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# IUGG Yearbook 2015

## Annuaire UGGI 2015

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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), connu aujourd'hui sous le nom de Conseil international pour la science. Le CIUS est un forum planétaire des scientifiques. Il leur permet d'échanger des idées et des informations, et de définir des méthodes et procédures normalisées dans tous les domaines de recherche. L'UGGI, l'une des 32 Unions scientifiques actuellement réunies dans le CIUS, fournit son savoir-faire concernant les études terrestres 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 1925, l'UGGI comptait 31 pays membres. En 2014, elle compte 70 entités adhérentes.

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, and now known as the International Council for Science. ICSU provides a global forum for scientists to exchange ideas and information and to develop standard methods and procedures for all fields of research. IUGG, one of the 32 scientific Unions presently grouped within ICSU, brings 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 1925, there were 31 Member Countries, and in 2014, IUGG had 70 Adhering Bodies.

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 5th 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 50 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) et l'Année Héliophysique Internationale (2007-2008).

### 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 CIUS, par le biais des Commissions inter-unions, et ses activités correspondent avec celles de sept autres Unions du CIUS (GéoUnions): l'Union Astronomique Internationale (UAI), 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) et l'Union Internationale de la Science du Sol (UISS).

## 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 Programmes

IUGG has initiated and vigorously supported collaborative efforts that have led to highly productive world-wide interdisciplinary research programmes, 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 Programme (1967-80), World Climate Research Programme (1980-present), International Lithosphere Program (1981-present), Global Geodetic Observing System (2003-present) and others. These programmes 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, some 50 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) and the International Heliophysical Year (2007-2008).

### 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 ICSU Scientific Unions in inter-Union Commissions, and coordinates its activities with seven other ICSU Unions (GeoUnions): the International Astronomical Union (IAU), 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), and the International Union of Soil Sciences (IUSS).

## 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 70 entités adhérentes (Tableau 1); les entités adhérentes sont répartis dans le monde entier, comme le montre le Tableau 2. En outre, l'UGGI possède quatre 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 adhérent 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 XXVI<sup>e</sup> et se tiendra à Prague, République Tchèque, en 2015. 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 élabore 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. Les membres du Conseil de l'UGGI de la XXV<sup>e</sup> Assemblée Générale, en 2011, seront présentés à la page 14.

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, Vice-président, Secrétaire général et Trésorier) et trois membres associés. Le Bureau se réunit chaque année.

## 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 70 Member Adhering Bodies (Table 1); the Members are distributed throughout the world as shown in Table 2. In addition, IUGG has four 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 XXVI IUGG General Assembly will be number XXVI (26<sup>th</sup>) in Prague, Czech Republic, in 2015. 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 adapted, research programmes requiring international participation are formulated and coordinated. In addition, plans are drawn for the execution of research programmes. The scientific results of programmes 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 IUGG 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. The IUGG Council delegates of the XXV<sup>e</sup> General Assembly in 2011 are listed on page 14.

The IUGG Bureau handles administrative affairs between Council meetings. It is elected by the Council and consists of seven members – four officers (President, Vice-President, Secretary General, and Treasurer) and three members at large. The Bureau meets annually.

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)

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:

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 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'IUGG. En 2013, les Assemblées scientifiques des Associations étaient ainsi: l'Assemblée conjointe de l'AISC et l'AIMSA en Suisse, l'Assemblée conjointe de l'AISH, l' AISPO, et l' AISPIT en Suède, de l'AIG en Allemagne, de l'AIGA en Mexique, et de l'AIVCIT en Japon. 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'IUGG. 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'IUGG a prévu un budget particulier pour assurer leur participation aux symposiums organisés sous l'égide de l'Union et de ses Associations.

Comme l'IUGG, 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.

### Commissions de l'Union

En raison de la nature interdisciplinaire des domaines traités par les Associations internationales, quatre 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'IUGG 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'IUGG. Les cinq Commissions suivantes sont actuellement en activité:

- Géophysique mathématique; Mathematical Geophysics (CMG)
- Étude des profondeurs terrestres; Study of the Earth's Deep Interior (SEDI)
- Commission sur les risques géophysiques et le développement durable; Geophysical Risk and Sustainability (GRC)
- Commission de l'union pour les données et l'information; Union Commission for Data and Information (UCDI)
- Commission de l'union sur les changements climatiques et les modifications de l'environnement; Union Commission on Climatic and Environmental Change (CCEC)
- Groupe de travail sur l'histoire; Working Group on

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 International Associations convene their own Scientific Assemblies approximately every four years, generally two years following the IUGG General Assembly. In 2013, the following scientific assemblies were held: a joint assembly of IACS and IAMAS in Switzerland, a joint assembly of IAHS, IAPSO, and IASPEI in Sweden, IAG in Germany, IAGA in Mexico, and IAVCEI in Japan. 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 programme of investigations and for supporting the activities of its own component parts.

### 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:

- Mathematical Geophysics (CMG); Géophysique mathématique
- Study of the Earth's Deep Interior (SEDI); Étude des profondeurs terrestres
- Geophysical Risk and Sustainability (GRC); Commission sur les risques géophysiques et développement durable
- Union Commission for Data and Information (UCDI); Commission de l'union pour les données et l'information
- Union Commission on Climatic and Environmental Change (CCEC); Commission de l'union sur les changements climatiques et les modifications de l'environnement
- Working Group on History (WGH); Groupe de travail sur l'histoire

### History (WGH)

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

### Commission Inter-Unions

Le Programme International du Lithosphère, 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 décalage de responsabilité vers l'UGGI et l'IUGS. Depuis cette décision, l'UGGI et l'IUGS ont rétabli 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.

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

### Inter-Unions Commission

The International Lithosphere Program, 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

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 versent pas de cotisation, n'ont pas de droit de vote et leurs scientifiques ne peuvent pas occuper de poste de responsabilité. 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 - Table 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 2014 la valeur d'une unité de cotisation est de USD 1875. Le Comité des finances utilise un algorithme pour déterminer le montant de l'unité. Le Comité des finances examine également la catégorie 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.

## 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. 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 - See 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 2014 is USD 1,875. The Finance Committee uses an algorithm to determine the price of a Unit. The Finance Committee also reviews the 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
<i>ALGERIA</i>	<i>1971-2006</i>		
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
<i>CUBA</i>	<i>1960-1996</i>		
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	3	3
<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	1	1
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	1960	2	2
<i>KOREA /DEM.REP</i>	<i>1967-2000</i>		
<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
MACEDONIA, F.Y.R.	1995-2001, 2010	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		
THE NETHERLANDS	1925	4	5
NEW ZEALAND	1927	1	1
NICARAGUA	2014	1	1
NIGERIA	1971	2	2
NORWAY	1923	4	5
PAKISTAN	1952	2	2
PERU	1925-1979, 2000	A	0
PHILIPPINES	1951	3	3
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 & MONTENEGRO (*)	1996-2006		
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		
TURKEY	1949	2	2
UK	1919	8	20
URUGUAY	1924-2000		
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 in 2003 to Serbia & Montenegro. In 2006, Serbia & Montenegro divided, and attempts to confirm membership of either country have been unsuccessful.

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

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

**Table 2:  
Regional Distribution of Members**

REGION	# OF MEMBERS
Africa	8
Asia	18
Europe	31
North and Central America	5
Oceania	2
South America	6

**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 Geothics (IAGETH)	2014
Young Earth Scientist (YES) Network	2014

**Table 4: IUGG General Assemblies**

Assembly	Year	National	Foreigners	Total
IV.* Stockholm	1930	91	240	331
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

\*The figures given do not take into account the accompanying persons.

## Current Officers of IUGG

### Bureau of the Union

<i>President:</i>	Harsh Gupta	INDIA
<i>Vice-President:</i>	Michael Sideris	CANADA
<i>Secretary General:</i>	Alik Ismail-Zadeh	GERMANY/RUSSIA
<i>Treasurer:</i>	Aksel W. Hansen	DENMARK
<i>Members:</i>	Isabelle Ansonge	SOUTH AFRICA
	Pierre Hubert	FRANCE
	Kenji Satake	JAPAN

### 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, Tom Beer (AUSTRALIA)
- the Presidents of the International Associations:
 

<i>IACS:</i>	Charles Fierz	SWITZERLAND
<i>IAG:</i>	Chris Rizos	AUSTRALIA
<i>IAGA:</i>	Kathy Whaler	UK
<i>IAHS:</i>	Hubert Savenije	THE NETHERLANDS
<i>IAMAS:</i>	Athena Coustenis	FRANCE
<i>IAPSO:</i>	Eugene Morozov	RUSSIA
<i>IASPEI:</i>	Domenico Giardini	SWITZERLAND
<i>IAVCEI:</i>	Ray Cas	AUSTRALIA

## Finance Committee of the Union

<i>Chair:</i>	David Collins	UK
<i>Members:</i>	Zoltan Hajnal	CANADA
	Jan Krynski	POLAND
	David Rhoades	NEW ZEALAND

## Secretariat of IUGG

The Secretariat of IUGG is located in Germany:

Helmholtz Centre Potsdam  
 GFZ German Research Centre for Geosciences  
 Telegrafenberg, A17  
 14473 Potsdam

<i>Executive Secretary/Assistant Secretary General:</i>	Franz G. Kuglitsch	GERMANY
<i>Assistant Executive Secretary</i>	Katrin Gundrum	GERMANY

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

## IUGG Liaison Officers and Representatives

### IUGG Liaison Officers with Intergovernmental Organizations

<i>Cartographic Office of the United Nations:</i>	Luiz Fortes	BRAZIL
<i>Consultative Committee for Time and Frequency (CCTF):</i>	Claude Boucher	FRANCE
<i>Group on Earth Observations (GEO):</i>	Alik Ismail-Zadeh	GERMANY/RUSSIA
<i>International Civil Aviation Organization (ICAO):</i>	William I. Rose	USA
	Marianne Guffanti	USA
<i>Pan-American Institute of Geography and History (PAIGH):</i>	Hermann Drewes	GERMANY
<i>United Nations Educational, Scientific and Cultural Organization (UNESCO):</i>		
<i>International Hydrological Programme (IHP):</i>	Christophe Cudennec	FRANCE
<i>Intergovernmental Oceanographic Commission (IOC):</i>	Stefania Sparnocchia	ITALY
<i>World Meteorological Organization (WMO):</i>	Arthur Askew	SWITZERLAND
	Hans Volkert	GERMANY
	Arnau Folch	SPAIN
<i>Partner Advisory Committee (PAC) of the Global Framework for Climate Services (GFCS):</i>	Arthur Askew	SWITZERLAND

### IUGG Representatives on ICSU Committees and ICSU Regional Offices

<i>Committee on Data for Science and Technology (CODATA):</i>	Alexei Gvishiani	RUSSIA
<i>Committee on Space Research (COSPAR):</i>	Eric Donovan	CANADA
<i>Programme on Integrated Research on Disaster Risk (IRDR):</i>	Kuniyoshi Takeuchi	JAPAN
<i>Scientific Committee on Antarctic Research (SCAR):</i>	Ian Allison	AUSTRALIA
<i>Scientific Committee on Oceanic Research (SCOR):</i>	Athena Coustenis	FRANCE
	Eugene Morozov	RUSSIA
<i>Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):</i>	Vladimir Kuznetsov	RUSSIA
<i>World Climate Research Programme (WCRP):</i>	Tom Beer	AUSTRALIA

*World Data System (WDS):*

Ruth E. Neilan USA

*Regional Office for Africa (ROA):*

Isabelle Ansorge SOUTH AFRICA

Ali Tealeb EGYPT

*Regional Office for Asia & the Pacific (ROAP):*

Sri Widiyantoro INDONESIA

Sukanta Roy INDIA

*Regional Office for Latin America and Caribbean (ROLAC):*

Jaime U. Fucugauchi MEXICO

**ACCREDITED DELEGATES TO THE COUNCIL OF THE IUGG**

*25<sup>th</sup> General Assembly, Melbourne, AUSTRALIA, 28 June – 7 July 2011. Listeners (from Associate Member Countries) are indicated by italics.*

C. Risso (ARGENTINA), S. Blanc (ARGENTINA), B. Kennett (AUSTRALIA), I. Jackson (AUSTRALIA), N. Höggerl (AUSTRIA), G. Babayev (AZERBAIJAN), J. De Keyser (BELGIUM), M. Assumpção (BRAZIL), A. Larocca (BRAZIL), D. Pancheva (BULGARIA), Z. Hajnal (CANADA), R. Maturana Nadal (CHILE), J.P. Li (CHINA), S.C. Liu (CHINA-TAIPEI), L. Sanchez (COLOMBIA), K. Tondozi (D.R. CONGO), *M. Protti (COSTA RICA)*, M. Orlic (CROATIA), V. Cermak (CZECH REPUBLIC), S. Gregersen (DENMARK), A. Hady (EGYPT), R. Room (ESTONIA), E. Kozlovskaya (FINLAND), J. Dymont (FRANCE), M. Menvielle (FRANCE), R. Kind (GERMANY), J. Adam (HUNGARY), K. Vogfjörð (ICELAND), V.M. Tiwari (INDIA), A. Karsidi (INDONESIA), J. Gamble (IRELAND), Z. Levin (ISRAEL), G. Panza (ITALY), S. Imawaki (JAPAN), D.-J. Kim (KOREA), W.M. Moon (KOREA), T. van Dam (LUXEMBOURG), C. Popovska (F.Y.R. MACEDONIA), H. Boehnel (MEXICO), M.F. KAMPINE (MOZAMBIQUE), H.H.G. Savenije (THE NETHERLANDS), D. Rhoades (NEW ZEALAND), D. Fubara (NIGERIA), U.-P. Hoppe (NORWAY), N. Elahi (PAKISTAN), J. Krynski (POLAND), J.A. Torres (PORTUGAL), C.S. Sava (ROMANIA), A.D. Gvishiani (RUSSIA), J. Brestenský (SLOVAK REPUBLIC), I. Ansorge (SOUTH AFRICA), R. Roman (SOUTH AFRICA), A. Garcia (SPAIN), B. Arheimer (SWEDEN), M. Parlange (SWITZERLAND), N. Chotsiri (THAILAND), C. Promthong (THAILAND), O. Lenk (TURKEY), S. Özdemir (TURKEY), D. Collins (UK), P. Grew (USA), H.D. Chau (VIETNAM)

## 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 (The 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)

### PAST IUGG VICE-PRESIDENTS

1919-1922	S.A.S. Prince Albert I 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)

### 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)

\*P. Melchior (Belgium) 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)

### 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 Officers of IUGG Finance Committee

### PAST FC PRESIDENTS

1948-1954	John T. Wilson (Canada)
1957-1957	Arthur T. Doodson (UK)
1957-1963	K. Hilding Beij (USA)
1963-1967	M. Doportto (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)

### 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)

### 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. Doportto (Ireland) Jack M. Rayner (Australia) A. Romana (Spain)
1963-1967	Charles A. Whitten (USA) Stanislaw Krynski (Poland) A. Romana (Spain)
1967-1971	Stanislaw Krynski (Poland) James M. Stagg (UK) E. Walser (Switzerland)
1971-1975	Stanislaw Krynski (Poland) E. Walser (Switzerland) G. Yamamoto (Japan)
1975-1979	Stanislaw Krynski (Poland) G. Yamamoto (Japan) P.K. Das (India)
1979-1983	Josep O. Cardus (Spain) Jacub Rais (Indonesia) József Somogyi (Hungary)
1983-1987	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) József Somogyi (Hungary)
1987-1991	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) A. Fred Spilhaus (USA)
1991-1995	Attia A. Ashour (Egypt) A. Fred Spilhaus (USA) Mike J. Hamlin (UK)
1995-1999	Vinod K. Gaur (India) Erwin Groten (Germany) Mike J. Hamlin (UK)
1999-2003	Vinod K. Gaur (India) Erwin Groten (Germany) Mike J. Hamlin (UK)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina) David Jackson (USA)
2007-2011	David Collins (UK) Jan Krynski (Poland) Kiyoshi Suyehiro (Japan)



## Union Commissions

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

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

<i>Chair:</i>	Tom Beer	AUSTRALIA		
<i>Vice-Chair:</i>	Jianping Li	CHINA		
<i>Secretary-Treasurer:</i>	Keith Alverson	USA / KENYA		
<i>Executive Committee Members:</i>	Ian Allison	AUSTRALIA	IACS	
	Eigil Friis-Christensen	DENMARK	IAGA	
	Michael C. MacCracken	USA	IAMAS	
	Lawrence Mysak	CANADA	IAPSO	
	Setsuya Nakada	JAPAN	IAVCEI	
	Dan Rosbjerg	DENMARK	IAHS	
	Stephen Self	USA / UK	IAVCEI	
	Michael G. Sideris	CANADA	IAG	
	Makoto Taniguchi	JAPAN	IAHS	
	Tonie Van Dam	LUXEMBOURG	IAG	
	Guoxiong Wu	CHINA	IAMAS	
	<i>Co-opted Member:</i>	Serhat Sensoy	TURKEY	WMO

### Union Commission on Data and Information (UCDI):

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

<i>Chair:</i>	Peter Fox	USA	
<i>Vice-Chair:</i>	Charles Barton	AUSTRALIA	
<i>Secretary:</i>	Adelina Geyer Traver	SPAIN	
<i>Executive Committee Members:</i>	Tim Ahern	USA	
	Maria Assunção F. Silva Dias	BRAZIL	
	Pierrick Givone	FRANCE	
	Ruth Neilan	USA	
	Mark Parsons	USA	
	Bernd Richter	GERMANY	
	Satheesh Sheno	INDIA	
	Anatoly Soloviev	RUSSIA	

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

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

<i>Chair:</i>	Kuniyoshi Takeuchi	JAPAN		
<i>Vice-Chairs:</i>	Volodya Kossobokov	RUSSIA		
	John LaBrecque	USA		
<i>Secretary:</i>	Diana Greenslade	AUSTRALIA		
<i>Treasurer:</i>	Paula Dunbar	USA		
<i>Past Chair:</i>	Alik Ismail-Zadeh	GERMANY		
<i>Executive Committee Members:</i>	David H. Boteler	CANADA		
	Servando de la Cruz-Reyna	MEXICO		
	David D. Jackson	USA		
	Andreas Käab	NORWAY		
	Joan Martí	SPAIN		
	Alan Thomson	UK		
	<i>Advisory Board Members:</i>	Harsh Gupta	INDIA	
	Viacheslav Gusiakov	RUSSIA		
	Gordon McBean	CANADA		
	Uri Shamir	ISRAEL		
<i>Honorary Members:</i>	Tom Beer	AUSTRALIA		
	Alik Ismail-Zadeh	GERMANY		
	Ramesh P. Singh	USA		

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

<http://www.iugg.org/about/commissions/cmng.php>

<i>Chair:</i>	Yehuda Ben-Zion	USA
<i>Secretary:</i>	Ilya Zaliapin	USA
<i>Vice-Chairs:</i>	Einat Aharonov	ISRAEL
	Claudia Pasquero	ITALY
<i>Past Chair:</i>	Dan Rothman	USA
<i>Executive Committee Members:</i>	Roberto Carniel	ITALY
	Ute Herzfeld	USA
	Shin-chan Han	USA
	Matthias Holschneider	GERMANY
	Dick Peltier	CANADA
	Daniel Schertzer	FRANCE
	Gordon Swaters	USA
		USA

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

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

<i>Chair:</i>	Satoru Tanaka	JAPAN
<i>Vice-Chair:</i>	Jonathan Aurnou	USA
<i>Secretary:</i>	Mike Bergman	USA
<i>Past Chair:</i>	Gauthier Hulot	FRANCE
<i>Executive Committee Members:</i>	Antonio Castro	SPAIN
	Cathy Constable	USA
	Véronique Dehant	BELGIUM
	Gauthier Hulot	FRANCE
	Dominique Jault	FRANCE
	Thorne Lay	USA
<i>Advisory Committee:</i>	Francis Albarede	FRANCE
	James Badro	FRANCE
	Reinhard Boehler	GERMANY
	Bruce Buffett	USA
	Ondrej Cadek	CZECH REPUBLIC
	Ulrich R. Christensen	GERMANY
	Ibrahim A. Eltayeb	SULTANATE OF OMAN
	Guillaume Fiquet	FRANCE
	Rongshan Fu	CHINA
	Ed Garnero	USA
	Gary Glatzmaier	USA
	Dave Gubbins	UK
	George Helffrich	UK
	Richard Holme	UK
	Catherine Johnson	CANADA
	Chris Jones	UK
	Shun-Ichiro Karato	USA
	Louise Kellogg	USA
	Brian L.N. Kennett	AUSTRALIA
	Masaru Kono	JAPAN
	Kei Kurita	JAPAN
	David Loper	USA
	Guy Masters	USA
	Yongxin Pan	CHINA
	Barbara Romanowicz	USA
	Paul Tackley	SWITZERLAND
	Lev P. Vinnik	RUSSIA
	Kathy Whaler	UK

## IUGG Working Group on History

<i>Chair:</i>	Edward Cliver	USA		
<i>Vice-Chair:</i>	Hans Volkert	GERMANY	IAMAS	
<i>Associations Representatives:</i>	Marc Carey	USA		
	József Ádám	HUNGARY	IAG	
	Edward Cliver	USA	IAGA	
	Maurits Ertsen	THE NETHERLANDS	IAHS	
	Hans Volkert	GERMANY	IAMAS	
	John Gould	UK	IAPSO	
	Roger Musson	UK	IASPEI	
	Grant Heiken	USA	IAVCEI	
	<i>History of Science Advisors:</i>	Ronald Doel	USA	
		Gregory Good	USA	

All scientists within IUGG and all historians of science with interest in geophysics are invited to contribute to WGH. Initial contact is to be made via the chairperson.

## Inter-Unions Commission

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

[www.scl-ilp.org](http://www.scl-ilp.org)

<i>President:</i>	Sierd Cloetingh	THE NETHERLANDS
<i>Secretary General:</i>	Magdalena Scheck-Wenderoth	GERMANY
<i>Executive Secretary:</i>	Alexander Rudloff	GERMANY
<i>Bureau Members (Executive):</i>	IUGG: David Jackson	USA
	IUGG: Kalachand C. Sain	INDIA
	IUGS: Roland Oberhänsli	GERMANY
	IUGS and IUGG: Alan Green	SWITZERLAND
	Chair of National Representatives:	
<i>(Associated):</i>	Victoria L. Pease	SWEDEN
	Jean-Pierre Burg	SWITZERLAND
	Patrick J. McKeever	FRANCE
	Andrey F. Morozov	RUSSIA
	François Roure	FRANCE
	Hans Thybo	DENMARK
<i>(Lifetime):</i>	Mark D. Zoback	USA
	Harsh Gupta	INDIA
<i>(ILP-Fellow):</i>	Mary von Knorring	SWEDEN
	Jörg Negendank	GERMANY
<i>Past Secretary General:</i>	Roland Oberhänsli	GERMANY
<i>Honorary President:</i>	Alan Green	SWITZERLAND

## IUGG Committees

### Capacity Building and Education Committee

<i>Chair:</i>	Laszlo Szarka	HUNGARY
<i>Members:</i>	Nasser Abou-Ashour	EGYPT
	Tomas Halenka	CZECH REPUBLIC
	Jadwiga Anna Jarzyna	POLAND
	Shichang Kang	CHINA
	Gerhard Navratil	AUSTRIA
	José Sellés Martínez	ARGENTINA
	Kathy Whaler	UK

### Committee on Membership Issues

<i>Chair:</i>	Ray Cas	AUSTRALIA
<i>Members:</i>	Isabella Ansorge	SOUTH AFRICA
	Jaime Fucugauchi	MEXICO
	Aksel W. Hansen	DENMARK
	Corina Risso	ARGENTINA
	Fred Spilhaus	USA
	Virenda Tiwari	INDIA

### Honours and Recognition Committee

<i>Chair:</i>	Viktor Savinykh	RUSSIA
<i>Members:</i>	Harry Bryden	UK
	Crisan Demetrescu	ROMANIA
	Jianping Li	CHINA

### Visioning Committee

<i>Chair:</i>	Chris Rizos	AUSTRALIA
<i>Members:</i>	Domenico Giardini	SWITZERLAND
	Franz Kuglitsch	GERMANY
	Andrew Mackintosh	NEW ZEALAND
	Mioara Manda	FRANCE

## IUGG Ad-hoc Committees

### Nominating Committee

<i>Chair:</i>	Uri Shamir	ISRAEL
<i>Members:</i>	Alexei Gvishiani	RUSSIA
	Paola Rizzoli	USA
	Guoxiong Wu	CHINA

### Resolution Committee

<i>Chair:</i>	Tom Beer	AUSTRALIA
<i>Members:</i>	Kusumita Arora	INDIA
	Domenico Giardini	SWITZERLAND
	Laura Sanchez	COLOMBIA/GERMANY
	Pierre Hubert	FRANCE

### Site Comparison Committee

<i>Chair:</i>	Setsuya Nakada	JAPAN
<i>Members:</i>	Ian Allison	AUSTRALIA
	Alik Ismail-Zadeh	GERMANY
	Peter Suhadolc	ITALY
	Kathryn Whaler	UK

### Statutes and By-Laws Committee

<i>Chair:</i>	David J. Kerridge	UK
<i>Members:</i>	Vijay Dimri	INDIA
	Jerome Dymont	FRANCE
	Jeff Freymueller	USA
	JoAnn Joselyn	USA
	Michael Sideris	CANADA

## IUGG Award Committees

### Gold Medal Committee

*Chair:*

*Members:*

Robert Engdahl	USA
Claudio Brunini	ARGENTINA
Laura Gallardo	CHILE
Demetris Koutsoyiannis	GREECE
Joan Marti	SPAIN
Lawrence Mysak	CANADA
Olga Solomina	RUSSIA
Mamoru Yamamoto	JAPAN
Alik Ismail-Zadeh	GERMANY

### IUGG Fellow Selection Committee

*Chair:*

*Members:*

Joyce E. Penner	USA
Hugo Delgado Granados	MEXICO
Jan Laštovicka	CZECH REPUBLIC
Harald Schuh	GERMANY
Konrad Steffen	SWITZERLAND
Kuni Takeuchi	JAPAN
Isabelle Ansorge	SOUTH AFRICA

### Early Career Scientist Award Committee

*Chair:*

*Members:*

Jenny Baeseman	NORWAY
Salvatore Grimaldi	ITALY
Thorne Lay	USA
Satheesh Sheno	INDIA
John Turner	UK
Laszlo Szarka (ex-officio)	HUNGARY

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

**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
IAPSO	1988	Acapulco, Mexico	543
IAG	1989	Edinburgh, UK	NA
IASPEI	1989	Istanbul, Turkey	611
IAGA	1989	Exeter, UK	1200

**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>
IAMAS/IAPSO	1989	Reading, UK	1020
IAHS	1989	Baltimore, 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, The 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

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

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

<http://www.cryosphericsscience.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 2013-2015

<i>President:</i>	Charles Fierz	SWITZERLAND
<i>Past President:</i>	Ian Allison	AUSTRALIA
<i>Secretary General:</i>	Andrew Mackintosh	NEW ZEALAND
<i>Vice-Presidents:</i>	Andrés Rivera	CHILE
	Olga Solomina	RUSSIA
	Xiao Cunde	CHINA

### IACS DIVISIONS

#### Division I – Snow and Avalanches:

<i>Head:</i>	Ethan Greene	USA
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#### Division II –Glaciers and Ice Sheets:

<i>Head:</i>	Cecilie Rolstad Denby	NORWAY
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#### Division III – Marine and Freshwater Ice:

<i>Head:</i>	Hiroyuki Enomoto	JAPAN
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#### Division IV – Cryosphere, Atmosphere and Climate:

<i>Head:</i>	Valérie Masson Delmotte	FRANCE
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#### Division V – Planetary and other Ices of the Solar System:

<i>Head:</i>	Ralf Greve	JAPAN
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### IACS SERVICES

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

<i>Director:</i>	Michael Zemp	SWITZERLAND
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### JOINT COMMISSIONS

#### IAVCEI/IACS Commission on Volcano-Ice Interaction

<i>Co-Leaders:</i>	Lucia Capra	MEXICO
	Dave McGarvie	UK
	Tracy Gregg	USA
<i>IACS Liaison:</i>	Andrés Rivera	CHILE

### PAST IACS PRESIDENTS

2007-2009	Georg Kaser (Austria)
2009-2013	Ian Allison (Australia)

### PAST IACS SECRETARIES GENERAL

2007-2011	Manfred Lange (Germany)
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## International Association of Geodesy (IAG) Association Internationale de Géodésie (AIG)

<http://www.iag-aig.org>

In 1862, the “Mitteleuropäische Gradmessung” was founded as the first international scientific association of significance. It expanded to the “Internationale Erdmessung” (Association Géodésique Internationale) in 1886. At the first General Assembly of IUGG (Rome, 2-10 May 1922) it became one of the constituent Sections of the Union. It took its present name at the Stockholm General Assembly of IUGG (1930).

### IAG EXECUTIVE COMMITTEE 2011-2015

The IAG Executive Committee consists of the Bureau, the immediate Past President, the Commission Presidents, the Chair 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>	Chris Rizos	AUSTRALIA
<i>Vice-President:</i>	Harald Schuh	GERMANY
<i>Secretary General:</i>	Hermann Drewes	GERMANY

#### Immediate Past President:

Michael G. Sideris	CANADA
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#### Commission Presidents:

<i>Commission 1:</i>	Tonie van Dam	LUXEMBOURG
<i>Commission 2:</i>	Urs Marti	SWITZERLAND
<i>Commission 3:</i>	Richard S. Gross	USA
<i>Commission 4:</i>	Dorota Greiner-Brzezinska	USA

#### Chair of the Global Geodetic Observing System (GGOS):

Hansjörg Kutterer	GERMANY
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#### President of the Communication and Outreach Branch:

József Ádám	HUNGARY
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#### Representatives of the IAG Services:

Riccardo Barzaghi	ITALY
Thomas Herring	USA
Ruth E. Neilan	USA

#### IAG Members at Large:

Claudio Brunini	ARGENTINA
Richard T. Wonnacott	SOUTH AFRICA

#### Non-voting Members:

<i>President of the ICCT:</i>	Nico Sneeuw	GERMANY
<i>Assistant Secretary:</i>	Helmut Hornik	GERMANY
<i>IAG Past Presidents:</i>	Helmut Moritz	AUSTRIA
	Ivan I. Mueller	USA
	Wolfgang Torge	GERMANY
	Fernando Sansó	ITALY
	Gerhard Beutler	SWITZERLAND
<i>Past Secretaries General:</i>	Michel Louis	FRANCE
	Claude Boucher	FRANCE

**IAG COMMISSIONS****Commission 1: Reference Frames**

<i>President:</i>	Tonie van Dam	LUXEMBOURG
<i>Vice-President</i>	Gary Johnston	AUSTRALIA

**Commission 2: Gravity Field**

<i>President:</i>	Urs Marti	SWITZERLAND
<i>Vice-President</i>	Srinivas Bettadpur	USA

**Commission 3: Earth Rotation and Geodynamics**

<i>President:</i>	Richard S. Gross	USA
<i>Vice-President:</i>	Aleksander Brzezinski	POLAND

**Commission 4: Positioning and Applications**

<i>President:</i>	Dorota Greiner-Brzezinska	USA
<i>Vice-President:</i>	Allison Kealy	AUSTRALIA

**IAG SERVICES****Bureau Gravimetric International (BGI):**

<i>Director:</i>	Sylvain Bonvalot	FRANCE
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**Bureau International de Poids et Mesures (BIPM), Time Department:**

<i>Director of Department:</i>	Elisa Felicitas Arias	FRANCE
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**IAG Bibliography Service (IBS):**

<i>Chair:</i>	Annekathrin Michlencz	GERMANY
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**International Altimetry Service (IAS):**

<i>Chair:</i>	Wolfgang Bosch	GERMANY
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**International Centre for Earth Tides (ICET):**

<i>Director:</i>	Jean-Pierre Barriot	FRANCE
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**International Centre for Global Earth Models (ICGEM):**

<i>Director:</i>	Franz Barthelmes	GERMANY
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**International Digital Elevation Model Service (IDEMS):**

<i>Director:</i>	Philippa Berry	UK
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**International DORIS Service (IDS):**

<i>Chair Governing Board:</i>	Pascal Willis	FRANCE
<i>Director Central Bureau:</i>	Laurent Soudarin	FRANCE

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

<i>Chair of Directing Board:</i>	Brian Luzum	USA
<i>Director of Central Bureau:</i>	Daniela Thaller	GERMANY

**International Geoid Service (IGeS):**

<i>President:</i>	Mirko Reguzzoni	ITALY
<i>Director:</i>	Giovanna Sona	ITALY

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

<i>Chair:</i>	Riccardo Barzaghi	ITALY
<i>Director of Central Bureau:</i>	Iginio Marson	ITALY
<i>Executive Secretary of CB:</i>	Franco Coren	ITALY

**International GNSS Service (IGS):**

<i>Chair of Governing Board:</i>	Urs Hugentobler	GERMANY
<i>Director of Central Bureau:</i>	Ruth E. Neilan	USA

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

*Chair of Governing Board:* Graham Appleby UK  
*Director of Central Bureau:* Michael Pearlman USA  
*Secretary:* Carey Noll USA

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

*Chair of Directing Board:* Axel Nothnagel GERMANY  
*Director of Coord. Centre:* Dirk Behrend USA

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

*Director:* Lesley J. Rickards UK

**IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)**

*Chair:* Hansjörg Kutterer GERMANY  
*Vice-Chair:* Ruth Neilan USA

**IAG INTER-COMMISSION COMMITTEE ON THEORY (ICCT)**

*President:* Nico Sneeuw GERMANY  
*Vice-President:* Pavel Novák CZECH REPUBLIC

**IAG OFFICE**

**Deutsches Geodätisches Forschungsinstitut (DGFI)**

*Secretary General:* Hermann Drewes GERMANY  
*Assistant Secretary:* Helmut Hornik GERMANY

**IAG COMMUNICATION AND OUTREACH BRANCH**

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

*President:* József Adám HUNGARY  
*Secretary:* Szabolcs Rózsa HUNGARY

**JOURNAL OF GEODESY**

*Editor in Chief:* Roland Klees THE NETHERLANDS

**PAST IAG PRESIDENTS**

1864-1885 Johann J. Baeyer (Prussia)  
 1886-1891 Carlos Ibanez de Ibero (Spain)  
 1892-1902 Hervé Faye (France)  
 1903-1918 Léon Bassot (France)  
 1919-1933 William Bowie (USA)  
 1933-1945 Felix A. Vening Meinesz (The 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)  
 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)

**PAST IAG SECRETARIES GENERAL**

1886-1900 Adolph Hirsch (Switzerland)  
 1900-1918 Hendricus G. Van de Sande-Bakhuisen  
 (The Netherlands)  
 1919-1945 Georges 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)

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

<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 2011-2015

<i>President:</i>	Kathryn Whaler	UK
<i>Vice-President:</i>	Eduard Petrovsky	CZECH REPUBLIC
<i>Secretary General:</i>	Mioara Manda	FRANCE
<i>Past President:</i>	Eigil Friis-Christensen	DENMARK
<i>Members:</i>	Archana Bhattacharyya	INDIA
	Iver H. Cairns	AUSTRALIA
	Jeffrey M. Forbes	USA
	Toshihiko Iyemori	JAPAN
	Monika Korte	GERMANY
	László Szarka	HUNGARY
	Andrew Yau	CANADA

### IAGA DIVISIONS

#### IAGA Division I – Internal Magnetic Fields

<i>Chair:</i>	Gauthier Hulot	FRANCE
<i>Co-Chair:</i>	Yasuo Ogawa	JAPAN

#### Working Group I-1: Theory of Planetary Magnetic Fields and Geomagnetic Secular Variation

<i>Chair:</i>	Matthieu Dumberry	CANADA
<i>Co-Chair:</i>	Ján Simkanin	CZECH REPUBLIC

#### Working Group I-2: Electromagnetic Induction and Electrical Conductivity

<i>Chair:</i>	Ian Ferguson	CANADA
<i>Co-Chair:</i>	Nikolay Palshin	RUSSIA

#### Working Group I-3: Palaeomagnetism

<i>Chair:</i>	Emilio Herrero-Bervera	USA
<i>Co-Chair:</i>	Jenny Tait	UK

#### Working Group I-4: Rock Magnetism

<i>Chair:</i>	Qingsong Liu	CHINA
<i>Co-Chair:</i>	Neli Jordanova	BULGARIA

#### IAGA Division II – Aeronomic Phenomena

<i>Chair:</i>	Dora Pancheva	BULGARIA
<i>Co-Chair:</i>	Paulo Fagundes	BRAZIL

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

<i>Chair:</i>	Richard A. Goldberg	USA
<i>Co-Chair:</i>	Martin Füllekrug	UK

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

<i>Chair:</i>	Petra Knizova	CZECH REPUBLIC
<i>Co-Chairs:</i>	Erdal Yigit	TURKEY
	Christina Arras	GERMANY

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

<i>Chair:</i>	Christoph Jacobi	GERMANY
<i>Co-Chairs:</i>	Katja Matthes	GERMANY
	Nick Pedatella	USA

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

<i>Chair:</i>	Paulo Fagundes	BRAZIL
<i>Co-Chair:</i>	Jonathan J. Makela	USA

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

*Chair:* Gufran Beig INDIA  
*Co-Chair:* Jan Lastovicka CZECH REPUBLIC

**Working Group II-G: Polar Research**

*Chair:* Alan Weatherwax USA  
*Co-Chair:* Yusuke Ebihara JAPAN

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

*IAGA Chair:* Jacob Bortnik USA  
*Co-Chair:* Janos Lichtenberger HUNGARY

**IAGA Division III – Magnetospheric Phenomena**

*Chair:* Larry Kepko USA  
*Co-Chair:* Clare Watt CANADA

**Working Group on ULF Waves in Magnetosphere**

*Chair:* Dong-Hun Lee KOREA

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

*Chair:* Xing Li UK  
*Co-Chair:* John Richardson USA

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

*Chair:* Alan W.P. Thomson UK  
*Co-Chair:* Pieter Kotzé SOUTH AFRICA

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

*Chair:* Pavel Hejda CZECH REPUBLIC  
*Co-Chair:* Arnaud Chulliat FRANCE

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

*Chair:* Renata Lukianova RUSSIA  
*Co-Chair:* Masahito Nose JAPAN

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

*Chair:* Christopher Finlay DENMARK  
*Co-Chair:* Erwan Thebault FRANCE

**IAGA Inter-divisional Commissions**

**Inter-divisional Commission on Developing Countries**

*Chair:* Inez S. Batista BRAZIL  
*Co-Chairs:* Pieter Kotzé SOUTH AFRICA  
K. Veera Swamy INDIA

**Inter-divisional Commission on History**

*Chair:* Ronald Doel USA  
*Co-Chair:* David Boteler CANADA

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

*Chair:* Eduard Petrovsky

**IAGA - Joint Interassociation Working Groups**

**IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)**

<http://www.emsev-iugg.org/emsev/>

*Chair:* Jacques Zlotnicki FRANCE  
*Vice-Chair:* Malcolm Johnston USA  
*Secretary:* Toshiyasu Nagao JAPAN  
*Past Chair:* Seiya Uyeda JAPAN  
*IAGA Liaison:* Jann-Yenq Liu CHINA-TAIPEI  
*IAGA WG I-2 Liaison:* Tirumalachetty Harinarayana INDIA

**IASPEI/IAPSO/IAGA International Ocean Network (ION)**

<i>Chair:</i>	Yoshiyuki Kaneda	JAPAN
<i>Secretary:</i>	Heinrich Villinger	GERMANY
<i>IAGA Liaison:</i>	Hisashi Utada	JAPAN

**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	Eigil Friis-Christensen (Denmark)

**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)

## 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, 2013-2015

<i>President:</i>	Hubert Savenije	THE NETHERLANDS
<i>Past President:</i>	Gordon Young	CANADA
<i>Vice-Presidents:</i>	Denis Hughes	SOUTH AFRICA
	Lilang Ren	CHINA
	Thorsten Wagener	UK
<i>Secretary General:</i>	Christophe Cudenec	FRANCE
<i>Treasurer:</i>	Chuck Onstad	USA
<i>Editors:</i>	Mike Acreman	UNITED KINGDOM
	Zbigniew W. Kundzewicz	POLAND
	Demetris Koutsoyiannis	GREECE
<i>Chair IAHS Ltd.:</i>	Des E. Walling	UK

### IAHS INTERNATIONAL COMMISSIONS

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

<i>President:</i>	Michael Stone	CANADA
<i>Vice-Presidents:</i>	Kazimierz Banasik	POLAND
	Adrian Collins	UK
	Xinbao Zhang	CHINA
<i>Secretary:</i>	Paolo Porto	ITALY
<i>Past President:</i>	Valentin Golosov	RUSSIA

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

<i>President:</i>	Eva Boegh	DENMARK
<i>Vice-Presidents:</i>	Paul Houser	USA
	Harald Kunstmann	GERMANY
	Koray Yilmaz	TURKEY
<i>Secretary:</i>	Dawen Yang	CHINA
<i>Past President:</i>	Stewart Franks	AUSTRALIA

#### International Commission on Groundwater (ICGW)

<i>President:</i>	Jim Butler	USA
<i>Vice-Presidents:</i>	Corinna Abesser	UK
	Heidi Barlebo	DENMARK
	René Therrien	CANADA
<i>Secretary:</i>	Gunnar Nützmann	GERMANY
<i>Past President:</i>	Chunmiao Zheng	USA

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

<i>President:</i>	Christopher Neale	USA
<i>Vice-Presidents:</i>	Frédérique Seyler	FRANCE
	Simon Stisen	DENMARK
	Zhongbo (Bob) Su	THE NETHERLANDS
<i>Secretary:</i>	Yangbo Chen	CHINA
<i>Past President:</i>	Ian Cluckie	UK

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

<i>President:</i>	Salvatore Grimaldi	ITALY
<i>Vice-Presidents:</i>	Ebru Eris	TURKEY
	Emna Gargouri	TUNISIA
	Simon-Michael Papalexiou	GREECE
	Uwe Haberlandt	GERMANY
<i>Secretary:</i>	Sander Vandenberghe	BELGIUM

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

<i>President:</i>	Danny Marks	USA
<i>Vice-Presidents:</i>	Alexander Gelfan	RUSSIA
	Tesuya Hiyama	JAPAN
	Tobias Jonas	SWITZERLAND
<i>Secretary:</i>	Regine Hock	USA
<i>Past President:</i>	John Pomeroy	CANADA

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

<i>President:</i>	Hafzullah Aksoy	TURKEY
<i>Vice-Presidents:</i>	Walter Collischonn	BRAZIL
	David Hannah	UK
	Thomas Skaugen	NORWAY
<i>Secretary:</i>	Yan Huang	CHINA
<i>Past President:</i>	Eric Servat	FRANCE

**International Commission on Tracers (ICT)**

<i>President:</i>	Piotr Maloszewski	GERMANY
<i>Vice-Presidents:</i>	Maki Tsujimura	JAPAN
	Zhonghe Pang	CHINA
	Josep Mas-Pla	SPAIN
<i>Secretary:</i>	Przemyslaw Wachniew	POLAND

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

<i>President:</i>	Kate Heal	UK
<i>Vice-Presidents:</i>	Matt Hipsey	AUSTRALIA
	Per Stålnacke	NORWAY
	Lakshmanan Elango	INDIA
<i>Secretary:</i>	Wouter Buytaert	UK

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

<i>President:</i>	Alberto Montanari	ITALY
<i>Vice-Presidents:</i>	George Kuczera	AUSTRALIA
	Andreas Schumann	GERMANY
	Zongxue Xu	CHINA
<i>Secretary:</i>	Nick van de Giesen	THE NETHERLANDS
<i>Past President:</i>	Günter Blöschl	AUSTRIA

**IAHS WORKING GROUPS****“Panta Rhei – Everything Flows” -Change in Hydrology and Society**

<i>Chair:</i>	Alberto Montanari	ITALY
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**Education**

<i>Chair:</i>	Thorsten Wagener	UK
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**Precipitation**

<i>Chair:</i>	Daniel Schertzer	FRANCE
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**MOXXI (Measurements and Observations in the XXIst century)**

<i>Chair:</i>	Rolf Hut	THE NETHERLANDS
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**IAHS TASK FORCE****Developing Countries**

<i>Chair:</i>	Denis Hughes	SOUTH AFRICA
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**PAST IAHS PRESIDENTS**

1922-1933 E. Wade (UK)  
1933-1936 Jan Smetana (Czechoslovakia)  
1936-1947 Otto Lüttschg (Switzerland)  
1947-1948 Gustaf Slettenmark (Sweden)  
1948-1951 Merrill Bernard (USA)  
1951-1957 Johannes T. Thijsse (The Netherlands)  
1957-1960 Harold G. Wilm (USA)  
1960-1963 W. Friedrich (F.R. Germany)  
1963-1967 Adriaan Volker (The Netherlands)  
1967-1970 Károly Szeztay (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 Vít 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)

**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 (The Netherlands)  
1995-2000 Gordon J. Young (Canada)  
2000-2011 Pierre Hubert (France)

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

<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 2011-2015

<i>President:</i>	Athena Coustenis	FRANCE
<i>Vice-Presidents:</i>	Joyce E. Penner	USA
	John Turner	UK
<i>Past President:</i>	Guoxiong Wu	CHINA
<i>Secretary General:</i>	Hans Volkert	GERMANY
<i>Assistant Secretary General (not voting):</i>	Zheng (Jenny) Lin	CHINA
<i>Members at large:</i>	Ernesto Hugo Berbery	USA / ARGENTINA
	Vladimir Kattsov	RUSSIA
	Daren Lu	CHINA
	Colin Price	ISRAEL
	Tetsuzo Yasunari	JAPAN
<i>Commission presidents (ex officio):</i>	see below	see below

### IAMAS COMMISSIONS

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

<http://www.icacgp.org>

<i>President:</i>	John P. Burrows	GERMANY
<i>Vice-President:</i>	Laura Gallardo Klenner	CHILE
<i>Secretary:</i>	Frank Dentener	ITALY

#### Atmospheric Electricity (ICAE)

<http://icae.jp/>

<i>President:</i>	Zen Kawasaki	JAPAN
<i>Secretary:</i>	Dahong Wang	JAPAN / CHINA

#### Climate (ICCL)

<http://www.iccl-iamas.net>

<i>President:</i>	Neil Holbrook	AUSTRALIA
<i>Secretary:</i>	Jianping Li	CHINA

#### Clouds and Precipitation (ICCP)

<http://www.iccp-iamas.org>

<i>President:</i>	Andrea Flossmann	FRANCE
<i>Vice-President:</i>	Robert Rauber	USA
<i>Secretary:</i>	Darrel Baumgardner	MEXICO

#### ICCP - Committee on Nucleation and Atmospheric Aerosols

<http://www.icnaa.org>

<i>Co-Chairs:</i>	Colin O'Dowd	IRELAND
	Paul DeMott	USA

#### Dynamic Meteorology (ICDM)

<http://icdm.atm.ucdavis.edu/ICDM.html>

<i>President:</i>	Richard Swinbank	UK
<i>Secretary:</i>	Richard Grotjahn	USA

**Middle Atmosphere (ICMA)**

<http://www.icma-iamas.org>

<i>President:</i>	Daniel Marsh	USA
<i>Vice-President:</i>	Ulrike Langematz	GERMANY

**Ozone (IO<sub>3</sub>C)**

<http://ioc.atmos.illinois.edu>

<i>President:</i>	Christos Zerefos	GREECE
<i>Vice-President:</i>	Richard Stolarski	USA
<i>Secretary:</i>	Sophie Godin-Beekmann	FRANCE
<i>Director of Information:</i>	Donald Wuebbles	USA

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

<http://www.atm.ox.ac.uk/icpae/>

<i>President:</i>	Sanjay Limaye	USA
<i>Vice-President:</i>	Leigh Fletcher	UK
<i>Secretary:</i>	Darrell Strobel	USA

**Polar Meteorology (ICPM)**

<http://www.icpm-iamas.aq>

<i>President:</i>	Tom Lachlan-Cope	UK
<i>Secretary:</i>	Matthew Lazzara	USA

**Radiation (IRC)**

<http://www.irc-iamas.org>

<i>President:</i>	Werner Schmutz	SWITZERLAND
<i>Vice-President:</i>	Byung-Ju Sohn	KOREA
<i>Secretary:</i>	Peter Pilewskie	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)

**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)

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

<http://iapso.iugg.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 2011 – 2015

<i>President:</i>	Evgeny G. Morozov	RUSSIA
<i>Past President:</i>	Lawrence Mysak	CANADA
<i>Secretary General:</i>	Johan Rodhe	SWEDEN
<i>Treasurer:</i>	Fred E. Camfield	USA

### IAPSO EXECUTIVE COMMITTEE 2011 – 2015

<i>Vice-Presidents:</i>	Isabelle Ansorge	SOUTH AFRICA
	Denise Smythe-Wright	UK
<i>Members:</i>	Silvia Blanc	ARGENTINA
	Toshiyuki Hibiya	JAPAN
	Chris Meinen	USA
	Ken Ridgway	AUSTRALIA
	Satheesh Chandra Shenoi	INDIA
	Stefania Sparnocchia	ITALY

### IAPSO COMMISSIONS

#### Mean Sea Level & Tides

<i>President:</i>	Gary T. Mitchum	USA
<i>Vice-President:</i>	Simon Holgate	UK

### JOINT COMMISSIONS & WORKING GROUPS

#### IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<i>Chair:</i>	Vasily V. Titov	USA
<i>Vice-Chairs:</i>	Fumihiko Imamura	JAPAN
	Ahmet Yalciner	TURKEY
<i>Secretary:</i>	Phil Cummins	AUSTRALIA
<i>IAPSO Representative:</i>	Efim Pelinovsky	RUSSIA

#### IASPEI/IAPSO/IAGA International Ocean Network (ION)

<i>Chair:</i>	Yoshiyuki Kaneda	JAPAN
<i>Secretary:</i>	Heinrich Villinger	GERMANY
<i>IAPSO Representative:</i>	Satheesh Chandra Shenoi	INDIA

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

<i>Chair:</i>	Yuri Popov	RUSSIA
<i>Vice-Chair:</i>	Shaopeng Huang	CHINA / USA
<i>Past Chair:</i>	Christoph Clauser	GERMANY
<i>Secretary:</i>	Sukanta Roy	INDIA
<i>Vice-Secretary:</i>	Heinrich Villinger	GERMANY

#### SCOR/IAPSO WG 145 on Chemical Speciation Modelling in Seawater to Meet 21st Century Needs (MARCHEMSPEC)

<i>Co-Chairs:</i>	David R. Turner	Sweden
	Simon L. Clegg	UK

#### Joint Committee on the Properties of Seawater, JCS (with SCOR and IAPWS)

<i>Chair:</i>	Rich Pawlowicz	CANADA
<i>Vice-Chairs:</i>	Trevor McDougall	AUSTRALIA
	Rainer Feistel	GERMANY

**SERVICES**

**Permanent Service for Mean Sea Level (to be affiliated to the World Data System of ICSU)**

<http://www.psmsl.org>

<i>Director:</i>	Lesley J. Rickards	UK
<i>IAPSO Liaison:</i>	Philip L. Woodworth	UK

**IAPSO Standard Seawater Service**

<i>Director:</i>	Paul S. Ridout	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)
1975-1979	Robert W. Stewart (Canada)
1979-1983	Devendra Lal (India)
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)

**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)

## 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 (AISPLIT)

<http://www.iaspei.org>

At the Sixth International Congress of Geography (London, 1895), Professor G. Gerland (Germany) pointed out 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). The *Association Internationale de Séismologie* was created at the Strasbourg meeting. It consisted of a *Bureau* and of a *Commission Permanente*. The latter 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), it 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). It took its present name at the IX IUGG General Assembly (Bruxelles, 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*, published in *Comptes Rendus de l'AISPLIT*, n15, Première Partie, pp. 12-28, and *Fifty Years of the International Association of Seismology (1901-1951)* by J.-P. Rothé (18 pages).

#### IASPEI BUREAU 2011 – 2015

<i>President:</i>	Domenico Giardini	SWITZERLAND
<i>First Vice-President:</i>	Ian Jackson	AUSTRALIA
<i>Second Vice-President:</i>	Thorne Lay	USA
<i>Secretary General/Treasurer:</i>	Peter Suhadolc	ITALY
<i>Assistant Secretary:</i>	Johannes Schweitzer	NORWAY

#### IASPEI EXECUTIVE COMMITTEE 2011 – 2015

<i>Members:</i>	Marcelo Assumpção	BRAZIL
	Kenji Satake	JAPAN
	Michelle Grobelaar	SOUTH AFRICA
	Alexey Zavyalov	RUSSIA
<i>Past President:</i>	Zhongliang Wu	CHINA

#### IASPEI COMMISSIONS

##### Commission on Tectonophysics and Crustal Structure

<i>Chair:</i>	Kevin Furlong	USA
---------------	---------------	-----

##### Task Group on Active Monitoring

<i>Chair:</i>	Mineo Kumazawa	JAPAN
<i>Co-Chairs:</i>	Victor Seleznev	RUSSIA
	Junzo Kasahara	JAPAN

##### Task Group on Seismic Imaging of the Lithosphere

<i>Chair:</i>	Walter D. Mooney	USA
---------------	------------------	-----

##### Task Group on World Stress Map Project

<i>Chair:</i>	Oliver Heidbach	GERMANY
---------------	-----------------	---------

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

<i>Chair:</i>	Mohsen Ghafory-Ashtiany	IRAN
---------------	-------------------------	------

##### Working Group on Earthquake Predictability

<i>Co-Chairs:</i>	David D. Rhoades	NEW ZEALAND
	David Jackson	USA

##### IASPEI/IAEE Joint Working Group on Effects of Surface Geology on Strong Ground Motion

<i>Co-Chairs:</i>	Hiroshi Kawase	JAPAN
	Jacobo Bielak	USA

##### ASC/SHR Joint Working Group on Seismic Hazard & Risk Assessment for Asian-Pacific Regions

<i>Co-Chairs:</i>	Fabio Romanelli	ITALY
	Gary Gibson	AUSTRALIA

**Working Group on Earthquake Loss Estimates, Real-Time and Scenario Mode Worldwide**

*Chair:* Max Wyss SWITZERLAND

**Commission on Earth Structure & Geodynamics**

*Co-Chairs:* Greg Houseman UK  
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**Working Group on Reference Earth Models**

*Chair:* Gabi Laske USA

**Commission on Seismological Observation & Interpretation (CoSOI)**

*Chair:* Thomas Meier GERMANY  
*Secretary:* Peter Bormann GERMANY

**Task Group on Seismic Scattering & Heterogeneity**

*Chair:* Michael Korn GERMANY

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

*Chair:* Steve C. Myers USA

**Working Group on Magnitude Measurements**

*Co-Chairs:* James W. Dewey USA  
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**Working Group on New Manual of Seismological Observatory Practice**

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**Working Group on Triggered and Induced Seismicity**

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**Working Group on Historical Seismicity**

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 Katsuhiko Ishibashi JAPAN

**Task Group on Definition of Authoritative Locations**

*Chair:* Remy Bossu FRANCE

**Commission on Earthquake Sources – Modelling and Monitoring for Prediction**

*Chair:* Vladimir Smirnov RUSSIA

**Commission on Education & Outreach**

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*Chair:* Jiujuan Chen USA

**IASPEI/IAVCEI Joint Commission on Volcano Seismology**

*Chair:* Jurgen Neuberg UK

**IAPSO/IASPEI/IAVCEI Joint Tsunami Commission**

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*Vice-Chairs:* Fumihiko Imamura JAPAN  
 Ahmet Yalciner TURKEY  
*Secretary:* Phil Cummins AUSTRALIA

**IASPEI/IAVCEI Working Group on Subduction Zones Located in Developing Countries (SZLDC)**

<i>Chair:</i>	Raymond P. Maximo	USA
<i>Vice-Chair:</i>	Jorge E. Clavero	CHILE

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

<http://www.emsev-iugg.org/emsev/>

<i>Chair:</i>	Jacques Zlotnicki	FRANCE
<i>Vice-Chair and IASPEI Liaison:</i>	Malcolm J.S. Johnston	USA
<i>Secretary:</i>	Toshiyasu Nagao	JAPAN
<i>Past Chair:</i>	Seiya Uyeda	JAPAN

**IASPEI/IAPSO/IAGA International Ocean Network (ION)**

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<i>Secretary:</i>	Heinrich Villinger	GERMANY
<i>IASPEI Liaison:</i>	Peter Suhadolc	ITALY

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<i>Chair:</i>	Goran Ekström	USA
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**European Seismological Commission (ESC)**

<i>President:</i>	Wolfgang Lenhardt	AUSTRIA
<i>Vice-President:</i>	Marco Mucciarelli	ITALY
<i>Secretary General:</i>	Stefano Parolai	GERMANY
<i>Assistant Secretary:</i>	Päivi Mäntyniemi	FINLAND

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<i>Second Vice-President:</i>	Bartolome C. Bautista	PHILIPPINES
<i>Secretary General:</i>	Rajenda Kumar Chadha	INDIA

**African Seismological Commission (AfSC)**

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<i>Second Vice-President:</i>	Ahmed Hosny Ali	EGYPT
<i>Secretary General:</i>	Michelle Grobbelaar	SOUTH AFRICA

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

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<i>First Vice-President:</i>	Diana Comte	BRASIL
<i>Secretary General:</i>	Marcelo Assumpção	BRAZIL
<i>Past President:</i>	Carlos Vargas	COLOMBIA

**IASPEI REPRESENTATIVES TO OTHER GROUPS****IAU/IUGG Working Group on Non-Rigid Earth Nutations**

<i>Representative:</i>	Bruce A. Buffett	USA
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**ISC Executive Committee**

<i>Representative:</i>	Oleg Y. Starovoi	RUSSIA
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**IUGG Committee on Mathematical Geophysics**

<i>Representative:</i>	Malcolm Sambridge	AUSTRALIA
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**IUGG GeoRisk Commission**

<i>Representative:</i>	David Jackson	USA
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**SCAR (Solid Earth Geophysical Working Group)**

<i>Representative:</i>	Saurabh K. Verma	INDIA
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**PAST IASPEI PRESIDENTS**

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)
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)

**PAST IASPEI SECRETARIES GENERAL**

1907-1922	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)

**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)**

<http://www.iavcei.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 General Assembly (Stockholm 1930). It took its present name at the Moscow General Assembly (1971).

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<i>President:</i>	Ray Cas	AUSTRALIA
<i>Vice-Presidents:</i>	Stephen Self	USA/UK
	Hugo Delgado	MEXICO
<i>Secretary General:</i>	Joan Marti	SPAIN
<i>Members:</i>	Greg Valentine	USA
	Patricia Mothes	ECUADOR
	Karoly Nemeth	NEW ZEALAND
	Hiroshiu Shinohara	JAPAN
<i>Past President:</i>	Setsuya Nakada	JAPAN
<i>Editor, Bulletin of Volcanology:</i>	James D.L. White	NEW ZEALAND
<i>Webmaster &amp; Membership Secretariat:</i>	Adelina Geyer	SPAIN

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<i>Co-Leaders:</i>	Patrick Allard	FRANCE
	Giovanni Chiodini	ITALY
<i>Secretary:</i>	Felipe Aguilera Barazza	CHILE

**Committee on Cities and Volcanoes**

<i>Leader:</i>	Graham Leonard	NEW ZEALAND
<i>Secretary:</i>	Tom Wilson	NEW ZEALAND

**Commission on Statistics in Volcanology**

<i>Leader:</i>	Mark Bebbington	NEW ZEALAND
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**Commission on Collapse Calderas**

<i>Co-Leaders:</i>	Valerio Acocella	ITALY
	Nobuo Geshi	JAPAN

**Commission on Explosive Volcanism**

<i>Co-Leaders:</i>	Amanda Clarke	USA
	Lucia Gurioli	FRANCE

**Commission on Large Igneous Provinces**

<i>Chair:</i>	Richard E. Ernst	CANADA
<i>Vice Chairs:</i>	Ingrid Ukstins Peate	USA
	Mike Widdowson	UK

**Commission on Monogenetic Volcanism**

<i>Coordinators:</i>	Karoly Nemeth	NEW ZEALAND
	Ian E. Smith	NEW ZEALAND
	Adrian Pittari	NEW ZEALAND

**Commission on Remote Sensing**

<i>Chair:</i>	Fred Prata	NORWAY
<i>Secretary:</i>	Simon Carn	USA

**Commission on Submarine Volcanism**

<i>Leader:</i>	R. Carey	AUSTRALIA
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**Commission on Tephra Hazard Modelling**

*Co-Leader:* Arnau Folch SPAIN  
*Secretary:* Raffaello Cioni ITALY

**Commission on Volcanic Lakes**

*Leader:* Dimitry Rouwet USA  
*Secretary:* Takeshi Ohba JAPAN  
*Webmaster:* Alain Bernard BELGIUM

**IAVCEI/IACS Commission on Volcano-Ice Interaction**

*Co-Leaders:* Lucia Capra MEXICO  
 Dave McGarvie UK  
 Tracy Gregg USA

**Commission on Volcanic Hazards and Risk**

*Co-Leaders:* E. Calder USA  
 A. Bear-Crozier AUSTRALIA  
 J. Lindsay NEW ZEALAND

**Commission on Volcanogenic Sediments**

*Leader:* Gert Lube NEW ZEALAND  
*Secretary:* Richard Brown UK

**IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)**

<http://www.emsev-iugg.org/emsev/>

*Chair:* Jacques Zlotnicki FRANCE  
*Vice-Chair:* Malcolm J.S. Johnston USA  
*Secretary:* Toshiyasu Nagao JAPAN  
*Past Chair:* Seiya Uyeda JAPAN  
*IAVCEI Liaison:* Yoichi Sasai JAPAN

**IASPEI/IAVCEI Commission on Volcano Seismology**

*Chair:* Jürgen Neuberg UK

**IASPEI/IAVCEI Joint Commission on Physics and Chemistry of Earth Materials**

*Chair:* Jihua Chen USA

**IAPSO/IASPEI/IAVCEI Joint Tsunami Commission**

*Chair:* Vasily V. Titov USA  
*Vice-chairs:* Fumihiko Imamura JAPAN  
 Ahmet Yalciner TURKEY  
*Secretary:* Phil Cummins AUSTRALIA  
*IAVCEI Representative:* Yuichi Nishimura JAPAN

**The International Volcanic Health Hazard Network (IVHHN)**

*Leader:* Claire Horwell UK

**Commission on Volcano Acoustics**

*Leader:* David Fee USA

**World Organization of Volcano Observatories**

*Co-Chairs:* Susana Falsaperla ITALY  
 Gill Jolly NEW ZEALAND  
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*Secretary:* Sukanta Roy INDIA  
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**PAST IAVCEI PRESIDENTS**

1919-1922	Annibale Riccò (Italy)
1922-1927	Antoine Lacroix (France)
1927-1933	Alessandro Malladra (Italy)
1933-1936	Constantine A. Ktenas (Greece)
1936-1948	Auguste Michel-Lévy (France)
1948-1954	Berend G. Escher (The 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)

**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)

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

### ANNUAIRE 2015 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 2014.

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 2014.

### ALBANIA - ALBANIE

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Sheshi Fan S. Noli  
Tirane

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<b>IASPEI:</b>	B. MUÇO E. DUSHI	<b>IAVCEI:</b>			

### ARGENTINA - ARGENTINE

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Instituto Geografico Nacional  
Comité Nacional de la Unión Geodésica y Geofísica Internacional  
Cabildo 381  
1426 Buenos Aires  
**Web:** [www.ign.gob.ar](http://www.ign.gob.ar)

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## REPUBLIC OF ARMENIA - REPUBLIQUE D'ARMENIE

### ADHERING ORGANIZATION

National Survey for Seismic Protection, MES RA  
Davidashen 4 massiv  
P.O. 0054  
Yerevan

**Web:** [www.nssp-gov.am](http://www.nssp-gov.am)

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## AUSTRALIA - AUSTRALIE

### ADHERING ORGANIZATION

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

**Contact:** M. DZUNDZA

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

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<b>IASPEI:</b>	I. JACKSON	<b>IAVCEI:</b>	R. CAS		

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Austrian Geodetic Commission  
Bundesministerium für Wissenschaft, Forschung und Wirtschaft  
Abteilung I/11  
Stubenring 1  
1010 Vienna

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**AZERBAIJAN - AZERBAIDJAN****ADHERING ORGANIZATION**

Azerbaijan National Academy of Sciences (ANAS)  
Istiglaliyyat Str., 10  
Baku

**Contact:** G. BABAYEV

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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>

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Academia Nacional de Ciencias de Bolivia  
P.O. Box 11253  
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<b>IASPEI:</b>	E. MINAYA	<b>IAVCEI:</b>			

## BOSNIA & HERZEGOVINA - BOSNIE & HERZEGOVINE

### ADHERING ORGANIZATION

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

### NATIONAL COMMITTEE

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**Vice-President:** N. TUNO

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<b>IASPEI:</b>	I. BRLEK	<b>IAVCEI:</b>			

## BRAZIL - BRESIL

### ADHERING ORGANIZATION

Diretoria de Geociencias  
Instituto Brasileiro de Geografia e Estatistica  
Avenida Brasil 15671, Bloco III-B  
Parada de Lucas, Rio de Janeiro, 21241-051  
**Web:** <http://www.ibge.gov.br>

### NATIONAL COMMITTEE

**Director:** L.P.S. FORTES

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<b>IASPEI:</b>	M. ASSUMPÇÃO	<b>IAVCEI:</b>	R. CONCEIÇÃO		

## BULGARIA - BULGARIE

### ADHERING ORGANIZATION

Bulgarian Academy of Sciences  
bul. 15 Noemvri, 1  
1040 Sofia

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<b>IASPEI:</b>	D. SOLAKOV	<b>IAVCEI:</b>			



## CANADA

### ADHERING ORGANIZATION

National Research Council  
International Relations  
1200 Montreal Road  
Ottawa, ON K1A 0R6

**Contact:** M. CULLINS

### NATIONAL COMMITTEE

**President:** Z. HAJNAL

### National Correspondents of the Associations

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			J.W. KIM		P.J.A. McCAUSLAND
<b>IAHS:</b>	R. PETRONE	<b>IAMAS:</b>	J. GYAKUM	<b>IAPSO:</b>	P. GALBRAITH
	G. ALI		J. DRUMMOND		J. KLYMAK
<b>IASPEI:</b>	D.W. EATON	<b>IAVCEI:</b>	M.D. HIGGINS		
	C. PERRY		B. COUSENS		

## CHILE - CHILI

### ADHERING ORGANIZATION

Instituto Geografico Militar  
Nueva Santa Isabel 1640  
Santiago

**Contacts:** H. MANRIQUEZ, E. HUNT

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

### NATIONAL COMMITTEE

**President:** R. JARA

### National Correspondents of the Associations

<b>IACS:</b>	G. CASASSA	<b>IAG:</b>	L. RIVAS	<b>IAGA:</b>	
<b>IAHS:</b>		<b>IAMAS:</b>	G.N. SCHLOTTERBECK	<b>IAPSO:</b>	P. CARRASCO
<b>IASPEI:</b>	D. COMTE	<b>IAVCEI:</b>	J. A. NARANJO		

## CHINA - CHINE

### ADHERING ORGANIZATION

China Association for Science and Technology (CAST)  
Institute of Atmospheric Physics (IAP)  
Chinese Academy of Sciences (CAS)  
Bldg. 40 Huayanli, Beichenxilu  
Beijing, 100029

**Contact:** J.P. LI

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**President:** G.X. WU

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<b>IAHS:</b>	J.Y. ZHANG	<b>IAMAS:</b>	D.R. LU	<b>IAPSO:</b>	J.P. ZHAO
<b>IASPEI:</b>	Z.F. DING	<b>IAVCEI:</b>	Y.G. XU		

## CHINA - CHINE

### The Academy of Sciences Located in TAIPEI

#### ADHERING ORGANIZATION

Academia Sinica  
128, Academy Road, Sec. 2  
Taipei, Taiwan

#### NATIONAL COMMITTEE

**President:** S.C. LIU                      **Executive Secretary:** B.-S. HUANG

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## 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 Agronomy
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
ION	International Ocean Network
IPGH	Instituto Panamericano de Geografia Historia (also PAIGH)
ISGI	International Service of Geomagnetism 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
UCDI	Union Commission on Data and Information
UNESCO	United Nations Educational, Scientific and Cultural Organization
URSI	Union Radio Scientifique Internationale
WCRP	World Climate Research Programme
WDC	World Data Center
WDS	ICSU World Data System
WMO	World Meteorological Organization