS National Correspondent</i>	Climate Change Research Centre (CCRC) ARC Centre of Excellence for Climate Extremes University of New South Wales Sydney, NSW 2052 <b>AUSTRALIA</b>	T: 61 2 9385 8954 F: 61 2 9385 8969 l.alexander[at]unsw.edu.au
<b>AL-HADDAD</b> Dr. Nada <i>Chair, IAGA Interdivisional Commission on History</i>	Space Science Center University of New Hampshire <b>USA</b>	nada.alhaddad[at]unh.edu
<b>ALKHALIFAH</b> Prof. Tariq <i>President, National Committee</i>	4700 King Abdullah University of Science and Technology (KAUST) Physical Sciences and Engineering Division Mail Box # 1280 Thuwal, 23955-6900 <b>SAUDI ARABIA</b>	T: 966 2 8080 282 tariq.alkhalifah[at]kaust.edu.sa
<b>ALKOTAB</b> Dr. Abdul Nasser <i>IAPSO National Correspondent</i>	Saud Geological Survey (SGS) P.O. Box 54141 Jeddah, 21514 <b>SAUDI ARABIA</b>	T: 966 2 619 500 ext. 4024 F: 966 2 619 6000 qutub.as[at]sgs.org.sa
<b>ALLARD</b> Dr. Patrick <i>IUGG Liaison, UNESCO Section on Earth Sciences</i> <i>Past President, IAVCEI (2019-2023)</i>	Université de Paris Institut de Physique du Globe de Paris Systèmes Volcaniques 1 rue Jussieu 75005 Paris Cedex 5 <b>FRANCE</b>	T: 33 1 8395 7630 F: 33 1 8395 7713 pallard[at]ipgp.fr
<b>ALP</b> Major General Osman <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	General Director of Mapping Harita Genel Müdürlüğü Tip Fakültesi Caddesi 06590 Cebeci/Çankaya Ankara <b>TÜRKİYE</b>	T: 90 312 595 2001 F: 90 312 320 1495 osman.alp[at]harita.gov.tr
<b>ALTAMIMI</b> Dr. Zuheir <i>Member, IUGG Statutes and By-Laws Committee</i> <i>Past President, IAG (2019-2023)</i>	Institut National de l'Information Géographique et Forestière (IGN) Bâtiment Larmarck A 75013 Paris <b>FRANCE</b>	zuheir.altamimi[at]ign.fr
<b>ALVERSON</b> Dr. Keith <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>Vice-Chair, Union Commission on Climatic and Environmental Change (CCEC)</i> <i>Secretary General, IAMAS</i>	University of Massachusetts 80 Campus Center Way Amherst, MA, 01003 <b>CANADA</b>	T: 1 6036781314 kalverson[at]umass.edu keith.alverson[at]gmail.com

<b>AMBAR</b> Mr. Abdenour <i>IAMAS National Correspondent</i>	Office National de la Météorologie 1 Avenue Mohamed Khemisit B.P. 153 Dar El Beida 16011 Algiers ALGERIA	T: 213 21 50 89 53 F: 213 21 50 89 53 a.ambar[at]meteo.dz ambar.abdenour[at]gmail.com
<b>AMBRIZZI</b> Prof. Tercio <i>IAVCEI National Correspondent</i>	Universidade de São Paulo Departamento de Ciencias Atmosfericas Instituto de Astronomia Geofisica e Ciencias Atmosfericas - IAG Rua do Matao, 1226 Butantã Sao Paulo, SP, 05508-090 BRAZIL	T: 55 11 3091 4731 F: 55 11 3091 2801 tercio.ambrizzi[at]iag.usp.br
<b>AMIGO Ramos</b> Dr. Alvaro Mauricio <i>Member, IAVCEI Executive Committee</i> <i>IAVCEI National Correspondent</i>	Subdirección Nacional de Geología Servicio Nacional de Geología y Minería - SERNAGEOMIN Red Nacional de Vigilancia Volcánica Santa María #0104, Providencia Santiago CHILE	T: 56 2 24825500 alvaro.amigo[at]sernageomin.cl comunicaciones[at]sernageomin.cl
<b>AMOS</b> Dr. Matt <i>Chair, National Committee</i> <i>IAG National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Land Information New Zealand PO Box 5501 Wellington, 6145 NEW ZEALAND	T: 64 4 460 0559 mamos[at]linz.govt.nz
<b>AMOUSSOU</b> Dr. Ernest <i>Vice-President, IAHS ICSW</i>	Pierre Pagney Laboratory: Climate, Water, Ecosystem and Development (LACEEDE) University of Abomey-Calavi 03 BP 1122 Cotonou BENIN	ernestamoussou[at]gmail.com
<b>AMPONSAH</b> Dr. Paulina <i>President, IASPEI African Seismological Commission (AfSC)</i>	Ghana Atomic Energy Commission Accra GHANA	T: 233 2081 86666 pekua2[at]yahoo.com
<b>ANAGNOSTOU</b> Mr. Emmanouil <i>Vice-President, IAHS ICWRS</i>	University of Connecticut 159 Discovery Drive Unit 5279 Storrs, CT, 06269-5279 USA	T: 1 860 486 6917 manos[at]uconn.edu
<b>ANDERSEN</b> Dr. Niels <i>Treasurer, IUGG</i> <i>IAG National Correspondent</i>	National Space Institute, DTU Space Centrifugevej, Building 356, room 002 2800 Kongens Lyngby DENMARK	T: 45 4525 9783 F: 45 4525 9575 na[at]space.dtu.dk
<b>ANDREASSEN</b> Dr. Liss Marie <i>IUGG Liaison, World Meteorological Organization (WMO), IUGG Liaison, UNESCO International Hydrological Programme (IHP)</i> <i>President, IACS</i> <i>IACS National Correspondent</i>	Norwegian Water Resources and Energy Directorate (NVE) Section for Glaciers, Ice and Snow Hydrology Department P.O. Box 5091 Majorstua 0301 Oslo NORWAY	T: 47 22 95 91 66 lma[at]nve.no
<b>ANDREASTUTI</b> Dr. Supriyati Dwi <i>Co-Leader, IAVCEI International Network for VOLcanology Collaboration (INVOLC)</i>	Center for Volcanology and Geological Hazard Mitigation (CVGHM) Bandung INDONESIA	
<b>ANH</b> Dr. Nguyen Xuan <i>President, National Committee</i> <i>IAHS &amp; IAMAS National Correspondent</i>	VAST Institute of Geophysics Nha A8-18, Hoang Quoc Viet-Cau Giay Hanoi VIETNAM	T: 84 24 37564380 F: 84 24 38364696 Nxuananh05[at]gmail.com
<b>ANH</b> Dr. Tran Tuan <i>IAVCEI National Correspondent</i>	Institute of Geological Sciences VAST 84 Chua Lang, Dong Da Hanoi VIETNAM	T: 84 24 3775 4798 F: 84 24 3775 4797 Tuananh-tran[at]igsqn.ac.vn t_tuananh[at]yahoo.com
<b>ANNEN</b> Dr. Catherine <i>Leader, IAVCEI Commission on Volcanic and Igneous Plumbing Systems</i> <i>IAVCEI National Correspondent</i>	Institute of Geophysics of the Czech Academy of Science Boční II/1401 141 31 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 267 103 356 F: 420 267 761 549 annen[at]jig.cas.cz

<b>ANORNU</b> Prof. Geophrey Kwame <i>President, National Committee</i> <i>IAG National Correspondent</i>	IUGG-Ghana Kwame Nkrumah University of Science and Technology (KNUST) Department of Civil Engineering Kumasi GHANA	T: 233 24 488 2912 anoprof@hotmail.co.uk anoprof@yahoo.com ganornu.soe@knust.edu.gh
<b>ANSORGE</b> Prof. Isabelle <i>Chair, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	University of Cape Town Department of Oceanography Private Bag Rondebosch, 7701 SOUTH AFRICA	T: 27 21 650 3280 F: 27 21 650 3979 isabelle.ansorge@uct.ac.za
<b>ANTONESCU</b> Dr. Bogdan <i>IAMAS National Correspondent</i>	University of Bucharest Faculty of Physics P.O. Box MG-11, Magurele 077125 Bucharest ROMANIA	T: 40 727 580 117 F: 40 21 420 8625 antonescu.bogdan@gmail.com
<b>ARAKELYAN</b> Dr. Avetis <i>IASPEI National Correspondent</i>	Armenian Association of Seismology and Physics of the Earth (AASPE) 41 Orbeli Str. Yerevan, 0028 ARMENIA	T: 374 91 578 954 office@aaspe.am
<b>ARCE SALDAÑA</b> Dr. José Luis <i>IAVCEI National Correspondent</i>	Instituto de Geología, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 5622 4288 ext. 108 jlarce@geologia.unam.mx
<b>ARDESTANI</b> Prof. Dr. V. Ebrahimzadeh <i>IAG National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 ebrahimz@ut.ac.ir
<b>ARGNANI</b> Dr. Andrea <i>IASPEI Alternate National Correspondent</i>	CNR - Istituto di Scienze Marine Via Gobetti, 101 40129 Bologna ITALY	T: 39 051 639886 andrea.argnani@ismar.cnr.it
<b>ARHEIMER</b> Prof. Berit <i>President, IAHS</i> <i>IAHS National Correspondent</i>	Swedish Meteorological and Hydrological Institute (SMHI) SE- 601 76 Norrköping SWEDEN	T: 46 11 495 8260 F: 46 11 495 8001 Berit.Arheimer@smhi.se
<b>ARISOY</b> Dr. Eng. Muzaffer Özgü <i>IAGA National Correspondent</i>	General Directorate of Mineral Research and Exploration Geophysics Department No:139 06800 Cankaya, Ankara TÜRKIYE	T: 90 312 201 1411 F: 90 312 287 87 49 muzafferozgu.arisoy@mta.gov.tr
<b>ARNEITZ</b> Dr. Patrick <i>Co-Chair, IAGA Division I</i>	GeoSphere Austria Hohe Warte 38 1190 Vienna AUSTRIA	patrick.arneitz@geosphere.at
<b>ARORA</b> Dr. Kusumita <i>Vice-President, IAGA</i>	Geomagnetic Observatories CSIR-NGRI, Uppal Road Hyderabad, 500007 INDIA	T: 91 40 27012783 F: 91 40 27171564 karora@ngri.res.in karora_ngri@yahoo.co.uk
<b>ARRAJEHI</b> Dr. Abdullah <i>IAG National Correspondent</i>	King Abdulaziz City for Science and Technology (KACST) P.O. Box 6086 Riyadh, 11442 SAUDI ARABIA	T: 966 1 481 3535 F: 966 1 481 3526 arrajehi@kacst.edu.sa
<b>ARRAS</b> Dr. Christina <i>Co-Chair, IAGA Division II, Co-Chair IAGA Working Group II-C</i>	TU Berlin Institut für Geodäsie und Geoinformationstechnik Gebäude KAI Kaiserin-Augusta-Allee 104-106 10553 Berlin GERMANY	arras@gfz.de
<b>ARSHAD</b> Commodore Muhammad <i>IAHS National Correspondent</i>	Hydrographer of Pakistan Navy Hydrographic Department 11 Liaquat Barracks NHQ Karachi, 75400 PAKISTAN	T: 92 21 4850 6151 T: 92 21 4850 6152 F: 92 21 9920 1623 hydropk@paknavy.gov.pk hydrpk@gmail.com

<b>ÅRTHUN</b> Dr. Marius <i>IAPSO National Correspondent</i>	University of Bergen Geophysical Institute PO Box 7803 5020 Bergen NORWAY	T: 47 55 58 47 88 T: 47 97 67 77 55 marius.arthun[at]uib.no
<b>ASARI</b> Dr. Seiki <i>Chair, IAGA Working Group V-OBS</i>	Kakioka Magnetic Observatory Japan Meteorological Agency 595 Kakioka Ishioka, 315-0116 JAPAN	asari[at]kakioka-jma.go.jp
<b>ASCH</b> Dr. Kristine <i>Advisory Board, SCL/ILP</i>	BGR Federal Institute for Geosciences and Resources Stilleweg 2 30655 Hannover GERMANY	T: 49 511 643 3324 F: 49 511 643 53 3324 kristine.asch[at]bgr.de
<b>ASK</b> Assoc. Prof. Maria <i>IASPEI National Correspondent</i>	Uppsala University Department of Earth Sciences Villavägen 16 SE- 752 36 Uppsala SWEDEN	T: 46 18 471 3509 Maria.ask[at]geo.uu.se
<b>ASKAN GÜNDÖĞAN</b> Prof. Aysegül <i>Vice President, European Seismological Commission (ESC)</i>	Dept. of Civil Engineering, K1 Building Middle East Technical University iteler Mah. Dumlupınar Blv. No. 1 06800 Ankara TÜRKIYE	T: 90 312 210 2292 aaskan[at]metu.edu.tr
<b>ASPLET</b> Dr. Joseph <i>Secretary, National Committee</i>	Department of Earth Sciences South Parks Road Oxford, OX1 3AN UK	joseph.asplet[at]earth.ox.ac.uk
<b>ASSAVAPATCHARA</b> Mr. San <i>IAVCEI National Correspondent</i>	Geologist, Senior Professional Level Bureau of Geological Survey Department of Mineral Resources Ministry of National Resources and Environment 75/10 Rama 6 Road, Rajthaevee Bangkok, 10400 THAILAND	T: 66 2 621 9661 F: 66 2 621 9651 san[at]dmr.go.th
<b>ASSUMPCÃO</b> Dr. Marcelo Sousa de <i>IASPEI National Correspondent</i>	University of São Paulo Geophysics Department Rua do Matão, 1226 Cidade Universitaria São Paulo, SP, 05508-090 BRAZIL	T: 55 11 3091 4755 marcelo.assumpcao[at]iag.usp.br
<b>ATICI</b> Mr. Gökhan <i>IAVCEI National Correspondent</i>	General Directorate of Mineral Research and Exploration Geology Exp. Department 06800 Cankaya, Ankara TÜRKIYE	T: 90 312 201 2869 F: 90 312 285 4271 gokhan.atici[at]mta.gov.tr
<b>AUBERT</b> Dr. Julien <i>Co-Chair, IAGA Working Group FAIR-MOD</i>	Université Paris-Cité Institut de Physique du Globe de Paris 1 Rue Jussieu 75238 Paris cedex 05 FRANCE	aubert[at]ipgp.fr
<b>AUBRY</b> Dr. Thomas <i>Co-Leader, IAVCEI Commission on Tephra Hazard Modelling</i>	University of Exeter Department of Earth and Environmental Sciences Penryn, TR10 9FE UK	T: 44 1326255314 t.aubry[at]exeter.ac.uk
<b>AURNOU</b> Prof. Jonathan <i>Former Chair &amp; Executive Committee Member, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	University of California, Los Angeles Dept. of Earth, Planets & Space Sciences 595 Charles Young Drive East Los Angeles, CA, 90095-1567 USA	T: 1 310 825 2054 jona[at]epss.ucla.edu
<b>AVETYAN</b> Dr. Grigor <i>IAG National Correspondent</i>	Yerevan State University 1 Alex Manoogian Str. Yerevan, 0049 ARMENIA	T: 374 10 554 752 F: 374 10 554 641 rector[at]ysu.am
<b>AWOTWI</b> Dr. Alfred <i>IACS National Correspondent</i>	Hydrologist/ Water Resources Engineer IUGG-Ghana University for Developmental Studies Department of Environmental Science Box 24 Navrongo Campus Navrongo GHANA	T: 233 242268905 Awor73[at]yahoo.com

<b>AYALA</b> Dr. Rodolfo <i>Vice-President, National Committee</i> <i>IASPEI National Correspondent</i>	Director Observatorio San Calixto Calle Indaburo No. 944 La Paz BOLIVIA	rasayala[at]hotmail.com osc[at]observatoriosancalixto.org
<b>AYELE</b> Prof. Atalay <i>Advisory Board, SCL/ILP</i>	Addis Ababa University Institute of Geophysics, Space Science and Astronomy P.O.Box 1176 Addis Ababa ETHIOPIA	T: 251 911 401 332 F: 251 111 234 297 atalay[at]geobs.aau.edu.et atawon[at]yahoo.com
<b>AZAM</b> Dr. Mohd Farooq <i>Head, IACS Division II</i>	Indian Institute of Technology Indore Khandwa Road Simrol Indore INDIA	farooqazam[at]iiti.ac.in
<b>BABA</b> Prof. Kiyoshi <i>Co-Chair, IAGA Division VI</i>	Earthquake Research Institute The University of Tokio 1-1-1, Yayoi, Bunkyo-ku Tokyo, 113-0032 JAPAN	kbaba[at]eri.u-tokyo.ac.jp
<b>BABAYEV</b> ANAS Prof., Assoc. Prof., Dr. Gulam <i>Contact Person, Adhering Organization; Secretary General, National Committee</i>	Head, Dept. "Seismology & Seismic Hazard Assessment" Geology & Geophysics Institute Ministry of Science and Education Azerbaijan Republic Av. H. Javid 119 AZ 1143 Baku AZERBAIJAN	T: 994 12 5100143 (+254) F: 994 12 5372285 babayev74[at]gmail.com
<b>BACELA</b> Mr. Dylon Tinga Bacela <i>IAGA National Correspondent</i>	Instituto Nacional de Minas C.P. 217 Maputo MOZAMBIQUE	T: 258 21 312 082 T: 258 82 826 1790 F: 258 21 429 216 daylonbacela[at]gmail.com
<b>BADI</b> Dra. Gabriela Alejandra <i>IASPEI National Correspondent</i>	Universidad Nacional de La Plata Facultad de Ciencias Astronómicas y Geofísicas Departamento de Gravimetría Paseo del Bosque S/N, B1900FWA La Plata - Prov. de Buenos Aires ARGENTINA	T: 54 221 4236593 int. 1155 gbadi[at]fcaglp.unlp.edu.ar
<b>BADRO</b> Dr. James <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Institut de Physique du Globe de Paris 1 rue Jussieu 75005 Paris FRANCE	T: 33 1 8395 7799 badro[at]ipgp.fr
<b>BAJČETIĆ</b> Dr. Jovan <i>Member, National Committee</i>	Khaoticen Kronštatska 5 11000 Belgrade SERBIA	T: 381 11 4058 255 F: 381 11 4058 255 bajce05[at]gmail.com
<b>BALASIS</b> Dr. Georgios <i>Executive Committee Member &amp; IAGA Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing Vas. Pavlou & I. Metaxa 15236 Penteli GREECE	T: 30 210 810 9185 gbalasis[at]noa.gr
<b>BALL</b> Mr. David <i>IAHS National Correspondent</i>	Independent Hydrogeologist 28 New Bride Street Dublin 8 IRELAND	T: 353 1 405 3925 davidbal[at]indigo.ie
<b>BALLU</b> Ms. Valérie <i>President, IAG Inter-Commission Committee for Marine Research</i>	Directrice du LIENSS UMR 7266 CNRS - La Rochelle Univ. 2 rue Olympe de Gouges 17000 La Rochelle FRANCE	valerie.ballu[at]univ-lr.fr
<b>BANERJEE</b> Dr. Paramesh <i>Past President, IASPEI Asian Seismological Commission (ASC)</i>	Earth Observatory of Singapore Nanyang Technological University N2-01B-18, 50 Nanyang Avenue Singapore, 639798 SINGAPORE	T: 65 65927730 parameshb[at]hotmail.com
<b>BANERJEE</b> Dr. Tirtha <i>Vice-President, IAHS ICCLAS</i>	Department of Civil and Environmental Engineering Interdisciplinary Science and Engineering Building University of California Irvine, CA, 92697-2175 USA	T: 1 949 824 9230 tirthab[at]uci.edu

<b>BAPTISTA</b> Prof. Maria Ana <i>Vice-Chair IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	Instituto Dom Luiz Universidade de Lisboa 1749-016 Lisboa PORTUGAL	T: 35 1912517556 mavbaptista[at]gmail.com
<b>BARR</b> Dr. Iestyn <i>Vice-Chair, IACS/IAVCEI Volcano-Ice Interactions Commission</i>	Manchester Metropolitan University Manchester, M15 6BH UK	T: 44 161 2471202 i.barr[at]mmu.ac.uk
<b>BARREIRA</b> Dr. Sandra <i>Head, IACS Division IV</i>	Argentine Naval Hydrographic Service Department of Meteorology Comodoro Py 2055 - piso 15 1104 Ciudad Autónoma de Buenos Aires ARGENTINA	barreira[at]ara.mil.ar
<b>BARRIENTOS</b> Dr. Sergio <i>Member, IUGG Nominating Committee Member, IASPEI Executive Committee</i>	Centro Sismológico Nacional de la Universidad de Chile (CSN) Facultad de Ciencias Físicas y Matemáticas Universidad de Chile Beauchef 850 Santiago CHILE	T: 562 29784309 sbarrien[at]dgc.uchile.cl
<b>BARSOTTI</b> Dr. Sara <i>IUGG Liaison, World Meteorological Organization (WMO)</i>	Iceland Met Office Veðurstofa Íslands Bústaðavegi 7- 9 108 Reykjavík ICELAND	T: 354 522 6000 sara[at]vedur.is
<b>BARTA</b> Dr. Veronika <i>Co-Chair, IAGA Interdivisional Commission on History</i>	Institute of Earth Physics and Space Science Sopron HUNGARY	bartav[at]ggki.hu
<b>BARTH</b> Dr. Mary <i>President, IAMAS ICACGP</i>	NSF National Center for Atmospheric Research P.O. Box 3000 Boulder, CO, 80307 USA	barthm[at]ucar.edu
<b>BARTHOLY</b> Prof. emeritus Dr. Judit <i>IACS National Correspondent</i>	Eötvös Loránd University (ELTE) Faculty of Science Department of Meteorology P.O. Box 32 1518 Budapest HUNGARY	T: 36 20 398 9667 bartholy.judit[at]ttk.elte.hu
<b>BARTON</b> Dr. Charles <i>Chair, IUGG Statutes and By-Laws Committee</i>	The Australian National University Research School of Earth Sciences Canberra, ACT, 0200 AUSTRALIA	T: 61 2 6273 7477 T: 61 2 6227 9662 F: 61 2 6257 2337 cebarton[at]gmail.com
<b>BARTOSOVA</b> Dr. Alena <i>Secretary, IAHS ICWQ</i>	SMHI / Swedish Meteorological and Hydrological Institute Research and Development in Hydrology SE- 601 76 Norrköping SWEDEN	T: 46 11 495 80 00 alena.bartosova[at]smhi.se
<b>BARZAGHI</b> Prof. Riccardo <i>Service Representative, IAG Executive Committee Chair, IAG International Gravity Field Service (IGFS)</i>	Politecnico di Milano DIIAR Piazza Leonardo Da Vinci 32 20133 Milan ITALY	riccardo.barzaghi[at]polimi.it
<b>BARZEGAR</b> Dr. Rahim <i>ECC Representative, IAHS ICGW</i>	Department of Bioresource Engineering Macdonald Campus McGill University 21111 Lakeshore Ste Anne de Bellevue Quebec, H9X 3V9 CANADA	T: 1 514 809 3252 rahim.barzegar[at]mcgill.ca
<b>BAUDER</b> Dr. Andreas <i>IACS National Correspondent</i>	ETH Zurich Laboratory of Hydraulics, Hydrology and Glaciology Hönggerbergstrasse 26 8093 Zurich SWITZERLAND	T: 41 44 632 4112 F: 41 44 632 1192 bauder[at]vaw.baug.ethz.ch
<b>BEAN</b> Prof. Chris J. <i>IASPEI National Correspondent</i>	Dublin Institute for Advanced Studies 5 Merrion Square Dublin 2 IRELAND	T: 353 1 653 5147 ext. 224 F: 353 1 443 0575 chris.bean[at]dias.ie

<b>BEARDSMORE</b> Dr. Graeme <i>Vice-Secretary, IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)</i>	The University of Melbourne Grattan Street Parkville Victoria, 3010 AUSTRALIA	T: 61 407337069 g.beardsmore[at]unimelb.edu.au
<b>BEER</b> Dr. Tom <i>Past President, IUGG (2007-2011)</i> <i>Past Chair, Union Commission on Climatic and Environmental Change (CCEC)</i>	Safe System Solutions Pty Ltd 4/35 Hope St. Brunswick, VIC, 3056 AUSTRALIA	T: 61 3 9381 2222 M: 61 448 675 001 tom.beer[at]safesystemsolutions.com.au
<b>BEEVERS</b> Prof. Lindsay <i>Vice-President, IAHS ICCLAS</i>	The University of Edinburgh School of Engineering 3.19 William Rankine Building, Kings Buildings Edinburgh, EH9 3FG UK	l.beever[sat]ed.ac.uk
<b>BEGGAN</b> Dr. Ciaran <i>Chair, IAGA Working Group V-MOD</i>	Geomagnetism British Geological Survey Edinburgh, EH14 4AP UK	ciar[at]bgs.ac.uk
<b>BEG PAKLAR</b> Dr. Gordana <i>President, National Committee</i> <i>IAPSO National Correspondent</i> <i>Nationally Accredited Council Delegate (2024-2027)</i>	Institute of Oceanography and Fisheries Setaliste Ivana Mestrovica 63 21000 Split CROATIA	T: 385 21 408 040 F: 385 21 358 650 beg[at]izor.hr
<b>BEHREND</b> Dr. Dirk <i>Director of Coord. Centre, IAG International VLBI Service for Geodesy &amp; Astrometry (IVS)</i>	NVI, Inc. NASA Goddard Space Flight Center Planetary Geodynamics Lab, Code 698 Greenbelt, MD, 20771 USA	dbb[at]ivscc.gsfc.nasa.gov
<b>BELDA ESPUGUES</b> Dr. Fernando <i>IAMAS National Correspondent</i>	Agencia Estatal de Meteorología (AEMET) SPAIN	T: 34 699839040 fbeldae[at]aemet.es
<b>BEMIS</b> Dr. Karen <i>Secretary, IAVCEI Commission on Monogenetic Volcanism</i>	Department of Marine and Coastal Sciences & Department of Earth and Planetary Sciences Rutgers University 71 Dudley Rd New Brunswick, NJ, 08901 USA	bemis[at]marine.rutgers.edu
<b>BENÍTEZ</b> M.Sc. Noelia <i>Member, National Committee</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 982876245 F: 595 21 585600 noelabenitez[at]facen.una.py
<b>BENT</b> Dr. Allison <i>Chair, IASPEI Working Group on Magnitude Measurements</i> <i>IASPEI National Correspondent</i>	NRCAN-RNCAN 930 Carling Avenue Ottawa, ON, K1A 0Y3 CANADA	T: 1 613 995 8852 allison.bent[at]NRCan-RNCAn.gc.ca
<b>BEN-ZION</b> Prof. Yehuda <i>Past Chair, Union Commission on Mathematical Geophysics (CMG)</i>	University of Southern California Department of Earth Sciences Mail Code 0740 Los Angeles, CA, 90089-0740 USA	T: 1 213 740 6734 benzion[at]usc.edu
<b>BERGAL-KUVIKAS</b> Dr. Olga <i>Co-Leader, IAVCEI Commission Volcano Geoheritage and Protected Volcanic Landscapes</i>	Institute of Volcanology and Seismology Russian Academy of Science RUSSIA	kuvikas[at]mail.ru
<b>BERGMAN</b> Prof. Michael <i>Secretary &amp; Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Bard College at Simon's Rock Science, Mathematics and Computing 84 Alford Road Great Barrington, MA, 01230 USA	T: 1 413 528 7432 bergman[at]simons-rock.edu
<b>BERTHIER</b> Dr. Étienne <i>IACS National Correspondent</i>	Centre national de la recherche Scientifique Observatoire Midi Pyrénées Laboratoire d'études en géophysique et océanographie spatiales 14 avenue Édouard Belin 31400 Toulouse FRANCE	etienne.berthier[at]univ-tlse3.fr

<b>BETHERS</b> Dr. phys. Uldis <i>IAHS National Correspondent</i>	University of Latvia Jelgavas Street 3 1004 Riga LATVIA	T: 371 29561523 bethers[at]latnet.lv
<b>BETTADPUR</b> Prof. Srinivas V. <i>President, IAG Commission 2: Gravity Field</i>	The University of Texas at Austin Aerospace Engineering (ASE) Building 2617 Wichita Street, C0600 Austin, TX, 78712-1221 USA	srinivas[at]csr.utexas.edu
<b>BEVEN</b> Prof. Keith <i>Chair, IAHS History of Hydrology</i>	Lancaster Environment Centre Lancaster University Bailrigg Lancaster, LA1 4YQ UK	k.beven[at]lancaster.ac.uk
<b>BHATTACHARYYA</b> Prof. Archana <i>Member, IUGG Finance Committee</i> <i>Further Member National Committee</i>	Indian Institute of Geomagnetism Kalmaboli Highway New Panvel Navi Mumbai, 410 218 INDIA	T: 91 22 2748 4147 T: 91 9619543004 archana.bhattacharyya[at]gmail.com
<b>BIASS</b> Dr. Sébastien <i>Co-Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	Department of Earth Sciences University of Geneva Rue des Maraîchers 13 1205 Geneva SWITZERLAND	sebastien.biass[e]atunige.ch
<b>BIASTOCH</b> Prof. Dr. Arne <i>IAPSO National Correspondent</i>	GEOMAR - Helmholtz Centre for Ocean Research Kiel Ocean Circulation and Climate Dynamics Wischoffstr. 1-3 24148 Kiel GERMANY	T: 49 431 600 4000 F: 49 431 600 134000 abiastoch[at]geomar.de
<b>BIDOKHTI</b> Prof. Dr. A. Ali-Akbri <i>IAPSO National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 bidokhti[at]ut.ac.ir
<b>BIELIK</b> Prof. Miroslav <i>Member, National Committee</i>	Comenius University Faculty of Natural Sciences 842 15 Bratislava 4 SLOVAK REPUBLIC	T: 421 2 6029 6359 F: 421 2 6029 6359 bielik[at]fns.uniba.sk geofmiro[at]savba.sk
<b>BISHOP</b> Prof. Craig <i>Secretary, IAMAS ICDM</i>	School of Earth Sciences University of Melbourne Corner of Swanston and Elgin Streets Parkville, Victoria, 3010 AUSTRALIA	T: 61 3 8344 9022 T: 61 456309264 craig.bishop[at]unimelb.edu.au
<b>BJÖRNSSON</b> Dr. Gunnlaugur <i>IAGA National Correspondent</i>	University of Iceland Tækniðarður, room Tg-322 Dunhagi 5 107 Reykjavík ICELAND	F: 354 552 8911 gulli[at]hi.is
<b>BJÖRNSSON</b> Dr. Halldór <i>IAMAS National Correspondent</i>	The Icelandic Meteorological Office Bústädavegur 7-9 105 Reykjavík ICELAND	T: 354 522 6000 F: 354 522 6001 halldor[at]vedur.is
<b>BLACKWOOD</b> Dr. Carmen <i>Vice-President, IAG Inter-Commission Committee for Climate Research (ICCR)</i>	Jet Propulsion Laboratory Mail Stop 300-323 4800 Oak Grove Drive Pasadena, CA, 91109 USA	carmen.blackwood[at]jpl.nasa.gov
<b>BLANC</b> M.Sc. Silvia <i>Secretary General, IAPSO</i>	Acoustic Propagation Department Argentinian Navy Research Office and UNIDEF (National Council of Scientific and Technical Research/Ministry of Defence) Buenos Aires ARGENTINA	sg[at]iapso-ocean.org silblanc[at]yahoo.com
<b>BLANCO CANO</b> Dra. Xóchitl G. <i>IAGA National Correspondent</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 5622 4142 ext. 108 xbc[at]geofisica.unam.mx
<b>BLAUENSTEINER</b> Dipl. Ing. Franz <i>Secretary, National Committee</i>	Federal Office of Metrology and Surveying (BEV) Schiffamtsgasse 1-3 1020 Vienna AUSTRIA	T: 43 1 21110 82 2216 T: 43 676 8210 2017 SekretariatOEGK[at]bev.gv.at Franz.Blauensteiner[at]bev.gv.at

<b>BLÖSCHL</b> Prof. Dr. Günter <i>Chair, IAHS UPH</i> <i>IAHS National Correspondent</i>	Vienna University of Technology Institute of Hydraulic Engineering and Water Resources Management Karlsplatz 13/222 1040 Vienna AUSTRIA	T: 43 1 588 012 2315 F: 43 1 588 012 2399 bloeschl[at]hydro.tuwien.ac.at www.hydrology.at
<b>BÖHM</b> Prof. Dr. Johannes <i>IAG National Correspondent</i>	Vienna University of Technology Department of Geodesy and Geoinformation Gußhausstraße 27-29 1040 Vienna AUSTRIA	johannes.boehm[at]geo.tuwien.ac.at
<b>BOJARIU</b> Dr. Roxana <i>IACS National Correspondent</i>	National Administration of Meteorology Sos. Bucuresti - Ploiești, nr. 97 013686 Bucharest ROMANIA	T: 40 21 316 3645 F: 40 21 316 7762 bojariu[at]clicknet.ro
<b>BONADONNA</b> Prof. Costanza <i>President, IAVCEI</i>	Department of Earth Sciences University of Geneva Rue des Maraîchers 13 1205 Geneva SWITZERLAND	T: 41 22 3797111 Costanza.Bonadonna[at]unige.ch
<b>BONDÁR</b> Dr. István <i>Chair, IASPEI Working Group on Utilization of Global 3-D Models for Seismic Observatory Applications</i>	Institute of Earth Physics and Space Science Csatkai E. u. 6-8 9400 Sopron HUNGARY	bondar.istvan[at]csfk.org bondar[at]seismology.hu ibondar2014[at]gmail.com
<b>BONFORTE</b> Dr. Alessandro <i>Member, IAVCEI Executive Committee</i>	Istituto Nazionale di Geofisica e Vulcanologia Sezione di Catania Osservatorio Etneo 95125 Catania ITALY	T: 39 0957165809 alessandro.bonforte[at]ingv.it
<b>BÖNNEMANN</b> Dr. Christian <i>Contact Person, Adhering Organization</i>	Federal Institute for Geosciences and Natural Resources (BGR) Stilleweg 2 30655 Hanover GERMANY	T: 49 511 643 3134 F: 49 511 643 2304 Christian.Boennemann[at]bgr.de
<b>BONVALOT</b> Dr. Sylvain <i>Director, IAG Service: Bureau Gravimétrique International (BGI)</i>	Bureau Gravimétrique International Observatoire Midi-Pyrénées 14-16 avenue Edouard Belin 31401 Toulouse Cedex 4 FRANCE	bonvalot[at]ird.fr
<b>BOUCHER</b> Mr. Claude <i>IUGG Liaison, Consultative Committee for Time and Frequency (CCTF; 2011-2023); Advisor to Sébastien Merlet, IUGG Liaison, Consultative Committee for Time and Frequency (CCTF)</i>	103 avenue Philippe-Auguste 75011 Paris FRANCE	T: 33 1 4373 8423 claude-boucher[at]club-internet.fr
<b>BOULAH DID</b> Prof. Mostepha <i>IAPSO National Correspondent</i>	Former Director Ecole Supérieure des Sciences de la Mer et de l'Aménagement du territoire (ESSMAL) ENSSMAL Campus Universitaire de Dely Ibrahim Bois des Cars B.P 16320 Algiers ALGERIA	T: 213 561 83 71 18 mostefaboulahdid[at]hotmail.com
<b>BOULET</b> Dr. Gilles <i>Vice-President, IAHS ICRS</i>	IRD, CESBIO UMR5126 CNRS/UPS/IRD/CNES 18 Avenue Edouard Belin, bpi 2801 31401 Toulouse cedex 9 FRANCE	T: 33 5 61 55 85 43 gilles.boulet[at]ird.fr
<b>BOY</b> Dr. Jean-Paul <i>Director Central Bureau, IAG International Geodynamics and Earth Tide Service (IGETS)</i>	EOST-ITES (UMR 7063 - Université de Strasbourg, CNRS, ENGEES) 5 rue René Descartes 67084 Strasbourg FRANCE	jeanpaul.boy[at]unistra.fr
<b>BOYER</b> Dr. Elizabeth <i>Vice-President, IAHS ICSW</i>	Department of Ecosystem Science & Management Penn State University University Park Pennsylvania, 16802 USA	T: 1 814 865 8830 ewb100[at]psu.edu
<b>BOYNAGRYAN</b> Prof. Dr. Vladimir <i>IACS &amp; IAHS National Correspondent</i>	Head of Geomorphology & Cartography Yerevan State University 1 Alex Manoogian Str Yerevan, 0025 ARMENIA	T: 374 10 550 661 T: 374 91 935 139 F: 374 10 554 641 vboynagryan[at]ysu.am

<b>BOZO</b> Prof. Dr. Laszlo <i>IAMAS National Correspondent</i>	Hungarian Meteorological Service P.O. Box 38 1525 Budapest HUNGARY	T: 36 1 346 4660 bozo.l[at]met.hu
<b>BOZÓKI</b> Dr. Tamás <i>Secretary, National Committee</i>	HUN-REN Institute of Earth Physics and Space Science Csatkai E. u. 6-8 9401 Sopron HUNGARY	T: 36 99 508 350 bozoki.tamas[at]epss.hun-ren.hu
<b>BRACEGIRDLE</b> Dr. Thomas <i>IUGG Liaison, ISC Scientific Committee on Antarctic Research (SCAR)</i>	British Antarctic Survey High Cross, Madingley Road Cambridge, CB3 0ET UK	T: 44 1223 221400 tjbra[at]bas.ac.uk
<b>BRADSHAW</b> Ms. Elizabeth <i>Head, Permanent Service for Mean Sea Level</i>	National Oceanography Centre Joseph Proudman Building 6 Brownlow Street Liverpool, L3 5DA UK	elizb[at]bodc.ac.uk
<b>BRAITENBERG</b> Assoc. Prof. Carla <i>IAG Representative, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	University of Trieste Department of Mathematics and Earth Sciences via Weiss 1, Palazzina C 34127 Trieste ITALY	T: 39 040 558 2258 berg[at]units.it
<b>BRIOLE</b> Dr. Pierre <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Centre national de la recherche scientifique École normale supérieure - PSL Département des Géosciences 24 rue Lhomond 75005 Paris FRANCE	president[at]cnfgeg.fr pierre.briole[at]ens.fr
<b>BRKIC</b> Prof. Dr. Mario <i>IAGA National Correspondent</i>	Faculty of Geodesy University of Zagreb Savksa cesta 144a 10000 Zagreb CROATIA	T: 385 1 463 9243 mbrkic[at]geof.hr
<b>BRLEK</b> Mr. Ivan <i>IASPEI National Correspondent</i>	Federal Institute for Hydrometeorology Centre for Seismology Bardakcije 12 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 109 564 F: 387 33 276 728 ivanbrlek[at]yahoo.com
<b>BROWNING</b> Dr. John <i>Co-Leader, IAVCEI Commission on Volcanic and Igneous Plumbing Systems</i>	Departamento de Ingeniería de Minería, Departamento de Ingeniería Estructural y Geotécnica Pontificia Universidad Católica de Chile Santiago CHILE	jrowning[at]uc.cl
<b>BRUYNINX</b> Dr. Carine <i>IAG National Correspondent</i>	Koninklijke Sterrenwacht van België Ringlaan 3 1180 Brussels BELGIUM	T: 32 2 373 0292 F: 32 2 374 9822 carine.bruyninx[at]oma.be
<b>BRYAN</b> Prof. Scott <i>Co-Leader, IAVCEI Commission on Large Igneous Provinces</i>	Queensland University of Technology School of Earth & Atmospheric Sciences Brisbane AUSTRALIA	T: 61 7 31384827 scott.bryan[at]qut.edu.au
<b>BRYDEN</b> Prof. Harry <i>Association Representative Member, Union Commission on Climatic and Environmental Change (CCEC)</i>	University of Southampton National Oceanography Centre Southampton Empress Dock Southampton, SO14 3ZH UK	T: 44 2380 596 437 H.Bryden[at]noc.soton.ac.uk
<b>BUCHA</b> Assoc. Prof. Blažej <i>Member, National Committee</i>	Slovak University of Technology Faculty of Civil Engineering Radlinskeho 11 810 05 Bratislava SLOVAK REPUBLIC	T: 421 2 32 888 343 blazej.bucha[at]stuba.sk
<b>BULUSU</b> Dr. Jayashree <i>Co-Chair, IAGA Division III</i>	Indian Institute of Geomagnetism Plot-5, Sector-18 New Panvel (W) Navi Mumbai-410218 INDIA	T: 91 40 27012788 jayashree.b[at]iigm.res.in
<b>BURCHARDT</b> Assoc. Prof. Steffi <i>IAVCEI National Correspondent</i>	Uppsala University Department of Earth Sciences Villavägen 16 SE- 752 36 Uppsala SWEDEN	T: 46 18 4712568 Steffi.Burchardt[at]geo.uu.se

<b>BURLAKOVS</b> Dr. geogr. Juris <i>IAVCEI National Correspondent</i>	Department of Environmental Science University of Latvia Jelgavas Street 1, DAC 1004 Riga LATVIA	juris[at]geo-it.lv
<b>BURROWS FRS</b> Prof. Dr. John P. <i>Vice-President, IAMAS</i>	University of Bremen - FB1 Institute of Environmental Physics and Remote Sensing IUP/IFE Postfach 330440 28334 Bremen GERMANY	T: 49 421 2186 2100 T: 49 173 6241781 F: 49 421 218 4555 burrows[at]iup.physik.uni-bremen.de
<b>BUTTINI</b> Dipl. Phys. Eric <i>President, National Committee</i>	Musée National d'Histoire Naturelle 25, rue Munster 2160 Luxembourg LUXEMBOURG	T: 352 462233 410 ebuttini[at]mnhn.lu
<b>BUYTAERT</b> Dr. Wouter <i>Chair, IAHS CANDHY</i>	Imperial College London Department of Civil and Environmental Engineering London UK	T: 44 20 7594 1329 w.buytaert[at]imperial.ac.uk
<b>BØGH</b> Ass. Prof. Eva <i>IAHS National Correspondent</i>	University of Roskilde Dept. of Environmental, Social and Spatial Change Building 02, P.O. Box 260 4000 Roskilde DENMARK	T: 44 4674 3942 F: 44 4674 3031 eboegh[at]ruc.dk
<b>CABASSI</b> Dr. Jacopo <i>Co-Leader, IAVCEI Commission on Volcanic Lakes</i>	Istituto di Geoscienze e Georisorse Via G. La Pira 4 50121 Firenze ITALY	T: 39 050 6212372 jacopo.cabassi[at]igg.cnr.it
<b>CABRAL-CANO</b> Dr. Enrique <i>IAG National Correspondent</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 5622 4229 ecabral[at]igeofisica.unam.mx
<b>CALDERON PALMA</b> Dr. Heyddy <i>President, National Committee</i> <i>IAHS National Correspondent</i>	CIRA UNAN ENITEL Villa Fontana, 400 m al norte Managua NICARAGUA	h.calderonpalma[at]unesco-ihe.org heyddy.calderon[at]cira.unan.edu.ni
<b>CALVACHE</b> Dr. Marta Lucía <i>Vice-President, IAVCEI</i> <i>IAVCEI National Correspondent</i>	Servicio Geológico Colombiano Geoamenazas Diagonal 53 No. 34 53 Bogotá COLOMBIA	T: 57 300 6150369 mcalvache1[at]gmail.com
<b>CALVO</b> Prof. Natalia <i>President, IAMAS ICMA</i>	Department of Earth Physics and Astrophysics Universidad Complutense de Madrid Avda. Complutense de 28040 Madrid SPAIN	T: 34 394 4523 nataliac[at]ucm.es
<b>CALVO García-Maroto</b> Dr. Marta <i>Chair, IAG International Geodynamics and Earth Tide Service (IGETS)</i>	Instituto Geográfico Nacional c/Alfonso XII, 3 28014 Madrid SPAIN	mcalvo[at]transportes.gob.es
<b>CAMPOS</b> Prof. Edmo <i>IAPSO National Correspondent</i>	Universidade de São Paulo Instituto Oceanográfico - IO Praça do Oceanográfico 191, Cid. Universitária 05508-120 São Paulo BRAZIL	T: 55 11 3091 6597 T: 55 11 3091 6564 T: 55 11 3091 6648 edmo[at]usp.br
<b>CANEVA</b> Dr. Alexander <i>IAGA National Correspondent</i>	Universidad Antonio Nariño Centro de Investigaciones Calle 58 A No 37-94 oficina 201 Bogotá, D.C. COLOMBIA	T: 57 1 315 2997 F: 57 1 548 1720 acanevar[at]unal.edu.co
<b>CANHANGA</b> Mr. Senibaldo <i>IAPSO National Correspondent</i>	Téc. Superior de Tranc. e Comunicações Instituto N. Hidrografia e Navegação C.P. Maputo MOZAMBIQUE	T: 258 82 848 9780 F: 258 21 430 185 scanhangang[at]yahoo.com.br
<b>CAPACCIONI</b> Dr. Fabrizio <i>Executive Committee Member, Union Commission on Planetary Sciences (UCPS)</i>	INAF IASF Sezione di Roma Via Fosso del Cavaliere 100 Tor Vergata 00133 Rome ITALY	T: 39 06 499 34183 F: 39 06 206 60188 Fabrizio.capaccioni[at]iaps.inaf.it fabrizio.capaccioni[at]iasf-roma.inaf.it

<b>CARDENAS Contreras</b> Prof. Andres <i>Vice-President, National Committee</i>	Universidad Distrital Ingenieria Catastral Geodesia Carrera 8 No. 40 - 62 Bogotá, D.C. COLOMBIA	T: 57 1 286 4330 T: 57 1 286 4027 F: 57 1 286 4027 acardenas[at]judistrital.edu.co
<b>CARICCHI</b> Prof. Dr. Luca <i>President, National Committee</i> <i>IAVCEI National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	University of Geneva Department of Earth Sciences Rue des Maraîchers 13 1205 Geneva SWITZERLAND	T: 41 22 379 6630 F: 41 22 379 3210 luca.caricchi[at]unige.ch
<b>CARN</b> Dr. Simon A. <i>Secretary, IAVCEI Commission on Remote Sensing</i>	Michigan Technological University Department of Geological and Mining Engineering and Sciences 1400 Townsend Drive Houghton, MI, 49931 USA	T: 1 906 487 1756 F: 1 906 487 3371 scarn[at]mtu.edu
<b>CARNIEL</b> Dr. Roberto <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAVCEI Representative</i> <i>Co-Chair, IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics</i>	Università di Udine Dipartimento Politecnico di Ingegneria e Architettura via Palladio 8 33100 Udine ITALY	T: 39 0432 558 749 roberto.carniel[at]uniud.it
<b>CARRILHO</b> Eng. Fernando <i>IASPEI National Correspondent</i>	Instituto Português do Mar e da Atmosfera Rua C do Aeroporto 1749-077 Lisbon PORTUGAL	T: 351 21 844 70 00 fernando.carrilho[at]ipma.pt
<b>CARRION</b> Prof. Daniela <i>Director, IAG International Service for the Geoid (ISG)</i>	Politecnico di Milano IGeS at DIAR P.zza Leonardo da Vinci, 32 20133 Milano ITALY	daniela.carrion[at]polimi.it
<b>CARTER</b> A/Prof. Brett <i>IAGA National Correspondent</i>	SPACE Research Centre School of Science 402 Swanston Street RMIT University Melbourne, VIC, 3001 AUSTRALIA	T: 61 3 9925 0356 brett.carter[at]rmit.edu.au
<b>CASASSA Rogazinski</b> Dr. Gino <i>IACS National Correspondent</i>	Instituto Antártico Chileno Plaza Muñoz Gamero 1055 Punta Arenas, XII Región CHILE	T: 56 61 2298100 gcasassa[at]inach.cl
<b>CASTELLARIN</b> Prof. Attilio <i>HSJ Editor-in-Chief, IAHS</i>	ALMA MATER STUDIORUM Universita' di Bologna DICAM, Costruzioni Idrauliche Viale Risorgimento, 2 40136 Bologna ITALY	T: 39 05120 93365 attilio.castellarin[at]unibo.it
<b>CASTELLI</b> Prof. Fabio <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAHS Representative</i>	Università degli Studi di Firenze Dipartimento di Ingegneria Civile e Ambientale (DICEA) via di S. Marta 3 50139 Florence ITALY	T: 39 055 275 8854 fabio.castelli[at]unifi.it
<b>CASTILLO CLERICI</b> Dr. Ana Maria <i>President, National Committee</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 971212688 F: 595 21585600 anaclerici[at]facen.una.py
<b>CASTILLO Figueroa</b> Col. Pedro <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Dirección Instituto Geográfico Militar de Chile - IGM Santa Isabel 1651 Santiago CHILE	T: 56 2 2410 9301 direccion[at]igm.cl
<b>CAVUS</b> Dr. Yonca <i>Secretary, IAHS ICSW</i>	Istanbul Technical University Department of Civil Engineering Hydraulics Division 34469 Maslak, Istanbul TÜRKİYE	T: 90 212 2856577 yoncacavus_534[at]hotmail.com
<b>CECIĆ</b> Ms. Ina <i>Vice-President, National Committee</i>	Slovenian Environment Agency Vojkova 1b SI- 1000 Ljubljana SLOVENIA	T: 386 1 478 7265 ina.cecic[at]gov.si

<b>ÇELA</b> MSc. Gazmend <i>IAMAS Alternate National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 g.celaj[at]geo.edu.al
<b>CELA BE GAONE</b> Lic. Romina <i>Secretary General, National Committee</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 961555974 F: 595 21 585600 rominachelabe[at]facen.una.py
<b>CELMS</b> Dr. sc. ing. Armands <i>Secretary, National Committee</i>	Latvia University of Life Sciences and Technologies Akademijas Street 19 3001 Jelgava LATVIA	T: 371 63026152 armands.celms[at]lbtu.lv
<b>CESCA</b> Dr. Simone <i>Chair, IASPEI Working Group on Automatic and routine Moment tensors: benchmark and verification platform</i>	GFZ Helmholtz Centre for Geosciences Section 2.1, Physics of Earthquakes and Volcanoes Helmholtzstraße 6/7 14467 Potsdam GERMANY	T: 49 331 6264 28794 simone.cesca[at]gfz.de
<b>CHACÓN</b> Dr. Silvia <i>IAPSO National Correspondent</i>	Universidad Nacional Escuela de Física Apartado 86-3000 Heredia COSTA RICA	T: 506 2277 3929 silvia.chacon.barrantes[at]una.cr
<b>CHAFFE</b> Mr. Pedro <i>President-Elect, IAHS ICWRS</i>	Department of Sanitary and Environmental Engineering Federal University of Santa Catarina R. Delfino Conti s/n CEP 88040-900 Florianópolis BRAZIL	T: 55 48 3721 7749 pedro.chaffe[at]ufsc.br
<b>CHALOV</b> Dr. Sergey <i>President-Elect, IAHS ICCE</i>	Lomonosov Moscow State University Faculty of Geography GSP-1, Leninskie gory, 1 119991 Moscow RUSSIA	T: 7 9165999947 srchalov[at]geogr.msu.ru
<b>CHAMBODUT</b> Dr. Aude <i>Treasurer, IAGA</i>	University of Strasbourg Ecole et Observatoire des Sciences de la Terre 5 rue René Descartes 67084 Strasbourg Cedex FRANCE	T: 33 3 68 85 00 81 F: 33 3 68 85 01 25 aude[at]unistra.fr
<b>CHANDRASEKHAR</b> Prof. Enamundram <i>Vice-Chair, Union Commission on Mathematical Geophysics (CMG)</i>	Indian Institute of Technology Bombay Department of Earth Sciences Powai, Mumbai, 400076 INDIA	T: 91 22 2576 7257 esekhar[at]iitb.ac.in
<b>CHANG</b> Prof. Chung-Pai <i>Executive Secretary, National Committee</i> <i>IASPEI National Correspondent</i>	National Central University Center for Space and Remote Sensing Research No. 300, Zhongda Rd., Zhongli District Taoyuan, Taiwan, 320317 CHINA-TAIPEI	T: 886 3 425 7232 F: 886 3 425 5535 cpchang[at]csrsr.ncu.edu.tw
<b>CHANG</b> Prof. Fi-John <i>IAHS National Correspondent</i>	National Taiwan University Department of Bioenvironmental Systems Engineering 1, Roosevelt Road, Sec. 4 Taipei, Taiwan, 10617 CHINA-TAIPEI	T: 886 2 3366 3452 F: 886 2 3366 5854 changfj[at]ntu.edu.tw
<b>CHANG</b> Dr. Liao <i>Co-Chair, IAGA Division I</i>	School of Earth and Space Sciences Peking University CHINA	
<b>CHANG</b> Dr. Loren <i>Chair, IAGA Working Group II-C</i>	National Central University 300 Zhongda Road Zhongli District, Taoyuan City 32001 Taiwan CHINA-TAIPEI	T: 886 3 422 7151 loren[at]ncu.edu.tw
<b>CHARBONNIER</b> Prof. Sylvain <i>Co-Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	University of South Florida School of Geosciences Tampa USA	T: 1 813 974 5879 sylvain[at]usf.edu

<b>CHARGAZIA</b> Dr. Khatuna <i>IAGA National Correspondent</i>	Javakhishvili Tbilisi State University Institute of Geophysics Chavchadze av. 1 0128 Tbilisi GEORGIA	T: 995 32 233 4186 F: 995 32 233 5934 khatuna.chargazia[at]gmail.com
<b>CHARLTON</b> Dr. Danielle <i>Co-Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	GNS Science Hazard and Risk Social Science 12 Madden Street, Wynyard Quarter Auckland, 1010 NEW ZEALAND	d.charlton[at]gns.cri.nz
<b>CHATRUCA</b> Mr. Lucas <i>IAHS National Correspondent</i>	Direcção Nacional de Águas C.P. 1143 Av. 25 de Setembro No. 942 11 Andar Maputo MOZAMBIQUE	T: 258 21 322 181 T: 258 21 322 182 F: 258 21 305 240
<b>CHATTOPADHYAY</b> Dr. Brotati <i>Contact Person, Adhering Organization</i>	Assistant Executive Director - I (Council) Indian National Science Academy Bahadur Shah Zafar Marg New Delhi, 110 002 INDIA	T: 91 11 23221931 50 F: 91 11 2322 1959 F: 91 11 2323 1095 icsu[at]jnsa.nic.in
<b>CHAVES SIBAJA</b> Dr. Esteban J. <i>Past President, IASPEI Latin American and Caribbean Seismological Commission (LACSC)</i>	Observatorio Vulcanológico y Sismológico de Costa Rica Campus Omar Dengo Universidad Nacional Heredia, 2386-3000 COSTA RICA	esteban.j.chaves[at]juna.cr
<b>CHELIDZE</b> Prof. Dr. Tamaz <i>President, National Committee</i>	Full Member, National Academy of Science Head, Department of Applied and Experimental Geophysics Institute of Geophysics Javakhishvili Tbilisi State University Alexidze st. 1 0160 Tbilisi GEORGIA	T: 995 32 233 2867 F: 995 32 233 2867 tamaz.chelidze[at]gmail.com
<b>CHELLE-MICHOU</b> Prof. Dr. Cyril <i>Secretary, National Committee</i> <i>IAVCEI National Correspondent</i>	ETH Zurich Department of Earth Sciences Clausiusstrasse 25 8092 Zurich SWITZERLAND	T: 41 44 632 38 31 F: 41 44 632 16 36 cyril.chelle-michou[at]erdw.ethz.ch
<b>CHEN</b> Prof. Arthur C.T. <i>IACS National Correspondent</i>	National Sun Yat-Sen University Institute of Marine Geology & Chemistry Kaohsiung, Taiwan, 80424 CHINA-TAIPEI	T: 886 7 525 5146 F: 886 7 525 5346 ctchen[at]mail.nsysu.edu.tw
<b>CHEN</b> Prof. Jiuhua <i>Chair, IASPEI/IAVCEI Commission on Physics &amp; Chemistry of Earth Materials</i>	Department of Mechanical and Materials Engineering EC 3471, Engineering Center Florida International University 10555 W Flagler Street Miami, FL, 33172 USA	T: 1 305 348 3140 chenj[at]fiu.edu
<b>CHEN</b> Prof. Xiaohong <i>Co-President-Elect, IAHS ICWQ</i>	Center of Water Resources and Environment Sun Yat-sen University No. 135 Xingang Xi Road Haizhu District Guangzhou, 510275 CHINA	T: 86 20 84114575 eescxh[at]mail.sysu.edu.cn
<b>CHEN</b> Prof. Dr. Xueen <i>IAPSO National Correspondent</i>	Ocean University of China 238 Songling Road Qingdao, 266100 CHINA	T: 86 0532 66786199 F: 86 0532 66782790 xchen[at]ouc.edu.cn
<b>CHENDES</b> Dr. Viorel <i>IAHS National Correspondent</i>	National Institute of Hydrology and Water Management Sos. bucuresti - Ploiesti, nr. 97 013868 Bucharest ROMANIA	T: 40 724 505 435 F: 40 21 318 1116 viorel.chendes[at]hidro.ro
<b>CHI</b> Dr. Peter <i>Co-Chair, IAGA Working Group ULF Waves</i>	Department of Earth, Planetary, and Space Sciences University of California Los Angeles 595 Charles Young Drive East Los Angeles, CA, 90095-1567 USA	pchi[at]igpp.ucla.edu

<b>CHIU</b> Prof. Dr. Christine <i>Secretary General, IAMAS IRC</i>	Colorado State University Fort Collins, CO, 80523 USA	T: 1 970 491 8410 Christine.Chiu[at]colostate.edu
<b>CHO</b> Dr. Jungho <i>IAG National Correspondent</i>	Korea Astronomy and Space Science Institute Space Science Division 776 Daedeok-daero, Yuseong-gu Daejeon, 34055 KOREA, Rep. of	T: 82 42 865 3234 F: 82 42 861 5610 johj[at]kasi.re.kr
<b>CHOURAK</b> Prof. Mimoun <i>Second Vice-President, IASPEI African Seismological Commission (AfSC)</i>	Université Mohammed Premier Department of Mechanics and Applied Mathematics Oujda-Angad MOROCCO	mchourak00[at]gmail.com
<b>CLARKE</b> Assoc. Prof. Amanda <i>IAVCEI National Correspondent</i>	Arizona State University School of Earth & Space Exploration ISTB4-Building 75, 781 E. Terrace Mall Tempe, AZ, 85282 USA	T: 1 480 965 6590 F: 1 480 965 8102 Amanda.Clarke[at]asu.edu
<b>CLILVERD</b> Dr. Mark A. <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i>	British Antarctic Survey High Cross Madingley Road Cambridge, CB3 0ET UK	T: 44 1223 221 400 macl[at]bas.ac.uk
<b>CLINTON</b> Dr. John F. <i>IASPEI National Correspondent</i>	ETH Zurich Swiss Seismological Service (SED) Sonneggstr. 5 8092 Zurich SWITZERLAND	T: 41 44 633 4436 T: 41 44 633 2179 jclinton[at]sed.ethz.ch
<b>CLOETINGH</b> Prof. Dr. Sierd A.P.L. <i>Bureau Member, SCL/ILP</i>	Earth Simulation Lab Utrecht University Princetonlaan 4 3584 CB Utrecht NETHERLANDS	T: 31 30 253 7314 sierd.cloetingh[at]uu.nl s.a.p.l.cloetingh[at]uu.nl
<b>COE</b> Prof. Hugh <i>Vice-President, IAMAS ICACGP</i>	The University of Manchester Simon Building 3.07 Oxford Road Manchester, M13 9PL UK	hugh.coe[at]manchester.ac.uk
<b>COLLILIEUX</b> Dr. Xavier <i>Vice-President, IAG Commission 1: Reference Frames</i>	Institut National de l'Information Géographique et Forestière (IGN) Paris, 75013 FRANCE	xavier.collilieux[at]ign.fr
<b>COLLINS</b> Dr. Charine <i>IAPSO National Correspondent</i>	National Institute of Water and Atmospheric Research P.O. Box 14-901 Wellington NEW ZEALAND	T: 64 4 386 0358 charine.collins[at]niwa.co.nz
<b>CONCEIÇÃO</b> Prof. Rommulo Vieira <i>IAVCEI National Correspondent</i>	Universidade Federal do Rio Grande do Sul Instituto de Geociências - Laboratório de Geologia Isotópica (LGI-IG) Caixa Postal: 15.001 Porto Alegre, RS, 91501-970 BRAZIL	T: 55 51 3308 7193 F: 55 51 3308 7302 rommulo.conceicao[at]ufrgs.br
<b>CONFESOR</b> Mr. Remegio <i>Vice-President, IAHS ICWQ</i>	Norsk institutt for Bioøkonomi Oluf Thesens vei 43 Ås (043), 1433 NORWAY	T: 47 4130 8567 remegio.confesor[at]nibio.no
<b>CONSOLINI</b> Dr. Giuseppe <i>IAGA National Correspondent</i>	INAF - Istituto Nazionale di Astrofisica Istituto di Astrofisica e Planetologia Spaziali Via del Fosso del Cavaliere 100 00133 Roma ITALY	T: 39 0649934564 giuseppe.consolini[at]inaf.it
<b>CONSTABLE</b> Prof. Catherine <i>Chair, IAGA Working Group FAIR-MOD</i>	University of California at San Diego Scripps Institution of Oceanography Institute of Geophysics and Planetary Physics 9500 Gilman Dr La Jolla, CA, 92093-0225 USA	cconstable[at]ucsd.edu
<b>CONTÍN</b> Prof. María Laura <i>Secretary General, National Committee</i>	Instituto Geográfico Nacional Dirección de Planificación, Investigación y Desarrollo Av. Cabildo 381 Ciudad Autónoma de Buenos Aires ARGENTINA	mcontin[at]ign.gob.ar mlaura.contin[at]gmail.com

<b>COOPER</b> Miss Ruth <i>Contact Person, Adhering Organization</i>	The Royal Society 6-9 Carlton House Terrace London, SW1Y 5AG UK	T: 44 20 7451 2587 ruth.cooper[at]royalsociety.org
<b>ČOP</b> Dr. Rudi <i>IAGA National Correspondent</i>	Institute Terra Viva Sv. Peter 115 SI- 6333 Secovlje SLOVENIA	rudi.cop[at]artal.si
<b>CORRIOLS</b> Mr. Marvin <i>IAG National Correspondent</i>	IGG/CIGEO UNAN De la Rotonda Universitaria 1 km al Sur Villa Fontana. Apdo. 6631 Managua NICARAGUA	T: 505 22703983 marvincorriols[at]hotmail.com
<b>COTTON</b> Prof. Fabrice <i>Chair, IASPEI Commission on Earthquake Hazard, Risk and Strong Ground Motion</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1125 fabrice.cotton[at]gfz.de
<b>COUSTENIS</b> Dr. Athena <i>Bureau Member, IUGG</i>	LESIA (Bât. 18) Observatoire de Meudon 92195 Meudon Cedex FRANCE	T: 33 1 4507 7720 F: 33 1 4507 7469 athena.coustenis[at]obspm.fr
<b>CRADDOCK</b> Ms. Allison B. <i>Director of Central Bureau, IAG International GNSS Service (IGS)</i>	IGS Central Bureau c/o Jet Propulsion Laboratory Mail Stop 238-600 4800 Oak Grove Drive Pasadena, CA, 91109 USA	allison.b.craddock[at]jpl.nasa.gov craddock[at]igs.org
<b>CRESPI</b> Prof. Mattia <i>President, IAG Inter-Commission Committee on Theory (ICCT)</i> <i>IAG National Correspondent</i>	Sapienza Università di Roma Facoltà' di Ingegneria Civile e Industriale Dipartimento di Ingegneria Civile, Edile e Ambientale via Eudossiana, 18 00184 Roma ITALY	T: 39 06 44585097 mattia.crespi[at]uniroma1.it
<b>CROKE</b> Assoc. Prof. Barry <i>President, IAHS ICWRS</i> <i>IAHS National Correspondent</i>	Fenner School of Environment and Society, and Mathematical Sciences Institute Bldg 141, Linnaeus Way Australian National University Canberra, ACT, 2601 AUSTRALIA	T: 61 2 6125 0666 barry.croke[at]janu.edu.au
<b>CRUCIFIX</b> Prof. Michel <i>Vice-President, National Committee IAMAS member, National Committee</i>	Earth and Climate (ELIC) Université catholique de Louvain Chemin du Cyclotron 2 bte 7 1348 Louvain-la-Neuve BELGIUM	michel.crucifix[at]uclouvain.be
<b>CUBAS</b> M.Sc. Narciso <i>IAVCEI National Correspondent</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 981979930 F: 595 21 585600 ncubas[at]facen.una.py
<b>CUCCO</b> Dr. Andrea <i>IAPSO Alternate National Correspondent</i>	CNR - Istituto per lo studio degli impatti antropici e sostenibilità in ambiente marino Località Sa Mardini 09072 Torregrande (OR) ITALY	T: 39 0783 229138 andrea.cucco[at]cnr.it
<b>CUDENNEC</b> Prof. Christophe <i>IUGG Liaison, UNESCO International Hydrological Programme (IHP); IUGG Liaison, World Meteorological Organization (WMO)</i> <i>Vice-President, IAHS</i> <i>IAHS National Correspondent</i>	Institut Agro CS 84215 35042 Rennes FRANCE	T: 33 2 2348 5558 F: 33 2 2348 5699 cudennec[at]agrocampus-ouest.fr
<b>CUFFARO</b> Dr. Marco <i>IAG Alternate National Correspondent</i>	CNR - Istituto di Geologia Ambientale e Geoingegneria c/o Dipartimento di Scienze della Terra Università di Roma 'La Sapienza' P.le Aldo Moro 5 00185 Roma ITALY	T: 39 06 49914928 marco.cuffaro[at]cnr.it

<b>CULLEN</b> Prof. Nicolas J. <i>IACS National Correspondent</i>	School of Geography University of Otago P.O. Box 56 Dunedin, 9054 NEW ZEALAND	T: 64 3 479 3069 T: 64 21 279 1447 nicolas.cullen[at]otago.ac.nz
<b>CVETKOVIĆ</b> Dr. Vladica <i>IASPEI National Correspondent</i>	Full Member of the Serbian Academy of Sciences and Arts University of Belgrade - Faculty of Mining and Geology Đušina 7 11000 Belgrade SERBIA	T: 381 11 2630 020 F: 381 11 2630 020 vladica.cvetkovic[at]rgf.bg.ac.rs
<b>D'OREYE</b> Dr. Nicolas <i>IAVCEI National Correspondent</i>	Musée National d'Histoire Naturelle 19, rue Josy Welter 7256 Walferdange LUXEMBOURG	T: 352 33 148 733 F: 352 33 148 788 nicolas.doreye[at]ecgs.lu
<b>DACH</b> Prof. Dr. Rolf <i>Chair of the Governing Board, IAG International GNSS Service (IGS)</i> <i>IAG National Correspondent</i>	University of Bern Astronomical Institute Sidlerstrasse 5 3012 Berne SWITZERLAND	rolf.dach[at]unibe.ch
<b>DAGLIS</b> Prof. Ioannis A. <i>IAGA National Correspondent</i>	National & Kapodistrian University of Athens Department of Physics Panepistimioupolis, Zografos 15784 Athens GREECE	T: 30 210 7276857 F: 30 210 7276753 iadaglis[at]phys.uoa.gr
<b>DAHM</b> Prof. Torsten <i>Chair, IASPEI Commission on Seismological Observation and Interpretation; Chair, IASPEI Working Group on New Manual of Seismological Observatory Practice</i> <i>Vice-President, National Committee</i> <i>IASPEI National Correspondent</i>	GFZ Helmholtz Centre for Geosciences Section 2.1, Physics of Earthquakes and Volcanoes Helmholtzstraße 6/7 14467 Potsdam GERMANY	T: 49 331 6264 1200 torsten.dahm[at]gfz.de
<b>DAI</b> Prof. Dr. Minhan <i>Vice-President, National Committee</i>	Xiamen University No. 422, Siming South Road Xiamen, Fujian CHINA	T: 86 592 2182132 F: 86 592 2182132 mdai[at]xmu.edu.cn
<b>DALLAN</b> Dr. Eleonora <i>Vice-President, IAHS ICSH</i>	Department of Land, Environment, Agriculture and Forestry University of Padova Viale dell'Università, 16 35020 Legnaro Padova ITALY	eleonora.dallan[at]unipd.it
<b>DAMÉ</b> Dr. Luc <i>Co-Chair, IAGA Working Group II-D</i>	LATMOS (Laboratoire Atmosphères, Milieux, Observations Spatiales) IPSL (Institut Pierre-Simon Laplace) CNRS, University Paris-Saclay 11 Boulevard d'Alembert 78280 Guyancourt FRANCE	Luc.Dame[at]latmos.ipsl.fr
<b>DANG</b> Prof. Dr. Yamin <i>IAG National Correspondent</i>	Chinese Academy of Surveying & Mapping (CASM) 28 Lianhuachi West RD Beijing, 100360 CHINA	T: 86 10 6388 0701 F: 86 10 6388 0703 dangym2015[at]163.com dangym[at]casm.ac.cn
<b>DARBYSHIRE</b> Prof. Fiona Ann <i>Member, IUGG Site Comparison Committee</i> <i>Member, IASPEI Executive Committee</i> <i>Chairperson, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Université du Québec à Montréal Département des Sciences de la Terre et de l'atmosphère 201, avenue du Président-Kennedy Local PK-6150 Montréal, QC, H2X 3Y7 CANADA	T: 1 514 987 3000 Ex. 5054 darbyshire.fiona_ann[at]uqam.ca
<b>DAS</b> Dr. Jew <i>ECC Representative, IAHS ICSIH</i>	Department of Civil Engineering National Institute of Technology Warangal Warangal, Telangana, 506004 INDIA	T: 91 738 234 1649 jewdas05[at]gmail.com
<b>da SILVA</b> Dr. Yuri Jacques A B <i>Vice-President, IAHS ICCE</i>	Agronomy Department (Soil Science) Federal University of Piaui (UFPI/CPCE) Planalto Horizonte Bom Jesus, PI 64900-000 BRAZIL	T: 55 81 9 9769 3278 yurjacques[at]ufpi.edu.br

<b>DAVIES</b> Prof. Christopher J. <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i> <i>Chair, IAGA Working Group FAIR-MOD</i>	University of Leeds School of Earth and Environment Leeds, LS2 9JT UK	T: 44 11 33 43 11 40 c.davies[at]leeds.ac.uk
<b>de BARROS</b> Ass. Prof. Felipe P. J. <i>President, IAHS ICGW</i>	Sonny Astani Department of Civil and Environmental Engineering University of Southern California Kaprielian Hall, Room 224B 3620 S. Vermont Avenue Los Angeles, CA, 90089-2531 USA	T: 1 213 740 6130 fbarros[at]usc.edu
<b>De BOER</b> Prof. Agatha <i>Vice-President, IAPSO</i>	Stockholm University Dept. of Geological Science SE- 106 91 Stockholm SWEDEN	T: 46 8 16 47 30 agatha.deboer[at]geo.su.se
<b>DE KEYSER</b> Dr. Johan <i>IAGA National Correspondent</i>	Koninklijk Belgisch Instituut voor Ruimte-Aéronomie (BIRA) Ringlaan 3 1180 Brussels BELGIUM	T: 32 2 373 0368 F: 32 2 374 8423 johan.dekeyser[at]bira-iasb.oma.be
<b>DELGADO GRANADOS</b> Dr. Hugo <i>IACS National Correspondent</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510 Ciudad de México MEXICO	T: 52 55 5622 4119 F: 52 55 5622 4145 ext. 12 hdg[at]igeofisica.unam.mx
<b>DELIGNE</b> Dr. Natalia <i>Co-Leader, IAVCEI Commission on Cities and Volcanoes</i>	U.S. Geological Survey – Hawaiian Volcano Observatory Big Island, Hawaii USA	ndeligne[at]usgs.gov
<b>DELMELLE</b> Prof. Pierre <i>IAVCEI National Correspondent</i>	Université catholique de Louvain Environmental Sciences, Earth and Life Institute Croix du Sud 2 bte L7.05.10 1348 Louvain-la-Neuve BELGIUM	pierre.delmelle[at]uclouvain.be
<b>DE MAZIÈRE</b> Dr. Martine <i>IAMAS National Correspondent</i>	Koninklijk Belgisch Instituut voor Ruimte-Aéronomie (BIRA) Ringlaan 2 1180 Brussels BELGIUM	T: 32 2 373 0363 F: 32 2 374 8423 martine.demaziere[at]bira-iasb.oma.be
<b>DEMBÉLÉ</b> Dr. Moctar <i>ECC Representative, IAHS ICSW; Chair, IAHS ECC</i>	International Water Management Institute (IWMI) CSIR Campus, No. 6 Agostino Neto Road Airport Residential Area Accra GHANA	T: 226 7628 3842 mocdembele[at]gmail.com
<b>DEMETRASHVILI</b> Prof. Demuri <i>IAPSO National Correspondent</i>	Chief Researcher Javakhishvili Tbilisi State University Alexidze st. 1 0171 Tbilisi GEORGIA	T: 995 32 333 814 F: 995 32 335 934 demetr_48[at]yahoo.com
<b>DEMETRESCU</b> Dr. Crisan <i>Vice-President, National Committee</i>	Institute of Geodynamics "Sabba S. Stefanescu" 19-21, Jean-Louis Calderon Str. 020032 Bucharest ROMANIA	T: 40 21 317 2126 F: 40 21 317 2120 crisan[at]geodin.ro
<b>DENG</b> A/Prof. Xiaoli <i>IAG National Correspondent</i>	School of Engineering University of Newcastle University Drive Callaghan, NSW, 2308 AUSTRALIA	T: 61 2 4921 8988 xiaoli.deng[at]newcastle.edu.au
<b>DENNEDY-FRANK</b> Dr. P. James <i>ECC Representative, IAHS ICCLAS</i>	Lawrence Berkeley Lab 1 Cyclotron Rd Berkeley, CA, 94720 USA	pjdf[at]lbl.gov
<b>DERKOVÁ</b> Dr. Mária <i>Member, National Committee</i>	Slovak Hydrometeorological Institute Jeséniova 17 833 15 Bratislava SLOVAK REPUBLIC	T: 421 2 5941 5380 maria.derkova[at]shmu.sk
<b>DEUS</b> Dr. Ricardo <i>IAMAS National Correspondent</i>	Instituto Português do Mar e da Atmosfera Rua C do Aeroporto 1749-077 Lisbon PORTUGAL	T: 351 21 844 7000 ricardo.deus[at]ipma.pt

<b>DEUSS</b> Prof. Arwen <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Department of Earth Sciences University of Utrecht Princetonlaan 8A 3583 CB Utrecht NETHERLANDS	T: 31 30 253 5136 a.f.deuss[at]uu.nl
<b>DEWAR</b> Prof. William <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAPSO Representative</i>	Florida State University Department of Earth, Ocean and Atmospheric Science Tallahassee, FL, 32306-4320 USA	T: 1 850 644 4099 wdewar[at]fsu.edu
<b>DEWITTE</b> Dr. Ir. Steven <i>IAMAS Member, National Committee</i>	Koninklijk Sterrenwacht van België Ringlaan 3 1180 Brussels BELGIUM	T: 32 456321990 steven.dewitte[at]oma.be
<b>DE ZEEUW-VAN DALFSEN</b> Dr. Elske <i>IAVCEI National Correspondent</i>	Royal Netherlands Meteorological Institute (KNMI) P.O. Box 201 3730 AE De Bilt NETHERLANDS	T: 31 6 5549 5035 elske.van.dalfsen[at]knmi.nl
<b>DEZETTER</b> Dr. Alain <i>President-Elect, IAHS ICSW</i>	Chargé de Recherche en Hydrologie à l'IRD UMR HydroSciences Montpellier (HSM) Université Montpellier - HydroSciences Montpellier - CC 057 163 rue Auguste Broussonnet 34090 Montpellier FRANCE	T: 33 467149020 Alain.Dezetter[at]ird.fr
<b>DHOTE</b> Mr. Pankaj <i>Secretary, IAHS ICRS</i>	Water Resource Department Indian Institute of Remote Sensing Indian Space Research Organisation Govt. of India, 4, Kalidas Road Dehradun INDIA	pankaj_d[at]hy.iitr.ac.in
<b>DI CAPUA</b> Dr. Andrea <i>Co-Leader, IAVCEI Commission on Volcanogenic Sediments</i>	Consiglio Nazionale delle Ricerche Istituto di Geologia Ambientale e Geoingegneria Via Mario Bianco, 9 20131 Milano ITALY	andrea.dicapua[at]igag.cnr.it
<b>DIDIER</b> Ing. Luc <i>IAG National Correspondent</i>	Ville de Luxembourg Direction Géomètre 3, rue du Laboratoire 1911 Luxembourg LUXEMBOURG	T: 352 4796 2697 F: 352 46 61 56 ldidier[at]vdl.lu
<b>DIMAS SUÁREZ</b> Dr. Mirta <i>IAHS National Correspondent</i>	Centro de Estudios y Experimentación de Obras C/ Paseo Bajo de la Virgen del Puerto, 3 28005 Madrid SPAIN	T: 34 91 335 79 26 Mirta.Dimas[at]cedex.es
<b>DIMITROV</b> Assoc. Prof. Dr. Nikolay <i>IAG National Correspondent</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev Str., Bl. 3 1113 Sofia BULGARIA	T: 359 2 979 3313 F: 359 2 9713 005 nikox[at]abv.bg
<b>DIMOPOULOU</b> Dr. Christina <i>Assistant Secretary General, IAG</i>	Federal Agency for Cartography and Geodesy (BKG) Richard-Strauss-Allee 11 60598 Frankfurt GERMANY	IAG-Office[at]bkg.bund.de
<b>DING</b> Dr. Minghu <i>IUGG Liaison, UNESCO World Meteorological Organization (WMO)</i> <i>Vice-President, IACS</i>	Institute of Tibetan Plateau and Polar Meteorology Chinese Academy of Meteorological Sciences Zhongguancun Nandajie 46#, Haidian District Beijing, 100081 CHINA	dingminghu[at]foxmail.com
<b>DING</b> Prof. Dr. Zhifeng <i>Contact Person, Adhering Organization; Secretary-General, National Committee</i>	Institute of Geophysics China Earthquake Administration (CEA) No. 5, South Road of Minzu University Beijing, 100081 CHINA	T: 86 10 68729308 T: 86 10 68729308 dingzf[at]cea-igp.ac.cn
<b>DOBRYCA</b> Dr. Venera <i>IAGA National Correspondent</i>	Institute of Geodynamics "Sabba S. Stefanescu" 19-21 Jean-Louis Calderon Str. 020032 Bucharest ROMANIA	T: 40 21 317 2126 F: 40 21 317 2120 venera[at]geodin.ro

<b>DOĞAN</b> Dr.Eng. Hakan <i>IAMAS National Correspondent</i>	Turkish State Meteorological Service Dumlupınar Bulvari, No: 161 06800 Cankaya, Ankara TÜRKIYE	T: 90 312 302 2440 F: 90 312 203 2732 hadogan[at]mym.gov.tr
<b>DOKO</b> MSc. Alban <i>IAHS Alternate National Correspondent</i>	Universiteti Politeknik i Tiranes Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 a.doko[at]geo.edu.al
<b>DONG</b> Prof. Dr. Shuwen <i>Advisory Board, SCL/ILP</i>	Chinese Academy of Geological Sciences No. 26, Baiwanzhuang Road Xicheng District 100037 Beijing CHINA	T: 86 10 68999606 F: 86 10 68310893 swdong[at]cags.ac.cn
<b>DONLAGIC</b> Spec. sc. Eldin <i>IAGA National Correspondent</i>	Assistant Director for Geodesy & Cartography Federal Administration for Geodetics & Real Property Affairs Hamdije Kreševljakovića 97 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 102 459 eldin.donlogic[at]gmail.com
<b>DOYLE</b> Dra. Moira Evelina <i>2nd Vice-President, National Committee IAMAS National Correspondent</i>	Universidad de Buenos Aires Dpto. de Ciencias de la Atmósfera y los Oceanos, FCEN Centro de Investigaciones del Mar y la Atmósfera (CIMA/CONICET-UBA) Intendente Güiraldes 2160 - Ciudad Universitaria Pabellón II - 2do. Piso Ciudad Autónoma de Buenos Aires ARGENTINA	T: 54 11 528 8514 doyle[at]cima.fcen.uba.ar
<b>DRAGOVIĆ</b> Dr. Snežana <i>President, National Committee IAVCEI National Correspondent</i>	"Vinča" Institute of Nuclear Sciences National Institute of the Republic of Serbia University of Belgrade Mike Petrovića Alasa 12-14 11351 Belgrade SERBIA	T: 381 11 3408 104 F: 381 11 6455 654 sdragovic[at]vin.bg.ac.rs
<b>DREWES</b> Prof. Dr. Hermann <i>Past Secretary General, IAG (2007-2019)</i>	Abbestr. 4 80999 Munich GERMANY	h.drewes[at]tum.de
<b>DUMBERRY</b> Prof. Mathieu <i>Chair, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	University of Alberta Department of Physics Edmonton, AB, T6G 2G7 CANADA	T: 1 780 492 3987 dumberry[at]ualberta.ca
<b>DUONG</b> Dr. Nguyen Anh <i>IASPEI National Correspondent</i>	VAST Institute of Geophysics Nha A8-18, Hoang Quoc Viet Cau Giay Hanoi VIETNAM	T: 84 24 37564380 F: 84 24 3836 4696 duongnaigp[at]gmail.com
<b>DUONG</b> Dr. Nguyen Van <i>Secretary, National Committee</i>	VAST Institute of Geophysics Nha A8-18, Hoang Quoc Viet-Cau Giay Hanoi VIETNAM	T: 84 974800523 F: 84 24 38364696 duongnv[at]igp.vast.vn duongnv.igp[at]gmail.com
<b>DURÁN</b> Dr. Ana María <i>IAMAS National Correspondent</i>	University of Costa Rica School of Physics 2060 San José COSTA RICA	T: 506 6168 1828 ana.duranquesada[at]ucr.ac.cr
<b>DURRHEIM</b> Prof. Raymond <i>IASPEI National Correspondent</i>	Council for Scientific and Industrial Research (CSIR) PO Box 91230 Auckland Park, 2006 SOUTH AFRICA	T: 27 11 358 0082 F: 27 11 726 5405 rdurrhei[at]csir.co.za raymond.durrheim[at]wits.ac.za
<b>DUSHI</b> Prof. Asoc. Edmond <i>Contact Person, Adhering Organization; Secretary, National Committee IASPEI Alternate National Correspondent</i>	Universiteti Politeknik i Tiranes Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 e.dushi[at]geo.edu.al edmonddushi[at]yahoo.com
<b>DWIVEDI</b> Dr. Ravindra <i>ECC Representative, IAHS ICT</i>	USDA-ARS Southwest Watershed Research Center & Designated Campus Colleague School of Natural Resources and the Environment The University of Arizona 2000 E. Allen Road Tucson, AZ, 85719 USA	T: 1 520 647 2786 ravindradwivedi[at]email.arizona.edu

<b>DZHAMALOV</b> Dr. Roald G. <i>IAHS National Correspondent</i>	Russian Academy of Sciences (RAS) Institute of Water Problems 3 Gubkin st. 119333 Moscow RUSSIA	T: 7 499 783 3757 F: 7 499 135 5415 dzhama[at]aqua.laser.ru
<b>EBINGER</b> Prof. Dr. Cynthia J <i>Advisory Board, SCL/ILP</i>	Marshall-Heape Chair School of Science and Engineering 204 Blessey Hall Tulane University New Orleans, LA USA	T: 1 504 862 3201 cebinger[at]tulane.edu
<b>EBMEIER</b> Dr. Susanna <i>Chair (IAG), IAG/IAVCEI Sub- Commission on Volcano Geodesy</i>	University of Leeds School of Earth and Environment Woodhouse Lane Leeds, LS2 9JT UK	S.K.Ebmeier[at]leeds.ac.uk
<b>EDMONDS</b> Prof. Marie <i>Editor, IAVCEI Bulletin of Volcanology</i>	University of Cambridge Department of Earth Sciences Cambridge, CB3 9ET UK	me201[at]cam.ac.uk
<b>EICKER</b> Prof. Dr. Annette <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i> <i>President, IAG Inter-Commission Committee for Climate Research (ICCR)</i>	HafenCity University Hamburg Geodesy and Geoinformatics Überseeallee 16 20457 Hamburg GERMANY	T: 49 40 42827 5216 annette.eicker[at]hcu-hamburg.de
<b>EISEN</b> Prof. Dr. Olaf <i>IACS National Correspondent</i>	Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung & Universität Bremen Columbusstr. 27568 Bremerhaven GERMANY	T: 49 471 4831 1969 F: 49 471 4831 1271 Olaf.Eisen[at]awi.de
<b>ELASMER</b> Eng. Osama <i>Contact Person, Adhering Organization</i>	Deputy Director General Royal Jordanian Geographic Centre 92, Ahmad Tarawneh Str. P.O. Box 414 Al Jubayha, 11941 JORDAN	T: 962 6 534 5188 F: 962 6 534 7694 Osama_Elasmer[at]yahoo.com
<b>EL BILALI</b> Dr. Hafida <i>Co-Leader, IAVCEI Commission on Large Igneous Provinces</i>	Carleton University 1125 Colonel By drive Ottawa, ON, K1S 5B6 CANADA	T: 1 613 2625042 hafidaelbilali[at]cunet.carleton.ca
<b>EL-GABRY</b> Prof. Mohamed Nabil <i>First Vice-President, IASPEI African Seismological Commission (AfSC)</i>	Egyptian National Data Center (ENDC) National Research Institute of Astronomy and Geophysics (NRIAG) EL Marsad Street 1 Helwan, Cairo EGYPT	T: 202 01005850033 elgabry[at]nriag.sci.eg elgabrymn[at]gmail.com
<b>ELGER</b> Dr. Kirsten <i>IUGG Liaison, ISC Committee on Data for Science and Technology (CODATA) and World Data System (WDS)</i>	GFZ Helmholtz Centre for Geosciences Data and Information Management Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 2822 kirsten.elger[at]gfz.de
<b>EL-HADY</b> Prof. Dr. Sherif Mohamed <i>IASPEI National Correspondent</i>	National Research Institute of Astronomy and Geophysics (NRIAG) Seismology Dep. Helwan, Cairo EGYPT	T: 20 100 288 6461 T: 20 2 25560645 F: 20 2 2554 8020 sherif_elhady[at]nriag.sci.eg shsh11s[at]yahoo.com
<b>ELIAS</b> Dr. Ana G. <i>Co-Chair, IAGA Working Group II-F</i>	ACET, Universidad Nacional de Tucuman Av. Independencia 1800 4000 Tucuman ARGENTINA	aelias[at]herrera.unt.edu.ar
<b>ELLMANN</b> Prof. Artu <i>IAG National Correspondent</i>	Department of Civil Engineering and Architecture Tallinn University of Technology Ehitajate tee 5 19086 Tallinn ESTONIA	T: 372 620 2603 artu.ellmann[at]ttu.ee
<b>EL-QADY</b> Prof. Dr. Gad Mohamed <i>President, National Committee IAGA National Correspondent</i>	National Research Institute of Astronomy and Geophysics Helwan, Cairo EGYPT	T: 20 2 2554 1100 T: 20 100 154 7090 F: 20 2 2554 8020 gadosan[at]nriag.sci.eg gadosan[at]yahoo.com

<b>ENGWELL</b> Dr. Samantha <i>IUGG Liaison, International Civil Aviation Organization (ICAO)</i>	British Geological Survey The Lyell Centre Research Avenue South Edinburgh, EH14 4AP UK	sameng[at]bgs.ac.uk
<b>EPPELBAUM</b> Dr. Lev <i>IAGA National Correspondent</i>	Department of Geophysics Raymond & Beverly Sackler Faculty of Exact Sciences Tel Aviv University Ramat Aviv 6997801 Tel Aviv ISRAEL	T: 972 3 6405086 F: 972 3 6409282 levap[at]tauex.tau.ac.il
<b>ERNST</b> Dr. Richard E. <i>Leader, IAVCEI Commission on Large Igneous Provinces</i>	Ernst Geosciences 43 Margrave Ave. Ottawa, ON, K1T 3Y2 CANADA	T: 1 613 733 0887 T: 1 613 295 7955 (mobile) Richard.Ernst[at]ErnstGeosciences.com
<b>ESSERY</b> Prof. Richard <i>Secretary General, IACS</i>	School of Geosciences The University of Edinburgh Edinburgh, EH9 3FF UK	T: 44 131 651 9093 richard.essery[at]ed.ac.uk
<b>EVEN-TZUR</b> Dr. Gilad <i>IAG National Correspondent</i>	Technion - Israel Institute of Technology Faculty of Civil and Environmental Engineering Division of Mapping and Geo-Information Engineering Haifa, 32000 ISRAEL	T: 972 4 829 3459 F: 972 4 823 4757 eventzur[at]tx.technion.ac.il
<b>EZEIGBO</b> Prof. Christian U. <i>Immediate Past President, National Committee</i>	24 Council Cresc. Unilag Magodo Estate Lagos NIGERIA	T: 234 806 606 6297 christianezeigbo[at]yahoo.com
<b>FAGUNDES</b> Dr. Paulo Roberto <i>Co-Chair, IAGA Working Group II-E</i>	Universidade do Vale do Paraiba (UNIVAP) Avenida Shishima Hifumi, 2911 São José dos Campos, SP, 12244-000 BRAZIL	T: 55 12 3947 1130 F: 55 12 3947 1149 fagundes[at]univap.br
<b>FAISAL</b> Dr. Nadeem <i>IAGA National Correspondent</i>	Deputy Director Climate Data Processing Centre Pakistan Meteorological Department Meteorological Complex P.O. Box 8604 University Road Karachi, 75720 PAKISTAN	T: 92 21 9926 1412 F: 92 21 9926 1412 pmdodpc[at]khi.paknet.com.pk
<b>FAURE</b> Ing. Jorge <i>Second Vice-President, National Committee</i>	Universidad de la República Facultad de Ingeniería Av. Julio Herrera y Reissig 565 Montevideo URUGUAY	T: 598 99924720 Jorge.faure[at]gmail.com
<b>FERNANDEZ</b> Dr. Walter <i>Secretary General, National Committee</i>	University of Costa Rica School of Physics 2060 San José COSTA RICA	T: 506 8991 7265 walter2109[at]gmail.com
<b>FERRANDIZ</b> Prof. Jose M. <i>Vice-President, IAG Commission 3: Earth Rotation and Geodynamics</i>	University of Alicante Escuela Politécnica Superior Campus de San Vicente PO Box 99 03080 Alicante SPAIN	jm.ferrandiz[at]ua.es
<b>FERRONE</b> Dr. Andrew <i>IAMAS National Correspondent</i>	Admin. des Services Techn. de l'Agriculture Service Météorologique 16, route d'Esch 1470 Luxembourg LUXEMBOURG	T: 352 457 172 322 M: 352 661 381 982 Andrew.ferrone[at]asta.etat.lu
<b>FICHEFET</b> Prof. Thierry <i>IAPSO National Correspondent</i>	Université catholique de Louvain Georges Lemaître Centre for Earth and Climate Research Earth and Life Institute Chemin de Cyclotron 2 bte L7.01.11 1348 Louvain-la-Neuve BELGIUM	T: 32 10 473 295 F: 32 10 474 722 thierry.fichefet[at]ucouvain.be

<b>FINZI</b> Ms. Galia <i>Contact Person, Adhering Organization</i>	International Relations Department The Israel Academy of Sciences and Humanities 43 Jabotinsky Street P.O.B 4040 9104001 Jerusalem ISRAEL	galia[at]academy.ac.il
<b>FISCHER</b> Dr. Svenja <i>Secretary, IAHS ICSH</i>	Department of Engineering Hydrology and Water Resource Management Ruhr-University Bochum 44801 Bochum GERMANY	T: 49 234 3228961 svenja.fischer[at]hydrology.ruhr-uni-bochum.de
<b>FISCHER</b> Prof. Tobias <i>Co-Leader, IAVCEI Commission on the Chemistry of Volcanic Gases</i>	University of New Mexico Department of Earth and Planetary Sciences Albuquerque, NM, 87131 USA	T: 1 505 2770683 fischer[at]unm.edu
<b>FITZPATRICK</b> Ms. Katy <i>IAG National Correspondent</i>	Ordnance Survey Office Phoenix Park Dublin, 8 IRELAND	T: 353 1 8852465 F: 353 1 820 4156 katy.fitzpatrick[at]osi.ie
<b>FLORES</b> Ms. Yelba <i>Secretary, National Committee</i>	CIRA UNAN ENITEL Villa Fontana, 400 m al norte Apartado Postal 4598 Managua NICARAGUA	T: 505 22786981 yelba.flores[at]cira.unan.edu.ni yelba_ni[at]yahoo.com
<b>FLOSSMANN</b> Prof. Emeritus Andrea <i>IUGG Liaison, ISC Scientific Committee on Oceanic Research (SCOR)</i> President, IAMAS <i>IAMAS National Correspondent</i>	Université Clermont-Auvergne Laboratoire de météorologie physique 4 avenue Blaise Pascal 63178 Aubière Cedex FRANCE	Andrea.flossmann[at]uca.fr
<b>FONTES</b> Dr. Sérgio Luiz <i>IAGA National Correspondent</i>	Observatório Nacional Geophysics Dept. Rua General José Cristino, 77 São Cristovão Rio de Janeiro, RJ, 20921-400 BRAZIL	T: 55 21 2580 0332 F: 55 21 2580 7081 sergio[at]on.br
<b>FONTIJN</b> Prof. Karen <i>Co-Leader, IAVCEI International Network for VOLcanology Collaboration (INVOLC)</i>	Université libre de Bruxelles Av. Franklin Roosevelt 50 1050 Bruxelles BELGIUM	T: 32 2 6502237 Karen.Fontijn[at]ulb.be
<b>FOROUGHI</b> Dr. Ismael <i>IAG National Correspondent</i>	Canadian Geodetic Survey Surveyor General Branch Pacific Geoscience Centre 9860 W Saanich Road Sidney, BC, V8L 4B2 CANADA	T: 1 343 553 8638 ismael.foroughi[at]nrcan-rncan.gc.ca
<b>FÖRSTER</b> Dr. Andrea <i>Secretary, IASPEI/IAVCEI International Heat Flow Commission</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg, Bldg A69 14473 Potsdam GERMANY	T: 49 331 6264 1242 andrea.foerster[at]gfz.de
<b>FOURNIER</b> Prof. Alexandre <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAG Representative</i>	Institut de Physique du Globe de Paris 1 rue Jussieu 75238 Paris cedex 05 FRANCE	T: 33 1 83 95 74 75 fournier[at]ipgp.fr
<b>FRASER</b> Dr. Alex <i>Deputy Head, IACS Division IV</i>	Australian Antarctic Program Partnership 20 Castray Esplanade Battery Point Tasmania, 7004 AUSTRALIA	Alexander.Fraser[at]utas.edu.au
<b>FREYMUELLER</b> Dr. Jeffrey <i>Editor in Chief, IAG Symposia Series</i>	Thomas A. Vogel Endowed Chair for Geology of the Solid Earth Dept. of Earth and Environmental Sciences Michigan State University 288 Farm Lane, Rm 207 East Lansing, MI, 48824 USA	freymuel[at]msu.edu
<b>FRIŠFELDS</b> Dr. phys. Vilnis <i>IAPSO National Correspondent</i>	University of Latvia Jelgavas Street 3 1004 Riga LATVIA	T: 371 26549689 frishfelds[at]latnet.lv

<b>FRITZ</b> Dr. Ingomar <i>IAVCEI National Correspondent</i>	Universalmuseum Joanneum Weinzötlstraße 16 8045 Graz <b>AUSTRIA</b>	T: 43 316 8017 9731 ingomar.fritz[at]museum-joanneum.at
<b>FUBARA</b> Emeritus Prof. Dagogo M.J. <i>President, National Committee</i>	Rivers State University Department of Surveying and Geomatics Nkpolu - Oroworukwo P.M.B. 5080 Port Harcourt, Rivers State <b>NIGERIA</b>	T: 234 803 3102 782 karialaconsult[at]yahoo.com dagogomj[at]yahoo.com
<b>FUCHS</b> Dr. Sven <i>Vice-Chair, IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam <b>GERMANY</b>	T: 49 331 6264 1713 sven.fuchs[at]gfz.de
<b>FÜLLEKRUG</b> Dr. Martin <i>Chair, IAGA Working Group II-A</i>	University of Bath Department of Electronic and Electrical Engineering Bath, BA2 7AY UK	T: 44 1225 386 053 F: 44 1225 386 305 eesmf[at]bath.ac.uk
<b>FURUYA</b> Prof. Masato <i>Member-at-Large, IAG Executive Committee</i> <i>Vice-Chair, National Committee</i> <i>IAG National Correspondent</i>	Hokkaido University Department of Earth and Planetary Sciences N10W8, Kita-ku Sapporo, 060-0810 <b>JAPAN</b>	T: 81 11 706 2759 furuya[at]sci.hokudai.ac.jp
<b>GADJEV</b> Prof. Dr. Georgi <i>IAMAS National Correspondent</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev str., bl. 3 1113 Sofia <b>BULGARIA</b>	T: 359 2 9793 302 F: 359 2 9713 005 ggadjev[at]geophys.bas.bg
<b>GAHALAUT</b> Dr. Vineet K. <i>Chair, National Committee</i> <i>IASPEI &amp; IAVCEI National Correspondent</i> <i>Nationally Accredited Council Delegate (2024-2026)</i>	National Geophysical Research Institute (CSIR-NGRI) Uppal Road Hyderabad, 500 007 <b>INDIA</b>	vkgahalaut[at]yahoo.com
<b>GALBRAITH</b> Dr. Peter <i>IAPSO National Correspondent</i>	Maurice Lamontagne Institute Dept. of Fisheries and Oceans Pelagic and Ecosystem Science Branch P.O. Box 1000 Mont-Joli, QC, G5H 3Z4 <b>CANADA</b>	T: 1 418 775 0852 Peter.Galbraith[at]dfo-mpo.gc.ca
<b>GÁLIS</b> Assoc. Prof. Martin <i>IASPEI National Correspondent</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynská Dolina F1 842 48 Bratislava <b>SLOVAK REPUBLIC</b>	T: 421 2 6029 5327 F: 421 2 6542 5982 martin.galis[at]uniba.sk
<b>GALLACHER</b> Dr. Ryan J. <i>Chair, IASPEI Working Group on Reference Events for Improved Locations</i>	International Seismological Centre Pipers Lane Thatcham, Berkshire, RG19 4NS <b>UK</b>	T: 44 1635 861 022 ryan[at]isc.ac.uk
<b>GALLANT</b> Dr. Lis <i>IAVCEI Advisory Board, EDI advisor</i> <i>Co-Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	U.S. Geological Survey – Hawaiian Volcano Observatory Big Island, Hawaii <b>USA</b>	egallant[at]usgs.gov
<b>GALTON-FENZI</b> Dr. Ben <i>IACS National Correspondent</i>	Australian Antarctic Division Channel Highway Kingston, TAS, 7050 <b>AUSTRALIA</b>	T: 61 4 2876 0210 Ben.Galton-Fenzi[at]aad.gov.au
<b>GAMAZO</b> Dr. Ing. Pablo <i>IAHS National Correspondent</i>	Universidad de la República Centro Universitario Regional Litoral Norte Gral. Rivera 1350 Salto <b>URUGUAY</b>	T: 598 473 20410 3105 pablogamazo[at]gmail.com
<b>GANSUNGNOEN, RTN.</b> Capt. Sanit <i>IAPSO National Correspondent</i>	Director Oceanographic Division Hydrographic Department Royal Thai Navy Arun Amarin Road Bangkok, 10600 <b>THAILAND</b>	T: 66 2 475 7018 F: 66 2 399 5257 sanit.gan[at]navy.mi.th

<b>GARAEBITI Bule</b> Dr. Eslina <i>Co-Leader, IAVCEI International Network for Volcanology Collaboration (INVOLC)</i>	Vanuatu Meteorology and Geo-hazards Department Port Vila VANUATU	T: 678 7747970 gesline[at]vanuatu.gov.vu
<b>GARCÍA ASENSIO</b> Mr. Lorenzo <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Director General Instituto Geográfico Nacional Calle General Ibañez de Ibero, 3 28071 Madrid SPAIN	T: +34 91 597 94 11/12 F: +34 91 597 97 53 director.ign[at]mitma.es
<b>GARCÍA REYNOSO</b> Dr. Agustín <i>IAMAS National Correspondent</i>	Instituto de Ciencias de la Atmósfera y Cambio Climático, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 5622 4396 F: 52 55 5616 0789 agustin[at]atmosfera.unam.mx
<b>GARDARSSON</b> Dr. Sigurdur M. <i>IAHS National Correspondent</i>	University of Iceland VRII, Hjardarhagi 2-6 107 Reykjavik ICELAND	T: 354 525 4700 F: 354 525 4632 sigmg[at]hi.is
<b>GARNERO</b> Prof. Ed <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Arizona State University School of Earth and Space Exploration PO Box 871404 85287-1404 Tempe, AZ USA	T: 1 480 965 7653 garnero[at]asu.edu
<b>GASPARINI</b> Sara <i>Co-Chair, IAGA Interdivisional Commission on Education and Outreach</i>	Department of Physics and Technology University of Bergen NORWAY	Sara.Gasparini[at]uib.no
<b>GASPAROVIC</b> Assoc. Prof. Dr. Mateo <i>IAG National Correspondent</i>	Faculty of Geodesy University of Zagreb Savksa cesta 144a 10000 Zagreb CROATIA	T: 385 1 463 9223 mateo.gasparovic[at]geof.hr
<b>GAUME</b> Prof. Dr. Johan <i>Member, IUGG Awards Committee</i>	Department of Civil, Environmental and Geomatic Engineering ETH Zürich Stefano-Francini-Platz 5 Zürich, 8093 SWITZERLAND	johan.gaume[at]igt.baug.ethz.ch johan.gaume[at]gmail.com
<b>GELADZE</b> Dr. Vakhtang <i>IAHS National Correspondent</i>	Javakhishvili Tbilisi State University V. Bagrationi Institute of Geography 0171 Tbilisi GEORGIA	T: 995 32 439 540 gigigeladze[at]gmail.com
<b>GELLIS</b> Dr. Allen <i>Vice-President, IAHS ICCE</i>	U.S. Geological Survey 5522 Research Park Drive Baltimore, MD, 21228 USA	T: 1 443 4985581 agellis[at]usgs.gov
<b>GEORGE</b> Dr. Christian <i>Vice-President IAMAS ICACGP</i>	Institute of Research on Catalysis and the Environment of Lyon CNRS, University of Lyon 1 Lyon FRANCE	christian.george[at]ircelyon.univ-lyon1.fr
<b>GERA</b> Assoc. Prof. Martin <i>Member, National Committee</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynská dolina F1 842 48 Bratislava SLOVAK REPUBLIC	T: 421 2 6029 5863 F: 421 2 6542 5882 Martin.Gera[at]fmph.uniba.sk
<b>GESHI</b> Dr. Nobuo <i>Member, IAVCEI Executive Committee</i>	Geological Survey of Japan National Institute of Advanced Industrial Science and Technology 1-1-1 Umezono, Tsukuba Ibaraki JAPAN	geshi-nob[at]aist.go.jp
<b>GEV</b> Dr. Israel <i>IAHS National Correspondent</i>	Water Authority of Israel Water Resources Planning Department 14, Hamasger Street Tel Aviv, 61203 ISRAEL	T: 972 50 622 1208 (mobile) israelg10[at]water.gov.il

<b>GHAFORY-ASHTIANY</b> Prof. Mohsen <i>Executive Committee Member &amp; IASPEI Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	International Institute of Earthquake Engineering and Seismology (IIEES) Iran Academy of Science 21 Arghavan St. North Dibajie, Farmanieh, 19583 Tehran IRAN	T: +98 21 2283 0830 mohsen.ashtiany[at]gmail.com ashtiany[at]iiees.ac.ir
<b>GHANATI</b> Dr. Reza <i>IAHS National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 rghanati[at]ut.ac.ir
<b>GIARDINI</b> Prof. Domenico <i>IASPEI Representative Member, Union Commission on Climatic and Environmental Change (CCEC)</i>	ETH Zurich Institute of Geophysics NO H 69.1 Sonneggstrasse 5 8092 Zurich SWITZERLAND	T: 41 44 633 2610 T: 41 79 2227158 domenico.giardini[at]erdw.ethz.ch
<b>GILDOR</b> Prof. Hezi <i>IAPSO National Correspondent</i>	The Hebrew University The Fredy & Nadine Herrmann Institute of Earth Sciences Edmond J. Safra Campus, Givat Ram Jerusalem, 91904 ISRAEL	T: 972 2 6584393 F: 972 3 5662584 bezi.gildor[at]huji.ac.il
<b>GILLET</b> Dr. Nicolas <i>Chair, IAGA Division I</i>	University Grenoble Alpes ISTerre CNRS 38041 Grenoble FRANCE	nicolas.gillet[at]univ-grenoble-alpes.fr
<b>GLIKO</b> Dr. Alexander O. <i>IASPEI National Correspondent</i>	Russian Academy of Sciences (RAS) Presidium 32a Leninsky ave 119991 Moscow RUSSIA	T: 7 495 938 0940 F: 7 495 938 1859 geodep[at]ipsun.ras.ru
<b>GODIN-BEEKMANN</b> Dr. Sophie <i>President, IAMAS IO3C</i>	LATMOS (UVSQ, UMPC, CNRS) UPMC, 4 Place Jussieu 75252 Paris, cedex 05 FRANCE	T: 33 1 44 27 47 67 T: 33 6 77 18 38 64 sophie.godin-beekmann[at]latmos.ipsl.fr
<b>GONZÁLEZ Barros</b> Maj. Alejandro <i>IAG National Correspondent</i>	Sección Geodésica Instituto Geográfico Militar de Chile - IGM Nueva Santa Isabel 1651 Santiago CHILE	T: 56 2 2410 9321 agonzalez[at]igm.cl
<b>GONZALO-RIVERA</b> Ing. Hebert <i>IAHS National Correspondent</i>	Instituto de Hidrología, Meteorología y Estudios Ambientales (IDEAM) Subdirección de Hidrología Carrera 10 No. 20-30 Bogotá, D.C. COLOMBIA	T: 57 1 352 7160 ext. 2119 F: 57 1 352 7160 ext. 1628 hidrologia[at]ideam.gov.co hebert[at]ideam.gov.co
<b>GORDEZIANI</b> Dr. Tengiz <i>IAG National Correspondent</i>	Associate Professor Javakhishvili Tbilisi State University 0160 Tbilisi GEORGIA	T: 995 32 717 046 F: 995 32 222 110 1277 tengizgordeziani[at]gmail.com
<b>GRAHAM</b> Mr. Omari <i>Representative, IAVCEI Early-Career Researchers Network (ECR-Net); Co-Leader, IAVCEI International Network for VOLcanology Collaboration (INVOLC)</i>	The University of the West Indies Seismic Research Centre St Augustine, Tunapuna-Piarco TRINIDAD AND TOBAGO	omari.graham[at]sta.uwi.edu
<b>GREEN</b> Prof. Dr. Alan G. <i>Honorary President ILP</i>	ETH Zurich Hönggerberg 8093 Zurich SWITZERLAND	T: 41 1 633 2657 F: 41 1 633 1065 alan[at]aug.ig.erdw.ethz.ch
<b>GREENSLADE</b> Dr. Diana <i>Vice-Chair, IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	Australian Bureau of Meteorology GPO Box 1289 Melbourne, VIC, 3001 AUSTRALIA	T: 61 3 9669 4124 diana.greenslade[at]bom.gov.au
<b>GREKULOVIĆ</b> Dr. Sanja <i>Member, National Committee</i>	Department of Geodesy and Geoinformatics Faculty of Civil Engineering University of Belgrade Bulevar kralja Aleksandra 73 11000 Belgrade SERBIA	T: 381 11 3218 583 F: 381 11 3370 223 sanjag[at]grf.bg.ac.rs

<b>GREW</b> Dr. Priscilla C. <i>Member, IUGG Finance Committee</i>	Professor and Director Emerita University of Nebraska State Museum of Natural History Nebraska Hall W436 Lincoln, NE, 68588-0514 USA	pgrew1[at]unl.edu
<b>GRIBOVSZKI</b> Prof. Dr. Zoltan <i>IAHS National Correspondent</i>	University of Sopron Faculty of Forestry Institute of Geomatics and Civil Engineering P.O.Box 132 9401 Sopron HUNGARY	T: 36 99 518 314 T: 36 20 271 0096 gribovszki.zoltan[at]uni-sopron.hu
<b>GRIMALDI</b> Prof. Salvatore <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i> <i>President-Elect, IAHS</i>	DIBAF Department University of Tuscia Via San Camillo De Lellis 01100 Viterbo VT ITALY	T: 39 0761 357326 salvatore.grimaldi[at]unitus.it
<b>GROBBELAAR</b> Ms. Michelle <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>President, IASPEI</i> <i>Secretary General, IASPEI African Seismological Commission (AfSC); Chair, International Federation of Digital Seismograph Networks (FDSN)</i>	CTBTO CTBTO Preparatory Commission P.O. Box 1200 1400 Vienna AUSTRIA	T: 43 1 26030 6380 Michelle.GROBBELAAR[at]ctbto.org
<b>GROSS</b> Dr. Richard S. <i>Member, IUGG Awards Committee</i> <i>President, IAG</i>	Jet Propulsion Laboratory Mail Stop 238-600 4800 Oak Grove Drive Pasadena, CA, 91109 USA	richard.s.gross[at]jpl.nasa.gov
<b>GUALDA</b> Prof. Guilherme <i>Co-Leader, IAVCEI Commission on Collapse Calderas</i>	Vanderbilt University Department of Earth and Environmental Sciences Nashville, Tennessee USA	T: 1 615 3222976 g.gualda[at]vanderbilt.edu
<b>GUBA</b> Assoc. Prof. Peter <i>Member, National Committee</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynska dolina F1 842 48 Bratislava SLOVAK REPUBLIC	T: 421 2 6029 5724 F: 421 2 6542 5882 Peter.Guba[at]fmph.uniba.sk
<b>GUDMUNDSSON</b> Dr. Magnús Tumi <i>IAVCEI National Correspondent</i>	University of Iceland Askja room N-332 Sturlugata 7 101 Reykjavík ICELAND	T: 354 525 5867 F: 354 562 9767 mtg[at]hi.is
<b>GUILBAUD</b> Dr. Marie-Noelle <i>Leader, IAVCEI Commission on Monogenetic Volcanism</i>	Universidad Nacional Autonoma de Mexico Instituto de Geofisica Coyoacán México DF MEXICO	T: 5255 56224119 ext12 m.guilbaud[at]geofisica.unam.mx
<b>GUIMARÃES</b> Prof. Gabriel do Nascimento <i>IAG National Correspondent</i>	Universidade Federal de Uberlândia Faculdade de Engenharia Civil Av. João Naves de Ávila, 2121 – Bloco 1Y Uberlândia, MG, 38400-902 BRAZIL	T: 55 34 3239 4159 gabriel[at]ufu.br
<b>GULEMVUGA</b> Ir. Georges <i>IAHS National Correspondent</i>	Director of Water Resources International Commission for Congo Basin (CICOS) Bilding Kilou - 24th Avenue Wagenia Kinshasa/Gombe D.R. CONGO	T: 243 81 897 0966 georges_gul[at]yahoo.fr
<b>GULIYEV</b> Prof. Dr. Eyyub <i>IAGA National Correspondent</i>	Former Director, Shemakha Astrophysics Observatory, T: 994 12 497 5268 ANAS Y. Mammadaliyev Settlement AZ 5618 Shemakha AZERBAIJAN	T: 994 176 61000
<b>GULIYEV</b> Acad. Prof. Ibrahim <i>President, National Committee</i>	ANAS Vice-President ANAS Presidium Istiglaliyyat Str, 30 AZ 1001 Baku AZERBAIJAN	T: 994 12 492 3243 F: 994 12 492 5699 i.s.guliyev[at]gmail.com

<b>GUNAWAN</b> Dr. Ir. Hendra <i>IAVCEI National Correspondent</i>	Ministry of Energy and Mineral Resources Geological Agency Center for Volcanology and Geological Hazard Mitigation Jl. Diponegoro No. 57 Bandung, 40122 INDONESIA	T: 62 22 727 2606 T: 62 813 2178 7745 F: 62 22 727 2761 hendrapvmbg@gmail.com
<b>GUNDRUM</b> Ms. Katrin <i>Assistant Executive Secretary, IUGG</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg A17 14473 Potsdam GERMANY	T: 49 331 6264 1102 gundrum[at]gfz.de
<b>GUO</b> Prof. Dr. Zhengfu <i>IAVCEI National Correspondent</i>	Institute of Geology and Geophysics Chinese Academy of Sciences No. 19 Beitucheng Xilu, Chaoyang Beijing, 100029 CHINA	T: 86 10 8299 8393 F: 86 10 6201 0846 zfguo[at]mail.igcas.ac.cn
<b>GUPTA</b> Prof. Harsh K. <i>Past President, IUGG (2011-2015)</i> <i>Lifetime Bureau Member, SCL/ILP</i>	Distinguished Professor National Geophysical Research Institute (NGRI) Uppal Road Hyderabad, 500 007 INDIA	T: 91 40 27012600 F: 91 40 27012866 harshg123[at]gmail.com harshndma[at]gmail.com
<b>GUPTA</b> Dr. Sandeep Kumar <i>Second Vice-President, IASPEI Asian Seismological Commission (ASC)</i>	CSIR-National Geophysical Research Institute (NGRI) Uppal Road Hyderabad-500007 Telangana INDIA	sandeepgupta[at]ngri.res.in
<b>GURUBARAN</b> Prof. S. <i>IAGA National Correspondent</i>	Indian Institute of Geomagnetism Mumbai Headquarter (Panvel Campus) Plot 5, Sector 18, Near Kalamboli Highway New Panvel Navi Mumbai, 410 218 INDIA	gurubaran.s[at]iigm.res.in su.gurubaran[at]gmail.com
<b>GUSIAKOV</b> Prof. Vyacheslav K. <i>Vice-Chair, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Institute of Computational Mathematics and Mathematical Geophysics Russian Academy of Sciences Lavrentieva 6 Novosibirsk, 630090 RUSSIA	T: 7 383 330 7070 F: 7 383 330 8783 gvk[at]sscc.ru
<b>GUTIÉRREZ Cisterna</b> Mr. Reinaldo <i>IAMAS National Correspondent</i>	Dirección Meteorológica de Chile Av. Portales 3450 Estación Central Santiago CHILE	T: 56 2 2436 4501 T: 56 2 2436 4527 T: 56 2 2436 4503 rgutierrez[at]dgac.cl
<b>GUZZETTI</b> Dr. Fausto <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Consiglio Nazionale delle Ricerche P.le Aldo Moro 7 00185 Roma ITALY	T: 39 340 5250840 fausto.guzzetti[at]cnr.it
<b>GVISHIANI</b> Dr. Alexei D. <i>President, National Committee</i>	Russian Academy of Sciences (RAS) Geophysical Center 3 Molodezhnaya st. 119296 Moscow RUSSIA	T: 7 495 930 0546 F: 7 495 930 0506 a.gvishiani[at]gras.ru
<b>GYAMFI</b> Dr. Charles <i>Treasurer, National Committee</i> <i>IAPSO National Correspondent</i>	IUGG-Ghana Kwame Nkrumah University of Science and Technology (KNUST) Department of Civil Engineering Kumasi GHANA	T: 233 24 3669048 Gyamficharles84[at]yahoo.com
<b>GYAMPO</b> Dr. Maxwell Anim <i>Secretary, National Committee</i> <i>IAMAS National Correspondent</i>	IUGG-Ghana University for Developmental Studies Department of Earth Science Navrongo Campus Box 24 Navrongo GHANA	T: 233 24 241481854 gyampom[at]gmail.com
<b>HAAS</b> Prof. Dr. Rüdiger <i>Chair of Directing Board, IAG International Service for Geodesy and Astrometry (IVS)</i>	Chalmers University of Technology SE- 412 96 Gothenburg SWEDEN	rudiger.haas[at]chalmers.se

<b>HABEL</b> Mr. Michał <i>Secretary, IAHS ICCE</i>	Kazimierz Wielki University Chodkiewicza 30 Bydgoszcz, 85-064 POLAND	T: 48 53 510 5104 Hydro.habel[at]ukw.edu.pl
<b>HABERLANDT</b> Prof. Dr. Uwe <i>IAHS National Correspondent</i>	Leibniz Universität Hannover Institute of Hydrology and Water Resources Management Appelstr. 9A 30167 Hannover GERMANY	T: 49 511 762 2237 F: 49 511 762 3731 haberlandt[at]iww.uni-hannover.de
<b>HADDADIN</b> Eng. Mu'ammar Kamel <i>President, National Committee</i>	Director General Royal Jordanian Geographic Centre 92, Ahmad Tarawneh Str. P.O. Box 414 Al Jubayha, 11941 JORDAN	T: 962 6 534 2223 F: 962 6 534 0371 m.haddadin[at]rjgc.gov.jo
<b>HAEFFNER</b> Prof. Melissa <i>Secretary, IAHS ICHWF</i>	Portland State University SRTC-B1-O4C 1719 SW 10th Ave Portland Oregon, 97201-3203 USA	T: 1 503 725 2497 melh32[at]pdx.edu
<b>HAGHIGHIPOUR</b> Dr. Nader <i>Vice Chair, Union Commission on Planetary Sciences (UCPS)</i>	University of Hawaii-Manoa 2680 Woodlawn Drive Honolulu, HI, 96822 USA	T: 1 808 9566098 nader[at]ifa.hawaii.edu
<b>HALENKA</b> Assoc. Prof. Dr. Tomas <i>Member, National Committee</i>	Charles University Faculty of Mathematics & Physics V Holesvickach 2 180 00 Prague 8 CZECH REPUBLIC	T: 420 221 912 514 F: 420 221 912 533 tomas.halenka[at]mff.cuni.cz
<b>HALLOUZ</b> Dr. Faiza <i>Vice-President, IAHS ICSW</i>	University of Khemis Miliana 29 Road of Theniet El Had Khemis Miliana Ain Defla ALGERIA	T: 213 66 031 9854 f.hallouz[at]univ-dbkm.dz
<b>HAMMOND</b> Prof. James <i>Chair, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	School of Natural Sciences Birkbeck, University of London Malet Street London, WC1E 7HX UK	T: 44 20 3926 1795 james.hammond[at]bbk.ac.uk
<b>HAMZIC</b> Dr. Adis <i>Secretary, National Committee</i>	University of Sarajevo Faculty of Civil Engineering Department of Geodesy and Geoinformatics Stjepana Tomica 1/Ill 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 63 996 613 hamzicadis87[at]gmail.com
<b>HAN</b> Dr. Shin-Chan <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAG Representative</i>	School of Engineering University of Newcastle University Drive Callaghan, NSW 2308 AUSTRALIA	T: 61 2 4921 5432 shin-chan.han[at]newcastle.edu.au
<b>HANDLEY</b> Dr. Heather <i>Co-Leader, IAVCEI Commission Volcano Geoheritage and Protected Volcanic Landscapes</i>	Department of Applied Earth Sciences University of Twente Enschede NETHERLANDS	h.k.handley[at]utwente.nl
<b>HANNAH</b> Prof. David M. <i>President, IAHS ICSW</i>	University of Birmingham School of Geography, Earth and Environmental Sciences Edgbaston Birmingham, B15 2TT UK	T: 44 121 414 7455 d.m.hannah[at]bham.ac.uk
<b>HANSEN</b> Associate Professor, Emeritus Aksel Walløe <i>Past Treasurer, IUGG (1999-2019)</i> <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	PICE, Physics of Ice, Climate and Earth Niels Bohr Institute University of Copenhagen Tagensvej 16 2200 Copenhagen N DENMARK	T: 45 40 94 96 25 awh[at]nbi.ku.dk

<b>HANSEN</b> Mr. Laurent <i>Contact Person, Adhering Organization</i>	Scientific Counsellor The Royal Academies for Science and the Arts of Belgium (RASAB) Hertogsstraat 1 Rue Ducale 1000 Brussels BELGIUM	T: 32 2 550 22 47 F: 32 2 550 22 16 laurent.hansen[at]rasab.be
<b>HANSROD</b> Mr. Belal D. <i>IAVCEI National Correspondent</i>	Research Scientist Mauritius Oceanography Institute France Centre Victoria Avenue Quatre Bornes MAURITIUS	T: 230 427 4434 F: 230 427 4433 belalh[at]moi.ontnet.mu
<b>HANSSEN</b> Prof. Dr. Ir. Ramon F. <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Delft University of Technology Faculty of Civil Engineering and Geosciences Department of Geoscience and Remote Sensing PO Box 5048 2600 GA Delft NETHERLANDS	T: 31 15 278 3662 r.f.hanssen[at]tudelft.nl
<b>HARANGI</b> Prof. Dr. Szabolcs <i>IAVCEI National Correspondent</i>	Eötvös University Budapest (ELTE) Faculty of Science Department of Petrology and Geochemistry Pázmány P. sétány 1/C 1117 Budapest HUNGARY	T: 36 1 372 2500 ext. 8355 harangi.szabolcs[at]ttk.elte.hu
<b>HARRIS</b> Prof. Andrew <i>Member, IUGG Resolutions Committee</i> <i>Vice-President, IAVCEI</i>	Observatoire de Physique du Globe de Clermont-Ferrand Laboratoire Magmas et Volcans Campus Universitaire des Cézeaux 6 Avenue Blaise Pascal 63178 Aubière Cedex FRANCE	T: 33 4 7334 6737 andrew.harris[at]uca.fr
<b>HARTOGH</b> Dr. Paul <i>Vice Chair, Union Commission on Planetary Sciences (UCPS)</i>	Max-Planck-Institute for Solar System Research Justus-von-Liebig-Weg 3 37077 Göttingen GERMANY	T: 49 551 384 979342 hartogh[at]mps.mpg.de
<b>HASHIMOTO</b> Prof. Takeshi <i>IAVCEI Liaison, IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes</i>	Institute of Seismology and Volcanology Faculty of Science Hokkaido University Kita 10, Nishi 8, Kita-ku Sapporo, Hokkaido, 060-0808 JAPAN	T: 81 11 706 4677 hasimoto[at]sci.hokudai.ac.jp
<b>HASLINGER</b> Dr. Florian <i>President, IASPEI European Seismological Commission (ESC)</i>	ETH Zürich Schweizer Erdbebendienst (SED) NO H 65 Soneggstrasse 5 8092 Zürich SWITZERLAND	T: +41 44 633 46 70 florian.haslinger[at]sed.ethz.ch
<b>HATAMI</b> Prof. M. R. <i>President, National Committee</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 mrhatami[at]ut.ac.ir
<b>HAUSMANN</b> Dipl.-Ing. Helmut <i>IASPEI National Correspondent</i>	GeoSphere Austria Hohe Warte 38 1190 Vienna AUSTRIA	helmut.hausmann[at]geosphere.at
<b>HAYAKAWA</b> Prof. Hisashi <i>Co-Chair, IAGA Interdivisional Commission on History</i>	Institute for Space-Earth Environmental Research Institute for Advanced Researches Nagoya University RAL Space, Science and Technology Facilities Council Rutherford Appleton Laboratory Nagoya JAPAN	hisashi[at]nagoya-u.jp
<b>HE</b> Dr. Yumei <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Chinese Academy of Sciences Institute of Geology and Geophysics Key Laboratory of the Earth's Deep Interior No.19 Beitucheng West Road Chaoyang District, Beijing, 100029 CHINA	T: 86 13641336998 ymhe[at]mail.igcas.ac.cn

<b>HEAL</b> Prof. Kate <i>Treasurer, IAHS</i>	The University of Edinburgh School of GeoSciences Crew Building Alexander Crum Brown Road Edinburgh, EH9 3FF UK	T: 44 131 650 5420 k.heal[at]ed.ac.uk
<b>HEIDARZADEH</b> Dr. Mohammad <i>Secretary, IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	University of Bath Claverton Down Road Bath, BA2 7AY UK	mhk58[at]bath.ac.uk
<b>HEKI</b> Prof. Kosuke <i>Executive Committee Member &amp; IAG Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Hokkaido University Department of Earth & Planetary Sciences N10, W8, Kita-ku Sapporo, 060-0810 JAPAN	F: 81 11 706 3826 heki[at]sci.hokudai.ac.jp
<b>HELFFRICH</b> Prof. George <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Earth-Life Science Institute Tokyo Institute of Technology 2-12-1-IE-1, Ookayama, Meguro-ku Tokyo, 152-8550 JAPAN	T: 81 3 5734 3434 george[at]elsi.jp
<b>HERMES</b> Prof. Juliet <i>Member, IAPSO Executive Committee</i>	National Research Foundation's South African Environmental Observation Network and Department of Oceanography University of Cape Town Foretrust Building, Martin Hammerslag Way Cape Town SOUTH AFRICA	T: 27 834729159 jc.hermes[at]saeon.nrf.ac.za
<b>HERNDL</b> Prof. Dr. Gerhard J. <i>IAPSO National Correspondent</i>	University of Vienna Dept. of Functional and Evolutionary Ecology Djerassiplatz 1 1030 Vienna AUSTRIA	T: 43 1 4277 764 31 F: 43 1 4277 8764 01 gerhard.herndl[at]univie.ac.at
<b>HERRERA ZAMARRÓN</b> Dra. Graciela <i>IAHS National Correspondent</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 5622 4131 ext. 128 ghz[at]igeofisica.unam.mx
<b>HERRING</b> Dr. Thomas A. <i>Service Representative, IAG Executive Committee</i>	Massachusetts Institute of Technology Department of Earth, Atmospheric and Planetary Sciences Rm 54-322 77 Massachusetts Avenue Cambridge, MA, 02139 USA	tah[at]mit.edu
<b>HERZFELD</b> Ass. Prof. Dr. Ute <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	Department of Electrical, Computer, and Energy Engineering 3100 Marine Street 80309 Boulder, CO USA	T: 1 303 249 0994 T: 1 303 492 9066 Ute.Herzfeld[at]colorado.edu uch5678[at]gmail.com
<b>HIBIYA</b> Prof. Toshiyuki <i>Vice-President, IAPSO</i>	Tokyo University of Marine Science and Technology (TUMSAT) 4-5-7 Konan, Minato-ku (Tokyo) Tokyo, 108-8477 JAPAN	T: 81 80 4050 4303 hibiya[at]eps.s.u-tokyo.ac.jp
<b>HIDALGO</b> Dr. Hugo <i>IAHS National Correspondent</i>	University of Costa Rica Center for Geophysical Research 2060 San José COSTA RICA	T: 506 2511 5096 hugo.hidalgo[at]ucr.ac.cr
<b>HIDALGO</b> Mrs. Silvana <i>Co-Leader, IAVCEI Commission on Volcanic Gases</i>	Escuela Politécnica Nacional (EPN) Instituto Geofísico Ladron de Guevara E11-253 Apartado 2759 Quito ECUADOR	T: 593 02 2225655 ext. 7052 shidalgo[at]igepn.edu.ec
<b>HLAVČOVÁ</b> Prof. Kamila <i>Member, National Committee</i>	Slovak University of Technology Faculty of Civil Engineering Radlinského 11 810 05 Bratislava SLOVAK REPUBLIC	T: 421 2 32 888 620 kamila.hlavcova[at]stuba.sk

<b>HOCK</b> Dr. Regine <i>Vice-President, IACS</i>	University of Oslo Department of Geosciences Postboks 1047 Blindern 0316 Oslo NORWAY	T: 47 22855804 regine.hock[at]geo.uio.no
<b>HODGETTS</b> Dr. Alastair <i>Co-Leader, IAVCEI Commission on Tephra Hazard Modelling</i>	The University of Edinburgh School of Geosciences James Hutton Road Edinburgh UK	ahodgett[at]ed.ac.uk
<b>HODGSON</b> Dr. Jim <i>IAGA National Correspondent</i>	Geological Survey Ireland Department of the Environment, Climate and Communications Block 1, Booterstown Hall, Booterstown Blackrock, Co Dublin, A94 N2R6 IRELAND	T: 353 1 6782064 T: 353 87 288 4195 Jim.Hodgson[at]gsi.ie
<b>HOELZEMANN</b> Dr. Judith <i>Vice-President, IAMAS ICACGP</i>	Department of Atmospheric and Climate Sciences (DCAC) Federal University of Rio Grande do Norte (UFRN) Natal, RN BRAZIL	judith.hoelzemann[at]gmail.com judith.hoelzemann[at]ufrn.br
<b>HOLBROOK</b> Prof. Dr. Neil <i>Member, IUGG Statutes and By-Laws Committee</i>	Institute for Marine and Antarctic Studies University of Tasmania Hobart, TAS, 7001 AUSTRALIA	neil.holbrook[at]utas.edu.au
<b>HOLKO</b> Dr. Ladislav <i>Member, National Committee</i>	Slovak Academy of Sciences Institute of Hydrology Dubravská cesta 9 814 04 Bratislava SLOVAK REPUBLIC	T: 421 911 554 223 holko[at]uh.savba.sk
<b>HOLM</b> Lektor Paul Martin <i>IAVCEI National Correspondent</i>	Geological Museum Øster Voldgade 5-7 1350 Copenhagen K DENMARK	T: 45 3532 2360 F: 45 3532 2325 akp[at]savik.geomus.ku.dk
<b>HOLME</b> Prof. Richard <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	University of Liverpool Department of Earth, Ocean and Ecological sciences Liverpool, L69 3GP UK	T: 44 151 794 5254 R.T.Holme[at]liverpool.ac.uk
<b>HOLMLUND</b> Prof. Per <i>President, National Committee</i> <i>IACS National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Stockholm University Department of Physical Geography SE- 106 91 Stockholm SWEDEN	T: 46 8 164 811 F: 46 8 164 818 per.holmlund[at]natgeo.su.se
<b>HORVATH</b> Dr. Kristian <i>IAMAS National Correspondent</i>	Croatian Meteorological and Hydrological Service Ravnice 48 10000 Zagreb CROATIA	T: 385 1 456 5678 F: 385 1 485 1520 kristian.horvath[at]cirus.dhz.hr
<b>HORVÁTH</b> Dr. László <i>IAPSO National Correspondent</i>	HUN-REN-SZTE Research Group for Photoacoustic Monitoring of Environmental Processes University of Szeged Dóm tér 9 6720 Szeged HUNGARY	T: 36 30 338 11 34 horvath.laszlo.dr[at]gmail.com
<b>HORWELL</b> Prof. Claire <i>Leader, IAVCEI International Volcanic Health Hazard Network (IVHHN)</i>	Institute of Hazard, Risk & Resilience (IHRR) Dept. of Earth Sciences Durham University Science Labs, South Road Durham, DH1 3LE UK	T: 44 191 334 2253 F: 44 191 334 2301 claire.horwell[at]durham.ac.uk
<b>HOVHANNISSYAN</b> Dr. Samvel <i>IAGA National Correspondent</i>	Territorial Survey for Seismic Protection, MES RA 5a V. Sargsyan Str. Gyumri, 3115 ARMENIA	T: 374 93005568 F: 374 31 231 580
<b>HUANG</b> Prof. Qinghua <i>IASPEI Liaison, IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)</i>	Department of Geophysics Peking University Beijing CHINA	huangq[at]pku.edu.cn

<b>HUÉRFANO MORENO</b> Dr. Víctor A. <i>President, IASPEI Latin American and Caribbean Seismological Commission (LACSC)</i>	Department of Geology University of Puerto Rico - Mayaguez Call Box 9000 Mayaguez, PR, 00681-9000 USA	victor[at]prsn.uprm.edu victor[at]prsnmail.uprm.edu
<b>HUGENTOBLER</b> Prof. Dr. Urs <i>President, IAG Commission 1: Reference Frames</i>	Technical University of Munich Institute for Astronomical and Physical Geodesy Arcistr. 21 80333 Munich GERMANY	urs.hugentobler[at]bv.tum.de
<b>HUNT Wallis</b> Mr. S. Edwin <i>Contact Person, Adhering Organization</i>	Dpto. Geográfico Instituto Geográfico Militar de Chile - IGM Avenida Santa Isabel 1651 Santiago CHILE	T: 56 2 2410 9314 rrii[at]igm.cl
<b>HUPE</b> Dr. Patrick <i>IAMAS National Correspondent</i>	Federal Institute for Geosciences and Natural Resources (BGR) B4.3 – Federal Seismological Survey, Nuclear-Test-Ban Stilleweg 2 30655 Hanover GERMANY	T: 49 511 643 3167 F: 49 511 643 2304 patrick.hupe[at]bgr.de
<b>HUR</b> Dr. Soon-Do <i>Audit, National Committee</i>	Korea Polar Research Institute 26 Songdomirae-ro, Yeonsu-gu Incheon, 21990 KOREA, Rep. of	T: 82 32 760 5461 F: 82 32 760 5399 sdhur[at]kopri.re.kr
<b>HUSSAIN</b> Dr. Ekbal <i>IAG National Correspondent</i>	British Geological Survey Nicker Hill, Keyworth Nottinghamshire, NG12 5GG UK	ekhuss[at]bgs.ac.uk
<b>HUYBRECHTS</b> Prof. Philippe <i>President, National Committee</i> <i>IACS National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Vrije Universiteit Brussel Pleinlaan 2 1050 Brussels BELGIUM	T: 32 2 629 3593 F: 32 2 629 3378 phuybrec[at]vub.ac.be
<b>IDE</b> Prof. Satoshi <i>Chair, IASPEI Commission on Earthquake Source Mechanics</i>	Department of Earth and Planetary Science (GR) Graduate School of Science University of Tokyo Tokyo JAPAN	T: 81 3 5841 4653 ext 24653 ide[at]eps.s.u-tokyo.ac.jp
<b>IEZZI</b> Dr. Alex <i>Representative, IAVCEI Early-Career Researchers Network (ECR-Net)</i>	USGS Cascades Volcano Observatory 1300 SE Cardinal Court Vancouver, WA, 98683 USA	T: 1 360 993 89481 aiezzi[at]usgs.gov
<b>IGLESIAS MENDOZA</b> Dr. Arturo <i>IASPEI National Correspondent</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 555622 4127 ext. 137 arturo[at]igeofisica.unam.mx
<b>INCE</b> Dr. Elmas Sinem <i>Director, IAG International Centre for Global Earth Models (ICGEM)</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg A17 14473 Potsdam GERMANY	elmas.sinem.ince[at]gfz.de
<b>IRESON</b> Dr. Andrew <i>President, National Committee</i>	Department of Civil and Geological Engineering University of Saskatchewan 501-121 Research Drive Saskatoon, SK, S7N 1K2 CANADA	T: 1 306 966 8020 andrew.ireson[at]usask.ca
<b>IRIANTO</b> Prof. Dr. Eko Winar <i>IAHS National Correspondent</i>	Ministry of Public Works and Housing Directorate of Water Resource Engineering Jl. Pattimura No. 20 Kebayoran Baru Jakarta Selatan, 12110 INDONESIA	T: 62 21 722 8497 F: 62 21 722 8497 ekowinar1966[at]gmail.com
<b>IRVING</b> Dr. Jessica <i>IASPEI National Correspondent</i>	School of Earth Sciences Wills Memorial Building Queens Road Clifton, BS8 1JR UK	T: 44 117 4558599 jessica.irving[at]bristol.ac.uk
<b>ISMAIL-ZADEH</b> Prof. Alik <i>Past IUGG Secretary General (2007-2019)</i> <i>Chair, Union Commission on Mathematical Geophysics (CMG)</i>	Karlsruhe Institute of Technology (KIT) Institute of Applied Geosciences Adenauerring 20b 76131 Karlsruhe GERMANY	T: 49 721 6084 4610 Alik.Ismail-Zadeh[at]kit.edu

<b>ISRAFILOV</b> Dr. Yusif <i>IAHS National Correspondent</i>	Senior Specialist Dept. "Hydrogeology and Engineering Geology" Geology & Geophysics Institute Ministry of Science and Education Azerbaijan Republic Av. H. Javid 119 AZ 1143 Baku AZERBAIJAN	T: 994 12 510 1164 F: 994 12 497 5285 yusifisrafil[at]gia.ab.az yusif-baku[at]yandrex.ru
<b>JACKSON</b> Prof. Ian <i>Chair, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Research School of Earth Sciences Australian National University Canberra, ACT, 2601 AUSTRALIA	T: 61 4 2553 6362 ian.jackson[at]anu.edu.au
<b>JACKSON</b> Dr. Jennifer <i>IAPSO National Correspondent</i>	Hakai Institute P.O. Box 309 Heriot Bay, BC, V0P 1H0 CANADA	T: 1 250 706 8549 Jennifer.Jackson[at]dfo-mpo.gc.ca
<b>JACOBI</b> Prof. Christoph <i>Chair, IAGA Working Group II-D</i>	University of Leipzig Faculty of Physics and Earth Science Institute of Meteorology Stephanstr. 3 04103 Leipzig GERMANY	T: 49 341 973 2876 F: 49 341 973 2899 jacobi[at]uni-leipzig.de
<b>JADOO</b> Mr. O. <i>President, National Committee</i>	Permanent Secretary Ministry of Environment 10th Floor, Ken Lee Tower Line Barracks Street Port Louis MAURITIUS	T: 230 201 1902 F: 230 201 3659 ojadoo[at]govmu.org
<b>JAGANNATH</b> Mr. Ramchand <i>IAHS National Correspondent</i>	Acting Principal Hydrological Officer Water Resources Unit Impasse St. Ignace Royal Complex Rose Hill MAURITIUS	T: 230 465 7988 F: 230 465 7177 wru[at]intnet.mu
<b>JÄGGI</b> Prof. Dr. Adrian <i>Chair of Directing Board, IAG International Earth Rotation &amp; Reference Systems Service (IERS)</i>	University of Bern Astronomical Institute Sidlerstrasse 5 3012 Bern SWITZERLAND	adrian.jaeggi[at]unibe.ch
<b>JANÁK</b> Prof. Juraj <i>President, National Committee</i> <i>IAG National Correspondent</i> <i>Nationally Accredited Council Delegate (2024-2027)</i>	Slovak University of Technology Faculty of Civil Engineering Radlinskeho 11 810 05 Bratislava SLOVAK REPUBLIC	T: 421 2 32 888 537 juraj.janak[at]stuba.sk
<b>JARVIS</b> Dr. Paul <i>Co-Leader, IAVCEI Commission on Tephra Hazard Modelling</i>	GNS Science Natural hazards and risks 12 Madden Street, Wynyard Quarter Auckland, 1010 NEW ZEALAND	p.jarvis[at]gns.cri.nz
<b>JENKINS</b> Prof. Susanna <i>Co-Leader, IAVCEI Commission on Statistics in Volcanology</i>	Nanyang technological University SINGAPORE	susanna.jenkins[at]ntu.edu.sg
<b>JENSEN</b> Prof. Britta <i>Co-Leader, IAVCEI Commission on Tephrochronology</i>	University of Alberta 3-02 Earth Sciences Building 11223 Saskatchewan Drive NW Edmonton, AB, T6G 2E3 CANADA	T: 1 780 4923430 bjjensen[at]ualberta.ca
<b>JESENKO</b> Tamara, MSc. <i>IASPEI National Correspondent</i>	ARSO - Slovenian Environment Agency Vojkova 1b SI- 1000 Ljubljana SLOVENIA	tamara.jesenko[at]gov.si
<b>JESSEN</b> Dr. Søren <i>Vice-President, IAHS ICT</i>	University of Copenhagen Department of Geosciences and Natural Resource Management Section of Geology Øster Voldgade 10 1350 Copenhagen K DENMARK	sj[at]ign.ku.dk

<b>JEWITT</b> Prof. Graham <i>IAHS National Correspondent</i>	BEEH Private Bag X01 Scottsville, 3209 <b>SOUTH AFRICA</b>	T: 27 33 260 5678 F: 27 33 260 5818 JewittG[at]ukzn.ac.za
<b>JIANG</b> Dr. Tao <i>Vice-President, IAG Commission 2: Gravity Field</i>	Chinese Academy of Surveying and Mapping 28 Lianhuachi Road 100830 Beijing <b>CHINA</b>	jiangtao[at]casm.ac.cn
<b>JIANG</b> Dr. Wei <i>Secretary, IAHS ICT</i>	University of Science and Technology of China Department of Applied and Engineering Physics Huangshan Rd. 443 Hefei, 230026 <b>CHINA</b>	T: 86 551 63607562 wjiang1[at]ustc.edu.cn
<b>JIMOH</b> Dr. O. D. <i>IAHS National Correspondent</i>	Department of Civil Engineering Federal University of Technology Minna, 920001 <b>NIGERIA</b>	T: 234 8035862472 odjimoh[at]gmail.com odjimoh[at]futminna.edu.ng
<b>JIN</b> Prof. Shuanggen <i>Chair, Union Commission on Planetary Sciences (UCPS)</i>	Shanghai Astronomical Observatory Chinese Academy of Sciences 80 Nandan Road Shanghai, 200030 <b>CHINA</b>	T: 86 21 34775292 T: 90 534 9218865 F: 86 21 64384618 sgjin[at]shao.ac.cn sg.jin[at]yahoo.com
<b>JOCHUM</b> Prof. Markus <i>IAPSO National Correspondent</i>	University of Copenhagen Department of Geophysics Juliane Maries Vej 30 2100 Copenhagen Ø <b>DENMARK</b>	T: 45 3532 0606 mjochum[at]nbi.dk
<b>JOHANSSON</b> Prof. Jan <i>Secretary, National Committee</i>	Chalmers University of Technology Onsala Space Observatory, Space, Earth and Environment SE- 412 96 Gothenburg <b>SWEDEN</b>	T: 46 31 772 55 58 Jan.Johansson[at]chalmers.se
<b>JOHNSEN</b> Dr. Magnar Gullikstad <i>IAGA National Correspondent</i>	UiT The Arctic University of Norway Tromsø Geophysical Observatory 9037 Tromsø <b>NORWAY</b>	T: 47 7764 6956 magnar.g.johnsen[at]uit.no
<b>JOHNSON</b> Prof. Catherine <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Department of Earth, Ocean and Atmospheric Sciences University of British Columbia 6339 Stores Road Vancouver, BC, V6T 1Z4 <b>CANADA</b>	T: 1 604 827 3480 cjohnson[at]eos.ubc.ca
<b>JOHNSON</b> Dr. Emily <i>Co-Leader, IAVCEI Commission on Monogenetic Volcanism</i>	Cascades Volcano Observatory 1300 SE Cardinal Court Suite 100 Vancouver, WY, 98683 <b>USA</b>	T: +1 360 993 8972 erjohnson[at]usgs.gov
<b>JOHNSON</b> Prof. Jay <i>Member, IUGG Awards Committee</i> <i>Chair, IAGA Division III</i>	Andrews University USA	jrq[at]andrews.edu
<b>JOHNSON</b> Prof. Jeffrey B. <i>Co-Chair, IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics</i>	Department of Geosciences Boise State University 1910 University Drive Boise, ID, 83725-1535 <b>USA</b>	T: 1 208 426 2959 jeffrey.b.johnson[at]gmail.com
<b>JORDANOVA</b> Prof. Dr. Diana <i>IAGA National Correspondent</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev Str., Block 3 1113 Sofia <b>BULGARIA</b>	T: 359 2 979 3958 F: 359 2 971 3005 diana_jordanova77[at]abv.bg
<b>JORDANOVA</b> Prof. D.Sc. Neli <i>President, National Committee</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev str., bl. 3 1113 Sofia <b>BULGARIA</b>	T: 359 2 979 3958 F: 359 2 971 3005 vanedi[at]geophys.bas.bg

<b>JÖRSS</b> Dr. Anna-Marie <i>ECC Representative, IAHS ICSIH</i>	Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research Klussmannstrasse 3d 27570 Bremerhaven GERMANY	T: 49 471 4831 1382 amjoerrs[at]gmx.de
<b>JOVANOVSKI</b> Prof. Dr. Milorad <i>Secretary General, National Committee</i>	Ss Cyril and Methodius University Faculty of Civil Engineering Department of Geotechnical Engineering Blvd. Partizanski odredi 24 1000 Skopje NORTH MACEDONIA	T: 389 2 311 6066 ext. 103 F: 389 2 311 8834 jovanovski[at]gf.ukim.edu.mk
<b>JOWITT</b> Dr. Simon <i>Co-Leader, IAVCEI Commission on Large Igneous Provinces</i>	University of Nevada Department of Geosciences 4505 S Maryland Pkwy Las Vegas, NV, 89154-4010 USA	T: 1 702 895 3262 simon.jowitt[at]unlv.edu
<b>JURACIC</b> Acad. Mladen <i>Member, National Committee</i>	Croatian Academy of Sciences and Arts Trg Nikole Subica Zrinskog 11 10000 Zagreb CROATIA	T: 385 1 489 5111 mjuracic[at]hazu.hr
<b>KAAS</b> Prof. Eigil <i>IAMAS National Correspondent</i>	University of Copenhagen Department of Geophysics Juliane Maries Vej 30 2100 Copenhagen Ø DENMARK	T: 45 3532 0514 kaas[at]gfy.ku.dk
<b>KADIROV</b> Acad. Prof., Dr. Fakhreddin <i>IAG National Correspondent</i>	Director Oil & Gas Institute Ministry of Science and Education Azerbaijan Republic F. Amirov Str., 9 AZ 1000 Baku AZERBAIJAN	T: 994 12 493 6751 F: 994 12 493 6789 kadirovf[at]gmail.com
<b>KAGABU</b> Dr. Makoto <i>Vice-President, IAHS ICGW</i>	Faculty of Environmental Science Nagasaki University 1-14 Bunkyo-machi Nagasaki, 852-8521 JAPAN	T: 81 95 819 2771 kagabu[at]nagasaki-u.ac.jp
<b>KAĞNICIOĞLU</b> Mr. Nazmi <i>IACS &amp; IAHS National Correspondent</i>	General Directorate of State Hydraulic Works Inonu Blv. No: 16 06100 Cankaya, Ankara TÜRKİYE	T: 90 312 454 5200 F: 90 312 454 5045 nazmik[at]dsi.gov.tr
<b>KAISER</b> Dr. Anna <i>IASPEI National Correspondent</i>	GNS Science P.O. Box 30-368 Lower Hutt, 5040 NEW ZEALAND	T: 64 4 570 4249 F: 64 4 570 4600 a.kaiser[at]gns.cri.nz
<b>KALMÁR</b> Dr. Dániel <i>IASPEI National Correspondent</i>	HUN-REN Institute of Earth Physics and Space Science Kövesligethy Radó Seismological Observatory Meredek u. 18 1112 Budapest HUNGARY	T: 36 1 2482300 kalmard[at]seismology.hu
<b>KAMINSKIS</b> Dr. sc. ing. Jānis <i>Contact Person, Adhering Organization, President, National Committee Nationally Accredited Council Delegate (2023-2027)</i>	Department of Geomatics Riga Technical University Kipsalas Street 6A 1048 Riga LATVIA	T: 371 67089263 janis.kaminskis[at]rtu.lv iugg.lv[at]lza.lv
<b>KAMPINE</b> Mr. Manuel Farnela <i>Secretary, National Committee IAGA National Correspondent</i>	Instituto Nacional de Minas C.P. 217 Maputo MOZAMBIQUE	T: 258 82 312 8890 T: 258 82 892 3790 F: 258 21 429 216 mkampine[at]hotmail.com lmm.edi[at]gmail.com
<b>KAMUNGA MUSUNGAY</b> Mr. Donatien <i>IAMAS National Correspondent</i>	Agence Nationale de Météorologie B.P. 4715 Kinshasa I D.R. CONGO	meteo.redc[at]iccd
<b>KANAO</b> Dr. Masaki <i>IASPEI Representative, Solid Earth Geophysical Working Group (SCAR)</i>	Polar Data Center & Geoscience Group National Institute of Polar Research (NIPR) Research Organization of Information and System (ROIS) 10-3, Midori-cho, Tachikawa-shi Tokyo, 190-8518 JAPAN	T: 81 42 512 0713 kanao[at]nipr.ac.jp

<b>KANG</b> Prof. Dr. Shichang <i>IACS National Correspondent</i>	Northwest Institute of Eco-Environment and Resources Chinese Academy of Sciences (CAS) No. 320, Donggang West Road Lanzhou Gansu, 730000 CHINA	T: 86 931 4967368 F: 86 931 4967368 Shichang.kang[at]lzb.ac.cn
<b>KANG</b> Prof. Tae-Seob <i>IASPEI National Correspondent</i>	Pukyong National University Department of Earth and Environmental Sciences 45 Yongso-ro, Nam-gu Busan, 48513 KOREA, Rep. of	T: 82 51 629 6632 F: 82 51 629 6623 tskang[at]pknu.ac.kr
<b>KANJI</b> Dr. Zamin A. <i>IAMAS National Correspondent</i>	ETH Zurich Dep. of Environmental Systems Science Atmospheric Physics Universitätstrasse 16 8092 Zurich SWITZERLAND	T: 41 44 633 6161 T: 41 44 632 8185 zamin.kanji[at]env.ethz.ch
<b>KANO</b> Prof. Masayuki <i>Co-Chair &amp; IASPEI Representative, IAG-IASPEI Sub-Commission on Seismo-Geodesy</i>	Solid Earth Physics Laboratory Department of Geophysics Graduate School of Science Tohoku University 6-3, Aramaki Aza-Aoba, Aoba-ku, Sendai, Miyagi, 980-8578 JAPAN	T: 81 22 795 6533 masayuki.kano.a3[at]tohoku.ac.jp
<b>KARUŠS</b> Dr. geol. Jānis <i>IASPEI National Correspondent</i>	University of Latvia Jelgavas Street 1, DAC 1004 Riga LATVIA	janis.karuss[at]lu.lv
<b>KASER</b> Prof. Dr. Georg <i>President, IACS (2007-2009)</i>	University of Innsbruck Department of Atmospheric and Cryospheric Sciences Innrain 52f 6020 Innsbruck AUSTRIA	T: 43 512 507 54457 F: 43 512 507 54599 georg.kaser[at]uibk.ac.at
<b>KATSMAN</b> Dr. Caroline A. <i>IAPSO National Correspondent</i>	Delft University of Technology Faculty of Civil Engineering and Geosciences Department of Hydraulic Engineering PO Box 5048 2600 GA Delft NETHERLANDS	T: 31 15 2783380 c.a.katsman[at]tudelft.nl
<b>KATSURA</b> Prof. Tomoo <i>IAVCEI Liaison, IASPEI/IAVCEI Commission on Physics &amp; Chemistry of Earth Materials</i>	Bayerisches Geoinstitut University of Bayreuth 95440 Bayreuth GERMANY	T: 49 921 55 3791 tomo.katsura[at]uni-bayreuth.de
<b>KAVUTARAPU</b> Dr. Venkatesh <i>Chair, IAGA Working Group II-E</i>	Physical Research Laboratory Navrangpura, Ahmedabad Gujarat INDIA	T: 91 996326138 venkateshk[at]prl.res.in
<b>KELBERT</b> Dr. Anna <i>Member, IAGA Executive Committee</i>	USA	
<b>KELLNER</b> Tte.1º Francisco <i>Secretary, National Committee</i>	Instituto Geográfico Militar División Geodesia y Topografía 8 de octubre 3255 Montevideo URUGUAY	T: 598 2 487 1810 201 T: 598 99075808 F: 598 2 24870868 kellner.francisco[at]gmail.com
<b>KELLY</b> M.A.Sc. Kevin M. <i>Director, IAG International Digital Elevation Model Service (IDEMS)</i>	ESRI, Inc. 380 New York Street Redlands, CA, 92373-8100 USA	kevin_kelly[at]esri.com
<b>KHAN</b> Mr. Zia-ud-Din <i>IAVCEI National Correspondent</i>	Pakistan Meteorological Department Brewery Road Quetta PAKISTAN	T: 92 81 285 3032 F: 92 81 285 4218 metq[at]qta.paknet.com.pk
<b>KHODABANDEH</b> Dr. Amir <i>Vice-President, IAG Inter-Commission Committee on Theory (ICCT)</i>	The University of Melbourne Grattan Street, Parkville Victoria, 3010 AUSTRALIA	akhodabandeh[at]unimelb.edu.au
<b>KIERULF</b> Dr. Halfdan Pascal <i>IAG National Correspondent</i>	Geodetic Institute Norwegian Mapping Authority 3507 Hønefoss NORWAY	T: 47 32118457 T: 47 41522139 F: 47 32118101 halfdan.kierulf[at]kartverket.no

<b>KILESHYE ONEMA</b> Ass. Prof. Jean-Marie <i>Secretary General, IAHS</i>	WaterNet Executive Manager University of Lubumbashi, WaterNet North-West University, Mahikeng Private Bag X2046 Mmabatho, 2745 SOUTH AFRICA	T: 271 8289 2377 jmkileshye-onema[at]waternetonline.org
<b>KIM</b> Prof. Young Ho <i>IAPSO National Correspondent</i>	Pukyong National University Department of Oceanography 45 Yongso-ro, Nam-gu Busan, 48547 KOREA, Rep. of	T: 82 51 629 6571 F: 82 51 629 6510 yhokim[at]pknu.ac.kr
<b>KIRI</b> Dr. Emanuela <i>IAVCEI Alternate National Correspondent</i>	Universiteti Politeknik i Tiranes Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 e.kiri[at]geo.edu.al
<b>KJELLSTRÖM</b> Prof. Erik <i>IAMAS National Correspondent</i>	Swedish Meteorological and Hydrological Institute (SMHI) SE- 601 76 Norrköping SWEDEN	T: 46 11 4958501 Erik.kjellstrom[at]smhi.se
<b>KLOSS</b> Dr. Clemens <i>Co-Chair, IAGA Working Group V-MOD</i>	Technical University of Denmark DTU Space Division of Geomagnetism and Geospace Centrifugevej Building 356 2800 Kgs. Lyngby DENMARK	ancklo[at]space.dtu.dk
<b>KNORRING</b> Dr. Mary von <i>Lifetime Bureau Member, SCL/ILP</i>	Swedish Natural Sciences Research Council N.F.R. Box 7142 SE- 10387 Stockholm SWEDEN	T: 46 8 454 42 44 F: 46 8 454 42 50 mary[at]nfr.se
<b>KOCHANEK</b> Prof. Dr. Krzysztof <i>President-Elect, IAHS ICSH</i> <i>IAHS National Correspondent</i>	Warsaw University of Technology Faculty of Building Installations, Hydrotechnics & Environ. Engineering Dept. of Environmental Protection & Development Nowowiejska St. 20 00-653 Warsaw POLAND	T: 48 22 234 1792 T: 48 783 368 773 krzysztof.kochanek[at]pw.edu.pl
<b>KOLARSKI</b> Dr. Aleksandra <i>Member, National Committee</i>	Institute of Physics Belgrade National Institute of the Republic of Serbia University of Belgrade Pregrevica 118 11080 Belgrade SERBIA	T: 381 11 3713 153 F: 381 11 3162 190 kolarski[at]ipb.ac.rs
<b>KONTAR</b> Dr. Yekaterina (Katia) <i>Secretary &amp; Treasurer, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	International Science Lead U.S. Global Change Research Program (USGCRP) National Coordination Office 2351 Eisenhower Ave, Apt 813 Alexandria, VA, 22314 USA	T: 1 402 450 2267 kkontar[at]usgcrp.gov
<b>KOPP</b> Prof. Heidrun <i>Vice-President, IAG Inter-Commission Committee on Marine Geodesy (ICCM)</i>	Helmholtz Centre for Ocean Research Kiel Wischhofstrasse 1-3 Room 8D-227 24148 Kiel GERMANY	hkopp[at]geomar.de
<b>KORTE</b> Dr. Monika <i>Member, IUGG Nominating Committee</i> <i>Secretary General, IAGA</i>	GFZ Helmholtz Centre for Geosciences Geomagnetism Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1268 monika.korte[at]gfz.de
<b>KOSCH</b> Dr. Michael <i>IUGG Liaison, ISC Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)</i> <i>Member, IAGA Executive Committee</i>	South African National Space Agency Hospital Street Hermanus, 7200 SOUTH AFRICA	T: 27 28 312 1196 mkosch[at]sansa.org.za
<b>KOSENKO</b> Mrs. Ksenija <i>IAGA National Correspondent</i>	Latvia Geospatial information agency Ojāra Vācieša Street 43 1004 Riga LATVIA	T: 371 28655590 ksenija.kosenko[at]lgia.gov.lv

<b>KOSTI</b> Dr. Ourania <i>Contact Person, Adhering Organization</i>	Director, Board on International Scientific Organizations National Academies of Sciences, Engineering, and Medicine 500 Fifth Street, NW Washington, DC, 20001 USA	okosti[at]nas.edu
<b>KOSZALKA</b> Assoc. Prof. Inga <i>IAPSO National Correspondent</i>	Stockholm University Dept. of Meteorology (MISU) SE- 106 91 Stockholm SWEDEN	T: 46 8 16 43 14 Inga.koszalka[at]misu.su.se
<b>KOTLYAKOV</b> Dr. Vladimir M. <i>IACS National Correspondent</i>	Russian Academy of Sciences (RAS) Institute of Geography 29 Staromonetny lane 119017 Moscow RUSSIA	T: 7 495 959 0032 F: 7 495 959 0033 vladkot6[at]gmail.com
<b>KOTSAKIS</b> Prof. Dr. Christopher <i>IUGG Liaison, ISC Committee on Space Research (COSPAR)</i>	Aristotle University of Thessaloniki Faculty of Engineering Department of Geodesy and Surveying University Postal Box 440 Thessaloniki, 54124 GREECE	kotsaki[at]topo.auth.gr
<b>KOUCKA KNIZOVA</b> Dr. Petra <i>Chair, IAGA Division II</i> <i>Member, National Committee</i>	Dept. of Ionosphere and Aeronomy Institute of Atmospheric Physics Czech Academy of Sciences 14131 Prague 4 CZECH REPUBLIC	T: 420 272 016 067 pkn[at]jufa.cas.cz
<b>KOXHAJ</b> MSc. Damiano <i>IASPEI Alternate National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 d.koxhaji[at]geo.edu.al
<b>KRÄMER</b> Prof. Dr. Martina <i>Secretary-Treasurer, IAMAS ICCP</i>	Johannes Gutenberg-Universität - Institut für Physik der Atmosphäre Forschungszentrum Jülich Institut für Klima- und Energiesysteme GERMANY	m.kraemer[at]fz-juelich.de
<b>KRASNOPOROV</b> Dr. Roman I. <i>Secretary, National Committee</i>	Russian Academy of Sciences (RAS) Geophysical Center 3 Molodezhnaya st. 119296 Moscow RUSSIA	T: 7 495 930 0546 F: 7 495 930 0506 r.krasnoperov[at]gcras.ru
<b>KRAUSE</b> Dr. Stefan <i>Vice-President, IAHS ICWQ</i>	Chair of Ecohydrology and Biogeochemistry School of Geography, Earth and Environmental Sciences University of Birmingham Birmingham, Edgbaston, B15 2TT UK	T: 44 21 4145535 S.Krause[at]bham.ac.uk
<b>KRAUTBLATTER</b> Prof. Dr. Michael <i>Executive Committee Member &amp; IACS Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Technical University Munich Arcisstr. 21 80333 Munich GERMANY	49 89 289 25866 m.krautblatter[at]tum.de
<b>KRDZALIC</b> Doc. dr. sc. Dzevad <i>President, National Committee</i>	University of Sarajevo Faculty of Civil Engineering Department of Geodesy and Geoinformatics Stjepana Tomica 1/III 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 617 305 dzevadkrdzalic[at]gmail.com
<b>KREIBICH</b> Dr. Heidi <i>President, IAHS ICHWF</i>	Section Hydrology GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1550 heidi.kreibich[at]gfz.de
<b>KRISTEK</b> Assoc. Prof. Jozef <i>Member, National Committee</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynská dolina F1 842 48 Bratislava SLOVAK REPUBLIC	T: 421 2 6029 5337 F: 421 2 6542 5982 Jozef.Kristek[at]fmph.uniba.sk

<b>KRISTEKOVA</b> Dr. Miriam <i>Vice-President, National Committee</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynská dolina F1 842 48 Bratislava SLOVAK REPUBLIC	T: 421 2 6029 5337 F: 421 2 6542 5982 Miriam.Kristekova[at]fmph.uniba.sk
<b>KRÜGER</b> Prof. Tobias <i>Vice-President, IAHS ICHWF</i>	Humboldt-Universität zu Berlin Geography Department & IRI THESYS Unter den Linden 6 10099 Berlin GERMANY	T: 49 30 2093 6839/66342 tobias.krueger[at]hu-berlin.de
<b>KRUIVER</b> Dr. Pauline P. <i>IASPEI National Correspondent</i>	Royal Netherlands Meteorological Institute (KNMI) P.O. Box 201 3730 AE De Bilt NETHERLANDS	T: 31 6 4625 4042 pauline.kruiver[at]knmi.nl
<b>KRYNSKI</b> Prof. Dr. Jan <i>Chair, IUGG Finance Committee</i> <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Polish Academy of Sciences Division IV Engineering Sciences Palace of Culture and Science Pl. Defilad 1 00-901 Warsaw POLAND	T: 48 601 365 825 F: 48 22 182 70 54 jan.krynski[at]gmail.com
<b>KRZYSKIN</b> Prof. Dr. Janusz <i>IAMAS National Correspondent</i>	Polish Academy of Sciences Institute of Geophysics Ksiecia Janusza St. 64 01-452 Warsaw POLAND	T: 48 22 691 5874 F: 48 22 691 5915 jkrzys[at]igf.edu.pl
<b>KTENIDOU</b> Dr. Olga-Joan <i>Assistant Secretary, IASPEI European Seismological Commission (ESC)</i>	National Observatory of Athens Institute of Geodynamics Hill of the Nymphs – Thisio P.O. Box 20048 11810 Athens GREECE	T: 30 210 3490169 olga.ktenidou[at]noa.gr
<b>KUCAJ</b> Prof. Asoc. Enkelejda <i>IAMAS National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 e.kucaj[at]geo.edu.al
<b>KUEPPERS</b> Dr. Ulrich <i>Secretary General, IAVCEI</i>	Ludwig-Maximilians-Universität (LMU) Earth & Environmental Sciences Theresienstr. 41 80333 Munich GERMANY	T: 49 89 21804258 u.kueppers[at]lmu.de
<b>KUGE</b> Prof. Keiko <i>Member, IUGG Awards Committee</i> <i>Secretary, National Committee</i> <i>IASPEI National Correspondent</i>	Kyoto University Department of Geophysics Kyoto, 606-8502 JAPAN	T: 81 75 753 3926 F: 81 75 753 4189 keiko[at]kugi.kyoto-u.ac.jp
<b>KUGLITSCH</b> Dr. Franz G. <i>Executive Secretary, IUGG</i> <i>IUGG Liaison, Intergovernmental Panel on Climate Change (IPCC)</i>	GfZ Helmholtz Centre for Geosciences Telegrafenberg, A17 14473 Potsdam GERMANY	T: 49 331 6264 1978 F: 49 331 6264 1759 fgkugl[at]gfz.de
<b>KUHAR</b> Dr. Miran <i>Secretary General, National Committee</i>	University of Ljubljana Faculty of Civil and Geodetic Engineering Geodetic Department Jamova 2 SI- 1000 Ljubljana SLOVENIA	miran.kuhar[at]fgg.uni-lj.si
<b>KULMALA</b> Prof. Markku <i>Chair, IAMAS ICCP-CNA</i>	University of Helsinki Institute for Atmospheric and Earth System Research P.O. 64 (Gustaf Hällströminkatu 2) 00014 University of Helsinki FINLAND	markku.kulmala[at]helsinki.fi
<b>KUMAR</b> Dr. Pankaj <i>ECC Representative, IAHS ICRS</i>	G.B. Pant University of Agriculture and Technology Pantnagar Uttarakhand, 263145 INDIA	T: 91 844 959 8237 pankaj591[at]gmail.com
<b>KUPUSOVIC</b> Mr.sc. Esena <i>IAHS National Correspondent</i>	Federal Hydrometeorological Institute Hydrology Sector Bardakcije 12 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 33 276 710 F: 387 33 276 701 ekupusovic[at]heis.com.ba

<b>KURT</b> Dr. Col. Eng. Ali İhsan <i>IAG National Correspondent</i>	Head of Geodesy Department General Directorate of Mapping 06590 Cebeci/Cankaya, Ankara TÜRKIYE	T: 90 312 595 2250 F: 90 312 320 1495 aliihsan.kurt[at]harita.gov.tr
<b>KUSHNER</b> Dr. Paul <i>IAMAS National Correspondent</i>	University of Toronto Department of Physics 60 St. George St. Toronto, ON, M5S 1X7 CANADA	T: 1 416 946 3683 paul.kushner[at]utoronto.ca
<b>KUŞLAROĞLU</b> Col. Hakan <i>IAPSO National Correspondent</i>	Office of Navigation Hydrography and Oceanography 34805 Cubuklu, İstanbul TÜRKIYE	T: 90 216 322 25 80 F: 90 216 331 0525 hkuslaroglu[at]shodb.gov.tr
<b>KUTALADZE</b> Dr. Natalia <i>IAMAS National Correspondent</i>	Environmental National Centre D. Agmashenebeli av. 150 0112 Tbilisi GEORGIA	T: 995 32 439 528 F: 995 32 439 528 nshareidze[at]yahoo.com
<b>KUTTERER</b> Prof. Dr. Hansjörg <i>Assistant Editor in Chief, Journal of Geodesy</i>	Karlsruhe Institute of Technology (KIT) Kaiserstraße 14 76131 Karlsruhe GERMANY	hansjoerg.kutterer[at]kit.edu
<b>KVAERNA</b> Dr. Tormod <i>Chair, National Committee IASPEI National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	NORSAR PO Box 51 2027 Kjeller NORWAY	T: 47 6380 5941 T: 47 9164 8832 tormod[at]norsar.no
<b>KWAK</b> Dr. Young-Sil <i>IAGA National Correspondent</i>	Korea Astronomy and Space Science Institute Space Science Division 776 Daedeok-daero, Yuseong-gu Daejeon, 34055 KOREA, Rep. of	T: 82 42 865 2039 F: 82 42 865 3272 yskwak[at]kasi.re.kr
<b>LABRECQUE</b> Dr. John <i>Chair, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Center for Space Research 3925 West Braker Lane, Suite 200 University of Texas Austin, TX, 78759-5321 USA	T: 1 202 431 9546 jlabrecq[at]mac.com
<b>LACHLAN-COPE</b> Dr. Thomas <i>IAMAS National Correspondent</i>	British Antarctic Survey High Cross Madingley Road Cambridge, CB3 0ET UK	tlc[at]bas.ac.uk
<b>LADINO Moreno</b> Prof. Dr. Luis <i>Vice-President, IAMAS ICCP</i>	Av. Universidad 3000 Coyoacan 04510 Mexico City MEXICO	luis.ladino[at]atmosfera.unam.mx
<b>LAGOS</b> Dr. Pablo <i>IAMAS National Correspondent</i>	Instituto Geofísico del Perú Calle Calatrava 216 Urb. Camino Real La Molina Lima 12 PERU	T: 51 1 436 8437 F: 51 1 436 8437 plagos[at]geo.igp.gob.pe plagose[at]gmail.com
<b>LAKSHAMANAN</b> Dr. Elango <i>Co-President, IAHS ICWQ</i>	Department of Geology Anna University Chennai (Madras), 600 025 INDIA	T: 91 44 2220 3313 elango[at]annauniv.edu
<b>LALLE</b> Dr. Cecilia <i>Contact Person, Adhering Organization</i>	CNR – Unità Relazioni Internazionali Piazzale Aldo Moro, 7 00185 Rome ITALY	T: 39 06 4993 7827 cecilia.lalle[at]cnr.it
<b>LAMAS</b> Mrs Luisa <i>IAPSO National Correspondent</i>	Instituto Hidrográfico Rua das Trinas 49 1249-093 Lisbon PORTUGAL	T: 351 210 943 000 T: 351 210 943 050 luisa.lamas[at]hidrografico.pt
<b>LAMSTERS</b> Dr. geol. Kristaps <i>IACS National Correspondent</i>	Faculty of Geography and Earth Sciences University of Latvia Jelgavas Street 1 1004 Riga LATVIA	T: 371 20383902 kristaps.lamsters[at]lu.lv

<b>LATA</b> Dr. Liljana <i>IAGS National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana <b>ALBANIA</b>	T: +355 4 250 601 l.lata[at]geo.edu.al
<b>LAZZARA</b> Prof. Matthew <i>President, IAMAS ICPM</i> <i>IAMAS National Correspondent</i>	University of Wisconsin-Madison 1225 West Dayton Street Madison, WI, 53706 USA	T: 1 608 616 3382 mlazzara[at]madisoncollege.edu mattl[at]ssec.wisc.edu
<b>LEOCOCQ</b> Dr. Thomas <i>IASPEI member, National Committee</i>	Observatoire Royal de Belgique Avenue Circulaire 3 1180 Brussels <b>BELGIUM</b>	T: 32 2 373 0316 thomas.lecocq[at]oma.be
<b>LEE</b> Prof. Kang-Kun <i>IAGS National Correspondent</i>	Seoul National University School of Earth and Environmental Sciences 1 Gwanak-ro, Gwanak-gu Seoul, 08826 KOREA, Rep. of	T: 82 2 880 8161 F: 82 2 888 8696 kklee[at]snu.ac.kr
<b>LEE</b> Prof. Myong-In <i>IAMAS National Correspondent</i>	Ulsan National Institute of Science & Technology (UNIST) School of Urban and Environmental Engineering 50 UNIST-gil Ulsan, 44919 KOREA, Rep. of	T: 82 52 217 2813 F: 82 52 217 2299 milee[at]unist.ac.kr
<b>LEE</b> Prof. Sang-Mook <i>EC Member, Union Commission on Mathematical Geophysics (CMG)</i> <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Seoul National University School of Earth and Environmental Sciences 1 Gwanak-ro, Gwanak-gu Seoul, 08826 KOREA, Rep. of	T: 82 2 880 6745 smlee[at]snu.ac.kr
<b>LEE</b> Dr. Yeon Joo <i>Secretary, IAMAS ICPAE</i>	Planetary Atmospheres Group Institute for Basic Science 55 Expo-ro Yuseong-gu Daejeon, 34126 KOREA, Rep. of	T: 82 42 878 9430 yeonjoolee[at]ibs.re.kr
<b>LEFEVRE</b> Dr. Laure <i>Chair, IAGA Interdivisional Commission on Space Weather</i>	Royal Observatory of Belgium Solar Physics Avenue Circulaire 3 1180 Brussels <b>BELGIUM</b>	T: 32 027903923 laure.lefeuvre[at]oma.be
<b>LEHTIPALO</b> Prof. Dr. Katrianne <i>Secretary, IAMAS ICCP-CNAA</i>	Institute for Atmospheric and Earth System Research PO Box 64 00014 University of Helsinki <b>FINLAND</b>	Katrianne.lehtipalo[at]helsinki.fi
<b>LEICHTER</b> Barbara <i>Chair, IAGA Inter-divisional Commission on Education and Outreach</i> <i>IAGA National Correspondent</i>	GeoSphere Austria Hohe Warte 38 1190 Vienna <b>AUSTRIA</b>	T: 43 1 360 262 515 barbara.leichter[at]geosphere.at
<b>LE MOIGNE</b> Dr. Yannick <i>IAVCEI National Correspondent</i>	Natural Resources Canada Geological Survey of Canada 1500-605 Robson Street Vancouver, BC, V6B 5J3 <b>CANADA</b>	yannick.lemoine[at]nrcan-rncan.gc.ca
<b>LEMOINE</b> Dr. Frank <i>Chair, Governing Board, IAG International DORIS Service (IDS)</i>	NASA's Goddard Space Flight Center Mail Code: 61A Greenbelt, MD, 20771 USA	frank.g.lemoine[at]nasa.gov
<b>LENHARDT</b> Univ.-Doz. Dr. Wolfgang <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Formanekgasse 1A/3/1 1190 Vienna <b>AUSTRIA</b>	T: 43 664 5201492 wolfgang.lenhardt[at]gmail.com
<b>LEONARD</b> Dr. Graham <i>IAVCEI National Correspondent</i>	GNS Science P.O. Box 30-368 Lower Hutt <b>NEW ZEALAND</b>	T: 64 4 570 1444 F: 64 4 570 4600 g.leonard[at]gns.cri.nz
<b>LEÓN CALLEJAS</b> Dr. Siervo William <i>Member, National Committee</i>	Professional Geographic Information Management area Instituto Geográfico Agustín Codazzi Carrera 30 No. 48-51 Bogotá, D.C. <b>COLOMBIA</b>	swleon[at]igac.gov.co

<b>LEONG</b> Dr. Chris <i>ECC Representative, IAHS ICWRS</i>	Hydrology Research Department Research Institute for Humanity and Nature Kyoto JAPAN	T: 81 75 707 2385 chris[at]chikyu.ac.jp
<b>LEONHARDT</b> Dr. Roman <i>Chair, IAGA Division V</i>	GeoSphere Austria CONRAD Observatory Hohe Warte 38 Wien, 1190 AUSTRIA	T: 43 1 36 0 26 2507 roman.leonhardt[at]geosphere.at
<b>LESAGE</b> Dr. Philippe <i>IAVCEI National Correspondent</i>	Institut de Sciences de la Terre Université Savoie Mont Blanc 73376 Le Bourget-du-Lac Cedex FRANCE	lesage[at]univ-smb.fr
<b>LI</b> Prof. Dr. Jianping <i>Chair, Union Commission on Climatic and Environmental Change (CCEC)</i> <i>IUGG Liaison, Intergovernmental Panel on Climate Change (IPCC)</i> <i>President, IAMAS ICCL</i> <i>Vice-President, National Committee</i>	Ocean University of China Frontiers Science Center for Deep Ocean Multispheres and Earth System (DOMES) Key Laboratory of Physical Oceanography Academy of Future Ocean No. 238, Songlinglu Road, Laoshan District Qingdao, Shandong Province, 266100 CHINA	T: 86 532 66783722 T: 86 13910573969 ljp[at]ouc.edu.cn
<b>LI</b> Prof. Li <i>First Vice-President, IASPEI</i> <i>Secretary General, IASPEI Asian Seismological Commission (ASC)</i> <i>IASPEI National Correspondent</i>	Institute of Geophysics China Earthquake Administration No. 5, South Road of Minzu University Beijing, 100036 CHINA	T: 86 10 68415362 lilygrace[at]cea-igp.ac.cn
<b>LI</b> Prof. Xingxing <i>Vice-President, IAG Commission 4: Positioning and Applications</i>	School of Geodesy and Geomatics Wuhan University 129 Luoyu Road 430079 Wuhan CHINA	xingxingli[at]whu.edu.cn
<b>LIČER</b> Dr. Matjaž <i>President, National Committee</i> <i>IAPSO National Correspondent</i> <i>Nationally Accredited Council Delegate (2024-2026)</i>	ARSO - Slovenian Environment Agency Vojkova 1b SI- 1000 Ljubljana SLOVENIA	matjaz.licer[at]gov.si
<b>LIDBERG</b> Dr. Martin <i>IAG National Correspondent</i>	Swedish Mapping, Cadastre and Registry Authority Geodetic Research Division SE- 801 82 Gävle SWEDEN	T: 46 26 633 842 F: 46 26 687 594 martin.lidberg[at]lm.se
<b>LIEPINŠ</b> Mr. Ivars <i>IAG National Correspondent</i>	Latvia Geospatial information agency Ojāra Vācieša Street 43 1004 Riga LATVIA	T: 371 26165678 ivars.liepins[at]lgia.gov.lv
<b>LIN</b> Prof. Charles C.H. <i>IAGA National Correspondent</i>	National Cheng Kung University Department of Earth Sciences No.1, Daxue Rd., East Dist. Tainan, Taiwan, 701 CHINA-TAIPEI	T: 886 6 275 7575 ext 65432 charles[at]mail.ncku.edu.tw
<b>LINDSAY</b> Dr. Jan M. <i>Member, IUGG Statutes and By-Laws Committee</i>	Department of Geology University of Auckland Private Bag 92019 Auckland, 2006 NEW ZEALAND	T: 64 9 373 7599 x88678 j.lindsay[at]auckland.ac.nz
<b>LINK</b> Prof. Tim <i>Secretary, IAHS ICSIH</i>	University of Idaho College of Natural Resources 875 Perimeter Drive MS 1133 Moscow, ID, 83844-1133 USA	T: 1 208 885 9465 tlink[at]uidaho.edu
<b>LIU</b> Prof. Cho-Teng <i>IAPSO National Correspondent</i>	National Taiwan University Institute of Oceanography No. 1, Sec. 4, Roosevelt Road Taipei, Taiwan, 106 CHINA-TAIPEI	M: 886 915 003 185 ctlIU[at]ntu.edu.tw
<b>LIU</b> Mr. Dedi <i>President-Elect, IAHS ICWQ</i>	Department of Hydrology and Water Resources Wuhan University No.299, Bayi Road Wuchang District Wuhan, 430072 CHINA	T: 86 027 6877 2215 dediliu[at]whu.edu.cn

<b>LIU</b> Prof. Jann-Yenq <i>Secretary and IAGA Liaison, IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes &amp; Volcanoes (EMSEV)</i>	National Central University Graduate Institute of Space Science 300, Jhongda Rd., Jhongli City Taoyuan, Taiwan, 320 CHINA-TAIPEI	T: 886 3 422 7151 ext 65763 F: 886 3 422 4394 tigerjliu[at]gmail.com jyliu[at]jupiter.ss.ncu.edu.tw
<b>LIU</b> Prof. Dr. Mian <i>Secretary General, SCL/ILP</i>	Department Chair, Curators' Distinguished Professor, William H. Byler Distinguished Chair Dept. of Geological Sciences University of Missouri 205 Geology Building Columbia, MO, 65211 USA	T: 1 573 882 3784 lium[at]missouri.edu
<b>LIU</b> Dr. Qinya <i>IASPEI National Correspondent</i>	University of Toronto Department of Earth Sciences / Department of Physics 22 Ursula Franklin St. Toronto, ON, M5S 3B1 CANADA	T: 1 416 978 5434 liuqy[at]physics.utoronto.ca
<b>LIU</b> Dr. Suxia <i>Vice-President, IAHS ICWRS</i>	Key Laboratory of Water Cycle and Related Land Surface Processes Institute of Geographic Sciences and Natural Resources Research Chinese Academy of Sciences A11, Datun Road Chaoyang District Beijing, 100101 CHINA	T: 86 10 64889749 liusx[at]igsnrr.ac.cn
<b>LIU</b> Prof. Dr. Zhiyu <i>IAHS National Correspondent</i>	Department of Hydrology Ministry of Water Resources of China 2 Lane 2, Baiguang Road Beijing, 100053 CHINA	T: 86 10 6320 4513 F: 86 10 6320 4587 liuzymwr[at]163.com liuzhiyu2019[at]mwr.gov.cn
<b>LIUZZI</b> Dr. Giuliano <i>Vice-Secretary, IAMAS ICPAE</i>	University of Basilicata Via dell'Ateneo Lucano, 10 Potenza, 85100 ITALY	giuliano.liuzzi[at]unibas.it
<b>LIVESEY</b> Dr. Nathaniel <i>Vice-President, IAMAS IO3C</i>	Senior Research Scientist Jet Propulsion Laboratory 4800 Oak Grove Drive M/S 183-701 Pasadena, CA, 91109 USA	Nathaniel.Livesey[at]jpl.nasa.gov
<b>LOGNONNE</b> Dr. Philippe <i>Executive Committee Member and IASPEI representative, Union Commission on Planetary Sciences (UCPS)</i>	Université Paris Diderot Institut de Physique du Globe de Paris 35 rue Hélène Brion - Case 7071 Lamarck A 75205 Paris Cedex 13 FRANCE	T: 33 1 57 27 53 05 lognonne[at]ipgp.fr
<b>LOKMER</b> Dr. Ivan <i>IAVCEI National Correspondent</i>	UCD School of Earth Sciences University College Dublin Belfield Dublin 4 IRELAND	T: 353 1 716 2137 F: 353 1 283 7733 Ivan.lokmer[at]ucd.ie
<b>LÓPEZ MORENO</b> Dr. Carmen <i>IAVCEI National Correspondent</i>	Instituto Geográfico Nacional Subdirección General de Vigilancia, Alerta y Estudios Geofísicos Calle General Ibañez de Ibero, 3 28071 Madrid SPAIN	T: +34 627625937 clmoreno[at]mitma.es
<b>LÓPEZ-PORTELA</b> Ms Cynthia <i>Chair, IAGA Division IV</i>	Instituto de Geofísica, UNAM Departamento de Ciencias Espaciales C.U., Coyoacán, 04150, CDMX MEXICO	cynthialp[at]geofisica.unam.mx
<b>LOTZ</b> Dr. Stefan <i>IAGA National Correspondent</i>	South African National Space Agency Space Science Division Hospital Street Hermanus, 7200 SOUTH AFRICA	slotz[at]sansa.org.za
<b>LU</b> Dr. Chengpeng <i>Vice-President, IAHS ICGW</i>	College of Hydrology and Water Resources Hohai University Xikang Rd No.1 Nanjing, 210098 CHINA	T: 86 0258 378 7683 luchengpeng[at]hhu.edu.cn

<b>LUCERI</b> Dr. Vincenza <i>Service Representative, IAG Executive Committee</i>	e-GEOS S.p.A. Matera Space Center P.O. Box ADP 75100 Matera ITALY	cinzia.luceri[at]e-geos.it
<b>LUDDEN</b> Prof. Dr. John <i>Bureau Member, SCL/ILP (IUGS Representative)</i>	IUGS President Avallon FRANCE	Jnludden[at]gmail.org
<b>LUDWIGSEN</b> Dr. Carsten B. <i>Vice-Chair (IAG), IACS/IAG Sub-Commission on Cryospheric Deformation</i>	Technical University of Denmark (DTU) Department of Space Research and Technology Geodesy and Earth Observation Elektrovej 328, 106 2800 Kgs. Lyngby DENMARK	caanlu[at]dtu.dk
<b>LUKS</b> Dr. Bartlomiej <i>IACS National Correspondent</i>	Polish Academy of Sciences Institute of Geophysics Ksiecia Janusza St. 64 01-452 Warsaw POLAND	T: 48 22 691 5894 F: 48 22 691 5915 luks[at]igf.edu.pl
<b>LUOTO</b> MSc. Toni <i>Secretary, National Committee</i>	Geological Survey of Finland (GTK) P.O. Box 96 02151 Espoo FINLAND	T: 358 29 5032132 toni.luoto[at]gtk.fi
<b>LUPTON</b> Dr. Claire <i>Executive Secretary, IAHS</i>	IAHS, UKCEH Maclean Building, Benson Lane Wallingford, Oxfordshire, OX10 8BB UK	T: 44 1491 692515 claire[at]iahs.co.uk
<b>LYU</b> Prof. Dr. Weitao <i>Secretary, IAMAS ICAE</i>	Chinese Academy of Meteorological Sciences No. 46 Zhongguancun South Avenue Haidian District Beijing, 100081 CHINA	T: 86 10 68406649 T: 86 13522278751 weitao.lyu[at]gmail.com
<b>MA</b> Prof. Kuo-Fong <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Academia Sinica Institute of Earth Sciences P.O. Box 1-55 Nangkang Taipei, Taiwan, 115 CHINA-TAIPEI	T: 886 2 27839910 2719 F: 886 886 2 2783 9871 fong[at]earth.sinica.edu.tw
<b>MABRES</b> Dr. Antonio <i>IAHS National Correspondent</i>	Universidad de Piura Av. Ramón Mugica 131 Urb. El Chipe Piura PERU	T: 51 7 430 8800 F: 51 7 430 8800 mabres[at]udep.edu.pe
<b>MACEDO</b> Dr. Orlando <i>IAVCEI National Correspondent</i>	Instituto Geofisico del Perú Calle Calatrava 216 Urb. Camino Real La Molina Lima 12 PERU	T: 51 1 437 0244 F: 51 1 437 0244 omacedo[at]geo.igp.gob.pe
<b>MACELLONI</b> Dr. Giovanni <i>IACS Alternate National Correspondent</i>	CNR - Istituto di Fisica Applicata "Nello Carrara" Via Madonna del Piano, 10 50019 Sesto Fiorentino FI ITALY	T: 39 055 5226495 giovanni.macelloni[at]cnr.it
<b>MACHUCA</b> CR (R) Ingeniero Geógrafo Jorge Horacio <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2024-2027)</i>	Instituto Geográfico Nacional Av. Cabildo 381 Ciudad Autónoma de Buenos Aires ARGENTINA	jmachuca[at]ign.gob.ar
<b>MACÍAS VÁZQUEZ</b> Prof. José Luis <i>Executive Committee Member, Union Commission on Planetary Sciences (UCPS)</i> <i>President, National Committee</i>	Director Instituto de Geofísica, UNAM Ciudad Universitaria 04510 Ciudad de México MEXICO	T: 52 55 5622 4122 T: 52 55 5623 7371 jlmacias[at]igeofisica.unam.mx direccion[at]igeofisica.unam.mx
<b>MACKERN</b> Prof. María Virgínia <i>Member-at-Large, IAG Executive Committee</i>	Centro Científico Tecnológico (CCT) CONICET Mendoza Av. Ruiz Leal s/n Parque General San Martín Mendoza, CP 5500 ARGENTINA	vmackern[at]mendoza-conicet.gob.ar

<b>MACKINTOSH</b> Prof. Andrew <i>Bureau Member, IUGG</i> <i>Chair, IUGG Equality, Diversity, and Inclusion Committee</i> <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i> <i>IUGG Liaison, ISC Scientific Committee on Antarctic Research (SCAR)</i> <i>Vice-President, IACS</i>	Monash School of Earth, Atmosphere and Environment Monash University 9 Rainforest Walk Clayton campus, Melbourne, 3800 AUSTRALIA	T: 61 3 990 29095 andrew.mackintosh[at]monash.edu
<b>MAJSTOROVIC</b> Mr. Željko <i>IAMAS National Correspondent</i>	Federal Hydrometeorological Institute Bardakcije 12 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 553 438 F: 387 33 276 701 zmajstor.majstor[at]gmail.com
<b>MAKROPOULOS</b> Prof. Emer. Konstantinos <i>Secretary, National Committee</i> <i>IASPEI National Correspondent</i>	National & Kapodistrian University of Athens Department of Geology and Geoenvironment Panepistimioupolis, Zografos Athens, 157 84 GREECE	F: 30 210 8030107 F: 30 210 8030107 kmacrop[at]geol.uoa.gr
<b>MAKSIMOWICZ Jeria</b> Prof. Andrei <i>IASPEI National Correspondent</i>	Departamento de Geofísica, FCFM Universidad de CHILE Blanco Encalada 2002 Santiago CHILE	T: 56 2978 4562 T: 56 2978 4425 andrei.maksymowicz[at]uchile.cl
<b>MAKURIRA</b> Dr. Hodson <i>Chair, IAHS Africa Regional Committee</i>	University of Zimbabwe Churchill Road Mt Pleasant Harare ZIMBABWE	T: 263 7724 20466 hmakurira[at]yahoo.com
<b>MALINOVIC-MILIĆEVIĆ</b> Dr. Slavica <i>Member, National Committee</i>	Geographical Institute "Jovan Cvijić" Serbian Academy of Sciences and Arts Đure Jakšića 9 11000 Belgrade SERBIA	T: 381 11 2636 395 T: 381 11 2636 594 F: 381 11 2637 597 s.malinovic-milicevic[at]gi.sanu.ac.rs
<b>MANDEA</b> Prof. Mioara <i>President-Elect, IUGG</i> <i>Member, IUGG Statutes and By-Laws Committee</i> <i>Past President, IAGA (2019-2023)</i>	Centre National d'Etudes Spatiales (CNES) 2, Place Maurice Quentin 75001 Paris FRANCE	T: 33 1 4476 7948 mioara111[at]gmail.com president-elect[at]iugg.org
<b>MANFREDA</b> Dr. Salvatore <i>Chair, IAHS MOXXI</i>	Department of Civil, Building and Environmental Engineering University of Naples Federico II via Claudio, 21 Napoli ITALY	T: 39 081 7683431 salvatore.manfreda[at]unina.it
<b>MANTELLI</b> Prof. Elisa <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IACS Representative</i>	Ludwig-Maximilians-Universität München Department of Earth and Environmental Sciences Theresienstraße 41 80333 München GERMANY	Elisa.Mantelli[at]lmu.de
<b>MARCOS</b> Eng. Severino <i>IASPEI National Correspondent</i>	Direção Nacional de Geologia C.P. 217 Maputo MOZAMBIQUE	T: 258 82 312 8890 T: 258 82 447 4430 F: 258 429 216 chiabue[at]hotmail.com chiabue[at]yahoo.com.br
<b>MARKUSIC</b> Assoc. Prof. Dr. Snjezana <i>IASPEI National Correspondent</i>	Andrija Mohorovicic Geophysical Institute Faculty of Sciences University of Zagreb Horvatovac 95 10000 Zagreb CROATIA	T: 385 1 460 5913 F: 385 1 468 0331 markusic[at]gjfz.hr
<b>MARTÍ Molist</b> Prof. Joan <i>Member Advisory Committee, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Geosciences Barcelona, CSIC Lluís Sole Sabaris s/n 08028 Barcelona SPAIN	T: 34 93 409 5410 jmarti[at]geo3bcn.csic.es joanmartimolist[at]gmail.com
<b>MARTINEZ-CALDERON</b> Dr. Claudia <i>Co-Chair, IAGA/URSI WG VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere (VERSIM)</i>	Institute for Space-Earth Environmental Research Nagoya University Nagoya JAPAN	claudia[at]isee.nagoya-u.ac.jp

<b>MARULANDA MORALES</b> Dr. Gustavo Adolfo <i>President, National Committee</i>	General Director Instituto Geográfico Agustín Codazzi Carrera 30 No. 48-51 Bogotá, D.C. COLOMBIA	direccion[at]igac.gov.co
<b>MARZOCCHI</b> Prof. Warner <i>Scientific Secretary, National Committee</i> <i>IASPEI National Correspondent</i>	Università di Napoli "Federico II" Dipartimento di Scienze della Terra dell'Ambiente e delle Risorse - Complesso di Monte Sant'Angelo Via Cinthia, 21 80126 Napoli ITALY	warner.marzocchi[at]unina.it
<b>MARZOUK</b> Dr. Osama <i>Contact Person, Adhering Organization</i>	Acting Director General Scientific Societies and International Unions Dept. Academy of Scientific Research and Technology (ASRT) 101 Kasr El-Eini Street Cairo EGYPT	T: 20 1 223880267 eg.comm[at]asrt.sci.eg gelfeky[at]hotmail.com
<b>MASUMOTO</b> Prof. Yukio <i>Member, IAPSO Executive Committee</i> <i>Secretary, National Committee</i> <i>IAPSO National Correspondent</i>	The University of Tokyo Dept. of Earth and Planetary Science Graduate School of Science 7-3-1 Hongo, Bunkyo-ku Tokyo, 113-0033 JAPAN	T: 81 3 5841 4297 masumoto[at]eps.s.u-tokyo.ac.jp
<b>MATEESCU</b> Dr. Elena <i>IAMAS National Correspondent</i>	National Administration of Meteorology Sos. Bucuresti - Ploiești, nr. 97 013686 Bucharest ROMANIA	T: 40 21 316 4292 F: 40 21 316 3143 elena.mateescu[at]meteорomania.ro
<b>MATHER</b> Prof. Tamsin A. <i>IAVCEI National Correspondent</i>	Department of Earth Sciences University of Oxford South Parks Road Oxford, OX1 3AN UK	T: 44 1865 282125 tamsin.mather[at]earth.ox.ac.uk
<b>MATRAKU</b> Dr. Kristina <i>IAG Alternate National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 k.matraku[at]geo.edu.al
<b>MATSUO</b> Assoc. Prof. Tomoko <i>Chair, IAGA Working Group GeoDAWG</i> <i>IAGA National Correspondent</i>	University of Colorado Boulder Ann and H.J. Smead Department of Aerospace Engineering Sciences 3775 Discovery Drive, CCAR Boulder, CO, 80303-0429 USA	T: 1 303 735 7144 tomoko.matsuо[at]colorado.edu
<b>MATSUOKA</b> Prof. Ayako <i>Co-Chair, IAGA Working Group V-DAT</i>	Kyoto University Data Analysis Center for Geomagnetism and Space Magnetism Graduate School of Science Kitashirakawa Oiwake-cho, Sakyo-ku Kyoto, 606-8502 JAPAN	matsuoka[at]kugi.kyoto-u.ac.jp
<b>MATUSIAK-MALEK</b> Prof. Dr. Magdalena <i>IAVCEI National Correspondent</i>	Wroclaw University Institute of Geological Sciences W. Cybulskiego St. 32 50-205 Wroclaw POLAND	T: 48 71 375 2215 F: 48 71 372 4030 magdalena.matusiak-malek[at]uwr.edu.pl
<b>MATZKA</b> Dr. Jürgen <i>Co-Chair, IAGA Working Group V-OBS</i>	Adolf-Schmidt-Observatory for Geomagnetism Niemegk GFZ Helmholtz Centre for Geosciences Lindenstr. 7 14823 Niemegk GERMANY	T: 49 33843 624 18 jmat[at]gfz.de
<b>MAZOT</b> Dr. Agnes <i>Co-Leader, IAVCEI Commission on Volcanic Lakes</i>	GNS Science Natural hazards and risks 12 Madden Street, Wynyard Quarter Auckland, 1010 NEW ZEALAND	A.Mazot[at]gns.cri.nz
<b>MAZRAEH EI FARAHANI</b> Assoc. Prof. Dr. Majid <i>IACS National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 mazraeh[at]ut.ac.ir

<b>McCARRON</b> Dr. Stephen <i>IACS National Correspondent</i>	Department of Geography Maynooth University Maynooth, Co. Kildare <b>IRELAND</b>	T: 353 1 708 6147 F: 353 1 708 3573 stephen.mccarron[at]nuim.ie
<b>MCCARTHY</b> Dr. Gerard Daniel <i>IAPSO National Correspondent</i>	Department of Geography Maynooth University Maynooth. Co. Kildare <b>IRELAND</b>	gerard.mccarthy[at]mu.ie
<b>McCORMACK</b> Dr. Felicity <i>Co-Chair, IACS-IAPSO Joint Commission on Ice-Ocean Interactions (IAPSO)</i>	Monash University School of Earth Atmosphere and Environment Wellington Road Clayton, VIC, 3800 <b>AUSTRALIA</b>	Felicity.McCormack[at]monash.edu
<b>McDOUGALL</b> Emeritus Prof. Trevor J. <i>Past President, IAPSO (2019-2023)</i> <i>IAPSO National Correspondent</i>	University of New South Wales School of Mathematics and Statistics Sydney, NSW, 2052 <b>AUSTRALIA</b>	T: 61 4 0751 8183 trevor.mcdougall[at]unsw.edu.au
<b>MCFARQUHAR</b> Prof. Greg <i>President, IAMAS ICCP</i>	Cooperative Institute for Severe and High Impact Weather Research and Operations, and School of Meteorology University of Oklahoma 120 David L. Boren Blvd Norman, OK, 73-72 <b>USA</b>	T: 1 405 325 3041 mcfarq[at]ou.edu
<b>McPHEE</b> Dr. James <i>President-Elect, IAHS ICSIH</i>	Department of Civil Engineering Faculty of Physical and Mathematical Sciences Universidad de Chile Av. Beauchef 850 Santiago <b>CHILE</b>	T: 56 2 29784400 jmcphee[at]ing.uchile.cl
<b>MEAD</b> Dr. Stuart <i>Co-Leader, IAVCEI Commission on Statistics in Volcanology</i>	Massey University Institute of Agriculture and Environment Palmerston North, 4442 <b>NEW ZEALAND</b>	T: 64 69519208 S.Mead[at]massey.ac.nz
<b>MEDVED</b> Dr. Klemen <i>IAG National Correspondent</i>	The Surveying and Mapping Authority of the Republic of Slovenia (SMARS) Zemljemerska 12 SI- 1000 Ljubljana <b>SLOVENIA</b>	klemen.medved[at]gov.si
<b>MEGHRAOUI</b> Prof. Mustapha <i>Past-President, IASPEI African Seismological Commission (AfSC)</i>	Université de Strasbourg EOST-Institut de Physique du Globe (UMR 7516) 5, rue René Descartes 67084 Strasbourg cedex <b>FRANCE</b>	T: 33 368 850 111 m.meghraoui[at]unistra.fr
<b>MEKHAIMR</b> Dr. Sayed Abdelmonam <i>IAMAS National Correspondent</i>	National Research Institute of Astronomy and Geophysics Helwan, Cairo <b>EGYPT</b>	T: 20 0122 154 6080 F: 20 2 2554 8020 mekhaimr[at]nriag.sci.eg sayedmekhaimr[at]gmail.com
<b>MELNIK</b> Prof. Oleg <i>EC Member, Union Commission on Mathematical Geophysics (CMG)</i>	Université Grenoble Alpes Institut des Sciences de la Terra (ISTerre) CS 40700 38058 Grenoble, Cedex 9 <b>FRANCE</b>	oemelnik[at]gmail.com
<b>MENDEZ</b> Dr. Fernando <i>Member, National Committee</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo <b>PARAGUAY</b>	T: 595 971996563 F: 595 21 585600 fmendez[at]facen.una.py
<b>MENDOZA Zúñiga</b> Eng. Pablo <i>IAHS National Correspondent</i>	Departamento de Ingeniería Civil Universidad de Chile Blanco Encalada 2002 Santiago <b>CHILE</b>	T: 56 2 29784400 T: 56 2 2978 4376 pamendoza[at]uchile.cl
<b>MERKOWITZ</b> Dr. Stephen M. <i>Chair Governing Board, IAG International GNSS Service (IGS)</i>	NASA's Goddard Space Flight Center Mail Code: 61A Greenbelt, MD, 20771 <b>USA</b>	stephen.m.merkowitz[at]nasa.gov

<b>MERLET</b> Dr. Sébastien <i>IUGG Liaison, Consultative Committee for Time and Frequency (CCTF)</i>	Observatoire de Paris / LNE · Systèmes de Référence Temps Espace Avenue de l'Observatoire 61 75014 Paris FRANCE	T: 33 1 40 51 23 93 sebastien.merlet[at]obspm.fr
<b>MIETTINEN</b> Dr. Arto <i>Contact Person, Adhering Organization</i>	Academy Secretary The Council of Finnish Academies Pohjoinen makasiinikatu 7 A 00130 Helsinki FINLAND	T: 358 50 313 5112 arto.miettinen[at]academies.fi
<b>MIGLIETTA</b> Dr. Mario Marcello <i>IAMAS National Correspondent</i>	CNR - Istituto di Scienze dell'Atmosfera e del Clima (ISAC) Corso Stati Uniti, 4 35127 Padova ITALY	T: 39 049 8295926 M.Miglietta[at]isac.cnr.it
<b>MIKLANEK</b> Dr. Pavol <i>Member, National Committee</i>	Slovak Academy of Sciences Institute of Hydrology Dubravská cesta 9 814 04 Bratislava SLOVAK REPUBLIC	T: 421 2 3229 3505 F: 421 2 4425 9404 miklanek[at]uh.savba.sk
<b>MILANI</b> Dr. Lisa <i>Vice-President, IAHS ICRS</i>	NASA Goddard Space Flight Center 8800 Greenbelt Rd. Greenbelt, MD, 20771 USA	T: 1 301 614-5703 lisa.milani[at]nasa.gov
<b>MILANOVIĆ PEŠIĆ</b> Dr. Ana <i>IAHS National Correspondent</i>	Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts Đure Jakšića 9 11000 Belgrade SERBIA	T: 381 11 2636 395 T: 381 11 2636 594 F: 381 11 2637 597 a.milanovic[at]gi.sanu.ac.rs
<b>MILLER</b> Dr. Victoria <i>Leader, IAVCEI International Network for VOLcanology Collaboration (INVOLC)</i>	Montserrat Volcano Observatory Hope Dr Flemmings MONTSERRAT	T: 1 664 4915647 victoria.miller.mvo[at]gmail.com
<b>MILOVANOVIC</b> Dr. Boško <i>Member, National Committee</i>	Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts Đure Jakšića 9 11000 Belgrade SERBIA	T: 381 11 2636 395 T: 381 11 2636 594 F: 381 11 2637 597 b.milovanovic[at]gi.sanu.ac.rs
<b>MIR</b> Mr. Hazrat <i>IAMAS National Correspondent</i>	Pakistan Meteorological Department P.O. Box 1214, H-8/2 Islamabad PAKISTAN	T: 92 51 925 0359 F: 92 51 925 0368 pmd[at]paknet.com.pk hazratmir2007[at]yahoo.com
<b>MIRALLES</b> Dr. Mari Paz <i>IUGG Liaison, UNESCO Section on Earth Sciences</i>	Center for Astrophysics / Harvard & Smithsonian 60 Garden Street MS 16 Cambridge, MA, 02138 USA	T: 1 617 496 7925 mmiralles[at]cfa.harvard.edu
<b>MIRONOVA</b> Dr. Irina <i>Chair, IAGA Working Group II-G</i>	St. Petersburg State University Universitetskaya emb.7/9 St Petersburg RUSSIA	T: 7 812 428 7300 i.a.mironova[at]spbu.ru
<b>MIRZAEI</b> Prof. Dr. Noorbakhsh <i>IASPEI &amp; IAVCEI National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 nmirzaii[at]ut.ac.ir
<b>MITCHELL</b> Dr. Sam <i>Leader, IAVCEI Commission on Submarine Volcanism</i>	University of Bristol School of Earth Sciences Wills Memorial Building, Queens Road Bristol, BS8 1RJ UK	sam.mitchell[at]bristol.ac.uk
<b>MITCHUM</b> Prof. Gary T. <i>President, IAPSO Commission on Sea Level and Tides</i>	University of South Florida 140 Seventh Ave. South Saint Petersburg, FL, 33701 USA	T: 1 727 553 3941 F: 1 727 553 1189 mitchum[at]usf.edu
<b>MITROFANOVS</b> Dr. sc. ing. Ingus <i>IAG National Correspondent (alternate)</i>	University of Latvia Jelgavas Street 3 1004 Riga LATVIA	Ingus.mitrofanovs[at]lu.lv

<b>MITROVIĆ</b> Dr. Srđan <i>Member, National Committee</i>	NOVELIC Velika Dugoševića 54 11000 Belgrade SERBIA	T: 381 64 3198 207 F: 381 11 6558 799 mitar027[at]beotel.net
<b>MITTAL</b> Prof. Tushar <i>Co-Leader, IAVCEI Commission on Submarine Volcanism</i>	Penn State Department of Geosciences 116 Deike Building University Park Pennsylvania, PA, 16802 USA	tmittal[at]psu.edu
<b>MOCZO</b> Prof. Peter <i>Member, National Committee</i>	Comenius University Faculty of Mathematics, Physics and Informatics Mlynska dolina F1 842 48 Bratislava SLOVAK REPUBLIC	T: 421 2 6542 9025 F: 421 2 6542 5982 moczo[at]fmph.uniba.sk
<b>MOFFAT-GRIFFIN</b> Dr. Tracy <i>Secretary, IAMAS ICPM</i>	British Antarctic Survey High Cross Madingley Road Cambridge, CB3 0ET UK	T: 44 1223221566 tmof[at]bas.ac.uk
<b>MOHALFI</b> Dr. Saad <i>IAMAS National Correspondent</i>	National Center of Meteorology and Environment P.O.Box 1358 Jeddah, 21431 SAUDI ARABIA	T: 966 2 653 6444 F: 966 2 657 2931 saadpm[e]at]yahoo.com
<b>MOHEBALHOJEH</b> Prof. Ali Reza <i>Secretary, National Committee</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 amoheb[at]ut.ac.ir
<b>MOKHOV</b> Dr. Igor I. <i>IAMAS National Correspondent</i>	Russian Academy of Sciences (RAS) Obukhov Institute of Atmospheric Physics 3 Pyzhevsky lane 119017 Moscow RUSSIA	T: 7 495 951 5565 F: 7 495 953 1652 mokhov[at]ifaran.ru
<b>MOLEFFE</b> Ms. Busiswa <i>Secretary, National Committee; Contact Person, Adhering Organization</i>	National Research Foundation (NRF) Knowledge Advancement and Support (KAS) Meiring Naude Road Brummeria PO Box 2600 Pretoria, 0001 SOUTH AFRICA	T: 27 12 481 4028 busiswa[at]nrf.ac.za
<b>MOLINAS</b> M.Sc. Sonia <i>IAHS National Correspondent</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 985616666 F: 595 21 585600 soniamolin[e]at]facen.una.py
<b>MOLNAR</b> Prof. Dr. Peter <i>Vice-President, IAHS ICCE IAHS National Correspondent</i>	ETH Zurich Institute of Environmental Engineering Laura-Hezner-Weg 7 8093 Zurich SWITZERLAND	T: 41 44 633 2958 F: 41 44 633 1539 molnar[at]ifu.baug.ethz.ch
<b>MONFRET</b> Dr. Tony <i>IASPEI National Correspondent</i>	Géoscience Azur 250 rue Albert Einstein 06560 Valbonne FRANCE	monfret[at]geoazur.unice.fr
<b>MONTANARI</b> Prof. Dr. Alberto <i>Member, Union Commission on Climatic and Environmental Change (CCEC) IAHS National Correspondent</i>	Università degli Studi di Bologna Ambientale e dei Materiali Alma Mater Studiorum Via Zamboni, 33 40100 Bologna ITALY	T: 39 051 20 9 3356 alberto.montanari[at]unibo.it
<b>MONTGOMERY-BROWN</b> Dr. Emily <i>Leader, IAVCEI Commission on Volcano Geodesy</i>	US Geological Survey California Volcano Observatory 345 Middlefield Road Menlo Park, CA, 94025 USA	T: 1 650 329 5227 emontgomery-brown[at]usgs.gov
<b>MONTOYA-GAVIRIA</b> Mr. Gerardo de Jésus <i>IAMAS National Correspondent</i>	Universidad Nacional de Colombia Departamento de Geociencias Ciudad Universitaria Bogotá, D.C. COLOMBIA	T: 57 1 316 5000 ext. 16552 F: 57 1 316 5390 gemonga[at]gmail.com

<b>MORAMARCO</b> Dr. Tommaso <i>IAHS Alternate National Correspondent</i>	CNR - Istituto di Ricerca per la Protezione Idrogeologica Via Madonna Alta, 126 06128 Perugia ITALY	T: 39 075 501 4402 t.moramarco[at]iripi.cnr.it
<b>MORAN</b> Mr. Eoin <i>IAMAS National Correspondent</i>	Met Éireann Glasnevin Hill Dublin 9 IRELAND	T: 353 1 806 4259 Eoin.Moran[at]met.ie
<b>MOREYDO</b> Dr. Vsevolod <i>Vice-President, IAHS ICSIH</i>	Institute of Water Problems Russian Academy of Sciences RUSSIA	T: 7 499 783 37 56 # 242 moreydo[at]mail.ru
<b>MORLIGHÉM</b> Prof. Mathieu <i>President Elect, IACS</i> <i>IACS National Correspondent</i>	Dartmouth College Department of Earth Sciences 207 Fairchild Hanover, NH, 03755 USA	T: 1 949 201 5196 mathieu.morlighem[at]dartmouth.edu
<b>MOROZOV</b> Dr. Eugene G. <i>Vice-President, National Committee</i>	Russian Academy of Sciences (RAS) Shirshov Institute of Oceanology 36 Nakhimovsky ave 117997 Moscow RUSSIA	T: 7 499 129 1945 T: 7 967 1331880 F: 7 499 124 5983 egmorozov[at]mail.ru egmorozov[at]gmail.com
<b>MOSHI</b> Mr. Mvula F. <i>IAGA National Correspondent</i>	Centre de Recherche en Géophysique (CRG) B.P. 10336 Kinshasa D.R. CONGO	T: 243 81 178 1881 fremoshi[at]yahoo.fr
<b>MOSQUITO</b> Dr. Domingos Patrício <i>IAMAS National Correspondent</i>	Instituto Nacional de Meteorologia C.P. 256 Maputo MOZAMBIQUE	T: 258 21 490 064 T: 258 82 692 3210 F: 258 21 491 150 domingos_p[at]inam.gov.mz
<b>MOTT-GRÜNEWALD</b> Dr. Rebecca <i>Head, IACS Division I</i>	WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 7260 Davos Dorf SWITZERLAND	mott[at]slf.ch
<b>MOUFTI</b> Prof. Mohammed Rashad Hassan <i>IAVCEI National Correspondent</i>	King Abdulaziz University (KAU) P.O. Box 80206 Jeddah, 21589 SAUDI ARABIA	T: 966 2 695 2325 ext. 52325 F: 966 2 695 2095 mmoufti[at]kau.edu.sa
<b>MOYA</b> Dr. Jorge <i>IAG National Correspondent</i>	Head of Centro Nacional de Procesamiento de Datos GNSS (CNPDG) Universidad Nacional Apartado 86-3000 Heredia COSTA RICA	T: 506 2277 3335 jorge.moya.zamora[at]juna.cr
<b>MU</b> Prof. Dr. Mu <i>Member at Large, IAMAS</i> <i>IAMAS National Correspondent</i>	Fudan University Department of Atmospheric and Oceanic Sciences Lin taijue environment building 2005 songhu road Shanghai, 200438 CHINA	T: 86 21 31248899 F: 86 21 31248888 mumu[at]fudan.edu.cn
<b>MUCEKU</b> Prof. Dr. Bardhyl <i>IAVCEI National Correspondent</i>	Universiteti Politeknik i Tiranës Faculty of Geology and Mines Tirana ALBANIA	T: +355 42 375 246/5 bardhyl.muceku[at]fgjm.edu.al
<b>MUCEKU</b> Prof. Dr. Ylber <i>Chair, National Committee</i> <i>IASPEI National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 y.muceku[at]geo.edu.al
<b>MUELLER</b> Prof. Dr. Dietmar <i>Advisory Board, SCL/ILP</i>	School of Geosciences Madsen Building F09 Fisher Road The University of Sydney, NSW 2006 AUSTRALIA	T: 61 2 9036 6533 F: 61 2 9351 0184 dietmar.muller[at]sydney.edu.au
<b>MUJUI</b> Mr. Salomão <i>IAVCEI National Correspondent</i>	Direcção Nacional de Geologia C.P. 217 Maputo MOZAMBIQUE	T: 258 21 312 082 T: 258 82 886 4370 F: 258 21 429 216 semujui[at]gmail.com

<b>MUJUMDAR</b> Prof. Pradeep P. <i>IACS &amp; IAHS National Correspondent</i>	Department of Civil Engineering Indian Institute of Science Bangalore, 560 012 INDIA	pradeep[at]iisc.ac.in
<b>MULIC</b> Assoc. Prof. Dr. sc. Medzida <i>IAG National Correspondent</i>	University of Sarajevo Faculty of Civil Engineering Department of Geodesy and Geoinformatics Stjepana Tomica 1/Ill 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 201 151 F: 387 33 200 158 medzida_mulic[at]gf.unsa.ba medzida_mulic[at]yahoo.com
<b>MÜLLER</b> Prof. Dr.-Ing. habil. Jürgen <i>Member, IUGG Site Comparison Committee</i> <i>President, IAG Project Novel Sensors and Quantum Technology for Geodesy (QuGe)</i> <i>President, National Committee</i> <i>IAG National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Leibniz University Hannover Institute of Geodesy Schneiderberg 50 30167 Hannover GERMANY	T: 49 511 762 3362 F: 49 511 762 4006 mueller[at]ife.uni-hannover.de
<b>MUNOZ</b> Ms. Angelica <i>IAVCEI National Correspondent</i>	INETER Frente a Hospital Solidaridad. Apdo. 2110 Managua NICARAGUA	T: 505 22493890 angelica.munoz[at]gfi.ineter.gob.ni
<b>MURRAY-BERGQUIST</b> M.Sc. Louisa <i>IASPEI Early Career Scientists Group</i>	Vrije Universiteit Amsterdam Department of Earth Sciences De Boelelaan 1081-1087 1081 HV Amsterdam NETHERLANDS	louisa.murray.berg[at]gmail.com
<b>MUZIO</b> Dr. Rossana <i>IAVCEI National Correspondent</i>	Universidad de la República Facultad de Ciencias Iguá 4225 Montevideo URUGUAY	T: 598 2 525 8691/7164 rossana[at]fcien.edu.uy rossana.muzio[at]gmail.com
<b>NAGAO</b> Prof. Toshiyasu <i>Chair, IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes &amp; Volcanoes (EMSEV)</i>	Institute of Oceanic Research & Development Tokai University 3-20-1 Orido, Shimizu-ku Shizuoka, 424-0902 JAPAN	T: 81 54 337 0946 nagao[at]scc.u-tokai.ac.jp
<b>NAGY</b> Dr. Gustavo <i>IASPEI National Correspondent</i>	Universidad de la República Facultad de Ciencias Iguá 4225 Montevideo URUGUAY	T: 598 2 5258618 7151 gustavo.nagy56[at]gmail.com
<b>NAHMANI</b> Dr. Samuel <i>General Secretary, National Committee</i>	Institut de Physique du Globe de Paris Équipe de Géodésie (UMR IPGP) Bâtiment Lamarck A - Case courrier 7071 5, rue Thomas Mann 75205 Paris Cedex 13 FRANCE	secretaire-general[at]cnfgg.fr samuel.nahmani[at]u-paris.fr
<b>NAKAHARA</b> Prof. Hisashi <i>Co-Chair, IASPEI Working Group on Seismic Scattering &amp; Heterogeneity</i>	Solid Earth Physics Laboratory Department of Geophysics Graduate School of Science Tohoku University 6-3, Aramaki Aza-Aoba, Aoba-ku, Sendai, Miyagi, 980-8578 JAPAN	T: 81 22 795 6532 naka134[at]tohoku.ac.jp
<b>NAKAMURA</b> Prof. Hisashi <i>IAMAS National Correspondent</i>	The University of Tokyo Research Center for Advanced Science and Technology 4-6-1 Komaba, Meguro-ku Tokyo, 153-8904 JAPAN	T: 81 3 5452 5145 F: 81 3 5452 5148 hisashi[at]atmos.rcast.u-tokyo.ac.jp
<b>NAKAMURA</b> Prof. Takuji <i>IAGA National Correspondent</i>	National Institute of Polar Research 10-3 Midori-cho, Tachikawa Tokyo, 190-8518 JAPAN	T: 81 42 512 0640 F: 81 42 528 3164 nakamura.takuji[at]nipp.ac.jp
<b>NALCI</b> Dr. Col. Eng. İbrahim <i>Vice-President, National Committee</i>	Head of Technical Department General Directorate of Mapping 06590 Cebeci/Cankaya, Ankara TÜRKİYE	T: 90 312 595 2200 F: 90 312 320 1495 ibrahim.nalci[at]harita.gov.tr

<b>NÄRÄNEN</b> Dr. Jyri <i>IAG National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	FGI - Finnish Geospatial Research Institute Department of Geodesy and Geodynamics Geodeettirinne 2 02430 Masala FINLAND	T: 358 50 435 7258 jyri.naranen[at]nls.fi
<b>NAVARRO VALERO</b> Dr. Francisco <i>IACS National Correspondent</i>	Universidad Politecnica de Madrid Escuela Técnica Superior de Telecomunicación Departamento de Matemática Aplicada a las TIC Av. Complutense, 30 28040 Madrid SPAIN	T: 34 910672279 francisco.navarro[at]upm.es
<b>NAZARETYAN</b> Prof. Sergey <i>Secretary, National Committee</i> <i>IAVCEI National Correspondent</i>	Territorial Survey for Seismic Protection Ministry of Emergency Situations 5a V. Sargsyan Str. Gyumri, 3115 ARMENIA	T: 374 98418746 F: 374 31 231 580 snaznssp[at]mail.ru
<b>NEGENDANK</b> Prof. Dr. Jörg <i>ILP Fellow, SCL/ILP</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1331 neg[at]gfz.de
<b>NEGRETE-ARANDA</b> Dr. Raquel <i>Chair, IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)</i>	Catedrático Conacyt CICESE Departamento de Geología Carretera Tijuana-Ensenada 3918 Zona Playitas, 22860 MEXICO	chair[at]ihfc-iugg.org negrete[at]cicese.mx rnegrete73[at]yahoo.com.mx
<b>NEJEDLIK</b> Dr. Pavol <i>IAMAS National Correspondent</i>	Slovak Academy of Sciences Earth Science Institute Dubravská cesta 9, P.O. Box 106 840 05 Bratislava SLOVAK REPUBLIC	T: 421 2 5941 0605 F: 421 2 5941 0607 geofpane[at]savba.sk
<b>NEMEC</b> Frantisek <i>Chair, IAGA/URSI WG VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere (VERSIM)</i>	Faculty of Mathematics and Physics Charles University Prague CZECH REPUBLIC	frantisek.nemec[at]mf.f.cuni.cz
<b>NEMETH</b> Dr. Karoly <i>Co-Leader, IAVCEI Commission on Volcano Geology</i>	Saudi Geological Survey National Center for Earthquakes and Volcanoes Jeddah, 21514 SAUDI ARABIA	k.nemeth[at]massey.ac.nz
<b>NEREM</b> Dr. R. Steven <i>IAG National Correspondent</i>	Colorado Center for Astrodynamics Research University of Colorado Boulder 431 UCB ENCT 319 Boulder, CO, 80309 USA	T: 1 303-492-6721 nerem[at]colorado.edu
<b>NESKA</b> Prof. Dr. Anne <i>IAGA National Correspondent</i>	Polish Academy of Sciences Institute of Geophysics Ksiecia Janusza St. 64 01-452 Warsaw POLAND	T: 48 486 610 834 F: 48 22 691 5915 anne[at]igf.edu.pl
<b>NEUBERG</b> Prof. Jürgen <i>Chair &amp; IASPEI Representative, IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics</i>	The University of Leeds School of Earth and Environment Institute of Geophysics & Tectonics Leeds, LS2 9JT UK	T: 44 113 343 6769 j.neuberg[at]leeds.ac.uk
<b>NEWCOMER</b> Dr. Michelle <i>President-Elect, IAHS/ICGW</i>	Lawrence Berkeley National Laboratory 1 Cyclotron Road, MS 74R316C Berkeley, CA USA	T: 1 9253609351 mnewcomer[at]lbl.gov
<b>NG</b> Mrs. D. Lan <i>Secretary General, National Committee</i>	Department of Environment 2nd Floor, Ken Lee Tower Line Barracks Street Port Louis MAURITIUS	T: 230 212 6080 F: 230 212 6671 dirdoe[at]govmu.org
<b>NHATSAVE</b> Mr. Armindo Alberto <i>IAGA National Correspondent</i>	Instituto Nacional de Minas C.P. 217 Maputo MOZAMBIQUE	T: 258 21 312 082 T: 258 82 826 1790 F: 258 21 429 216 armindo.nhatsave[at]gmail.com
<b>NIAS</b> Dr. Isabel <i>Co-Chair, IACS-IAPSO Joint Commission on Ice-Ocean Interactions (IACIS)</i> <i>IACS National Correspondent</i>	School of Environmental Sciences University of Liverpool Roxby Building Liverpool, L69 7ZT UK	isabel.nias[at]liverpool.ac.uk

<b>NICHOLSON</b> PhD Lindsey <i>IACS National Correspondent</i>	University of Innsbruck Department of Atmospheric and Cryospheric Sciences Innrain 52f 6020 Innsbruck AUSTRIA	T: 43 512 507 54412 F: 43 512 507 54599 lindsey.nicholson[at]uibk.ac.at
<b>NIEZABITOWSKA</b> Dr. Dominika <i>Member, IAGA Executive Committee, Early Career representative</i>	Uppsala University Department of Earth Sciences Villavägen 16 SE- 752 36 Uppsala SWEDEN	dominika.niezabitowska[at]geo.uu.se
<b>NINA</b> Dr. Aleksandra <i>IAGA National Correspondent</i>	Institute of Physics Belgrade National Institute of the Republic of Serbia University of Belgrade Pregrevica 118 11080 Belgrade SERBIA	T: 381 11 3713 153 F: 381 11 3162 190 sandrast[at]ipb.ac.rs
<b>NISHIMURA</b> Prof. Takuya <i>Chair and IASPEI representative, Joint IAG-IASPEI Sub-Commission on Seismo-Geodesy</i>	Research Center for Earthquake Prediction Disaster Prevention Research Institute Kyoto University Gokasho, Uji Kyoto, 611-0011 JAPAN	nishimura.takuya.4s[at]kyoto-u.ac.jp
<b>NISHITANI</b> Ms. Naomi <i>Contact Person, Adhering Organization</i>	Assistant Science Council of Japan Secretariat Division for International Affairs 7-22-34 Roppongi, Minato-ku Tokyo, 106-8555 JAPAN	T: 81 3 3403 5731 F: 81 3 3403 1755
<b>NISSEN</b> Mr. Victor Kalsen <i>Contact Person, Adhering Organization</i>	Det Kongelige Danske Videnskabernes Selskab The Royal Danish Academy of Sciences and Letters H.C. Andersens Boulevard 35 1553 København V DENMARK	vkn[at]royalacademy.dk
<b>NLEND</b> Dr. Bertil <i>ECC Representative, IAHS ICWQ</i>	University of Douala Department of Earth Sciences Bâtiment C, porte 107 Douala CAMEROON	T: 237 69 661 9755 nlendbertil[at]yahoo.fr
<b>NÓBREGA</b> Dr. Rodolfo <i>Secretary, IAHS ICCLAS</i>	School of Geographical Sciences University of Bristol University Rd Bristol, BS8 1SS UK	T: 44 753 788 1101 r.nobrega[at]bristol.ac.uk
<b>NOCQUET</b> Dr. Jean-Mathieu <i>Co-Chair (IAG), IAG-IASPEI Sub-Commission on Seismo-Geodesy</i>	IPGP Paris Cedex 5 & Geoazur Sophia Antipolis F06905 FRANCE	nocquet[at]geoazur.unice.fr
<b>NOF</b> Dr. Ran Novitsky <i>IASPEI National Correspondent</i>	Seismological Division The Geological Survey of Israel ISRAEL	T: 972 52 225 3290 ran.nof[at]gmail.com
<b>NORABUENA</b> M.Sc. Edmundo <i>IAG National Correspondent</i>	Instituto Geofisico del Perú Calle Calatrava 216 Urb. Camino Real La Molina Lima 12 PERU	T: 51 1 436 8437 F: 51 1 436 8437 enorab[at]geo.igp.gob.pe
<b>NORDT</b> Ms. Sophia <i>Contact Person, Adhering Organization</i>	Research Associate, Board on International Scientific Organizations National Academies of Sciences, Engineering, and Medicine 500 Fifth Street, NW Washington, DC, 20001 USA	T: 1 202 334 2798 snordt[at]nas.edu
<b>NOSÉ</b> Dr. Masahito <i>IUGG Liaison, ISC Committee on Data for Science and Technology (CODATA) and World Data System (WDS)</i> <i>Member, IAGA Executive Committee</i>	School of Data Science Nagoya City University Room 419, Bldg. 4 Takiko Campus 1 Yamanohata, Mizuho-cho, Mizuho-ku Nagoya, 467-0802 JAPAN	nose[at]ds.nagoya-cu.ac.jp

<b>NOVÁK</b> Prof. Dr. Pavel <i>Secretary, National Committee</i> <i>IAG National Correspondent</i>	University of West Bohemia Faculty of Applied Sciences Univerzitní 22 306 14 Pilsen CZECH REPUBLIC	panovak[at]kma.zcu.cz
<b>NOWICKI</b> Dr. Sophie <i>Head, IACS Division III</i>	Department of Geology University at Buffalo 413 Hochstetter Hall Buffalo, NY, 14260-4130 USA	T: 1 301 614 5458 sophien[at]buffalo.edu
<b>NUGRAHA</b> Prof. Dr. Andri Dian <i>IASPEI National Correspondent</i>	Institute of Technology of Bandung (ITB) Faculty of Mining and Petroleum Engineering Jl. Ganesa 10 Bandung, 40132 INDONESIA	T: 62 22 250 6282 F: 62 22 251 4922 nugraha[at]gft.itb.ac.id
<b>NURÇE</b> Dr. Bilbil <i>IAG National Correspondent</i>	Polytechnic University of Tirana Civil Engineering Faculty Street "Muhamet Gjollesha" Nr. 54 1023 Tirana ALBANIA	T: 355 4 2244100 T: 355 68 20 69 259 (mobile) T/F: 355 4 2244101 billnurce[at]gmail.com bilbil.nurce[at]fin.edu.al
<b>NURSIMHULU</b> Ms. Reena Gopal <i>IAPSO National Correspondent</i>	Mauritius Oceanography Institute France Centre Victoria Avenue Quatre Bornes MAURITIUS	T: 230 427 4434 F: 230 427 4433 rgnursimhulu[at]moi.intnet.mu
<b>OBANA</b> Dr. Yuki <i>Co-Chair, IAGA Working Group ULF Waves</i>	International Research Center for Space and Planetary Environmental Science Kyushu University 744 Motoooka Fukuoka JAPAN	yuki.obana.jp[at]gmail.com
<b>OBANDO</b> Dr. Edwin A. <i>IASPEI National Correspondent</i>	Sub-director IGG UNAN Managua Instituto de Geología y Geofísica IGG/CIGEO Apartado postal 131 Rotonda Rigoberto López Pérez 200 mts al este Managua NICARAGUA	T: 505 22700260 edwinobando1981[at]hotmail.com eobando[at]igg.unan.edu.ni
<b>OBRAZOVA</b> Dr. Dalia <i>Member, National Committee</i>	The Czech Academy of Sciences Boční II/1401 141 31 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 272 016 044 F: 420 606 641 116 buresd[at]ufa.cas.cz
<b>OCOLA</b> Dr. Leonidas C. <i>IASPEI &amp; IAVCEI National Correspondent</i>	Instituto Geofisico del Perú Sector Educacion Apartado 3747 Lima 100 PERU	ocolalc[at]geo.igp.gob.pe
<b>ÖDALEN</b> Dr. Malin <i>Member, IAPSO Executive Committee</i> <i>Chair, IAPSO Early Career Scientists Working Group</i>	Earth Systems NORCE Norwegian Research Centre Jahnebakken 5 5011 Bergen NORWAY	T: 46 70 6278785 malin.odalen[at]gmail.com
<b>ODALOVIĆ</b> Prof. Dr. Oleg <i>Secretary General, National Committee</i> <i>IAG National Correspondent</i>	Department of Geodesy and Geoinformatics Faculty of Civil Engineering University of Belgrade Bulevar kralja Aleksandra 73 11000 Belgrade SERBIA	T: 381 11 3370 293 F: 381 11 3370 223 odalovic[at]grf.bg.ac.rs
<b>OJIGI</b> Prof. Lazarus M. <i>Secretary General, National Committee</i>	Executive Director African Regional Institute for Geospatial Information Science and Technology (AFRIGIST) under the auspices of United Nations Economic Commission for Africa (UNECA) Obafemi Awolowo University Campus P.M.B. 5545 Ile-Ife, Osun State NIGERIA	T: 234 816 693 0684 drlazmojigi[at]gmail.com lazarusojigi[at]afrigid.org

<b>OJINNAKA</b> Prof. Oliver C. <i>IAPSO National Correspondent</i>	University of Nigeria Dept. of Geoinformatics & Surveying Faculty of Environmental Sciences Enugu Campus Enugu NIGERIA	T: 234 42 452681 T: 234 8055640174 oliverojinnaka[at]yahoo.co.uk
<b>OKAMOTO</b> Distinguished Prof. Hajime <i>Vice-President, IAMAS IRC</i>	Atmospheric Physics Group Research Institute for Applied Mechanics Kyushu University Kasuga Park 6-1 Kasuga, 816-8580 JAPAN	T: 81 92 583 7736 F: 81 92 583 7736 okamoto[at]riam.kyushu-u.ac.jp
<b>OKEKE</b> Prof. Francis I. <i>IAG National Correspondent</i>	University of Nigeria Dept. of Geoinformatics & Surveying Faculty of Environmental Sciences Enugu Campus Enugu NIGERIA	T: 234 803 562 7286 francisokeke[at]yahoo.com francis.okeke[at]unn.edu.ng
<b>OKOLIE</b> Dr. E.C. <i>Treasurer, National Committee</i>	Abuja NIGERIA	T: 234 803 678 4363 okoliepeace[at]yahoo.com
<b>KOLOYE</b> Mr. Cyprain U. <i>Assistant Secretary General, National Committee</i>	Lagos NIGERIA	T: 234 803 396 7113 cyprainokoye[at]yahoo.com
<b>OKUBO</b> Prof. Makoto <i>First Vice-President, IASPEI Asian Seismological Commission (ASC)</i>	Kochi Earthquake Observatory Kochi University 2-5-1 Akebono-cho Kochi, 780-8072 JAPAN	T: 81 88 844 8464 okubo[at]kochi-u.ac.jp
<b>ÓLAFSSON</b> Prof. Dr. Jón <i>IAPSO National Correspondent</i>	Marine Research Institute and University of Iceland Fornubúðum 5 220 Hafnarfjörður ICELAND	T: 354 750 2001 F: 354 575 2001 Jon[at]hafro.is
<b>OLORODE</b> Dr. Deborah O. <i>IAGA National Correspondent</i>	University of Lagos Lagos NIGERIA	T: 234 803 321 3699 T: 234 1 794 1539 seunolorode[at]yahoo.com
<b>OLSEN</b> Prof. Nils <i>IAGA National Correspondent</i>	National Space Institute, DTU Elektrovej, Building 327, room 218 2800 Kongens Lyngby DENMARK	T: 45 4525 9708 F: 45 4525 9575 nio[at]space.dtu.dk
<b>OMICEVIC</b> Doc. dr. sc. Dzanina <i>Vice-President, National Committee</i>	University of Sarajevo Faculty of Civil Engineering Department of Geodesy and Geoinformatics Stjepana Tomica 1/I/III 71000 Sarajevo BOSNIA & HERZEGOVINA	T: 387 61 812 376 dzanina_omicevic[at]yahoo.com
<b>ORBI</b> Dr. Abdellatif <i>IAPSO National Correspondent</i>	Institut National de Recherche Halieutique (INRH) 2, Rue de Tiznit 20000 Casablanca MOROCCO	T: 212 522 298 534 orbi[at]inrh.org.ma
<b>ORLECKA-SIKORA</b> Prof. Dr. Beata <i>Chair, IASPEI Working Group on Triggered &amp; Induced Seismicity</i> <i>IASPEI National Correspondent</i>	Polish Academy of Sciences Institute of Geophysics Ksiecia Janusza St. 64 01-452 Warsaw POLAND	T: 48 22 691 5951 orlecka[at]igf.edu.pl
<b>ORLIC</b> Acad. Mirko <i>Member, National Committee</i>	Andrija Mohorovicic Geophysical Institute Faculty of Sciences University of Zagreb Horvatovac 95 10000 Zagreb CROATIA	T: 385 1 460 5930 F: 385 1 468 0331 morlic[at]gfz.hr
<b>ORSI</b> Dr. Anaïs <i>Head, IAICS Division IV</i>	Laboratoire des Sciences du Climat et de l'Environnement L'Orme des Merisiers CEA Saclay, bat 703 pièce 26 91191 Gif-sur-Yvette FRANCE	T: 33 1 69 08 27 02 F: 33 1 69 08 77 16 anais.orsi[at]lsce.ipsl.fr

<b>OSAE</b> Prof. Shilloh Dede <i>Vice-President, National Committee</i> <i>IAGA &amp; IAVCEI National Correspondent</i>	IUGG-Ghana National Nuclear Research Institute Ghana Atomic Energy Commission P.O. Box LG80 Legon Accra GHANA	T: 233 24 347 2164 T: 233 20 891 6668 dedehosae[at]fastmail.fm
<b>OSEMEIKHIAN</b> Prof. John E.A. <i>Vice-President, National Committee</i> <i>IAVCEI National Correspondent</i>	Edo State University Ekpoma, Edo State NIGERIA	T: 234 803 406 8639 johnosemekhian[at]yahoo.com
<b>OSKOOI</b> Prof. Behrooz <i>IAGA National Correspondent</i>	Institute of Geophysics University of Tehran P.O. Box 14155-6466 Tehran IRAN	T: 98 21 8802 1072 T: 98 21 8802 1077 F: 98 21 8800 9560 boskooi[at]ut.ac.ir
<b>OSKORUS</b> Asst. Prof. Dr. Dijana <i>IAHS National Correspondent</i>	Faculty of Geotechnical Engineering University of Zagreb Hallerova aleja 7 42000 Varazdin CROATIA	T: 385 99 211 6649 doskorus[at]gfv.hr
<b>OTH</b> Dr. Adrien <i>Secretary General, IASPEI European Seismological Commission (ESC)</i> <i>IASPEI National Correspondent</i>	European Center for Geodynamics and Seismology (ECGS) 19, rue Josy Welter 7256 Walferdange LUXEMBOURG	T: 352 33 148 735 adrien.oth[at]ecgs.lu
<b>OUAZAR</b> Mr. Driss <i>IAHS National Correspondent</i>	Ecole Mohammadia d'Ingenieurs Avenue Ibn Sina BP 765 Agdal Rabat MOROCCO	T: 212 61 18 93 53 F: 212 37 77 88 53 ouazar[at]emi.ac.ma
<b>OZEKI</b> Prof. Toshihiro <i>IACS National Correspondent</i>	Hokkaido University of Education Sapporo Campus 1-5 Ainosato 5-3, Kita-ku Sapporo, Hokkaido 002-8502 JAPAN	T: 81 11 778 0300 F: 81 11 778 8822 ozeki.toshihiro[at]s.hokkyodai.ac.jp
<b>OZEROV</b> Dr. Alexei Y. <i>IAVCEI National Correspondent</i>	Russian Academy of Sciences (RAS) Far Eastern Branch Institute of Volcanology and Seismology 9 Prip boulevard 683006 Petropavlovsk-Kamchatsky RUSSIA	T: 7 4152 20 2100 F: 7 4152 29 7982 ozerov[at]kscnet.ru
<b>PACHECO</b> Dr. Javier <i>IAVCEI National Correspondent</i>	National University (OVSICORI-UNA) Costa Rica Volcanological and Seismological Observatory Apartado: 1718-3000 Heredia COSTA RICA	T: 506 2562 4014 F: 506 2261 0303 javier.pacheco.alvarado[at]una.cr
<b>PADILLA Torres</b> Mr. Rodrigo <i>Assistant IAMAS National Correspondent</i>	Dirección Meteorológica de Chile Av. Portales 3450 Estación Central Santiago CHILE	T: 56 2 2436 4501 T: 56 2 2436 4527 T: 56 2 2436 4503 rodrigo.padilla[at]dgac.gob.cl
<b>PAIS</b> Doutora Maria Alexandra <i>IAGA National Correspondent</i>	Departamento de Física Faculdade de Ciências e Tecnologia Universidade de Coimbra Rua Larga 3004-516 Coimbra PORTUGAL	T: 351 239 410 115 pais[at]fis.uc.pt
<b>PALAZOV</b> Prof. Dr. Atanas <i>IAPSO National Correspondent</i>	Bulgarian Academy of Sciences The Institute of Oceanology First May Str., 40, P.O. Box 152 9000 Varna BULGARIA	T: 359 52 370 485 F: 359 52 370 483 palazov[at]io-bas.bg
<b>PALENQUE</b> Dr. Eduardo <i>IAMAS National Correspondent</i>	Facultad de Ciencias Puras y Naturales Instituto de Investigaciones Fisicas Campus Universitario Calle 27, Cota Cota La Paz BOLIVIA	T: 591 2 279 2622 palenque[at]o3-bolivia.org

<b>PALINKAS</b> Dr. Vojtech <i>Member, National Committee</i>	Research Institute of Geodesy, Topography & Cartography Ustecka 98 250 66 Zdiby, Prague-East CZECH REPUBLIC	T: 420 323 649 235 T: 420 724 262 183 vojtech.palinkas[at]pecny.cz
<b>PALMA LIZANA</b> Prof. José Luis <i>Co-Leader, IAVCEI International Network for VOLcanology Collaboration (INVOLC)</i>	University of Concepción Departamento Ciencias de la Terra Cabina 13, Casilla 160-C Concepción CHILE	T: 56 41 2204876 jose[at]udec.cl
<b>PAN</b> Prof. Yongxin <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Chinese Academy of Sciences (CAS) Institute of Geology & Geophysics 19 Beituchengxi Road Beijing, 100029 CHINA	T: 86 10 2998406 yxpan[at]mail.igcas.ac.cn
<b>PANDE</b> Dr. Saket <i>Vice-President, IAHS ICHWF</i>	Delft University of Technology Department of Water Management Stevinweg 1 Delft, 2628 CN NETHERLANDS	s.pande[at]tudelft.nl
<b>PANG</b> Prof. Zhonghe <i>President, IAHS ICT</i>	Chinese Academy of Sciences (CAS) Institute of Geology and Geophysics 19 Beitucheng Western Road Chaoyang District Beijing, 100029 CHINA	T: 86 10 8299 8613 T: 86 10 8299 8611 z.pang[at]mail.igcas.ac.cn
<b>PANIN</b> Prof. Dr. Nicolae <i>President, National Committee</i>	National Institute of Marine Geology & Geoecology - GeoEcoMar 23-25 Dimitrie Onciu Street 024053 Bucharest ROMANIA	T: 40 21 252 2594 F: 40 21 252 2594 panin[at]geoecomar.ro
<b>PANOVSKA</b> Dr. Sanja <i>Co-Chair, IAGA Working Group FAIR-MOD</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam GERMANY	sanja.panovska[at]gfz.de
<b>PAPADIMITRIOU</b> Prof. Eleftheria <i>Chair, IASPEI Commission on Earthquake Generation Process - Physics, Modelling and Monitoring for Forecast</i>	Aristotle University of Thessaloniki Geophysics Department Thessaloniki GREECE	T: 30 2310 998488 ritsa[at]geo.auth.gr
<b>PAPALE</b> Dr. Paolo <i>Member, IUGG Awards Committee</i>	INGV - Istituto Nazionale di Geofisica e Vulcanologia Sezione di Pisa Via della Faggiola, 32 56126 Pisa ITALY	pao.lo.papale[at]ingv.it
<b>PAPALEXIOU</b> Dr. Simon <i>Vice-President, IAHS ICSH</i>	Department of Civil Engineering University of Calgary 622 Collegiate Place NW Calgary, T2N 4V8 CANADA	T: 1 403 220 7323 simon.papalexiou[at]ucalgary.ca
<b>PAPČO</b> Dr. Juraj <i>Member, National Committee</i>	Slovak University of Technology Faculty of Civil Engineering Radlinskeho 11 810 05 Bratislava SLOVAK REPUBLIC	T: 421 2 32 888 345 juraj.papco[at]stuba.sk
<b>PAPÍ ISABA</b> Dipl.-Ing., Lic. María del Puy <i>IASPEI Early Career Scientists Group</i>	GeoSphere Austria Abteilung Geophysik Hohe Warte 38 1190 Wien AUSTRIA	T: 43 1 36026 2543 maria.papi-isaba[at]geosphere.at
<b>PARASCHOU</b> Col. Charalampos <i>Secretary, National Committee</i>	Hellenic Military Geographical Service (HMGS) Evelpidon 4 113 62 Athens GREECE	T: 30 210 820 6610 gys[at]army.gr
<b>PARDO</b> Dr. Natalia <i>Co-Leader, IAVCEI Commission on Volcano Geology</i>	Departamento de Geociencias Universidad de Los Andes Carrera 1 # 18A-12, Edificio M Bogota COLOMBIA	T: +57 601 339 4949 n.pardo[at]uniandes.edu.co

<b>PAREDES-MARIÑO</b> Dr. Joali <i>Early Career Researcher representative, IAVCEI Executive Committee</i>	The University of Auckland Faculty of Science, Environment Private Bag 92019 Auckland, 1142 NEW ZEALAND	joa.paredes.marino[at]auckland.ac.nz
<b>PAREDES-MARIÑO</b> Dr. Joali <i>Early Career Researcher representative, IAVCEI Executive Committee</i>	The University of Auckland School of Environment Auckland NEW ZEALAND	T: 64 27 3067587 joa.paredes.marino[at]auckland.ac.nz
<b>PARFREY</b> Ms. Fionnuala <i>Contact Person, Adhering Organization</i>	Programme Manager Royal Irish Academy 19 Dawson Street Dublin 2, D02 HH58 IRELAND	F.Parfrey[at]ria.ie
<b>PARK</b> Prof. Jae-Hun <i>Member, IAPSO Executive Committee</i>	Inha University Dept. of Ocean Sciences 100 Inha-ro, Michuhol-gu Incheon, 22212 KOREA, Rep. of	T: 82 32 860 7703 jaehunpark[at]inha.ac.kr
<b>PARK</b> Prof. Jung-Woo <i>IAVCEI National Correspondent</i>	Seoul National University School of Earth and Environmental Sciences 1 Gwanak-ro, Gwanak-gu Seoul, 08826 KOREA, Rep. of	T: 82 02 880 9288 Jung-woo.park[at]snu.ac.kr
<b>PAROLAI</b> Prof. Stefano <i>IASPEI Representative, GEM Foundation</i>	Università degli Studi di Trieste Dipartimento di Matematica, Informatica e Geoscienze Via Weiss 1 Trieste ITALY	stefano.parolai[at]units.it
<b>PASQUERO</b> Prof. Claudia <i>Member, National Committee</i>	Università di Milano Bicocca Dipartimento di Scienze dell'Ambiente e della Terra Piazza della Scienza, 4 20126 Milano ITALY	T: 39 02 6448 2055 claudia.pasquero[at]unimib.it
<b>PASQUI</b> Dr. Massimiliano <i>IAMAS Alternate National Correspondent</i>	CNR - Istituto per la BioEconomia (IBE) Via dei Taurini, 19 00185 Roma ITALY	T: 39 06 4993 7615 massimiliano.pasqui[at]ibe.cnr.it
<b>PAŠTEKA</b> Prof. Roman <i>Member, National Committee</i>	Comenius University Faculty of Natural Sciences 842 15 Bratislava 4 SLOVAK REPUBLIC	T: 421 2 9014 9350 F: 421 2 6029 6359 roman.pasteka[at]uniba.sk
<b>PASTORE</b> Mg. Silvio <i>IACS National Correspondent</i>	Universidad Nacional de San Juan Facultad de Ciencias Exactas, Físicas y Naturales Gabinete de Estudios de Geocriología Glaciología, Nivología y Cambio Climático Departamento de Geología Av. Ignacio de la Roza 590 (O), Complejo Universitario "Islas Malvinas" Rivadavia - Prov. San Juan ARGENTINA	T: 54 264 4260353 sapastore[at]gmail.com
<b>PATHACK</b> Dr. Beenay <i>IAMAS National Correspondent</i>	Mauritius Meteorological Services St Paul Road Vacoas MAURITIUS	T: 230 783 1463 (mobile) T: 230 696 0058 bpathack[at]yahoo.com
<b>PATHIRAJA</b> Dr. Sahani <i>Vice-President, IAHS ICSH</i>	School of Mathematics and Statistics University of New South Wales The Red Centre, UNSW Sydney Sydney, 2052 AUSTRALIA	T: 61 45 125 7680 s.pathiraja[at]unsw.edu.au
<b>PATRÍCIO</b> Dr. Paulo <i>IAG National Correspondent</i>	Direção-Geral do Território Rua Artilharia Um, 107 1099-052 Lisbon PORTUGAL	T: 351 21 381 96 00 T: 351 21 381 96 13 ppatricio[at]dgterritorio.pt
<b>PATURY</b> Mr. Rajendra Prasad <i>Vice-President, IAHS ICGW</i>	Dept. of Geophysics Andhra University Visakhapatnam, 530003 INDIA	T: 81 263 37 3330 rpatury[at]yahoo.com

<b>PAULINO</b> Dr. Igo <i>Co-Chair, IAGA Interdivisional Commission on Developing Countries</i>	Universidade Federal de Campina Grande Instituto Nacional de Pesquisas Espaciais São José dos Campos, SP BRAZIL	Igo.paulino[at]df.ufcg.edu.br
<b>PAVLIC</b> Assoc. Prof. Dr. Kresimir <i>IAHS National Correspondent</i>	Faculty of Mining, Geology and Petroleum Engineering University of Zagreb Pierottijeva 6 10000 Zagreb CROATIA	T: 385 1 553 5931 F: 385 1 483 6051 kresimir.pavlic[at]rgn.unizg.hr
<b>PAVLOVSKA</b> Ms. BSc. Vesna <i>IAMAS National Correspondent</i>	Hydrometeorological Service of the Republic of Macedonia Department of Meteorology Skupi bb 1000 Skopje NORTH MACEDONIA	T: 389 2 309 7004 F: 389 2 309 7118 vpavlovskova[at]meteo.gov.mk
<b>PAWLOWICZ</b> Prof. Rich <i>Chair, SSCOR/IAPWS/IAPSO Joint Committee on the Properties of Seawater, JCS</i>	University of British Columbia Dept. of Earth, Ocean and Atmospheric Sciences 2020-2207 Main Mall Vancouver, BC, V6T 1Z4 CANADA	rpatrick.pawlucz[at]eoas.ubc.ca
<b>PEARLMAN</b> Dr. Michael R. <i>Director of Central Bureau, IAG International Laser Ranging Service (ILRS)</i>	Harvard-Smithsonian Center for Astrophysics 60 Garden Street Cambridge, MA, 02138 USA	mpearlman[at]cfa.harvard.edu
<b>PEDATELLA</b> Dr. Nicholas <i>Co-Chair, IAGA Working Group II-D</i>	National Center for Atmospheric Research High Altitude Observatory 3080 Center Green Drive Boulder, CO, 80301 USA	T: 1 303 497 1514 F: 1 303 497 1589 nickp[at]ucar.edu
<b>PELTIER</b> Prof. Dick <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	Department of Physics University of Toronto 60 St. George Street Toronto, ON, M5S 1A7 CANADA	T: 1 416 978 2938 peltier[at]atmosphysics.utoronto.ca
<b>PENNER</b> Prof. Joyce E. <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i> <i>Past President, IAMAS (2019-2023)</i>	University of Michigan Climate & Space Research Building 2455 Hayward Street Ann Arbor, MI, 48109-2143 USA	T: 1 734 936 0519 F: 1 734 936 0503 penner[at]umich.edu
<b>PEQINI</b> Prof. Asoc. Klaudio <i>IAHS National Correspondent</i>	University of Tirana Faculty of Natural Sciences Tirana ALBANIA	T: +355 4 255 6987 klaudio.peqini[at]fshn.edu.al
<b>PERETZ</b> Dr. Neta <i>Contact Person, Adhering Organization</i>	Head of the International Division The Israel Academy of Sciences and Humanities Albert Einstein Square P.O. Box 4040 9104001 Jerusalem ISRAEL	neta[at]academy.ac.il
<b>PEREZ CAMPOS</b> Prof. Xyoli <i>Secretary General, IASPEI Latin American and Caribbean Seismological Commission (LACSC); Co-Chair, IASPEI Commission on Education &amp; Outreach</i>	CTBTO Preparatory Commission Vienna International Centre PO Box 1200 1400 Vienna AUSTRIA	xyoli.perez.campos[at]ctbto.org xyoli[at]jgeofisica.unam.mx xyolipc[at]gmail.com
<b>PETERS</b> Dr. Daniel <i>IAHS National Correspondent</i>	Environment and Climate Change Canada 200-2474 Arbutus Road Victoria, BC, V8N 1V8 CANADA	T: 1 250 363 8954 daniel.peters[at]canada.ca
<b>PETERSEN</b> Dr. Tanja <i>Co-Chair, IAGA Division V</i> <i>IAHS National Correspondent</i>	GNS Science   Te Pū Ao 1 Fairway Drive, Avalon 5011 PO Box 30368 Lower Hutt, 5040 NEW ZEALAND	t.petersen[at]gns.cri.nz
<b>PETRONE</b> Prof. Richard <i>President, IAHS ICCLAS</i>	University of Waterloo Dept. Geography and Environmental Management 200 University Avenue West Waterloo, ON, N2L 3G1 CANADA	T: 1 519 888 4567 Ex. 39174 rich.petrone[at]uwaterloo.ca

<b>PETROPAVLOVSKIKH</b> Dr. Irina <i>President, IAMAS IO3C</i>	Cooperative Institute for Research in Environmental Sciences (CIRES) University of Colorado Boulder, CO, 80307 USA	T: 1 720 263 6482 F: 1 720 475 3105 irina.petropavlovskikh[at]colorado.edu
<b>PETROSYAN</b> Dr. Hrachya <i>President, National Committee</i>	Territorial Survey for Seismic Protection Ministry of Emergency Situations Davidashen-Massiv 4 109/8 A. Mikoyan str. Yerevan, 0054 ARMENIA	T: 374 10 317 739 F: 374 10 363 449 president[at]nssp-gov.am
<b>PETROVSKY</b> Assoc. Prof. Dr. Eduard <i>Chair, IUGG Site Comparison Committee</i> <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Institute of Geophysics Czech Academy of Sciences Bocni II/1401 141 00 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 267 103 333 F: 420 267 761 549 edp[at]jig.cas.cz
<b>PETTERSSON</b> Dr. Heidi <i>IAPSO National Correspondent</i>	Finnish Meteorological Institute P.O. Box 503 00101 Helsinki FINLAND	T: 358 29 539 6426 heidi.pettersson[at]fmi.fi
<b>PFISTER</b> Dr. Laurent <i>IAHS National Correspondent</i>	LIST - Environmental Research and Innovation Depart. 41, rue du Brill 4422 Belvaux LUXEMBOURG	T: 352 275 888 460 laurent.pfister[at]list.lu
<b>PHILIP</b> Dr. Sajeev <i>IAMAS National Correspondent</i>	Centre for Atmospheric Sciences Indian Institute of Technology Delhi Hauz Khas New Delhi, 110 016 INDIA	philipsajeev[at]iitd.ac.in
<b>PIERRARD</b> Dr. Viviane <i>IAGA Member, National Committee</i>	Institut royal d'Aéronomie Spatiale de Belgique 3 avenue Circulaire 1180 Brussels BELGIUM	viviane.pierrard[at]aeronomie.be
<b>PIGNALBERI</b> Dr. Alessio <i>Co-Chair, IAGA Working Group II-E</i>	Upper Atmosphere Physics Department Istituto Nazionale di Geofisica e Vulcanologia (INGV) Via di Vigna Murata, 605 00143 Rome ITALY	alessio.pignalberi[at]ingv.it
<b>PILEWSKIE</b> Dr. Peter <i>IUGG Liaison, ISC Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)</i>	University of Colorado Boulder Laboratory for Atmospheric and Space Physics (LASP) 3665 Discovery Drive Boulder, CO, 80303-7814 USA	T: 1 303 735 5589 F: 1 303 492 6444 peter.pilewskie[at]lasp.colorado.edu
<b>PINHEIRO</b> Dr. Katja <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>Member, IAGA Executive Committee</i>	Observatório Nacional Rua General José Cristino, 77 São Cristóvão - Rio de Janeiro BRAZIL	T: 55 21 3504 9286 kpinheirogeomag[at]gmail.com
<b>PISKOZUB</b> Prof. Dr. Jacek <i>IAPSO National Correspondent</i>	Polish Academy of Sciences Institute of Oceanology Powstancow Warszawy St. 55 81-712 Sopot POLAND	T: 48 58 731 1802 F: 48 58 551 2130 piskozub[at]iopan.gda.pl
<b>PIZZARO</b> Dr. Luis <i>IAPSO National Correspondent</i>	Instituto del Mar del Perú (IMARPE) Esq. Gamarra y Gral Valle s/n Chucuito Callao PERU	T: 51 1 429 3931 F: 51 1 429 0873 lpizarro[at]imarpe.gob.pe
<b>PLENEFISCH</b> Dr. Thomas <i>Secretary, National Committee</i>	Federal Institute for Geosciences and Natural Resources (BGR) B4.3 – Federal Seismological Survey, Nuclear-Test-Ban Stilleweg 2 30655 Hanover GERMANY	T: 49 511 643 3869 F: 49 511 643 2304 Thomas.Plenefisch[at]bgr.de
<b>POCHAT</b> Ing. Víctor <i>IAHS National Correspondent</i>	Universidad Nacional del Litoral Facultad de Ingeniería y Ciencias Hídricas Ciudad Universitaria Santa Fe- Prov. Santa Fe ARGENTINA	T: 54 11 47063399 vpochatm[at]yahoo.com.ar cniahs_ar[at]yahoo.com.ar

<b>POLO GÓMEZ</b> Assoc. Prof. María José <i>President-Elect, IAHS ICRS</i>	University of Córdoba Hydraulic Engineering Division Andalusian Institute for Earth System Research Edificio Leonardo Da Vinci Campus de Rabanales 14071 Córdoba SPAIN	T: 34 957212662 mjpolo[at]uco.es
<b>POPOVIĆ</b> Prof. Dr. Luka Č. <i>Member, National Committee</i>	Astronomical Observatory Volgina 7 11060 Belgrade SERBIA	T: 381 11 3089 079 F: 381 11 2419 553 lpopovic[at]aob.rs
<b>POPOVSKA</b> Prof. Dr. Cvetanka <i>President, National Committee</i> <i>IAHS National Correspondent</i>	Ss Cyril and Methodius University Faculty of Civil Engineering Department of Hydraulics, Hydrology & River Engineering Blvd. Partizanski odredi 24, PO Box 560 1000 Skopje NORTH MACEDONIA	T: 389 2 311 6066 ext. 209 F: 389 2 311 8834 popovska[at]gfu.ukim.edu.mk
<b>PORTO</b> Assoc. Prof. Paolo <i>President, IAHS ICCE</i>	University Mediterranea of Reggio Calabria Faculty of Agriculture Feo di Vito 89122 Reggio Calabria ITALY	T: 39 0965 801 402 paolo.porto[at]inirc.it
<b>POST</b> Prof. Piia <i>President, National Committee; Contact Person,</i> <i>Adhering Organization</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Institute of Physics University of Tartu W. Ostwaldi tn. 1 50411 Tartu ESTONIA	T: 372 737 5551 piia.post[at]ut.ee
<b>POTIAUX</b> Dr. Eric <i>IAG Member, National Committee</i>	Observatoire Royal de Belgique Avenue Circulaire 3 1180 Brussels BELGIUM	T: 32 2 373 0341 F: 32 2 374 9822 eric.pottiaux[at]oma.be
<b>POUQUET</b> Prof. Annick <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	National Center for Atmospheric Research P.O. Box 3000 Boulder, CO, 80307-3000 USA	T: 1 303 497 1860 pouquet[at]ucar.edu
<b>POUTANEN</b> Emeritus Prof. Markku <i>Past Secretary General, IAG (2019-2023)</i>	Finnish Geospatial Research Institute FGI National Land Survey of Finland Vuorimiehentie 5 02150 Espoo FINLAND	markku.poutanen[at]nls.fi
<b>PRADHANANGA</b> Dr. Dhiraj <i>Vice-President, IAHS ICSIH</i>	The Small Earth Nepal Drisya Tole Chyau Danda Ward No 26 Lalitpur, 4400 NEPAL	T: 977 98 4121 8296 dhiraj[at]smallearth.org.np
<b>PRAMONO</b> Dr. Gatot Haryo <i>Secretary, National Committee</i>	Geospatial Information Agency (BIG) Center for Geodetic Control Network and Geodynamics Jl. Raya Jakarta-Bogor km. 46 Bogor, 16911 INDONESIA	T: 62 21 875 2062 F: 62 21 875 2064 gatot.haryo[at]big.go.id
<b>PRASATH</b> Dr. R. Arun <i>IASPEI Early Career Scientists Group</i>	Institute of Seismological Research (ISR) Department of Science and Technology, Govt. of Gujarat Knowledge corridor, Rayasan Gandhinagar – 382007 Gujarat INDIA	APRajendran[at]outlook.com aprasath[at]isr.res.in
<b>PRASETYO</b> Eko <i>IAMAS National Correspondent</i>	Meteorological, Climatological and Geophysical Agency (BMKG) Center for Maritime Meteorology Jl. Angkasa I No. 2, Kemayoran Jakarta, 10620 INDONESIA	T: 62 21 6586 7063 F: 62 21 6586 7063 eko.prasetyo.bmkg[at]gmail.com

<b>PREZZI</b> Dra. Claudia Beatriz <i>IAGA National Correspondent</i>	Universidad de Buenos Aires Dpto. de Ciencias Geológicas, FCEN Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires (IGEBA/CONICET-UBA) Intendente Güiraldes 2160 - Ciudad Universitaria Pabellón II - 1er. Piso Ciudad Autónoma de Buenos Aires ARGENTINA	T: 54 11 528 58331 prezzi[at]gl.fcen.uba.ar claudiaprezzi[at]yahoo.com.ar
<b>PRICE</b> Prof. Colin <i>President, National Committee</i> <i>IAMAS National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Head of the Environmental Studies Department The Porter School of the Environment and Earth Sciences Tel Aviv University Ramat Aviv, 6997801 ISRAEL	T: 972 3 6405714 F: 972 3 6409282 colin[at]tauex.tau.ac.il
<b>PRINCIPE</b> Dr. Claudia <i>IAVCEI Alternate National Correspondent</i>	CNR - Istituto di Geoscienze e Georisorse Via Giuseppe Moruzzi, 1 56124 Pisa ITALY	T: 39 3485722569 c.principe[at]igg.cnr.it
<b>PROMTHONG</b> Col. Chaiwat <i>Secretary, National Committee</i>	Director Geodesy and Geophysics Division Royal Thai Survey Department Royal Thai Armed Forces Headquarters Ministry of Defence Kalayana Maitri Road, Phranakorn Bangkok, 10200 THAILAND	T: 66 2 221 2884 F: 66 2 222 3045 ptchaiwat[at]gmail.com
<b>PROTTI</b> Dr. Marino <i>President, National Committee; Contact Person,</i> <i>Adhering Organization</i> <i>IASPEI National Correspondent</i>	National University (OVSICORI-UNA) Costa Rica Volcanological and Seismological Observatory Apartado postal: 1718-3000 Heredia COSTA RICA	T: 506 2562 4001 T: 506 8822 9993 marino.protti.quesada[at]una.cr marino.protti[at]gmail.com
<b>PUENTES CARVAJAL</b> Dr. Anderson <i>Secretary General, National Committee</i>	Geographic Information Management Director Instituto Geográfico Agustín Codazzi Carrera 30 No. 48-51 Bogotá, D.C. COLOMBIA	anderson.puentes[at]igac.gov.co
<b>PULWARTY</b> Dr. Roger S. <i>IUGG Liaison, World Meteorological Organization (WMO)</i>	Physical Sciences Laboratory NOAA 325 Broadway Boulder, CO, 80305 USA	T: 1 303 497 4425 roger.pulwarty[at]noaa.gov
<b>PURUCKER</b> Dr. Michael E. <i>Executive Committee Member, Union Commission on Planetary Sciences (UCPS)</i>	NASA Goddard Space Flight Center Mail Code 698 Greenbelt, MD, 20771 USA	T: 1 301 614 6473 F: 1 301 614 6522 michael.e.purucker[at]nasa.gov
<b>PUTRI</b> Dr. rer. nat. Mutiara Rachmat <i>IAPSO National Correspondent</i>	Institute of Technology of Bandung (ITB) Research Group of Oceanography Faculty of Earth Science and Technology Jl. Ganesha 10 Bandung, 40132 INDONESIA	T: 62 22 250 0494 F: 62 22 253 4139 mutiara.putri[at]itb.ac.id
<b>QIE</b> Dr. Xiushu <i>President, IAMAS ICAE</i>	Institute of Atmospheric Physics Chinese Academy of Sciences 40 Huayanli, Chaoyang District Beijing, 100029 CHINA	T: 86 10 82995091 T: 86 13552636006 qie[at]mail.iap.ac.cn
<b>QOSHI</b> MSc. Klajdi <i>IASPEI Alternate National Correspondent</i>	Universiteti Politeknik i Tiranës Institute of Geosciences (IGEO) Tirana ALBANIA	T: +355 4 250 601 k.qoshi[at]geo.edu.al
<b>QUADRADO</b> Eng. Maria Felisbina <i>IAHS National Correspondent</i>	Agência Portuguesa do Ambiente Rua da Murgueira, 9 Zambujal – Alfragide 2610-124 Amadora PORTUGAL	maria.quadrado[at]apambiente.pt
<b>QUE</b> Prof. Dr. Bui Cong <i>IAPSO National Correspondent</i>	Institute of Geophysics VAST Nha A8-18, Hoang Quoc Viet-Cau Giay Hanoi VIETNAM	T: 84 24 3756 7305 F: 84 24 3756 1647 bcque[at]hn.vnn.vn

<b>QUEIROZ</b> Doutora Gabriela <i>IAVCEI National Correspondent</i>	Instituto de Investigacao em Vulcanologia e Avaliacao de Riscos Universidade Acores Rua fda Mãe de Deus Edificio do Complexo Cientifico 3º andar Ala Sul 9500-321 Ponta Delgada PORTUGAL	T: 351 296 650 147 maria.gp.queiroz[at]ua.ac.pt
<b>QUEMBO</b> Mr. José Luis <i>IAG National Correspondent</i>	Centro Nacional de Cartografia e Teledetectação (CENACARTA) Caixa Postal 83 Maputo MOZAMBIQUE	T: 258 21 300 486 T: 258 82 321 0630 F: 258 21 321 959 jlquembo[at]gmail.com
<b>RABAH</b> Prof. Dr. Mostafa Mousa Mohamed <i>IAPSO National Correspondent</i>	Civil Engineering Department Faculty of Engineering Benha University Benhs EGYPT	T: 20 10 0048 7605 F: 20 2 27496466 mrabah[at]bhit.bu.edu.eg mostafa_rabah[at]yahoo.com
<b>RABINOVICH</b> Prof. Alexander B. <i>Vice-Chair IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	Institute of Ocean Sciences Department of Fisheries and Oceans 9860 West Saanich Road Sidney, BC, V8L 4B2 CANADA and P.P. Shirshov Institute of Oceanology Russian Academy of Sciences Nakhimovsky Prospekt 361 17997 Moscow RUSSIA	A.B.Rabinovich[at]gmail.com Alexander.Rabinovich[at]dfo-mpo.gc.ca abr[at]iki.rssi.ru
<b>RADOVANOVIC</b> Prof. Dr. Milan <i>Contact Person, Adhering Organization</i>	Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts Đure Jakšića 9 11000 Belgrade SERBIA	T: 381 11 2636 276 T: 381 11 2636 594 F: 381 11 2637 597 m.radovanovic[at]gi.sanu.ac.rs
<b>RADULIAN</b> Dr. Mircea <i>IASPEI National Correspondent</i>	National Institute of Earth Physics 12, Calugareni Street, P.O. Box MG-2 077125 Bucharest-Magurele, Ilfov ROMANIA	T: 40 21 493 0118 F: 40 21 493 0052 mircea[at]infp.ro
<b>RAE</b> Prof. Jonathan <i>IAGA National Correspondent</i>	Department of Mathematics, Physics and Electrical Engineering Ellison Building Northumbria University Newcastle-upon-Tyne, NE1 8ST UK	jonathan.rae[at]northumbria.ac.uk
<b>RAFIQUE</b> Mr. Muhammed <i>IAVCEI National Correspondent</i>	Pakistan Meteorological Department Khyber Road Peshawar, 25000 PAKISTAN	T: 92 91 921 0190 F: 92 91 921 0223 rafiq-quetta[at]yahoo.com
<b>RAFKIN</b> Dr. Scot <i>Secretary General/Treasurer, Union Commission on Planetary Sciences (UCPS)</i>	Southwest Research Institute Boulder, CO, 80302 USA	T: 1 720 240 0116 F: 1 303 546 9687 rafkin[at]boulder.swri.edu
<b>RAMIREZ</b> Dr. Edson <i>IAHS National Correspondent</i>	Universidad Mayor de San Andres Calle 30 Cota Cota Campus Universitario CP 699 La Paz BOLIVIA	T: 591 2279 5724 eramirez[at]accelerate.com
<b>RAMMON</b> Lt. Gen. Krit <i>President, National Committee IAG &amp; IAGA National Correspondent Nationally Accredited Council Delegate (2023-2027)</i>	Director Royal Thai Survey Department Royal Thai Armed Forces Headquarters Ministry of Defense Kalayananaitri Road, Phranakorn Bangkok, 10200 THAILAND	T/F: 66 2 221 2884 krit_ra[at]hotmail.com
<b>RÄMÖ</b> Prof. Tapani <i>Chair, National Committee IAVCEI National Correspondent</i>	University of Helsinki Department of Geosciences and Geography P.O. Box 64 00014 University of Helsinki FINLAND	T: 358 50 4480223 tapani.ramo[at]helsinki.fi

<b>RAMOS</b> Prof. Dr. Victor <i>Advisory Board, SCL/ILP</i>	Instituto de Estudios Andinos Don Pablo Groeber (IDEAN) Universidad de Buenos Aires Buenos Aires ARGENTINA	andes[at]gl.fcen.uba.ar
<b>RAMOS MUSALEM</b> Dr. Karina <i>IAPSO National Correspondent</i>	Instituto de Ciencias de la Atmósfera y Cambio Climático, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 56224398 T: 52 55 56224240 ext. 24045 kramosmu[at]atmosfera.unam.mx
<b>RAPHAEL</b> Prof. Dr. Marilyn <i>Member, IUGG Nominating Committee</i> <i>Member at Large, IAMAS</i>	UCLA Department of Geography Box 951524 Los Angeles, CA, 90095-1524 USA	raphael[at]geog.ucla.edu
<b>RAPPICH</b> Dr. Vladislav <i>Co-Leader, IAVCEI Commission Volcano Geoheritage and Protected Volcanic Landscapes</i>	Czech Geological Survey CZECH REPUBLIC	vladislav.rappich[at]geology.cz
<b>RASMUSSEN</b> Ass. Prof. Kaare Lund <i>Contact Person, Adhering Organization</i>	University of Southern Denmark Department of Physics, Chemistry and Pharmacy Campusvej 55 5230 Odense M DENMARK	T: 45 6550 2580 klr[at]sdu.dk
<b>RAYKOVA-TSANKOVA</b> Assoc. Prof. Dr. Plamena <i>IASPEI National Correspondent</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev Str., Block 3 1113 Sofia BULGARIA	T: 359 2 979 3965 F: 359 2 971 3005 praykova[at]geophys.bas.bg
<b>REGUZZONI</b> Dr. Mirko <i>President, IAG International Service for the Geoid (ISG)</i>	Politecnico di Milano IGeS at DIIAR P.zza Leonardo da Vinci, 32 20133 Milano ITALY	mirko.reguzzoni[at]polimi.it
<b>RENOM</b> Dra. Madeleine <i>IAMAS National Correspondent</i>	Universidad de la República Facultad de Ciencias Iguá 4225 Montevideo URUGUAY	T: 598 2 525 86 24 306 renom[at]fisica.edu.uy
<b>RENWICK</b> Dr. James <i>IAMAS National Correspondent</i>	Victoria University of Wellington School of Geography, Environment and Earth Sciences Cotton 227, VUW Kelburn Wellington, 6012 NEW ZEALAND	T: 64 4 463 4719 T: 64 21 178 5550 James.Renwick[at]vuw.ac.nz
<b>REVALLO</b> Dr. Miloš <i>Member, National Committee</i>	Slovak Academy of Sciences Earth Science Institute Dubravská Cesta 9, P.O. Box 106 840 05 Bratislava SLOVAK REPUBLIC	T: 421 2 5941 0612 F: 421 2 5941 0607 geofmire[at]savba.sk
<b>RICHARDSON</b> Dr. Gemma <i>Co-Chair, IAGA Interdivisional Commission on Space Weather</i>	British Geological Survey The Lyell Centre Research Avenue South Edinburgh, EH14 4AP UK	gemk[at]bgs.ac.uk
<b>RIDDELL</b> Dr. Anna <i>Vice-President, IAG Global Geodetic Observing System (GGOS)</i>	Geoscience Australia GPO Box 378 Canberra, ACT 2601 AUSTRALIA	Anna.Riddell[at]ga.gov.au
<b>RIDGWAY</b> M.App.Sc. Ken <i>Treasurer, IAPSO</i>	Principal Research Scientist CSIRO Marine and Atmospheric Research P.O. Box 1538 Hobart, TAS, 7001 AUSTRALIA	T: 61 3 6232 5526 ken.ridgway[at]csiro.au
<b>RIIHELÄ</b> Prof. Aku <i>IACS National Correspondent</i>	Finnish Meteorological Institute P.O. Box 503 00101 Helsinki FINLAND	T: 358 29 539 4152 aku.riihela[at]fmi.fi

<b>RISSO</b> Dra. Corina <i>Executive Vice-President, National Committee IAVCEI National Correspondent</i>	Universidad de Buenos Aires Facultad de Ciencias Exactas y Naturales Departamento de Geología - IGEBA Ciudad Universitaria Pabellón 2 Ciudad Autónoma de Buenos Aires ARGENTINA	T: 54 11 52858315 rissocorina1[at]gmail.com corina[at]gl.fcen.uba.ar
<b>RIVERA</b> Dr. Marco <i>IAVCEI National Correspondent</i>	Instituto Geológico, Minero y Metalúrgico (INGEMMET) Av. Canada 1470 San Borja Lima 41 PERU	F: 51 1 2254540 mrivera[at]jingemmet.gob.pe
<b>RIZOS</b> Emeritus Prof. Chris <i>President, IUGG</i> <i>Past President, IAG (2011-2015)</i>	University of New South Wales School Civil & Environmental Engineering Sydney, NSW, 2052 AUSTRALIA	T: 61 2 9385 4205 T: 61 405 848 889 F: 61 2 9385 6139 president[at]iugg.org c.rizos[at]unsw.edu.au
<b>ROBOCK</b> Dist. Prof. Alan <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i>	Rutgers University Department of Environmental Sciences 14 College Farm Road New Brunswick, New Jersey, 08901-8551 USA	T: 1 848 932 5751 F: 1 732 932 8644 robock[at]envsci.rutgers.edu
<b>RODRIGUES</b> Prof. Regina <i>Member, IAPSO Executive Committee</i>	Federal University of Santa Catarina Dept. of Oceanography Campus Trindade Florianópolis, SC, 88040-970 BRAZIL	T: 55 48 3721 3530 regina.rodrigues[at]ufsc.br
<b>RODRIGUEZ GARCIA</b> Dr. Laura <i>Co-Chair, IAGA Division IV</i>	Universidad de Alcalá Departamento de Física y Matemáticas 28805 Alcalá de Henares SPAIN	l.rodriguezgarcia[at]uah.es
<b>ROGERS</b> Dr. Hannah F. <i>Chair, IAGA Working Group ComNet</i>	Institut des Sciences de la Terre Université Grenoble Alpes ISTerre - CS40700 38058 Grenoble Cedex 9 FRANCE	hannah.rogers[at]univ-grenoble-alpes.fr
<b>ROIAMPHAENG</b> Mrs. Wasna <i>IAHS National Correspondent</i>	Hydrologist, Senior Professional Level Bureau of Research, Development and Hydrology Department of Water Resources Ministry of National Resources and Environment 180/3 Rama 6 Road, Soi Pibul Wattana Bangkok, 10400 THAILAND	T/F: 66 2 298 6613
<b>ROMAN</b> Dr. Raymond <i>IAPSO National Correspondent</i>	University of Cape Town Private Bag Rondebosch, 7701 SOUTH AFRICA	T: 27 21 650 5369 F: 27 21 650 3979 raymond.roman[at]uct.ac.za
<b>ROMANO</b> Dr. Terrie <i>Contact Person, Adhering Organization</i>	National Research Council Canada International Relations Office 1200 Montreal Road, M50 Ottawa, ON, K1A 0R6 CANADA	terrie.romano[at]nrc-cnrc.gc.ca
<b>ROMERO MOYANO</b> Dr. Jorge <i>Co-Leader, IAVCEI Commission on Explosive Volcanism</i>	Universidad de O'Higgins Instituto de Ciencias de la Ingeniería Avenida Libertador Bernardo O'Higgins 611 Rancagua CHILE	jorge.romero[at]uoh.cl
<b>ROSAT</b> Dr. Séverine <i>IAG National Correspondent</i>	Centre national de la recherche scientifique Institut Terre Environnement Strasbourg École et Observatoire des Sciences de la Terre 5 Rue René Descartes 67084 Strasbourg Cedex FRANCE	severine.rosat[at]unistra.fr
<b>ROSBJERG</b> Prof. Dan <i>Member, Union Commission on Climatic and Environmental Change (CCEC)</i>	Technical University of Denmark (DTU) Department of Environmental Engineering Bygningstorvet, Building 115 2800 Kongens Lyngby DENMARK	T: 45 4525 1449 daro[at]env.dtu.dk

<b>ROST</b> Dr. Sebastian <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	School of Earth and Environment The University of Leeds Woodhouse Lane Leeds, LS2 9JT UK	T: 44 113 34 35212 s.rost[at]leeds.ac.uk
<b>ROTACH</b> Prof. Dr. Mathias <i>IAMAS National Correspondent</i>	University of Innsbruck Department of Atmospheric and Cryospheric Sciences Innrain 52f 6020 Innsbruck AUSTRIA	T: 43 512 507 54452 F: 43 512 507 54599 mathias.rotach[at]uibk.ac.at
<b>ROTHMAN</b> Prof. Daniel H. <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	Massachusetts Institute of Technology Department of Earth, Atmospheric and Planetary Sciences 77 Massachusetts Avenue, 54-1824 Cambridge, MA, 02139-4307 USA	T: 1 617 253 7861 dhr[at]mit.edu
<b>ROUWET</b> Dr. Dmitri <i>Co-Leader, IAVCEI Commission on Volcanic Lakes</i>	Istituto Nazionale di Geofisica e Vulcanologia Via Donato Creti 12 40128 Bologna ITALY	F: 39 051 4151 498 dmitri.rouwet[at]gmail.com dmitri.rouwet[at]bo.ingv.it
<b>ROVERA</b> Operador Geógrafo Héctor <i>Vice-President, National Committee</i>	Instituto Geográfico Militar Av. 8 de octubre 3255 Montevideo URUGUAY	T: 598 2 487 1810 201 T: 598 99641488 F: 598 2 24870868 hcrovera[at]yahoo.com
<b>ROZANOV</b> Dr. Eugene <i>IUGG Liaison, World Meteorological Organization (WMO)</i>	Physikalisch-Meteorologisches Observatorium Davos/World Radiation Center (PMOD/WRC) Dorfstrasse 33 7260 Davos Dorf SWITZERLAND	T: 41 081 4175135 e.rozhanov[at]pmodwrc.ch
<b>RÓZSA</b> Dr. Szabolcs <i>President, IAG Communication &amp; Outreach Branch</i> <i>President, National Committee</i> <i>IAG National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Budapest University of Technology and Economics (BME) Faculty of Civil Engineering Department of Geodesy and Surveying P.O. Box 91 1521 Budapest HUNGARY	T: 36 70 529 5714 rozsa.szabolcs[at]emk.bme.hu
<b>RUDLOFF</b> Dr. Alexander <i>Secretary General, IUGG</i> <i>Member, IUGG Awards Committee Member</i> <i>IASPEI Representative, IUGG/IUGS International Lithosphere Program (ILP)</i> <i>IUGG Liaison, Group on Earth Observations (GEO)</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1069 F: 49 331 6264 1002 rudloff[at]gfz.de sg[at]iugg.org
<b>RUGHOOPUTH</b> Prof. Soonil Dutt Dharam Vir <i>IAGA National Correspondent</i>	University of Mauritius Faculty of Science Department of Physics Reduit MAURITIUS	T: 230 403 7688 T: 230 5709 9121 (mobile) F: 230 465 6928 sdr[at]uom.ac.mu
<b>RUIZ</b> Assoc. Prof. Sergio <i>Vice-President, IASPEI Latin American and Caribbean Seismological Commission (LACSC)</i>	Departamento de Geofísica Facultad de Ciencias Físicas y Matemáticas Universidad de Chile Av. Blanco Encalada 2002 Santiago CHILE	sruiz[at]uchile.cl
<b>RUIZ ETCHEVERRY</b> Dra. Laura A. <i>IAPSO National Correspondent</i>	Centro de Investigaciones del Mar y la Atmósfera (CIMA/CONICET-UBA) Intendente Güiraldes 2160 - Ciudad Universitaria Pabellón II - 2do. Piso Ciudad Autónoma de Buenos Aires ARGENTINA	T: 54 11 52858467 lruiz[at]cima.fcen.uba.ar laura.agustina.ruiz[at]gmail.com
<b>RUS</b> Dr. Tiberiu <i>IAG National Correspondent</i>	Technical University of Civil Engineering Bdul Lacul Tei, nr. 124 020396 Bucharest ROMANIA	T: 40 723 000 278 F: 40 21 242 0781 rus.tiberiu[at]gmail.com
<b>RUSSELL</b> Dr. Joellen <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>IAPSO Liaison, IACS/IAPSO Joint Commission on Ice-Ocean Interactions</i> <i>Member, IAPSO Executive Committee</i>	University of Arizona Department of Geosciences 1040 E. 4th Street Tucson, AZ, 85721 USA	T: 1 520 626 2194 jrussell[at]arizona.edu

<b>RYNGNGA</b> Dr. P. K. <i>Further Member National Committee</i>	North-Eastern Hill University Umshing Mawkyroh Shillong 793022, Meghalaya INDIA	kryngnga[at]yahoo.com
<b>SACCOROTTI</b> Dr. Gilberto <i>IAVCEI National Correspondent</i>	Istituto Nazionale di Geofisica e Vulcanologia (INGV) Sezione di Pisa Via Cesare Battisti, 53 56125 Pisa ITALY	T: 39 0508311960 mgilberto.saccorotti[at]ingv.it
<b>SAFANDA</b> Dr. Jan <i>IACS National Correspondent</i>	The Czech Academy of Sciences Institute of Geophysics Bocni II/1401 141 31 Praha 4 - Sporilov CZECH REPUBLIC	T: 420 267 103 384 F: 420 606 357 815 jsa[at]ig.cas.cz
<b>SAKAKIBARA</b> Dr. Koichi <i>Vice-President, IAHS ICT</i>	Faculty of Science Shinshu University 3-1-1 Asahi Matsumoto, 390-8621 JAPAN	T: 45 4525 1449 k_sakaki[at]shinshu-u.ac.jp
<b>SAKAR</b> Prof. Dr. Mahmoud <i>Contact Person, Adhering Organization</i>	President Academy of Scientific Research and Technology (ASRT) 101 Kasr El-Eini Street Cairo EGYPT	eg.comm[at]asrt.sci.eg
<b>SALIC</b> Assoc. Prof. Dr. Radmila <i>IASPEI National Correspondent</i>	Department for Risk, Disaster Management and Strategic Planning Institute of Earthquake Engineering and Engineering Seismology (IZIIS) Ss. Cyril and Methodius University in Skopje Todor Aleksandrov Str. 165 P.O. Box 101 1000 Skopje NORTH MACEDONIA	r_salic[at]pluto.iziis.ukim.edu.mk
<b>SAMBOCO</b> Eng. Viriato <i>President, National Committee</i> <i>IASPEI National Correspondent</i>	Instituto Nacional de Minas C.P. 217 Maputo MOZAMBIQUE	T: 258 21 312 082 T: 258 82 431 2210 F: 258 21 429 216 viriatosamboco[at]yahoo.com.br
<b>SAMBRIDGE</b> Prof. Malcolm <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	The Australian National University Research School of Earth Sciences Seismology & Mathematical Geophysics Canberra, ACT, 0200 AUSTRALIA	T: 61 2 6125 4557 Malcolm.Sambridge[at]anu.edu.au
<b>SÁNCHEZ</b> Dr. Laura <i>IUGG Liaison, Pan American Institute of Geography and History (PAIGH)</i> <i>President, IAG Global Geodetic Observing System (GGOS)</i>	German Geodetic Research Institute TU München (DGFI-TUM) Alfons-Goppel-Str. 11 80539 Munich GERMANY	lm.sanchez[at]tum.de
<b>SÁNCHEZ</b> Dra. Leda <i>IASPEI and IAGA National Correspondent</i>	Universidad de la República Facultad de Ciencias Iguá 4225 Montevideo URUGUAY	T: 598 2 5258618 7 172 leda[at]fcien.edu.uy
<b>SANCHEZ-FRANKS</b> Dr. Alejandra <i>Member, IAPSO Executive Committee</i>	National Oceanography Centre (NOC) European Way Southampton, SO14 3ZH UK	T: 44 23 8059 6180 alsf[at]noc.ac.uk
<b>SANCHEZ SOBRINO</b> Mr. Jose Antonio <i>Secretary, National Committee</i>	Instituto Geográfico Nacional Subdirección General de Astronomía y Geodesia C/ General Ibáñez de Ibero, nº 3 28003 Madrid SPAIN	T: 34 91 597 94 28 F: 34 91 597 96 16 jassobrino[at]mitma.es
<b>SANDELLS</b> Dr. Melody <i>President, IAHS ICSIH</i>	Geography and Environmental Sciences Northumbria University Newcastle upon Tyne, NE1 8ST UK	T: 44 191 227 4565 melody.sandells[at]northumbria.ac.uk
<b>SANTOS</b> Prof. Celso Augusto Guimarães <i>IAHS National Correspondent</i>	Universidade Federal da Paraíba UFPB/CT/DECA João Pessoa, PB, 58051-900 BRAZIL	T: 55 83 3216 7684 F: 55 83 3216 7684 celso[at]ct.ufpb.br

<b>SANTOS</b> Eng. Conceição <i>Executive Secretary, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Instituto Português do Mar e da Atmosfera Rua C do Aeroporto 1749-077 Lisbon PORTUGAL	T: 351 21 844 7000 fernando.carrilho[at]ipma.pt presidencia[at]ipma.pt
<b>SANTOS</b> Prof. Marcelo <i>Vice-President, IAG Project Novel Sensors and Quantum Technology for Geodesy (QuGe)</i>	University of New Brunswick Dept. Geodesy and Geomatics Eng. P.O. Box 4400 Fredericton, NB, E3B 5A3 CANADA	msantos[at]unb.ca
<b>SANTOYO</b> Dr. Miguel Ángel <i>Secretary, National Committee</i> <i>IASPEI National Correspondent (Alternate)</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Instituto de Geofísica, UNAM Ciudad Universitaria, Coyoacán 04510, Ciudad de México MEXICO	T: 52 55 56224127 ext. 136 santoyo[at]geofisica.unam.mx
<b>SARKAR</b> Dr. Archana <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>Vice-President, IAHS</i>	National Institute of Hydrology Jal Vigyan Bhavan Roorkee Uttarakhand, 247667 INDIA	T: 91 94 1110 0704 archana_sarkar[at]yahoo.com archana.nihr[at]gov.in
<b>SARKAR</b> Prof. Raju <i>Co-Chair, IASPEI Commission on Education and Outreach</i>	Department of Civil Engineering Delhi Technological University Shahbad Daulatpur Main Bawana Road Delhi, 110042 INDIA	rajsarkar.iaspei[at]gmail.com rajsarkar[at]dce.ac.in
<b>SARUBBI</b> Lic. Yennifer <i>IAG National Correspondent</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 971996563 F: 595 21 585600 yennifer.sarubbi[at]facen.una.py
<b>SARWAR</b> Mr. Ghulam <i>Contact Person, Adhering Organization</i>	Director Training & Research Survey of Pakistan Surveyor General's Office Murree Road Rawalpindi PAKISTAN	T: 92 51 929 1057 F: 92 51 929 0229 gssheikh[at]hotmail.com dtr[at]surveyofpakistan.gov.pk
<b>SASAGAWA</b> Ms. Tomoko <i>2nd Vice-President, National Committee</i>	Deputy Director Science Council of Japan Secretariat Division for International Affairs 7-22-34 Roppongi, Minato-ku Tokyo, 106-8555 JAPAN	T: 81 3 3403 5731 F: 81 3 3403 1755
<b>SATAKE</b> Prof. Kenji <i>IASPEI Liaison, IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i> <i>Past President, IASPEI</i> <i>Co-Chair, IASPEI Working Group on Historical Seismicity Chair, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	The University of Tokyo Earthquake Research Institute 1-1-1 Yayoi, Bunkyo-ku Tokyo, 113-0032 JAPAN	T: 81 3 5841 0219 F: 81 3 3814 5507 satake[at]eri.u-tokyo.ac.jp
<b>SATO</b> Dr. Mitsueteru <i>Co-Chair, IAGA Working Group II-A</i>	Hokkaido University Faculty of Science N10, W8, Kita-ku Sapporo, 060-0810 JAPAN	msato[at]ep.sci.hokudai.ac.jp
<b>SAVA</b> Dr. Constantin Stefan <i>Secretary General, National Committee</i>	National Institute of Marine Geology and Geoecology - GeoEcoMar P.O. Box 72-145 033270 Bucharest ROMANIA	T: 40 722 786 434 F: 40 21 252 2594 savac[at]geoecomar.ro
<b>SAVINYKH</b> Dr. Viktor P. <i>IAG National Correspondent</i>	Moscow State University of Geodesy and Cartography (MIIGAiK) 4 Gorokhovsky lane 105064 Moscow RUSSIA	T: 7 499 763 3432 president[at]miigaik.ru vp[at]miigaik.ru
<b>SCAMBOS</b> Dr. Ted <i>Deputy Head, IACS Division III</i>	Cooperative Institute for Research in Environmental Sciences Earth Science Observation Center/ CIRES University of Colorado Boulder Boulder, CO, 80303 USA	tascambos[at]colorado.edu

<b>SCHAMING</b> Dr. Marc <i>Treasurer, National Committee</i>	Institut Terre Environnement Strasbourg École et Observatoire des Sciences de la Terre 5 Rue René Descartes 67084 Strasbourg Cedex FRANCE	marc.schaming[at]unistra.fr tresorier[at]cnfgg.fr
<b>SCHARIEN</b> Dr. Randy <i>IACS National Correspondent</i>	University of Victoria Department of Geography PO Box 1700 Stn CSC Victoria, BC, V8W 2Y2 CANADA	T: 1 250 853 3577 randy[at]uvic.ca
<b>SCHMERR</b> Assoc. Prof. Nicholas <i>IASPEI Representative, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Department of Geology University of Maryland College Park, MD, 20742-4211 USA	T: 1 301 405 4385 nschmerr[at]umd.edu
<b>SCHNEIDER</b> Dr. David <i>IUGG Liaison, International Civil Aviation Organization (ICAO)</i>	U.S. Geological Survey Alaska Volcano Observatory Project Chief Ash Hazards Impacts and Mitigation 4230 University Drive, Suite 100 Anchorage, AK, 99508 USA	T: 1 907 786 7037 djschneider[at]usgs.gov
<b>SCHOLES</b> Prof. Mary <i>Member, IUGG Awards Committee</i> <i>Vice-President IAMAS</i>	School of Animal, Plant and Environmental Sciences University of the Witwatersrand 1 Jan Smuts Ave Johannesburg, 2000 SOUTH AFRICA	mary.scholes[at]wits.ac.za
<b>SCHRÖDER</b> Dr. Katrin <i>IAPSO National Correspondent</i>	CNR - Istituto di Scienze Marine Arsenale - Tesa 104 Castello 2737/F 30122 Venezia ITALY	T: 39 041 2407946 F: 39 041 2407930 katrin.schroeder[at]cnr.it
<b>SCHUBERT</b> Mr. Jan <i>Webmaster, IUGG</i>	DER SICHTBARMACHER - Agentur für Online Konzeption Rechenzentrum I Kunst- und Kreativhaus (Büro 265) Dortustr. 46 14467 Potsdam GERMANY	T: 49 157 84852853 js[at]dersichtbarmacher.de
<b>SCHUH</b> Prof. Dr. Harald <i>Member, IUGG Resolutions Committee</i> <i>IUGG Liaison, United Nations Committee of Experts on Global Geospatial Information Management (UNGIM)</i> <i>Past President, IAG (2015-2019)</i>	GFZ Helmholtz Centre for Geosciences Helmholtzstr. 6 14467 Potsdam GERMANY	schuh[at]gfz.de
<b>SCHWANCK Carlos</b> Dr. Franciele <i>IACS National Correspondent</i>	Departamento de Hidromecânica e Hidrologia - DHH Instituto de Pesquisas Hidráulicas - IPH Universidade Federal do Rio Grande do Sul - UFRGS Av. Bento Gonçalves 9500 91501-970 Porto Alegre, RS BRAZIL	T: 55 51 3308 6341 schwanck.carlos[at]ufrgs.br
<b>SCHWEITZER</b> Dr. Johannes <i>Member, IUGG Statutes and By-Laws Committee</i> <i>Secretary General &amp; Treasurer, IASPEI</i> <i>IASPEI Representative ISC Executive Committee</i>	NORSAR Gunnar Randers vei 15 P.O. Box 53 2027 Kjeller NORWAY	T: 47 41614946 iaspei[at]norsar.no
<b>SCHØTT HIVDBERG</b> Dr. Christine <i>Executive Committee Member, Union Commission on Planetary Sciences (UCPS)</i> <i>Head, IACS Division V</i>	University of Copenhagen Niels Bohr Institute, Ice and Climate Rockefeller Building 335 Juliane Maries Vej 30 2100 København Ø DENMARK	T: 45 35 32 05 63 F: 45 35 32 06 21 ch[at]nbi.ku.dk
<b>SEBERA</b> Dr. Josef <i>Member, National Committee</i>	The Czech Academy of Sciences Bocni II/1401 141 31 Praha 4 - Sporilov CZECH REPUBLIC	T: 420 323 620 167 F: 420 272 769 023 sebera[at]asu.cas.cz
<b>SEDLAK</b> Dr. Pavel <i>IAMS National Correspondent</i>	The Czech Academy of Sciences Bocni II/1401 141 31 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 272 016 020 F: 420 272 763 745 sedlak[at]ufa.cas.cz

<b>SEGHEDI</b> Dr. Ioan <i>IAVCEI National Correspondent</i>	Institute of Geodynamics "Sabba S. Stefanescu" 19-21, Jean-Louis Calderon Str. 020032 Bucharest ROMANIA	T: 40 21 317 2127 F: 40 21 317 2120 seghedi[at]geodin.ro
<b>SEHNAL</b> Dr. Martin <i>Secretary, IAG Communication and Outreach Branch</i>	Federal Office of Metrology and Surveying BEV – Bundesamt für Eich- und Vermessungswesen Schiffamtsgasse 1-3 1020 Vienna AUSTRIA	martin.sehnal[at]ggo.org co[at]ggo.org
<b>SEITZ</b> Dr. Steffen <i>Vice-Chair, SCOR/IAPWS/IAPSO JCS</i>	Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 Braunschweig GERMANY	T: 49 531 592 3130 F 49 531 592 3015 steffen.seitz[at]ptb.de
<b>SELF</b> Prof. Stephen <i>Co-Leader, IAVCEI Commission on Collapse Calderas</i>	Berkeley University of California Earth & Planetary Science 307 McCone Hall Berkeley, CA, 94720-4767 USA	T: 1 510 865 6141 ssef[at]berkeley.edu
<b>SEPIC</b> Assoc. Prof. Dr. Jadranka <i>IAPSO National Correspondent</i>	Faculty of Science University of Split Rudjera Boskovicia 33 21000 Split CROATIA	T: 385 21 619 238 jadranka.sepic[at]pmfst.hr
<b>SETVAK</b> Dr. Martin <i>Member, National Committee</i>	Czech Hydrometeorological Institute Na Sabatce 17 143 06 Prague 4 CZECH REPUBLIC	T: 420 606 880 246 setvak[at]chmi.cz setvak[at]gmail.com
<b>SHAMSHUDIN</b> Ms. Rosanna <i>Contact Person, Adhering Organization</i>	International Science Engagement Officer Australian Academy of Science GPO Box 783 Canberra, ACT 2601 AUSTRALIA	isc[at]science.org.au
<b>SHARAN</b> Ms. Shivangi <i>Co-Chair, IAGA Working Group ComNet</i>	Blackett Laboratory Department of Physics Imperial College London London, SW7 2AZ UK	s.sharan[at]imperial.ac.uk
<b>SHARMA</b> Dr. Rashmi <i>IAPSO National Correspondent</i>	Atmospheric and Oceanic Sciences Group Earth, Ocean, Atmosphere, Planetary Sciences and Applications Area Space Applications Centre (ISRO) Ahmedabad, 380015 INDIA	rashmi[at]sac.isro.gov.in
<b>SHEEN</b> Dr. Katy <i>IAPSO National Correspondent</i>	Centre for Geography and Environmental Science University of Exeter Treliever Road Penryn, TR10 9FE UK	T: 44 1326 255532 k.l.sheen[at]exeter.ac.uk
<b>SHEN</b> Mr. Yanjun <i>Vice-President, IAHS ICRS</i>	Center for Agricultural Resources Research 286 Huaizhong Rd Shijiazhuang Hebei, 050021 CHINA	yjshen[at]sjziam.ac.cn
<b>SHENG</b> Dr. Michael B. <i>IAG National Correspondent</i>	Department of Geodesy and Geomatics Engineering University of New Brunswick P.O. Box 4400 Fredericton, New Brunswick, E3B 5A3 CANADA	T: 1 506 458 7496 M.Sheng[at]unb.ca
<b>SHIMIZU</b> Prof. Hisayoshi <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Earthquake Research Institute The University of Tokyo 1-1-1 Yayoi, Bunkyo-ku Tokyo, 113-0032 JAPAN	T: 81 3 5841 5748 shimizu[at]eri.u-tokyo.ac.jp
<b>SHIMOTSUMA</b> Mr. Shintaro <i>Contact Person, Adhering Organization</i>	Unit Chief Science Council of Japan Secretariat Division for International Affairs 7-22-34 Roppongi, Minato-ku Tokyo, 106-8555 JAPAN	T: 81 3 3403 5731 F: 81 3 3403 1755

<b>SIDERIS</b> Prof. Michael G. <i>Chair, IUGG Nominating Committee</i>	606 - 847 Dunsmuir Road Esquimalt, BC, V9A 0A5 CANADA	T: 1 403 714 0273 sideris[at]ucalgary.ca
<b>SIERRA MÉNDEZ</b> Ms. Ximena <i>Contact Person, Adhering Organization</i>	Oficina Asesora de Planeación Instituto Geográfico Agustín Codazzi Carrera 30 No. 48-51 Bogotá, D.C. COLOMBIA	T: 75 1 3694000 ximena.sierra[at]igac.gov.co
<b>SÍLE</b> Dr. phys. Tija <i>IAMAS National Correspondent</i>	University of Latvia Jelgavas Street 3 1004 Riga LATVIA	T: 371 29228629 tija.sile[at]gmail.com
<b>SIMA</b> Dr. Zdislav <i>Member, National Committee</i>	The Czech Academy of Sciences Bocni II/1401 141 31 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 267 103 042 F: 420 272 769 023 sima[at]jig.cas.cz
<b>SIMON</b> Dr. Karen <i>Chair (IAG), IACS/IAG Sub-Commission on Cryospheric Deformation</i>	Natural Resources Canada 588 Booth Street Ottawa, ON, K1A 0Y7 CANADA	karen.simon[at]nrcan-rncan.gc.ca
<b>SIMONS</b> Prof. Frederik J. <i>Advisory Board Member, Union Commission on Mathematical Geophysics (CMG)</i>	Princeton University Department of Geosciences Guyot Hall 321b Princeton, NJ 08544 USA	T: 1 609 258 1589 fjsimons[at]princeton.edu
<b>SITTHICHIVAPAK</b> Miss Kornrawee <i>IASPEI National Correspondent</i>	Director Seismological Bureau Thai Meteorological Department Ministry of Information and Communication Technology 4353 Sukhumvit Road, Bangna Bangkok THAILAND	T: 66 2 399 4547 F: 66 2 399 0968 tmdseismo[at]gmail.com
<b>SKAUGEN</b> Dr. Thomas <i>IAHS National Correspondent</i>	Norwegian Water Resources and Energy Directorate Section for Hydrological Modelling Hydrology Department P.O. Box 5091 Majorstua 0301 Oslo NORWAY	T: 47 92 404 750 ths[at]nve.no
<b>SKILES</b> Dr. S. McKenzie <i>Vice-President, IAHS ICSIH</i>	Department of Geography University of Utah 260 Central Campus Dr, Rm 4625 Salt Lake City, UT, 84017 USA	T: 1 801 808 2337 m.skiles[at]geog.utah.edu
<b>SKOK</b> Prof. Dr. Gregor <i>IAMAS National Correspondent</i>	University of Ljubljana Faculty of Mathematics and Physics Jadranska 19 SI- 1000 Ljubljana SLOVENIA	gregor.skok[at]fmf.uni-lj.si
<b>SMITH</b> Dr. Ashley <i>Co-Chair, IAGA Interdivisional Commission on Education and Outreach</i>	School of Geosciences University of Edinburgh Scotland UK	ashley.smith[at]ed.ac.uk
<b>SMITH</b> Prof. Leslie M. <i>EC Member, Union Commission on Mathematical Geophysics (CMG) - IAMAS Representative</i>	Department of Mathematics University of Wisconsin - Madison 480 Lincoln Drive Madison, WI, 53706 USA	T: 1 608 263 3057 lsmith[at]math.wisc.edu
<b>SMYTHE-WRIGHT</b> Dr. Denise <i>Chair, IUGG Awards Committee</i> <i>IUGG Liaison, UNESCO Intergovernmental Oceanographic Commission (UNESCO-IOC)</i> <i>Past President, IAPSO (2015-2019)</i>	National Oceanography Centre, Southampton European Way Southampton, SO14 3ZH UK	T: 44 2380 596 440 F: 44 2380 596 204 dsw[at]noc.ac.uk denise[at]denartom.com
<b>SNORRASON</b> Dr. Árni <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	The Icelandic Meteorological Office Bústädavegur 7-9 105 Reykjavík ICELAND	T: 354 522 6000 F: 354 522 6001 arni.snorrason[at]vedur.is arni[at]imo.is
<b>SO</b> Dr. Byung-Dal <i>Secretary-General, National Committee</i>	Kangwon National University KOREA, Rep. of	bdso[at]kangwon.ac.kr

<b>SOBOLEWSKI</b> Dr. Linda <i>Co-Chair, IACS/IAVCEI Volcano-Ice Interactions Commission</i>	Institute of Earth Sciences   Jarðvísindastofnun University of Iceland   Háskóli Íslands Askja - Sturlugata 7 101, Reykjavík ICELAND	lindas[at]hi.is
<b>SOCHINSKAIA</b> Ms. Daria <i>Contact Person, Adhering Organization</i>	Program Officer International Relations Office National Research Council Canada 1200 Montreal Road, M50, 236 Ottawa, ON, K1A 0R6 CANADA	T: 1 613 990 5621 Daria.Sochinskaia[at]nrc-cnrc.gc.ca
<b>SOLDI</b> Contralmirante Héctor <i>IAPSO National Correspondent</i>	Dirección de Hidrografía y Navegación de la Marina Gamarra 500 Chucuito Callao PERU	T: 51 1 465 8312 F: 51 1 429 9054 hsoldi[at]hidronav.marina.mil.pe
<b>SOLEHRIA</b> Major General Munawar Ahmad <i>President, National Committee</i>	Survey of Pakistan Murree Road Rawalpindi PAKISTAN	T: 92 51 929 1057 F: 92 51 929 0229 munawarsolehria[at]hotmail.com dtr[at]surveyofpakistan.gov.pk
<b>SOLOVIEV</b> Dr. Anatoly A. <i>IAGA National Correspondent</i>	Russian Academy of Sciences (RAS) Geophysical Center 3 Molodezhnaya Str. 119296 Moscow RUSSIA	T: 7 495 930 0546 F: 7 495 930 0506 a.soloviev[at]gcras.ru
<b>SOLTAU Ospina</b> Almirante Juan Manuel <i>IAPSO National Correspondent</i>	Centro de Investigaciones Oceanográficas e Hidrográficas - CIOH Barrio Bosque, Sector Manzanillo Escuela Naval Cartagena COLOMBIA	T: 57 5 669 5291 T: 57 5 669 4104 ext. 102 F: 57 5 669 4297 jefcioh[at]cioh.org.co
<b>SOMELAR</b> Dr. Peeter <i>IAVCEI National Correspondent</i>	Department of Geology University of Tartu Ravila 14a 50411 Tartu ESTONIA	T: 372 737 6689 peeter.somelar[at]ut.ee
<b>SON</b> Dr. Nguyen Phi <i>IAG National Correspondent</i>	Vietnam Institute of Geodesy and Cartography 479 Hoang Quoc Viet, Co Nhue 1, Bac Tu Liem Hanoi VIETNAM	T: 84 24 6269 4402 F: 84 24 3754 0186 sonnguyenphi[at]gmail.com
<b>SON</b> Prof. Dr. Seok-Woo <i>Vice-President, IAMAS ICMA</i>	School of Earth and Environmental Sciences Bldg. 501, Office #424 Seoul National University 1 Gwanak-ro, Gwanak-gu Seoul, 08826 KOREA, Rep. of	seokwooson[at]snu.ac.kr
<b>SONG</b> Prof. Sheng-Rong <i>IAVCEI National Correspondent</i>	National Taiwan University Department of Geosciences No. 1, Sec. 4, Roosevelt Road Taipei, Taiwan, 106 CHINA-TAIPEI	T: 886 2 3366 2938 F: 886 2 2363 6095 srsong[at]ntu.edu.tw
<b>SOOSALU</b> Dr. Heidi <i>IASPEI National Correspondent</i>	Geological Survey of Estonia Tartu maantee 85 11412 Tallinn ESTONIA	T: 372 5302 0027 heidi.soosalu[at]egf.ee
<b>SOUDARIN</b> Dr. Laurent <i>Director, Central Bureau of IAG International DORIS Service (IDS)</i>	CLS 8-10 rue Hermes Parc Technologique du Canal 31520 Ramonville Saint-Agne FRANCE	Laurent.Soudarin[at]cls.fr
<b>SPARNOCCIA</b> Dr. Stefania <i>Member, IUGG Site Comparison Committee</i> <i>Past Secretary General, IAPSO (2015-2023)</i>	CNR - Istituto di Scienze Marine Area Science Park - Basovizza - Edificio Q2 Strada Statale 14 - Km. 163.5 34149 Trieste ITALY	stefania.sparnocchia[at]ts.ismar.cnr.it
<b>SPENGLER</b> Prof. Dr. Thomas <i>President, IAMAS ICDM</i> <i>Contact Person, Adhering Organization</i> <i>IAMAS National Correspondent</i>	University of Bergen Geophysical Institute PO Box 7803 5020 Bergen NORWAY	T: 47 55 58 98 46 T: 47 93 81 67 24 Thomas.Spengler[at]uib.no

<b>SPEZIALE</b> Dr. Sergio <i>IASPEI Liaison, IASPEI/IAVCEI Commission on Physics &amp; Chemistry of Earth Materials</i>	GFZ Helmholtz Centre for Geosciences Telegrafenberg, Bldg D228 14473 Potsdam GERMANY	T: 49 331 6264 1848 sergio.speziale[at]gfz.de
<b>SPITZER</b> Dr. Klaus <i>Vice-President, IAGA</i>	Institute of Geophysics and Geoinformatics TU Bergakademie Freiberg Gustav-Zeuner-Str. 12 09596 Freiberg GERMANY	T: 49 3731 39 2722 klaus.spitzer[at]geophysik.tu-freiberg.de
<b>SPRENGER</b> Dr. Matthias <i>Vice-President, IAHS ICT</i>	Lawrence Berkeley Lab 1 Cyclotron Road Berkeley, CA, 94720 USA	msprenger[at]lbl.gov
<b>ŠRAJ</b> Prof. Dr. Mojca <i>IAHS National Correspondent</i>	University of Ljubljana Faculty of Civil and Geodetic Engineering Department of Environmental Civil Engineering Jamova 2 SI-1115 Ljubljana SLOVENIA	mojca.sraj[at]fgg.uni-lj.si
<b>SRBINOSKI</b> Prof. Dr. Zlatko <i>IAG National Correspondent</i>	Ss Cyril and Methodius University Faculty of Civil Engineering Department of Geodesy Blvd. Partizanski odredi 24, PO Box 560 1000 Skopje NORTH MACEDONIA	T: 389 2 311 6066 ext. 123 F: 389 2 311 8834 srbinoski[at]gf.ukim.edu.mk
<b>SREĆKOVIĆ</b> Dr. Vladimir <i>Member, National Committee</i>	Institute of Physics Belgrade National Institute of the Republic of Serbia University of Belgrade Pregrevica 118 11080 Belgrade SERBIA	T: 381 11 3713 153 F: 381 11 3162 190 vlada[at]ipb.ac.rs
<b>SRINIVASAN</b> Dr. MS <i>IAHS National Correspondent</i>	Ministry for Primary Industries P.O. Box 14 018 Christchurch, 8544 NEW ZEALAND	T: 64 3 211 1965 M: 64 27 644 7385 ms.srinivasan[at]mpi.govt.nz
<b>STANDER</b> Mr. Johan <i>IAMAS National Correspondent</i>	Weather Office ATNS Control Tower PO Box 21 Cape Town International Airport Cape Town, 7525 SOUTH AFRICA	T: 27 21 934 0450 F: 27 21 934 4590 johan.stander[at]weathersa.co.za
<b>STANOJEVIĆ</b> Dr. Gorica <i>IAMAS National Correspondent</i>	Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts Đure Jakšića 9 11000 Belgrade SERBIA	T: 381 11 2636 395 T: 381 11 2636 594 F: 381 11 2637 597 g.stanojevic[at]gi.sanu.ac.rs
<b>STEFFEN</b> Dr. Rebekka <i>Member, IUGG Equality, Diversity, and Inclusion Committee</i> <i>President, IAG Commission 3: Earth Rotation and Geodynamics</i>	LANTMÄTERIET Lantmäterigatan 2C SE- 801 82 Gävle SWEDEN	rebekka.steffen[at]lm.se
<b>STENNI</b> Prof. Barbara <i>IACS National Correspondent</i>	Università Ca' Foscari Venezia Dipartimento di Scienze Ambientali, Informatica e Statistica Via Torino, 155 30172 Venezia Mestre ITALY	T: 39 041 234 8637 barbara.stenni[at]unive.it
<b>STIPCEVIC</b> Asst. Prof. Dr. Josip <i>IASPEI National Correspondent</i>	Andrija Mohorovicic Geophysical Institute Faculty of Sciences University of Zagreb Horvatovac 95 10000 Zagreb CROATIA	T: 385 1 460 5953 F: 385 1 468 0331 jstipcevic[at]gfz.hr
<b>STORCHAK</b> Dr. Dmitry A. <i>Member, IUGG Resolutions Committee</i> <i>Second Vice-President, IASPEI</i> <i>Past President, IASPEI European Seismological Commission (ESC); Chair, IASPEI Working Group on Review "classification of seismic events" (jointly with FDSN)</i>	International Seismological Centre Pipers Lane Thatcham, Berkshire, RG19 4NS UK	T: 44 1635 861 022 dmitry[at]isc.ac.uk

<b>STRECK</b> Prof. Martin <i>Member, IUGG Site Comparison Committee</i>	Oregon State University 1825 SW Broadway Portland, OR, 97201 USA	streckm[at]pdx.edu
<b>STREETER</b> Dr. Richard <i>Co-Leader, IAVCEI Commission on Tephrochronology</i>	University of St Andrews School of Geography and Sustainable Development St Andrews, KY16 9AL UK	T: 44 1334 463853 rts3[at]st-andrews.ac.uk
<b>STUECKER</b> Dr. Malte <i>IAPSO National Correspondent</i>	Department of Oceanography University of Hawaii at Manoa Post 406C 1680 East-West Road Honolulu, HHI, 96822 USA	T: 1 808 956 9158 F: 1 808 956 9425 stuecker[at]hawaii.edu
<b>SUÁREZ</b> Cnel. Operador Geógrafo Norbertino <i>President, National Committee</i> <i>IAG National Correspondent</i>	Director Instituto Geográfico Militar Av. 8 de octubre 3255 Montevideo URUGUAY	T: 598 2487 1810 201 T: 598 98960400 F: 598 2 24870868 nsuarez[at]sgm.gub.uy norbertinosuarez[at]gmail.com
<b>SULPIZIO</b> Prof. Roberto <i>Executive Committee Member &amp; IAVCEI Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i> <i>Past Secretary General, IAVCEI (2015-2023)</i>	Università di Bari Dipartimento di Scienze della Terra e Geoambientali via Orabora 4 70125 Bari ITALY	T: 39 080 5442589 F: 39 080 5442625 roberto.sulpizio[at]uniba.it
<b>SUN</b> Prof. Dr. Heping <i>Vice-President, National Committee</i>	Innovation Academy for Precision Measurement Science and Technology Chinese Academy of Sciences (CAS) No. 340 Xudong Road Wuhan, Hubei CHINA	T: 86 27 68881323 F: 86 27 68881323 heping[at]whigg.ac.cn
<b>SUPNITHI</b> Prof. Pornchai <i>Member, IAGA Executive Committee</i>	King Mongkut's Institute of Technology Ladkrabang School of Engineering Telecommunications Engineering Department 1 Chalongkrung Rd, Ladkrabang Bangkok, 10520 THAILAND	pornchai.su[at]kmitl.ac.th
<b>SUZUKI</b> Prof. Takehiko <i>Co-Leader, IAVCEI Commission on Tephrochronology</i>	Tokyo Metropolitan University Research Center for Volcanic Hazards and Their Mitigation Tokyo JAPAN	suzukit[at]tmu.ac.jp
<b>SVENSEN</b> Dr. Henrik <i>Secretary, National Committee</i> <i>IAVCEI National Correspondent</i>	Centre for Earth Evolution and Dynamics Department of Geosciences University of Oslo PO Box 1028 Blindern 0315 Oslo NORWAY	T: 47 9305 3870 T: 47 9164 8832 hensven[at]geo.uio.no
<b>SVENSSON</b> Ass. Prof. Anders <i>Secretary, National Committee</i>	University of Copenhagen Department of Geophysics Juliane Maries Vej 30 2100 Copenhagen Ø DENMARK	T: 45 3532 0616 as[at]gfy.ku.dk
<b>SYAFII</b> Mohamad Arief <i>President, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Geospatial Information Agency (BIG) Deputy Head for Basic Geospatial Information Jl. Raya Jakarta-Bogor km. 46 Bogor, 16911 INDONESIA	T: 62 21 875 7635 F: 62 21 875 7635 arieff.syafii[at]big.go.id
<b>SYNOLAKIS</b> Prof. Costas <i>IAPSO National Correspondent</i>	Academy of Athens and President, Athens College 15 Stefanou Delta str. 15452 Athens GREECE	T: 30 210 6798123 president[at]athenscollege.edu.gr
<b>SZOLGAY</b> Prof. Ján <i>IAHS National Correspondent</i>	Slovak University of Technology Faculty of Civil Engineering Radlinskeho 11 810 05 Bratislava SLOVAK REPUBLIC	T: 421 2 32 888 498 jan.szolgay[at]stuba.sk

<b>TABREZ</b> Dr. Ali Rashid <i>IAPSO National Correspondent</i>	Director General National Institute of Oceanography Street No. 47, Block-1 Clifton Karachi PAKISTAN	T: 92 21 925 1172 T: 92 21 925 1173 F: 92 21 925 1179 niopk[at]cubexs.net.pk
<b>TADILI</b> Prof. Ben Aissa <i>IASPEI National Correspondent</i>	Institut Scientifique Laboratoire de Physique du Globe Charia Ibn Batouta, BP 703 Agdal-Rabat MOROCCO	T: 212 5 777 4543 T: 212 6 6140 1188 F: 212 5 777 4540 tadili[at]yahoo.com
<b>TAKARADA</b> Dr. Shinji <i>Co-Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	Geological Survey of Japan AIST, IEVG Tsukuba Central 7, 1-1-1 Higashi Tsukuba Ibaraki, 305-8567 JAPAN	T: 81 29 861 3691 F: 81 29 861 3803 s-takarada[at]aist.go.jp
<b>TAN</b> Dr. Ivy <i>IAMAS National Correspondent</i>	Department of Atmospheric and Oceanic Sciences McGill University 805 Sherbrooke Street West Montreal, QC, H3A 0B9 CANADA	T: 1 514 398 1500 Ivy.tan[at]mcgill.ca
<b>TANAKA</b> Dr. Satoru <i>Former Chair &amp; Executive Committee Member, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Institute for Research on Earth Evolution 2-15 Natsushima-cho Yokosuka, 237-0061 JAPAN	T: 81 46 867 9340 stan[at]jamstec.go.jp
<b>TANIMOTO</b> Dr. Hiroshi <i>Vice-President, IAMAS ICACGP</i>	National Institute for Environmental Studies (NIES) Earth System Division Tsukuba Ibaraki JAPAN	T: 81 29 850 2930 tanimoto[at]nies.go.jp
<b>TANIOKA</b> Prof. Yuichiro <i>Chair, IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	Institute of Seismology and Volcanology Faculty of Science Hokkaido University Kita 10, Nishi 8, Kita-ku Sapporo, Hokkaido, 060-0810 JAPAN	T: 81 11 706 2640 tanioka[at]sci.hokudai.ac.jp
<b>TATAR</b> Dr. Orhan <i>IASPEI National Correspondent</i>	Head of Earthquake Department Prime Ministry Disaster and Emergency Management Authority AFAD Dumlupinar Bulvari, No: 159 Cankaya, Ankara TÜRKIYE	T: 90 312 258 2102 F: 90 312 258 2396 orhan.tatar[at]afad.gov.tr
<b>TATEVOSSIAN</b> Dr. Ruben <i>President, IASPEI Asian Seismological Commission (ASC)</i>	Schmidt Institute of Physics of the Earth Russian Academy of Sciences Bolshaya Gruzinskaya str., 10-1 Moscow, 123242 RUSSIA	T: 7 499 2543042 ruben[at]ifz.ru
<b>TAYLOR</b> MSc. Waldo <i>IAGA National Correspondent</i>	Instituto Costarricense de Electricidad 0032-1000 San José COSTA RICA	T: 506 8421 0404 WTaylor[at]ice.go.cr
<b>TEFERLE</b> Prof. Felicia Norma Rebecca <i>Secretary, National Committee IAPSO National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	University of Luxembourg Faculté des Sciences, de la Technologie et de la Médecine 6, rue Richard Coudenhove-Kalergi 1359 Luxembourg LUXEMBOURG	T: 352 46 66 44 5790 F: 352 46 66 44 35790 rebecca.teferle[at]uni.lu
<b>TELISMAN PRTEMJAK</b> Assoc. Prof. Dr. Maja <i>IAMAS National Correspondent</i>	Andrija Mohorovicic Geophysical Institute Faculty of Sciences University of Zagreb Horvatovac 95 10000 Zagreb CROATIA	T: 385 1 460 5907 F: 385 1 468 0331 telisman[at]gfz.hr
<b>TELLERIA-GEIGER</b> Dr. José Luis <i>President, National Committee IAGA National Correspondent</i>	Calle 21, No. 8461, Calacoto La Paz BOLIVIA	T: 591 775 16 152 joseluisteller[at]yahoo.com
<b>TEL PÉREZ</b> Dr. Elena <i>IAPSO National Correspondent</i>	Instituto español de Oceanografía (IEO, CSIC) C/Corazón de María, 8 28002 Madrid SPAIN	Elena.tel[at]ieo.csic.es

<b>TERASMAA</b> Prof. Jaanus <i>IAHS National Correspondent</i>	Institute of Ecology at the School of Natural Sciences and Health Tallinn University Narva str 25 10120 Tallinn ESTONIA	T: 372 61 99 833 jaanus.terasmaa[at]tlu.ee
<b>TESAR</b> Dr. Miroslav <i>IAHS National Correspondent</i>	The Czech Academy of Sciences Institute of Hydrodynamics Pod Patankou 30/5 166 12 Prague 6, Dejvice CZECH REPUBLIC	T: 420 233 109 011 T: 420 721 881 733 F: 420 233 324 361 miroslav.tesar[at]ioi.cz
<b>TESAURO</b> Prof. Magdalena <i>Chair, IASPEI Commission on Tectonophysics and Crustal Structure</i>	Università degli Studi di Trieste Dipartimento di Matematica, Informatica e Geoscienze Via Weiss 1 Trieste ITALY	mtesauro[at]units.it
<b>TESTOR</b> Dr. Pierre <i>IAPSO National Correspondent</i>	Sorbonne Université Laboratoire d'océanographie et du climat 4 place Jussieu 75005 Paris FRANCE	pierre.testor[at]locean.ipsl.fr
<b>TEULING</b> Dr. ir. A.J. (Ryan) <i>IAHS National Correspondent</i>	Wageningen University Hydrology and Environmental Hydraulics Group PO Box 47 6700 AA Wageningen NETHERLANDS	T: 31 317 481212 ryan.teuling[at]wur.nl
<b>TEUNISSEN</b> Prof. Dr. Ir. Peter J.G. <i>Vice-President, IAG</i> <i>IAG National Correspondent</i>	Delft University of Technology Faculty of Civil Engineering and Geosciences Department of Geoscience and Remote Sensing PO Box 5048 2600 GA Delft NETHERLANDS	T: 31 15 278 2558 p.j.g.teunissen[at]tudelft.nl
<b>THALLER</b> Dr. Daniela <i>Secretary General, IAG</i>	Federal Agency for Cartography and Geodesy (BKG) Richard-Strauss-Allee 11 60598 Frankfurt GERMANY	daniela.thaller[at]bkg.bund.de
<b>THAMBIRAN</b> Dr. Tirusha <i>Member, IUGG Resolutions Committee</i> <i>Member at Large, IAMAS</i>	Postnet Suite 367 Private Bag x10 Musgrave Road Durban, 4062 SOUTH AFRICA	tthambiran[at]csir.co.za
<b>THANH</b> Dr. Le Truong <i>IACS &amp; IAGA National Correspondent</i>	Institute of Geophysics VAST Nha A8-18, Hoang Quoc Viet-Cau Giay Hanoi VIETNAM	T: 84 989 302 306 F: 84 24 3836 4696 igpthanh[at]gmail.com
<b>THÉBAULT</b> Dr. Erwan <i>IAGA National Correspondent</i>	Université Clermont Auvergne Laboratoire magmas et volcans 6 avenue Blaise Pascal 63178 Aubière Cedex FRANCE	erwan.thebault[at]uca.fr
<b>THEMENS</b> Dr. David <i>Co-Chair, IAGA Working Group GeoDAWG</i> <i>IAGA National Correspondent</i>	I.U.C. Physics/Admin, 209 Department of Physics University of New Brunswick P.O. Box 4400 Fredericton, N.B., E3B 5A3 CANADA	T: 1 506 453 4998 David.Themens[at]unb.ca d.r.themens[at]bham.ac.uk
<b>THOMAS</b> Prof. Dr. Christine <i>Former Chair &amp; Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i> <i>Member, IASPEI Executive Committee</i>	University of Münster Institut für Geophysik Corrensstraße 24 48149 Münster GERMANY	T: 49 251 83 33591 F: 49 251 83 36100 tine[at]earth.uni-muenster.de
<b>THOURET</b> Dr. Valérie <i>Vice-President, IAMAS IO3C</i>	Aérologie-Observatoire, Midi-Pyrénées Toulouse FRANCE	valerie.thouret[at]aero.obs-mip.fr
<b>THYBO</b> Prof. Dr. Hans <i>President, SCL/ILP</i>	Eurasia Institute of Earth Sciences Istanbul Technical University (ITU) 34469 Maslak, Istanbul TÜRKİYE	T: 45 9388 2452 h.thybo[at]gmail.com

<b>TIAN</b> Dr. Fuqiang <i>Member, IUGG Awards Committee</i> <i>Vice-President, IAHS</i>	Department of Hydraulic Engineering Tsinghua University Beijing, 100084 CHINA	T: 86 10 6277 3396 tianfq[at]tsinghua.edu.cn
<b>TIBALDI</b> Prof. Dr. Alessandro <i>Chair of National Representatives, SCL/ILP</i>	University of Milan-Bicocca Dept. of Earth and Environm. Sciences P. della Scienza 4 Milan ITALY	T: 39 02 64 48 20 52 F: 39 02 64 48 20 73 alessandro.tibaldi[at]unimib.it
<b>TELIDZE</b> Dr. Levan <i>IACS National Correspondent</i>	Tbilisi State University Institute of Geography Department of Geomorphology Tamarashvili st. 6 0177 Tbilisi GEORGIA	T: 995 599 395 915 telidzelevan[at]gmail.com
<b>TIIRA</b> Res. Dir. Timo <i>IASPEI National Correspondent</i>	Institute of Seismology University of Helsinki P.O. Box 68 00014 University of Helsinki FINLAND	T: 358 2941 51627 timo.tiira[at]helsinki.fi
<b>TIWARI</b> Dr. Virendra M. <i>Bureau Member, IUGG</i> <i>Member, IUGG Site Comparison Committee</i> <i>IAG National Correspondent</i>	Director CSIR - North East Institute of Science & Technology (CSIR-NEIST) Jorhat, 785006, Assam INDIA	T: 91 9440328269 virendra.m.tiwari[at]gmail.com vmtiwari.ngri[at]gov.in
<b>TKALČIĆ</b> Prof. Hrvoje <i>Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i> <i>Member, IASPEI Executive Committee</i> <i>IASPEI National Correspondent</i>	Research School of Earth Sciences The Australian National University 142 Mills Road Canberra, ACT 0200 AUSTRALIA	T: 61 2 6125 3213 Hrvoje.Tkalcic[at]anu.edu.au
<b>TOCHO</b> Dra. Claudia N. <i>IAG National Correspondent</i>	Universidad Nacional de La Plata Facultad de Ciencias Astronómicas y Geofísicas Departamento de Gravimetría Paseo del Bosque S/N, B1900FWA La Plata - Prov. de Buenos Aires ARGENTINA	T: 54 221 4236593 sciag.cnuggi[at]gmail.com
<b>TODOROVIĆ DRAKUL</b> Dr. Miljana <i>Member, National Committee</i>	Department of Geodesy and Geoinformatics Faculty of Civil Engineering University of Belgrade Bulevar kralja Aleksandra 73 11000 Belgrade SERBIA	T: 381 11 3218 538 F: 381 11 3370 223 mtodorovic[at]grf.bg.ac.rs
<b>TOHARI</b> Dr. Adrin <i>Vice-President, National Committee</i>	National Research and Innovation Agency (BRIN) Director of Research Center for Geological Disaster BRIN Campus Bandung-Cisitu Jln. Sangkuriang, Dago, Coblong Bandung, West Java, 40135 INDONESIA	T: 62 812 2196 7539 adri001[at]brin.go.id
<b>TOLL</b> Ass. Prof. Velle <i>IAMAS National Correspondent</i>	Institute of Physics University of Tartu W. Ostwaldi tn. 1 50411 Tartu ESTONIA	velle.toll[at]ut.ee
<b>TONDOZI</b> Prof. Keto <i>Secretary General, National Committee</i>	Kinshasa University Faculty of Sciences Department of Physics BP 190 Kinshasa XI D.R. CONGO	T: 243 99 142 1614 tondozi[at]yahoo.fr
<b>TRAMUTOLI</b> Prof. Valerio <i>Vice-Chair, IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes &amp; Volcanoes (EMSEV)</i>	School of Engineering University of Basilicata 10, Viale dell'Ateneo Lucano Potenza, PZ 85100 ITALY	valerio.tramutoli[at]unibas.it
<b>TRIFONOVA</b> Assoc. Prof. Dr. Petya <i>Secretary, National Committee</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev str., bl. 3 1113 Sofia BULGARIA	T: 359 2 9793 940 F: 359 2 9713 005 petyageo[at]mail.bg

<b>TRIGLAV ČEKADA</b> Dr. Mihaela <i>IACS National Correspondent</i>	Geodetic Institute of Slovenia Jamova 2 SI- 1000 Ljubljana SLOVENIA	mihaela.triglav[at]gis.si
<b>TRINDADE</b> Dr. Ricardo <i>Member, IAGA Executive Committee</i>	Instituto de Astronomia, Geofísica e Ciências Atmosféricas Universidade de São Paulo 05508-090 São Paulo BRAZIL	ricardo.trindade[at]iag.usp.br
<b>TSAKIRIS</b> Prof. Emer. George <i>IAHS National Correspondent</i>	National Technical University of Athens School of Rural and Surveying Engineering Lab. of Reclamation Works and Water Resources Management Heron Polytechniou 9 157 80 Zographos, Athens GREECE	T: 30 210 772 2631 T: 30 210 772 4064 F: 30 210 772 2632 gtsakir[at]central.ntua.gr
<b>TSERETELI</b> Dr. Nino <i>Secretary General, National Committee IASPEI National Correspondent</i>	Javakhishvili Tbilisi State University Department of Seismology, Seismic Hazard and Natural Disasters Risk Institute of Geophysics Alexidze st. 1 0171 Tbilisi GEORGIA	T: 995 32 233 5513 F: 995 32 332 867 nino_tsereteli[at]tsu.ge nino66_ts[at]yahoo.com
<b>TSUJIMURA</b> Prof. Maki <i>President-Elect, IAHS ICT IAHS National Correspondent</i>	University of Tsukuba Institute of Life and Environmental Sciences 1-1-1 Ten-nodai Tsukuba, 305-8572 JAPAN	T: 81 29 853 2568 mktsuji[at]geoenv.tsukuba.ac.jp
<b>TSYPLENKOV</b> Dr. Anatoly <i>ECC Representative, IAHS ICCE</i>	Geomorphology / Erosion & Sediment Processes Manaaiki Whenua – Landcare Research NEW ZEALAND	atsyplenkov[at]geogr.msu.ru
<b>TULUKA</b> Dr. Georges Mavonga <i>IAVCEI National Correspondent</i>	Observatoire Volcanologique de Goma (OVG) 12, Av. Rond Point Goma, Nord Kivu D.R. CONGO	T: 243 99 858 4734 mavotulu[at]gmail.com
<b>TURNER</b> Prof. John <i>Member at Large, IAMAS</i>	British Antarctic Survey High Cross Madingley Road Cambridge, CB3 0ET UK	T: 44 1223 221 485 F: 44 1223 221 279 john.turner.cambridge[at]gmail.com
<b>TZIAVOS</b> Prof. Emer. Ilias N. <i>IAG National Correspondent</i>	Aristotle University of Thessaloniki School of Rural and Surveying Engineering Department of Geodesy and Surveying GravLab 541 24 Thessaloniki GREECE	T: 30 2310 996 125 F: 30 2310 995 948 tzavos[at]topo.auth.gr
<b>UBIDE</b> A/Prof. Teresa <i>IAVCEI National Correspondent</i>	School of Earth and Environmental Sciences The University of Queensland St Lucia, QLD, 4072 AUSTRALIA	T: 61 7 336 52677 t.ubide[at]uq.edu.au
<b>UNGUREANU</b> Dr. Viorel Gheorghe <i>IAPSO National Correspondent</i>	National Institute of Marine Geology & Geoecology - GeoEcoMar 23-25 Dimitrie Onciu Street 024053 Bucharest ROMANIA	T: 40 723 503 125 F: 40 21 252 2594 gigi.ungureanu[at]geoecomar.ro
<b>UOTILA</b> Prof. Petteri <i>IAMAS National Correspondent</i>	Institute for Atmospheric and Earth System Research (INAR) Faculty of Science P.O. Box 64 00014 University of Helsinki FINLAND	T: 358 44 0180710 petteri.uotila[at]helsinki.fi
<b>UUSIKIVI</b> Dr. Jari <i>IAHS National Correspondent</i>	Finnish Environment Institute (SYKE) P.O. Box 140 00251 Helsinki FINLAND	T: 358 295 251 718 jari.uusikivi[at]ymparisto.fi
<b>UYDAL</b> Dr. Gökçen <i>Secretary, IAHS ICWRS</i>	Eskişehir Technical University 2 Eylül Campus Department of Civil Engineering 26555 Eskişehir TÜRKIYE	T: 90 222 213 8172 gokcenuysal[at]eskisehir.edu.tr

<b>VAJDA</b> Dr. Peter <i>IAVCEI National Correspondent</i>	Slovak Academy of Sciences Earth Science Institute Dubravská cesta 9, P.O. Box 106 840 05 Bratislava SLOVAK REPUBLIC	T: 421 2 5941 0603 F: 421 2 5941 0607 Peter.Vajda[at]savba.sk
<b>VALACH</b> Dr. Fridrich <i>IAGA National Correspondent</i>	Slovak Academy of Sciences Earth Science Institute Dubravská cesta 9, P.O. Box 106 840 05 Bratislava SLOVAK REPUBLIC	T: 421 35 7602 211 fred.valach[at]gmail.com
<b>VALDÉS PÉREZ DE VARGAS</b> Mr. Marcelino <i>IAG National Correspondent</i>	Instituto Geográfico Nacional Subdirección General de Astronomía y Geodesia C/ General Ibáñez de Ibero, nº 3 28003 Madrid SPAIN	T: 34 91 597 94 39 F: 34 91 597 96 16 mvaldes[at]mitma.es
<b>VALENTINE</b> Ass. Prof. Andrew <i>Secretary, Union Commission on Mathematical Geophysics (CMG) – IASPEI representative</i>	Durham University Department of Earth Sciences Durham, DH1 3LE UK	andrew.valentine[at]durham.ac.uk
<b>VÄLI</b> Dr. Gerko <i>IAPSO National Correspondent</i>	Department of Marine Systems Tallinn University of Technology Akadeemia tee 5A 12618 Tallinn ESTONIA	T: 372 6204316 germo.vali[taltech.ee]
<b>VALSSON</b> Ing. Gudmundur <i>IAG National Correspondent</i>	National Land Survey of Iceland Stillholt 16-18 300 Akranes ICELAND	T: 354 430 9000 F: 354 430 9090 gudmundur[at]lmi.is
<b>VANDAELE</b> Dr. Ir. Ann Carine <i>President, IAMAS ICPAE</i> <i>Secretary, National Committee</i> <i>IAGA member, National Committee</i>	Institut royal d'Aéronomie Spatiale de Belgique 3 avenue Circulaire 1180 Brussels BELGIUM	T: 32 2 373 0367 F: 32 2 374 8423 a-c.vandaele[at]aeronomie.be
<b>VAN DAM</b> Prof. Tonie M. <i>Secretary-Treasurer, Union Commission on Climatic and Environmental Change (CCEC)</i>	University of Utah Department of Geology and Geophysics 115 S 1460 E Salt Lake City, UT, 84112 USA	tonie.vandam[at]utah.edu
<b>VAN DEN BROEK</b> Prof. Dr. Michiel R <i>IACS National Correspondent</i>	Utrecht University Institute for Marine and Atmospheric Research PO Box 80 005 3584 CC Utrecht NETHERLANDS	T: 31 30 253 3169 m.r.vandenbroek[at]uu.nl
<b>VAN GRIENSVEN</b> Dr. Ann <i>Vice-President, IAHS ICWQ</i> <i>IAHS National Correspondent</i>	Vrije Universiteit Brussel Pleinlaan 2 Brussels, 1050 BELGIUM	T: 32 424 8476 1696 Ann.Van.Griensven[at]vub.be
<b>VANHAMÄKI</b> Dr. Heikki <i>IAGA National Correspondent</i>	University of Oulu P.O. Box 8000 90014 Oulun yliopisto FINLAND	T: 358 50 5314127 heikki.vanhamaki[at]oulu.fi
<b>VAN HAREN</b> Dr. Hans <i>IUGG Liaison, ISC Scientific Committee on Oceanic Research (SCOR)</i> <i>President, IAPSO</i>	Royal Netherlands Institute for Sea Research (NIOZ) Texel PO Box 59 1790 AB Den Burg (Texel) NETHERLANDS	Hans.van.Haren[at]nioz.nl
<b>van LOON</b> Dr. Anne <i>Vice-President, IAHS ICHWF</i>	Institute for Environmental Studies (IVM) Vrije Universiteit Amsterdam De Boelelaan 1087 Amsterdam, 1081 HV NETHERLANDS	T: 31 20 5986715 anne.van.loon[at]vu.nl
<b>VANNESTE</b> Dr. Kris <i>Adjunct Secretary, National Committee</i> <i>IASPEI National Correspondent</i>	Koninklijk Meteorologisch Instituut Ringlaan 3 1180 Brussels BELGIUM	T: 32 2 3749822 kris.vanneste[at]oma.be
<b>VARBANOV</b> Assoc. Prof. Dr. Marian <i>IAHS National Correspondent</i>	Bulgarian Academy of Sciences National Institute of Geophysics, Geodesy and Geography (NIGGG) Acad. G. Bonchev str., bl.3 1113 Sofia BULGARIA	T: 359 898 896 728 F: 359 2 9713 005 mvarbanov[at]geophys.bas.bg

<b>VARDANYAN</b> Dr. Levon <i>IAMAS National Correspondent</i>	Armenian Hydrometeorological and Monitoring Service 54 Leo str. Yerevan, 0002 ARMENIA	T: 374 10 530 316 F: 374 10 532 952 armstate[at]meteo.am
<b>VARGAS JIMENEZ</b> Dr. Carlos Alberto <i>IASPEI National Correspondent</i>	Universidad Nacional de Colombia Departamento de Geociencias Calle 26; Apartado Aéreo 14490 Bogota, D.C. COLOMBIA	T: 57 1 316 5000/ext. 16506/14 F: 57 1 316 5390 cavargasj[at]unal.edu.co
<b>VARGAS JIMENEZ</b> Dr. Carlos Alberto <i>IASPEI National Correspondent</i>	Universidad Nacional de Colombia Departamento de Geociencias Calle 26; Apartado Aéreo 14490 111311 Bogotá, D.C. COLOMBIA	T: 57 1 316 500/ext. 16506/14 F: 57 1 316 5390 cavargasj[at]unal.edu.co
<b>VARGO</b> Dr. Lauren <i>Deputy Head, IACS Division II</i>	Antarctic Research Centre Victoria University of Wellington Wellington NEW ZEALAND	lauren.vargo[at]vuw.ac.nz
<b>VAVRYCUK</b> Dr. Vaclav <i>IASPEI National Correspondent</i>	The Czech Academy of Sciences Bocni II/1401 141 31 Prague 4 - Sporilov CZECH REPUBLIC	T: 420 267 103 020 T: 420 603 823 183 vv[at]ig.cas.cz
<b>VEGAS</b> Dr. Juana <i>Co-Leader, IAVCEI Commission Volcano Geoheritage and Protected Volcanic Landscapes</i>	Geological and Mining Institute of Spain (IGME) SPAIN	j.vegas[at]igme.es
<b>VELASCO</b> Prof. Aaron <i>Co-Chair, IASPEI Commission on Education &amp; Outreach</i> <i>Chair, National Committee</i> <i>IASPEI National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Department of Geological Sciences University of Texas at El Paso GEO-227 B El Paso, TX, 79968 USA	T: 1 915 747 5101 velasco[at]geo.utep.edu
<b>VELAZQUES OLIVETTI</b> Lic. Clara <i>Contact Person, Adhering Organization</i>	Facultad de Ciencias Exactas y Naturales Universidad Nacional de Asunción Ruta Mcal Estigarribia, Km 11 San Lorenzo PARAGUAY	T: 595 981810732 F: 595 21 585600 claravelazquez[at]facen.una.py
<b>VELIMSKY</b> Dr. Jakub <i>IAGA National Correspondent</i>	Charles University Faculty of Mathematics & Physics Department of Geophysics V Holešovičkách 2 180 00 Prague 8 CZECH REPUBLIC	T: 420 951 552 539 F: 420 951 552 555 jakub.velimsky[at]mff.cuni.cz
<b>VENTURINI</b> Dra. Natalia <i>IACS National Correspondent</i>	Universidad de la República Facultad de Ciencias Iguá 4225 Montevideo URUGUAY	T: 598 2 5258625 150 rulo[at]fcien.edu.uy
<b>VERBANAC</b> Assoc. Prof. Dr. Giuliana <i>IAGA National Correspondent</i>	Andrija Mohorovicic Geophysical Institute Faculty of Science University of Zagreb Horvatovac 95 10000 Zagreb CROATIA	T: 385 1 460 5933 F: 385 1 468 0331 verbanac[at]gfz.hr
<b>VERDOYA</b> Prof. Massimo <i>Past Chair, IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)</i>	University of Genova Department of Earth, Environment and Life Sciences Benedetto XV, 5 16132 Genova ITALY	T: 39 010 3538090 M: 39 348 1922142 massimo.verdoya[at]unige.it
<b>VERGOS</b> Prof. Dr. Georgios <i>Director of Central Bureau, IAG International Gravity Field Service (IGFS)</i>	Department of Geodesy and Surveying Aristotle University of Thessaloniki University Box 440 54124 Thessaloniki GREECE	vergos[at]topo.auth.gr
<b>VICHARE</b> Dr. Geeta <i>Chair, IAGA Interdivisional Commission on Developing Countries</i>	Indian Institute of Geomagnetism Plot No. 5, Sector 18 Near Kalamboli (Highway) New Panvel (W) Navi Mumbai, 410 218 INDIA	T: 91 22 2748 4060 geeta.vichare[at]iigm.res.in

<b>VIEIRA</b> Prof. Gonçalo <i>IACS National Correspondent</i>	Centro de Estudos Geográficos Instituto de Geografia e Ordenamento do Território Universidade de Lisboa Rua Branca Edmée Marques 1600-276 Lisbon PORTUGAL	T: 351 21 044 3000 vieira[at]edu.ulisboa.pt
<b>VIGLIONE</b> Dr. Alberto <i>Vice-President, IAHS ICWRS</i>	Department of Environment, Land and Infrastructure Engineering (DIATI) Politecnico di Torino Turin ITALY	T: 39 011 0905664 alberto.viglione[at]polito.it
<b>VIGLIOTTI</b> Dr. Luigi <i>IAGA Alternate National Correspondent</i>	CNR - Istituto di Scienze Marine Via Gobetti, 101 40129 Bologna ITALY	T: 39 051 6398877 luigi.vigliotti[at]bo.ismar.cnr.it
<b>VIGOUROUX</b> Dr. Corinne <i>Secretary, IAMAS IO3C</i>	Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Avenue Circulaire 3 1180 Brussels BELGIUM	corinne.vigouroux[at]aeronomie.be
<b>VILA-GUERAU DE ARRELLANO</b> Prof. Dr. Jordi <i>IAMAS National Correspondent</i>	Wageningen University Meteorology and Air Quality Section P.O. Box: 47 6700 AA Wageningen NETHERLANDS	T: 31 317485065 jordi.vila[at]wur.nl
<b>VILLASEÑOR HIDALGO</b> Dr. Antonio <i>IASPEI National Correspondent</i>	Instituto de Ciencias del Mar (ICM-CSIC) Pg. Marítim de la Barceloneta, 37-49 08003 Barcelona SPAIN	T: 34 93 230 9500 (ext. 6006) F: 34 93 230 9555 antonio.villasenor[at]csic.es
<b>VIONNET</b> Dr. Vincent <i>Deputy Head, IACS Division I</i>	Environment and Climate Change Canada Meteorological Research Division Dorval, QC CANADA	Vincent.Vionnet[at]ec.gc.ca
<b>VOGFJÖRD</b> Dr. Kristin S. <i>IASPEI National Correspondent</i>	The Icelandic Meteorological Office Bústadavegur 7-9 105 Reykjavik ICELAND	T: 354 522 6000 F: 354 522 6001 vogfjord[at]vedur.is
<b>VOJKOVIC</b> Dr. Marin <i>Secretary, National Committee</i>	Faculty of Science University of Split Rudjera Boskovicia 33 21000 Split CROATIA	T: 385 21 619 237 marin.vojkovic[at]pmfst.hr
<b>VOJTIŠKOVÁ</b> Dr. Marie <i>Member, National Committee</i>	Military Geographical and Hydrometeorological Office Cs. odboje 676 518 16 Dobruska CZECH REPUBLIC	marie.vojtiskova[at]vghur.army.cz
<b>VOLKERT</b> Dr. Hans <i>Member, IUGG Site Comparison Committee</i>	Deutsches Zentrum für Luft- und Raumfahrt (DLR) Institut für Physik der Atmosphäre (IPA) Münchner Straße 20 82234 Oberpfaffenhofen GERMANY	T: 49 8153 282 570 F: 49 8153 281 841 hans.volpert[at]dlr.de
<b>VOLPI</b> Dr. Elena <i>President, IAHS ICSH</i>	University Roma Tre Via Vito Volterra, 62 Rome, 00146 ITALY	T: 39 06 57333235 elena.volpi[at]uniroma3.it
<b>VON HILLEBRANDT-ANDRADE</b> Ms. Christa <i>Executive Committee Member &amp; IAPSO Representative, Union Commission on Geophysical Risk and Sustainability (GRC)</i> <i>IAPSO Representative, IAPSO/IASPEI/IAVCEI Joint Tsunami Commission</i>	International Tsunami Information Center - Caribbean Office Bldg. D UPRM 259 Blvd. Alfonso Valdés Mayagüez, PR, 00680 USA	T: 1 787 249 8307 F: 1 787 265 1684 christa.vonh[at]noaa.gov
<b>VOSS</b> Dr. Peter <i>IASPEI National Correspondent</i>	Geophysics Department Geological Survey of Denmark and Greenland (GEUS) Øster Voldgade 10 1350 Copenhagen K DENMARK	T: 45 40216288 pv[at]geus.dk
<b>VOUGIOUKALAKIS</b> Dr. Georges <i>IAVCEI National Correspondent</i>	Hellenic Survey of Geology and Mineral Exploration S. Lui 1, Olympic Village, Aharne 13677 Athens GREECE	T: 30 213 1337239 gvouug[at]igme.gr

<b>VOZÁR</b> Dr. Ján <i>Secretary, National Committee</i>	Slovak Academy of Sciences Earth Science Institute Dubravská cesta 9, P.O. Box 106 840 05 Bratislava SLOVAK REPUBLIC	T: 421 2 5941 0613 F: 421 2 5941 0607 geofavo[at]savba.sk
<b>WAFULA</b> Dr. D. Mifundu <i>IASPEI National Correspondent</i>	Centre de Recherche en Sciences Naturelles (CRSN) Lwiro, DS Bukavu, Sud Kivu D.R. CONGO	T: 243 81 479 8570 dmwafula[at]yahoo.fr
<b>WAKU</b> Mr. J. Mavakalu <i>Vice-President, National Committee</i>	Agence Nationale de Météorologie B.P. 4715 Kinshasa II D.R. CONGO	T: 243 99 822 6425 meteo.rdc[at]ic.cd
<b>WALTER</b> Apl. Prof. Dr. Thomas R. <i>IAVCEI National Correspondent</i>	GFZ Helmholtz Centre for Geosciences Section 2.1, Physics of Earthquakes and Volcanoes Telegrafenberg 14473 Potsdam GERMANY	T: 49 331 6264 1253 F: 49 331 288 1204 twalter[at]gfz.de
<b>WANG</b> Prof. Dr. Chi <i>IAGA National Correspondent</i>	National Space Science Center (NSSC) Chinese Academy of Sciences (CAS) No.1 Nanertiao, Zhongguancun P.O. Box 8701 Beijing, 100190 CHINA	T: 86 10 139 1162 2887 cw[at]spaceweather.ac.cn
<b>WANG</b> Prof. Pao-Kuan <i>IAMAS National Correspondent</i>	Academia Sinica Research Center for Environmental Changes 128 Academia Road Sec. 2 NankangTaipei Taiwan, 11529 CHINA-TAIPEI	T: 886 2 2653 9885 ext. 854 F: 886 2 2653 3584 pkwang[at]gate.sinica.edu.tw
<b>WANG</b> Prof. Dr. Qin <i>Executive Secretary, SCL/ILP</i>	Nanjing University School of Earth Sciences and Engineering Xianlin Avenue 163 Nanjing CHINA	T: 86 25 83 59 68 87 F: 86 25 83 68 60 16 qwang[at]nju.edu.cn ilp[at]nju.edu.cn
<b>WASZEK</b> Dr. Lauren <i>Vice-Chair &amp; Executive Committee, Union Commission on the Study of the Earth's Deep Interior (SEDI)</i>	James Cook University Physical Sciences 1 James Cook Dr Townsville City, QLD, 4814 AUSTRALIA	T: 61 74 781 5301 lauren.waszek[at]jcu.edu.au
<b>WAYNAKH</b> Mr. Izzeddin M. <i>IAHS National Correspondent</i>	Royal Jordanian Geographic Centre P.O. Box 20214 Amman, 11118 JORDAN	T: 962 6 534 5188 F: 962 6 534 7694 izwainakh[at]yahoo.com
<b>WECKMANN</b> PD Dr. Ute <i>Chair, IAGA Division VI</i> <i>IAGA National Correspondent</i>	GFZ Helmholtz Centre for Geosciences Section 2.2, Geophysical Imaging Albert-Einstein-Straße 42-46 14473 Potsdam GERMANY	T: 49 331 6264 2824 F: 49 331 288 1266 ute.weckmann[at]gfz.de
<b>WEGLER</b> Prof. Ulrich <i>Co-Chair, IASPEI Working Group on Seismic Scattering &amp; Heterogeneity</i>	Institut für Geowissenschaften Friedrich-Schiller-Universität Jena Burgweg 11 07749 Jena GERMANY	T: 49 3641 948660 ulrich.wegler[at]uni-jena.de
<b>WEINSTEIN</b> Prof. Yishai <i>IAVCEI National Correspondent</i>	Bar Ilan University Department of Geography and Environment Ramat Gan, 5290002 ISRAEL	T: 972 3 5318806 F: 972 3 7384033 weinsty[at]biu.ac.il
<b>WENDISCH</b> Prof. Manfred <i>President, IAMAS IRC</i>	Leipzig Institute for Meteorology (LIM) University of Leipzig Stephanstr. 3 04103 Leipzig GERMANY	T: 49 341 97 32851 F: 49 341 97 32899 m.wendisch[at]uni-leipzig.de
<b>WESZTERGOM</b> Dr. Viktor <i>IAGA National Correspondent</i>	HUN-REN Institute of Earth Physics and Space Science Csatkai E. u. 6-8 9401 Sopron HUNGARY	T: 36 99 508 343 wv[at]ggki.hu
<b>WHALER</b> Prof. Kathryn <i>Past President, IUGG (2019-2023)</i> <i>Chair, IUGG Resolutions Committee</i> <i>Past President, IAGA (2011-2015)</i>	The University of Edinburgh School of Geosciences James Hutton Road Edinburgh, EH9 3FE UK	T: 44 131 650 4904 kathy.whaler[at]ed.ac.uk

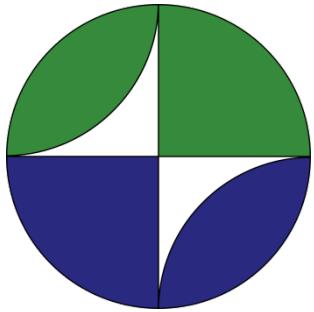
<b>WHITE</b> Dr. Christopher <i>President-Elect, IAHS ICCLAS</i> <i>IAHS National Correspondent</i>	Department of Civil and Environmental Engineering University of Strathclyde James Weir Building Level 5, 75 Montrose Street Glasgow, G1 1XJ UK	T: 44 141 548 4366 chris.white[at]strath.ac.uk
<b>WHITTINGTON</b> Dr. Peter <i>IAHS National Correspondent</i>	Brandon University Dept. of Geography & Environment John R. Brodie Science Centre, 4th floor 270 18th Street Brandon, MB, R7A 6A9 CANADA	T: 1 204 727 9766 whittingtonp[at]brandonu.ca
<b>WICKENS</b> Ms. Michelle <i>Contact Person, Adhering Organization</i>	Coordinator - International Contracts Royal Society Te Apārangi P.O. Box 598 Wellington, 6140 NEW ZEALAND	T: 64 4 470 57 56 Michelle.Wickens[at]royalsociety.org.nz International.Unions[at]royalsociety.org.nz www.royalsociety.org.nz
<b>WICKERT</b> Prof. Jens <i>IUGG Liaison, World Meteorological Organization (WMO)</i>	GFZ Helmholtz Centre for Geosciences Dept. 1 Geodesy Telegrafenberg A17 14473 Potsdam GERMANY	T: 49 331 6264 1758 wickert[at]gfz.de
<b>WIDDOWSON</b> Prof. Mike <i>Co-Leader, IAVCEI Commission on Large Igneous Provinces</i>	Department of Geography, Environment and Earth Sciences University of Hull Cottingham Road Hull, HU6 7RX UK	T: 44 1482 466069 m.widdowson[at]hull.ac.uk
<b>WIELGOSZ</b> Prof. Dr. Paweł <i>President, IAG Commission 4: Positioning and Applications</i> <i>IAG National Correspondent</i>	University of Warmia and Mazury Institute of Geodesy Oczapowskiego St. 1 10-719 Olsztyn POLAND	T: 48 89 523 3305 T: 48 89 523 4473 F: 48 89 523 4768 pawel.wielgosz[at]uwm.edu.pl
<b>WILDE-PIORKO</b> Prof. Dr. Monika <i>Secretary, National Committee IASPEI National Correspondent</i>	Polish Geological Institute – National Research Institute Rakowiecka St. 4 00-975 Warsaw POLAND	T: 48 22 459 2458 monika.wilde-piorko[at]pgi.gov.pl
<b>WILLER</b> Dr. Anna <i>Chair, IAGA Working Group V-DAT</i>	Technical University of Denmark DTU Space Geomagnetism and Geospace Centrifugevej Building 356 2800 Kgs. Lyngby DENMARK	T: 45 45 25 97 06 anna[at]space.dtu.dk
<b>WILLIAMS</b> Dr. Rebecca <i>Co-Leader, IAVCEI Commission on Volcanogenic Sediments</i>	University of Hull School of Environmental Sciences Hull, HU6 7RX UK	T: 44 1482465578 rebecca.williams[at]hull.ac.uk
<b>WILLIAMS</b> Dr. Richard <i>Director, IAPSO Standard Seawater Service</i>	Director IAPSO Standard Seawater Service OSIL Culkin House C7/C8 Endeavour Business Park Penner Road Havant, Hampshire, PO9 1QN UK	T: 44 2392 488 240 becky.childs[at]osil.com osil[at]osil.com
<b>WILLIAMSON</b> Dr. Marie-Claude <i>IAVCEI National Correspondent</i>	Natural Resources Canada Geological Survey of Canada 601 Booth Street, room 495 Ottawa, ON, K1A 0E8 CANADA	T: 1 343 543 6225 marie-claude.williamson[at]nrcan-rncan.gc.ca
<b>WING</b> Dr. Simon <i>IUGG Liaison, ISC Committee on Space Research (COSPAR)</i>	The Johns Hopkins University 11100 Johns Hopkins Road Laurel, MD, 20723-6099 USA	T: 1 240 228 8075 F: 1 240 228 1641 simon.wing[at]jhapl.edu
<b>WINTOFF</b> Dr. Peter <i>IAGA National Correspondent</i>	The Swedish Institute of Space Physics Scheelevägen 17 SE- 223 70 Lund SWEDEN	T: 46 18 471 2569 peter[at]lund.irf.se

<b>WOODMAN</b> Dr. Ronald F. <i>President, National Committee</i> <i>IAGA &amp; IAMAS National Correspondent</i>	Instituto Geofisico del Perú Calle Calatrava 216 Urb. Camino Real La Molina Lima 12 PERU	T: 51 1 436 8437 F: 51 1 436 8437 ron.woodman[at]igp.gob.pe ron[at]infonegocio.net.pe
<b>WOODWORTH</b> Dr. Philip L. <i>IAPSO Liaison, Permanent Service for Mean Sea Level</i>	National Oceanography Centre Joseph Proudman Building 6 Brownlow Street Liverpool, L3 5DA UK	T: 44 151 795 4800 F: 44 151 795 4801 plw[at]noc.ac.uk
<b>WRIGHT</b> Dr. Heather <i>Leader, IAVCEI Commission on Volcanic Hazards and Risk</i>	U.S. Geological Survey David A. Johnston Cascades Volcano Observatory 1300 SE Cardinal Court Building 10, Suite 100 Vancouver, WA, 98683-9589 USA	T: 1 360 993 8916 hwright[at]usgs.gov
<b>WU</b> Prof. Chun-Chieh <i>Vice-Chair, Union Commission on Geophysical Risk and Sustainability (GRC)</i>	Department of Atmospheric Sciences National Taiwan University No 1, Sec. 4, Roosevelt Rd Taipei, 106 CHINA-TAIPEI	T/F: 886 2 2363 2303 cwu[at]typhoon.as.ntu.edu.tw
<b>XIA</b> Dr. Prof. Jun <i>President, National Committee</i>	The Research Institute for Water Security Wuhan University South Road No.8 of East Lake Wuchang District Wuhan, 430072 CHINA	T: 86 139 1092 2532 F: 86 27 68773772 xajun666[at]whu.edu.cn xaj[at]jgsnrr.ac.cn
<b>XU</b> Prof. Peiliang <i>Editor in Chief, Journal of Geodesy</i>	Disaster Prevention Research Institute Kyoto University Gokasho Uji City Kyoto, 611-0011 JAPAN	pxu[at]rcep.dpri.kyoto-u.ac.jp
<b>XU</b> Prof. Dr. Yigang <i>President-Elect, National Committee</i> <i>Nationally Accredited Council Delegate (2023-2024)</i>	Guangzhou Institute of Geochemistry Chinese Academy of Sciences (CAS) Tian He District P.O. Box 1131 Guangzhou, 510640 CHINA	T: 86 20 8519 0109 F: 86 20 8529 0261 yigangxu[at]igig.ac.cn
<b>YAMAMOTO</b> Prof. Kazuhiko <i>Co-Chair, IAGA Working Group ULF Waves</i>	Graduate School of Science The University of Tokyo Hongo Bunkyo-ku JAPAN	yamamoto.kazuhiro[at]eps.s.u-tokyo.ac.jp
<b>YAMAOKA</b> Prof. Koshun <i>IAVCEI National Correspondent</i>	Nuclear Regulation Authority 1-9-9 Roppongi, Minato-ku Tokyo, 106-8450 JAPAN	T: 81 3 5114 2148 koshun.yamaoka[at]nagoya-u.jp
<b>YANG</b> Prof. Ming <i>IAG National Correspondent</i>	National Cheng Kung University Department of Geomatics No 1, University Road Tainan, Taiwan, 701 CHINA-TAIPEI	T: 886 6 275 7575 ext 63820 myang[at]mail.ncku.edu.tw
<b>YAU</b> Prof. Andrew <i>President, IAGA</i>	University of Calgary Department of Physics and Astronomy 2500 University Dr. NW Calgary, AB, T2N 1N4 CANADA	T: 1 403 220 8825 F: 1 403 220 3616 yau[at]phys.ucalgary.ca
<b>YELLES-CHAOUCHE</b> Prof. Abdelkarim <i>President, National Committee, Contact Person, Adhering Body</i> <i>IASPEI National Correspondent</i>	Director Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG) Route de l'Observatoire B.P. 63 Bouzareah, Algiers ALGERIA	T: 213 23 18 90 98/99 F: 213 23 18 91 01 a.yelles[at]craag.dz kyelles[at]yahoo.fr
<b>YETIRMISHLI</b> Corr.-Member of ANAS, Prof., Dr. Gurban <i>IASPEI National Correspondent</i>	Director Republican Seismic Survey Center of ANAS Nigar Rafibeyli Str., 9 AZ 1001 Baku AZERBAIJAN	T: 994 12 492 3437 F: 994 12 492 1455 seys[at]azeurotel.com

<b>YIN</b> Dr. Qiuzhen <i>Secretary, IAMAS ICCL</i>	Université catholique de Louvain Earth and Life Institute Earth and Climate Research Center Place Louis Pasteur, 3, Bte L4.03.08 1348 Louvain-la-Neuve BELGIUM	T: 32 10 47 33 03 qiuzhen.yin[at]uclouvain.be
<b>YUAN</b> Dr. Shanshui <i>Vice-President, IAHS ICCLAS</i>	Yangtze Institute for Conservation and Development Hohai University 1 Xikang Rd Nanjing Jiangsu CHINA	T: 86 25 83772096 yuanshanshui[at]hhu.edu.cn
<b>ZANA</b> Prof. Ndotioni <i>President, National Committee</i>	Centre de Recherche en Géophysique (CRG) B.P. 10336 Kinshasa I D.R. CONGO	T: 242 81 517 1399 azanan2002[at]yahoo.fr
<b>ZARLENGA</b> Dr. Antonio <i>Secretary, IAHS ICGW</i>	Department of Engineering University of Roma Tre, Room 1.4 A Via Vito Volterra, 62 00146 Roma ITALY	T: 39 060657333626 antonio.zarlenga[at]uniroma3.it
<b>ZAVIALOV</b> Dr. Peter O. <i>Member, IAPSO Executive Committee</i> <i>IAPSO National Correspondent</i>	Russian Academy of Sciences (RAS) Shirshov Institute of Oceanology 36 Nakhimovsky ave 117997 Moscow RUSSIA	T: 7 499 124 5994 peter[at]ocean.ru
<b>ZEMP</b> Dr. Michael <i>Director, IACS World Glacier Monitoring Service (WGMS)</i>	University of Zurich Department of Geography Winterthurerstrasse 190 8057 Zurich SWITZERLAND	T: 41 44 635 51 39 F: 41 44 635 68 41 michael.zemp[at]geo.uzh.ch wgms[at]geo.uzh.ch
<b>ZEREFOS</b> Prof. Christos <i>President, National Committee</i> <i>IAMAS National Correspondent</i> <i>Nationally Accredited Council Delegate (2023-2027)</i>	Academy of Athens Research Center for Atmospheric Physics and Climatology Vasilissis Sofias 79 115 21 Athens GREECE	T: 30 210 883 2048 zerefos[at]geol.uoa.gr
<b>ZHANG</b> Prof. Hua <i>IUGG Liaison, World Meteorological Organization (WMO)</i>	Chinese Academy of Meteorological Science China Meteorological Administration 46, Zhong Guan Cun South Street Haidian District, Beijing, 100081 CHINA	huazhang[at]cma.gov.cn
<b>ZHANG</b> Prof. Shiqiang <i>Vice-President, IAHS ICSIH</i>	North West University 1 Xuefu Road Xian Shanxi, 710027 CHINA	T: 86 18092790534 zhangsq[at]nwu.edu.cn
<b>ZOSSI</b> Dr. Marta M. <i>Co-Chair, IAGA Interdivisional Commission on Developing Countries</i>	National University of Tucuman Calle Batalla de Ayacucho 491 4000 San Miguel de Tucumán Tucumán ARGENTINA	mzossi[at]herrera.unt.edu.ar
<b>ZRINJSKI</b> Prof. Dr. Mladen <i>Vice-President, National Committee</i> <i>IAG National Correspondent</i>	Faculty of Geodesy University of Zagreb Savksa cesta 144a 10000 Zagreb CROATIA	T: 385 1 463 9337 mladen.zrinjski[at]geof.unizg.hr
<b>ZÚÑIGA Araya</b> Ship Captain Carlos <i>IAPSO National Correspondent</i>	Dirección Servicio Hidrográfico y Oceanográfico de la Armada (SHOA) Erráuriz Echaurren 254, Playa Ancha Valparaíso, V Region CHILE	T: 56 32 226 6502 shoa[at]shoa.cl
<b>ZUPANČIĆ</b> Prof. Dr. Nina <i>IAVCEI National Correspondent</i>	University of Ljubljana Faculty of Natural Sciences and Engineering Geology Department Aškerčeva 12 SI- 1000 Ljubljana SLOVENIA	nina.zupancic[at]ntf.uni-lj.si

## LIST OF ACRONYMS

AGU	American Geophysical Union
BGI	International Gravimetric Bureau
BIPM	Bureau International des Poids et Mesures
CCEC	Commission on Climatic and Environmental Change
CMG	Commission on Mathematical Geophysics
CODATA	Committee on Data for Science and Technology
COSPAR	Committee on Space Research
EMSEV	IAGA/IASPEI/IAVCEI Inter-Association Working Group on Electromagnetic Studies of Earthquakes and Volcanoes
FAGS	Federation of Astronomical and Geophysical Data Analysis Services
GGOS	Global Geodetic Observing System
GOOS	Global Ocean Observing System
GRC	Commission on Geophysical Risk and Sustainability
IACS	International Association of Cryospheric Sciences
IAG	International Association of Geodesy
IAGA	International Association of Geomagnetism and Aeronomy
IAHS	International Association of Hydrological Sciences
IAMAS	International Association of Meteorology and Atmospheric Sciences
IAPSO	International Association for the Physical Sciences of the Ocean
IASPEI	International Association of Seismology and Physics of the Earth's Interior
IAU	International Astronomical Union
IAVCEI	International Association of Volcanology and Chemistry of the Earth's Interior
ICAO	International Civil Aviation Organization
ICET	International Council of Earth Tides
ICSU	International Council for Science
IGES	International Geoid Service
IHP	International Hydrological Programme
ILP	International Lithosphere Program
IOC	International Oceanographic Commission
IO3C	International Ozone Commission
ION	International Ocean Network
IPGH	Instituto Panamericano de Geografia Historia (also PAIGH)
ISC	International Science Council
ISGI	International Service of Geomagnetics Indices
IUGG	International Union of Geodesy and Geophysics
IUGS	International Union of Geological Sciences
PAIGH	PanAmerican Institute of Geography and History
SCAR	Scientific Committee on Antarctic Research
SCL	Scientific Committee on the Lithosphere
SCOR	Scientific Committee on Ocean Research
SCOSTEP	Scientific Committee on Solar-Terrestrial Physics
SEDI	Study of the Deep Interior of the Earth
UCPS	Union Commission on Planetary Sciences
UNESCO	United Nations Educational, Scientific and Cultural Organization
URSI	Union Radio Scientifique Internationale
WCRP	World Climate Research Programme
WDC	World Data Center
WDS	World Data System
WMO	World Meteorological Organization



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**IUGG Secretariat**  
**GFZ Helmholtz Centre for Geosciences**  
**Telegrafenberg A17, 14473 Potsdam, GERMANY**

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