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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, connu aujourd'hui sous le nom de Conseil international pour la science (CIUS). 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 31 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 2011, elle compte 69 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 July 28, 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. 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 31 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 2011, IUGG had 69 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 sont en train d'être 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 are being 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 69 entités adhérentes (Tableau 1). Les entités adhérentes sont répartis dans le monde entier, comme le montre le Tableau 2.

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^e 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 n3 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 qui ont assistés à la XXV Assemblée Générale, en 2011, seront présentés à la page 13.

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 69 Member Adhering Bodies (Table 1). The Members are distributed throughout the world as shown in Table 2.

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 (26th) in Prague, Czech Republic, in 2015. IUGG General Assemblies have been held since 1922. Since 1963, they are held every four years. Table 3 lists the years and locations of IUGG General Assemblies.

During these General Assemblies, policies governing IUGG are adopted, 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 attending the XXV General Assembly in 2011 are listed on page 13.

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 (AISPLIT)
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'UGGI. En 2008, l'AIVCIT a tenu son Assemblée scientifique en Islande. En 2009, les Assemblées scientifiques des Associations ont été tenues comme suit : l'Assemblée de l'AISPIT en Afrique du Sud, la MOCA-09 (l'Assemblée conjointe de l'AISC, l'AIMSA et l' AISPO) au Canada, l'Assemblée de l'AIGA en Hongrie, de l'AIG en Argentine et de l'AISH en Inde. Lors des Assemblées scientifiques, les Associations internationales parrainent des symposiums sur des sujets particuliers, souvent en partenariat.

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

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

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

Commissions de l'Union

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

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

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 2008, IAVCEI held the scientific assembly in Iceland. In 2009, the following scientific assemblies were held: IASPEI in South Africa, MOCA-09, a joint assembly of IACS, IAMAS, and IAPSO in Canada; IAGA in Hungary, IAG in Argentina, and IAHS in India. 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, four Union Commissions 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 four 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

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

(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 ratabli la mission du ILP et ont collaboré pour re-définir l'ILP comme une entité Inter-Union. Des nouveaux Termes de Référence ont été approuvés par les deux Unions.

FINANCES

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

Le revenu de l'Union provient des contributions annuelles des entités adhérentes. Les entités adhérentes ont le choix entre le statut de membre régulier ou de membre associé (ne payant pas de cotisation). Les entités adhérentes peuvent envoyer un délégué aux rencontres quadriennales du Conseil de l'UGGI et voter sur les affaires administratives. Les scientifiques des entités adhérentes peuvent occuper un poste de responsabilité dans les Associations internationales et ils ont un droit de vote lors des séances de travail. Les membres associés ne 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 2011 la valeur d'une unité de cotisation est de 1750 dollars. 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.

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

FINANCES

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

The income of the Union comes from annual contributions of the Members. Member Adhering Bodies can choose to be regular paying Members or Associate (non-paying) Members. Members may send a delegate to quadrennial meetings of the IUGG Council and vote on matters of business. Scientists from regular Members may hold office in the International Associations and vote at their business meetings. Associate Members pay no contributions, have no voting rights, and their scientists may not hold offices. 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 2011 is \$ 1,750. 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 ⁽¹⁾	UNITS ⁽²⁾
ALBANIA	1997-2002, 2003	1	1
ALGERIA	1971-2006		
ARGENTINA	1927	3	3
ARMENIA	2000	1	1
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	1	1
BRAZIL	1922	3	3
BULGARIA	1930	1	1
BURUNDI	1987-1995		
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	1	1
COSTA RICA	2010	A	0
CROATIA	1992	1	1
CUBA	1960-1996		
CZECH REPUBLIC	1993	2	2
DENMARK	1923	4	5
DOMINICAN REP.	1957-1971		
EGYPT	1924	2	2
ESTONIA	1991	1	1
ETHIOPIA	1952-2000		
FINLAND	1927	3	3
FRANCE	1919	7	15
GEORGIA	2009	A	0
GERMANY	1951	8	20
GHANA	1957-1987, 2006	1	1
GREECE	1922-2003; 2008	3	3
GUATEMALA	1957-2000		
GUINEA	1987-1995		
HAITI	1956-1971		
HUNGARY	1930	2	2
ICELAND	1967	1	1
INDIA	1947	6	10
INDONESIA	1951	1	1
IRAN	1957	1	1
IRAQ	1983-1996		
IRELAND	1946	2	2
ISRAEL	1951	1	1
ITALY	1919	6	10
IVORY COAST	1975-1996		
JAPAN	1919	8	20
JORDAN	1979	1	1
KENYA	1975-1997		
KOREA	1960	2	2
KOREA /DEM.REP	1967-2000		
LEBANON	1967-2003		
LIBYA	1979-1996		

Table 1 (continued): Member Adhering Bodies of IUGG

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY ⁽¹⁾	UNITS ⁽²⁾
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	1	1
MONGOLIA	1995-2001		
MOROCCO	1924	1	1
MOZAMBIQUE	1983	1	1
MYANMAR (BURMA)	1957-2003		
NEPAL	1975-1987		
THE NETHERLANDS	1925	4	5
NEW ZEALAND	1927	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		
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	13
Europe	36
North and Central America	4
Oceania	2
South America	6

Table 3: 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 Ansoerge	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 Retiring President of the Union, Tom Beer (AUSTRALIA)
- the Presidents of the International Associations:

<i>IACS:</i>	Ian Allison	AUSTRALIA
<i>IAG:</i>	Chris Rizos	AUSTRALIA
<i>IAGA:</i>	Kathy Whaler	UK
<i>IAHS:</i>	Gordon Young	CANADA
<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:

Karlsruhe Institute of Technology
Geophysical Institute
Hertzstr. 16, 76187 Karlsruhe

Assistant Secretary General: Simone Oswald GERMANY

The Assistant Secretary General of IUGG is a not 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>World Meteorological Organization (WMO):</i>	Arthur Askew	SWITZERLAND
	Hans Volkert	GERMANY
	Arnau Folch	SPAIN
<i>United Nations Educational, Scientific and Cultural Organization (UNESCO):</i>		
<i>International Hydrological Programme (IHP):</i>	Pierre Hubert	FRANCE
<i>Intergovernmental Oceanographic Commission (IOC):</i>	Stefania Sparnocchia	ITALY

IUGG Representatives on ICSU Committees and ICSU Regional Offices

<i>Committee on Data for Science and Technology (CODATA):</i>		
	Mark Parsons	USA
	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
<i>World Data System (WDS):</i>		
	Ruth E. Neilan	USA
<i>Regional Office for Africa (ROA):</i>		
	Isabelle Ansorge	SOUTH AFRICA
	Ali Tealeb	EGYPT
<i>Regional Office for Asia & the Pacific (ROAP):</i>		
	Sri Widiantoro	INDONESIA
	Sukanta Roy	INDIA
<i>Regional Office for Latin America and Caribbean (ROLAC):</i>		
	Jaime U. Fucugauchi	MEXICO

IUGG Representatives on Other Bodies*Consultative Committee for Time and Frequency (CCTF):*

Claude Boucher FRANCE

International Civil Aviation Organization (ICAO):

William I. Rose USA

Marianne Guffanti USA

Pan-American Institute of Geography and History (PAIGH):

Hermann Drewes GERMANY

ACCREDITED DELEGATES TO THE COUNCIL OF THE IUGG*25th General Assembly, Melbourne, AUSTRALIA, 28 June – 7 July 2011. Listeners (from Associate Member Countries) are indicated by italics.*

C. Risso (ARGENTINA), B. Kennett (AUSTRALIA), I. Jackson (AUSTRALIA), N. Höggerl (AUSTRIA), G. Babayev (AZERBAIJAN), J. De Keyser (BELGIUM), M. Assumpção (BRAZIL), A. Larocca (BRAZIL), Z. Hajnal (CANADA), R. Maturana Nadal (CHILE), J.P. Li (CHINA), S.C. Liu (CHINA-TAIPEI), L. Sanchez (COLOMBIA), *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), Kristin Vogfjörð (ICELAND), V.M. Tiwari (INDIA), J. Gamble (IRELAND), Z. Levin (ISRAEL), G. Panza (ITALY), S. Imawaki (JAPAN), D.-J. Kim (KOREA), T. van Dam (LUXEMBOURG), C. Popovska (F.Y.R. MACEDONIA), H. Böhnelt (MEXICO), 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. Ansoorge (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	Sydney 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 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. Doporto (Ireland)
1967-1971	Tauno J. Kukkamäki (Finland)
1971-1975	James M. Stagg (UK)
1975-1979	Charles A. Whitten (USA)
1979-1983	H.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. Doporto (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 Data and Information (UCDI):

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
	Anatoly Soloviev	RUSSIA
	Satheesh Sheno	INDIA

Union Commission on Geophysical Risk and Sustainability (GRC):

www.iugg-georisk.org

<i>Chair:</i>	Kuniyoshi Takeuchi	JAPAN
<i>Vice-Chairs:</i>	David D. Jackson	USA
	Volodya Kossobokov	RUSSIA
<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
	John Labrecque	USA
	Joan Martí	SPAIN
	Alan Thomson	UK
	Harsh Gupta	INDIA
	Viacheslav Gusiakov	RUSSIA
	Gordon McBean	CANADA
	Uri Shamir	ISRAEL
		Tom Beer
<i>Honorary Members:</i>		GERMANY
		Alik Ismail-Zadeh

Union Commission on Mathematical Geophysics (CMG):

<i>Chair:</i>	Yehuda Ben-Zion	USA	
<i>Secretary:</i>	Claudia Pasquero	ITALY	
<i>Vice-Chairs:</i>	Einat Aharonov	ISRAEL	
	Eli Tziperman	USA	
<i>Past Chair:</i>	Dan Rothman	USA	
<i>Executive Committee Members:</i>	Ralf Greve	JAPAN	
	Shin-chan Han	USA	
	Matthias Holschneider	GERMANY	
	Augusto Neri	ITALY	
	Dick Peltier	CANADA	
	Malcolm Sambridge	AUSTRALIA	
	Daniel Schertzer	FRANCE	
	Gordon Swaters	USA	
		Ilya Zaliapin	USA

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

www.sedigroup.org

<i>Chair:</i>	Satoru Tanaka	JAPAN	
<i>Vice-Chair:</i>	Jonathan Aurnou	USA	
<i>Secretary:</i>	Mike Bergman	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	
	Catherine Constable	USA	
		Véronique Dehant	BELGIUM

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
Gauthier Hulot	FRANCE
Dominique Jault	SWITZERLAND
Catherine Johnson	CANADA
Chris Jones	UK
Shun-Ichiro Karato	USA
Louise Kellogg	USA
Brian L.N. Kennett	AUSTRALIA
Masaru Kono	JAPAN
Kei Kurita	JAPAN
Thorne Lay	USA
David Loper	USA
Guy Masters	USA
Barbara Romanowicz	USA
Paul Tackley	SWITZERLAND
Lev P. Vinnik	RUSSIA

Inter-Unions Commission

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

www.scl-ilp.org

<i>President:</i>	Sierd Cloetingh	THE NETHERLANDS
<i>Secretary General:</i>	Roland Oberhänsli	GERMANY
<i>Executive Secretary:</i>	Alexander Rudloff	GERMANY
<i>Bureau Members (Executive):</i>	IUGG: David Jackson	USA
	IUGG: Kalachand C. Sain	INDIA
	IUGS: Yoshiyuki Tatsumi	JAPAN
	IUGS: Jacques Charvet	FRANCE
	IUGS and IUGG: Alan Green	SWITZERLAND
<i>(Associated):</i>	Jean-Pierre Burg	SWITZERLAND
	Robert Missotten	FRANCE
	Andrey F. Morozov	RUSSIA
	François Roure	FRANCE
	Hans Thybo	
<i>(Lifetime):</i>	Mark D. Zoback	USA
	Harsh Gupta	INDIA
	Mary von Knorring	SWEDEN
	Peter Ziegler	SWITZERLAND
<i>Past President (ex officio):</i>	Asahiko Taira	JAPAN
<i>Past Secretary General:</i>	Jörg F.W. Negendank	GERMANY
<i>Chair of National Members:</i>	Victoria L. Pease	SWEDEN

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
	José Sellés Martínez	ARGENTINA
	Gerhard Navratil	AUSTRIA
	Kathy Whaler	UK

Committee on Membership Issues

<i>Chair:</i>	Aksel W. Hansen	DENMARK
<i>Members:</i>	Silvia Blanc	ARGENTINA
	Thirumalachetty Harinarayana	INDIA
	Jiaqi Liu	CHINA
	Fred Spilhaus	USA
	Ali Tealeb	EGYPT

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>	Eigil Friis-Christensen	DENMARK
<i>Members:</i>	Tom Beer	AUSTRALIA
	Zhengfu Guo	CHINA
	Alexei Gvishiani	RUSSIA

Nominating Committee

<i>Chair:</i>	Masaru Kono	JAPAN
<i>Members:</i>	Gerhard Beutler	SWITZERLAND
	Marta Calvache	COLOMBIA
	Vladimir Cermak	CZECH REPUBLIC
	Corina Risso (alternate)	ARGENTINA

Site Evaluation Committee

<i>Chair:</i>	Kiyoshi Suyehiro	JAPAN
<i>Members:</i>	Peter Suhadolc	ITALY
	Tom Beer (ex-officio)	AUSTRALIA
	Alik Ismail-Zadeh (ex-officio)	GERMANY/RUSSIA

Statutes and ByLaws Committee

<i>Chair:</i>	David J. Kerridge	UK
<i>Members:</i>	Jean-Pierre Barriot	FRANCE
	Bob Engdahl	USA
	Priscilla Grew	USA
	Ronald Stewart	CANADA

Resolution Committee

<i>Chair:</i>	Uri Shamir	ISRAEL
<i>Members:</i>	József Adam	HUNGARY
	Pierre Hubert	FRANCE
	Georg Kaser	AUSTRIA

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 4.

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 (IASPIT)
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)

Table 4: 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 4 (continued): Scientific Assemblies of the International Associations

International Association	Year	Meeting Location	Number of Participants
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

* With International Association for Biological Oceanography (IABO)

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

<http://www.cryosphericciences.org>

On July 4, 2007, at the XXIVth IUGG General Assembly in Perugia, Italy, the IUGG Council decided to launch the International Association of Cryospheric Sciences (IACS) as the 8th 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 2011-2015

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

IACS HEADS OF DIVISIONS 2011-2015

Division I – Snow and Avalanches:

Ethan Greene USA

Division II – Continental Glaciers and Ice Sheets:

Cecilie Rostad Denby NORWAY

Division III – Marine and Freshwater Ice:

Hiroyuki Enomoto JAPAN

Division IV – Cryosphere, Atmosphere and Climate:

Valérie Masson Delmotte FRANCE

Division V – Planetary and other Ices of the Solar System:

Ralf Greve JAPAN

PAST IACS PRESIDENTS

2007-2009 Georg Kaser (Austria)

PAST IACS SECRETARIES GENERAL

2007-2011 Manfred Lange (Germany)

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	AUSTRIA
<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 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 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	
	Klaus-Peter Schwarz	CANADA	
	Fernando Sansó	ITALY	
	Gerhard Beutler	SWITZERLAND	
	<i>Past Secretaries General:</i>	Michel Louis	FRANCE
		Claude Boucher	FRANCE
		Christian C. Tscherning	DENMARK

IAG COMMISSIONS

Commission 1: Reference Frames

President: Tonie van Dam LUXEMBOURG
Vice-President Gary Johnston AUSTRALIA

Commission 2: Gravity Field

President: Urs Marti SWITZERLAND
Vice-President Srinivas Bettadpur USA

Commission 3: Earth Rotation and Geodynamics

President: Richard Gross USA
Vice-President: Aleksander Brzezinski POLAND

Commission 4: Positioning and Applications

President: Dorota Greiner-Brzezinska USA
Vice-President: Allison Kealy AUSTRALIA

IAG SERVICES

Bureau Gravimetric International (BGI):

Director: Sylvain Bonvalot FRANCE

Bureau International de Poids et Mesures (BIPM), Time Department:

Director of Department: Elisa Felicitas Arias FRANCE

IAG Bibliography Service (IBS):

Chair: Annekathrin Michlenz GERMANY

International Altimetry Service (IAS):

Chair: Wolfgang Bosch GERMANY

International Centre for Earth Tides (ICET):

Director: Jean-Pierre Barriot FRANCE

International Centre for Global Earth Models (ICGEM):

Director: Franz Barthelmes GERMANY

International Digital Elevation Model Service (IDEMS):

Director: Philippa Berry UK

International DORIS Service (IDS):

Chair: Pascal Willis FRANCE

International Earth Rotation and Reference Systems Service (IERS):

Chair of Directing Board: Chopo Ma USA
Director of Central Bureau: Bernd Richter GERMANY

International Geoid Service (IGeS):

President/Director: Riccardo Barzaghi ITALY

International Gravity Field Service (IGFS):

Chair: Rene Forsberg DENMARK
Director of Central Bureau: Iginio Marson ITALY
Executive Secretary of CB: Franco Coren ITALY

International GNSS Service (IGS):

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

International Laser Ranging Service (ILRS):

<i>Chair of Governing Board:</i>	Graham Appleby	UK
<i>Director of Central Bureau:</i>	Michael Pearlman	USA
<i>Secretary:</i>	Carey Noll	USA

International Service for Geodesy and Astrometry (IVS):

<i>Chair of Directing Board:</i>	Harald Schuh	AUSTRIA
<i>Director of Coord. Centre:</i>	Dirk Behrend	USA

Permanent Service for Mean Sea Level (PSMSL):

<i>Director:</i>	Lesley J. Rickards	UK
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IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)

<i>Chair:</i>	Hansjörg Kutterer	GERMANY
<i>Vice-Chair:</i>	Ruth Neilan	USA

IAG INTER-COMMISSION COMMITTEE ON THEORY (ICCT)

<i>President:</i>	Nico Sneeuw	GERMANY
<i>Vice-President:</i>	Pavel Novák	CZECH REPUBLIC

IAG OFFICE**Deutsches Geodätisches Forschungsinstitut (DGFI)**

<i>Secretary General:</i>	Hermann Drewes	GERMANY
<i>Assistant Secretary:</i>	Helmut Hornik	GERMANY

IAG COMMUNICATION AND OUTREACH BRANCH**Hungarian Academy of Sciences (HAS) / Budapest University of Technology and Economics (BUTE)**

<i>President:</i>	József Ádám	HUNGARY
<i>Secretary:</i>	Szabolcs Rózsa	HUNGARY

JOURNAL OF GEODESY

<i>Editor in Chief:</i>	Roland Klees	THE NETHERLANDS
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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	G. 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-Bakhuysen (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	Christian C. 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
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	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-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 (with Division III)

Chair: Mervyn Freeman UK
Co-Chair: Alan T. Weatherwax USA

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

IAGA Chair: Craig J. Rodger NEW ZEALAND
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 Kotze 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 SWITZERLAND
Co-Chair: Erwan Thebault FRANCE

IAGA Inter-divisional Commissions**Inter-divisional Commission on Developing Countries**

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

Inter-divisional Commission on History

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

Working Group on the History of Science

Chair: Ahmed Abdel Hady EGYPT
Co-chair: Christine Amory-Mazaudier FRANCE

Inter-divisional Working Group on Education and Outreach

Chair: Larry Newitt CANADA

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

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

<i>Chair:</i>	Jacques Zlotnicki	FRANCE
<i>Vice-Chair:</i>	Malcolm Johnston	USA
<i>Secretary:</i>	Toshiyasu Nagao	JAPAN
<i>Past Chair:</i>	Seiya Uyeda	JAPAN
<i>IAGA Liaison:</i>	Jann-Yenq Liu	TAIWAN
<i>IAGA WG I-2 Liaison:</i>	Tirumalachetty Harinarayana	INDIA

IASPEI/IAPSO/IAGA International Ocean Network (ION)

<i>Chair:</i>	Yoshiyuki Kaneda	JAPAN
<i>IAGA Liaison:</i>	Hisashi Utada	JAPAN

PAST IAGA PRESIDENTS

1919-1922	A. Tanakadate (Japan)
1922-1927	C. Chree (UK)
1927-1930	L.A. Bauer (USA)
1930-1948	J.A. Fleming (USA)
1948-1951	S. Chapman (UK)
1951-1954	J. Coulomb (France)
1954-1957	J. Bartels (F.R. Germany)
1957-1960	J. Kaplan (USA)
1960-1963	V. Laursen (Denmark)
1963-1967	M. Nicolet (Belgium)
1967-1971	T. Nagata (Japan)
1971-1975	V.A. Troitskaya (USSR)
1975-1979	J. Roederer (USA)
1979-1983	K.D. Cole (Australia)
1983-1987	D.I. Gough (Canada)
1987-1991	R.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	L.A. Bauer (USA)
1927-1933	Ch. Maurain (France)
1933-1936	M.D. La Cour (Denmark)
1936-1939	A.H.R. Goldie (UK)
1939-1951	J.W. Joyce (USA)
1951-1957	V. Laursen (Denmark)
1957-1963	J.O. Cardus (Spain)
1963-1975	L. Alldredge (USA)
1975-1983	N. Fukushima (Japan)
1983-1995	M. Gadsden (UK)
1995-1999	JoAnn Joselyn (USA)
1999-2001	H.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, 2011-2013

<i>President:</i>	Gordon Young	CANADA
<i>President Elect:</i>	Hubert Savenije	THE NETHERLANDS
<i>Vice-Presidents:</i>	Denis Hughes	SOUTH AFRICA
	Liliang Ren	CHINA
	Thorsten Wagener	USA
<i>Secretary General:</i>	Christophe Cudennec	FRANCE
<i>Treasurer:</i>	Chuck Onstad	USA
<i>Editors:</i>	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>	Valentin Golosov	RUSSIA
<i>President Elect:</i>	Michael Stone	CANADA
<i>Vice-Presidents:</i>	Kazimierz Banasik	POLAND
	Adrian Collins	UK
	Xinbao Zhang	CHINA
<i>Secretary:</i>	Paolo Porto	ITALY

International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

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

International Commission on Groundwater (ICGW)

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

International Commission on Remote Sensing (ICRS)

<i>President:</i>	Ian Cluckie	UK
<i>President Elect:</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

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)

President: John Pomeroy CANADA
President Elect: Danny Marks USA
Vice-Presidents: Alexander Gelfan RUSSIA
 Tesuya Hiyama JAPAN
 Tobias Jonas SWITZERLAND
Secretary: Regine Hock SWEDEN

International Commission on Surface Water (ICSW)

President: Eric Servat FRANCE
President Elect: Hafzullah Aksoy TURKEY
Vice-Presidents: Walter Collischonn BRAZIL
 David Hannah UK
 Hege Hisdal NORWAY
Secretary: Yan Huang CHINA

International Commission on Tracers (ICT)

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

International Commission on Water Quality (ICWQ)

President: Valentina Krysanova GERMANY
President Elect: Berit Arheimer SWEDEN
Vice-Presidents: Lakshmanan Elango INDIA
 Kate Heal UK
 Per Stålnacke NORWAY
Secretary: Wouter Buytaert UK

International Commission on Water Resources Systems (ICWRS)

President: Gunter Blöschl AUSTRIA
President Elect: Alberto Montanari ITALY
Vice-Presidents: George Kuczera AUSTRALIA
 Andreas Schumann GERMANY
 Zongxue Xu CHINA
Secretary: Nick van de Giesen THE NETHERLANDS

IAHS WORKING GROUPS

Prediction in Ungauged Basins (PUB)

Chair: Hubert Savenije THE NETHERLANDS

Education

Chair: Thorsten Wagener USA

Precipitation

Chair: Daniel Schertzer FRANCE

Panel on Hydroinformatics

Members: Dragan Savic UK
 Ian D. Cluckie UK
 Siegfried Demuth GERMANY

PAST IAHS PRESIDENTS

1922-1933	E. Wade (UK)
1933-1936	Jan Smetana (Czechoslovakia)
1936-1947	O. Lütschg (Switzerland)
1947-1948	Gustaf Slettenmark (Sweden)
1948-1951	Merrill Bernard (USA)
1951-1957	Johannes T. Thijsse (The Netherlands)
1957-1960	H.G. Wilm (USA)
1960-1963	W. Friedrich (F.R. Germany)
1963-1967	Adriaan Volker (The Netherlands)
1967-1970	Károly Szeztay (Hungary)
1970-1971	W.C. Ackermann (USA)
1971-1975	Jean Rodier (France)
1975-1979	J.C.I. Dooge (Ireland)
1979-1983	M.F. Meier (USA)
1983-1987	György Kovacs (Hungary)
1987-1991	Vit Klemes (Canada)
1991-1995	Uri Shamir (Israël)
1995-2001	John C. Rodda (UK)
2001-2005	Kuniyoshi Takeuchi (Japan)
2005-2009	Arthur Askew (Australia)

PAST IAHS SECRETARIES GENERAL

1922-1933	G. Magrini (Italy)
1933-1947	F. Diénert (France)
1947-1948	A. 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/>

At the first IUGG General Assembly (Rome, 1922), 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>	Athéna 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>	Ernest 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>	Zev Levin	ISRAEL
<i>Vice-President:</i>	Andrea Flossmann	FRANCE
<i>Secretary:</i>	David O'C Starr	USA

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://www.iamas.org/IAMAS-old/ICDM/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 (IO₃C)<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>	Mathieu Hirtzig	FRANCE / PORTUGAL

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>	Robert Cahalan	USA
<i>Vice-President:</i>	Werner Schmutz	SWITZERLAND
<i>Secretary:</i>	Byung-Ju Sohn	KOREA

PAST IAMAS PRESIDENTS

1919-1930	W. 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://www.IUGG.org/IAPSO>

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 2007 – 2011

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

IAPSO COMMISSIONS

Mean Sea-Level & Tides

<i>Director:</i>	Philip L. Woodworth	UK
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JOINT COMMISSIONS

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<i>Chair:</i>	Vasily V. Titov	USA
<i>Secretary:</i>	Paula Dunbar	USA
<i>IAPSO Liaison:</i>	Alexander (Sasha) Rabinovich	RUSSIA

SCOR/ IAPSO Working Group 127 on Thermodynamics and Equation of State of Seawater

<i>Chair:</i>	Trevor McDougall	AUSTRALIA
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SCOR/ IAPSO Working Group 129 on Deep Ocean Exchanges with the Shelf

<i>Chair:</i>	John Johnson	UK
<i>Vice-Chair:</i>	Piers Chapman	USA

SCOR/ IAPSO Working Group 133 on OceanScope

<i>Co-Chairs:</i>	Thomas Rossby	USA
	Kuh Kim	KOREA

SCOR/ WCRP/ IAPSO Working Group 136 on the Climatic Importance of the Greater Agulhas Current System

<i>Chairs:</i>	Lisa Beal	USA
	Arne Biastoch	GERMANY

IASPEI/IAPSO/IAGA International Ocean Network (ION)

<i>Chair:</i>	Yoshiyuki Kaneda	JAPAN
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IASPEI/IAVCEI/IAPSO International Heat Flow Commission (IHFC)

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

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

<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 ^{er} (Monaco)
1924-1930	Odon de Buen (Spain)
1930-1936	M. Knudsen (Denmark)
1936-1946	B. Helland-Hansen (Norway)
1946-1951	H.U. Sverdrup (Norway)
1951-1954	J. Proudman (UK)
1954-1960	H. Mosby (Norway)
1960-1963	G.E.R. Deacon (UK)
1963-1967	R. Revelle (USA)
1967-1970	G. Dietrich (F.R. Germany)
1970-1975	H. Lacombe (France)
1975-1979	R.W. Stewart (Canada)
1979-1983	Devendra Lal (India)
1983-1987	W.M. Krauss (F.R. Germany)
1987-1991	J.-J. O'Brien (USA)
1991-1996	R.D. Muench (USA)
1996-1999	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	G. Magrini (Italy)
1930-1948	J. Proudman (UK)
1948-1951	H. Mosby (Norway)
1951-1954	R.H. Fleming (USA)
1957-1963	B. Kullenberg (Sweden)
1963-1967	I. Hela (Finland)
1967-1970	A.E. Maxwell (USA)
1970-1987	E.C. LaFond (USA)
1987-1995	R.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 (AISPIT)

<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'AISPIT*, 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

IASPEI EXECUTIVE COMMITTEE 2011 – 2015

<i>Members:</i>	Marcelo Assumpção	BRAZIL
	Kenji Satake	JAPAN
	Michelle Grobbelaar	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
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Task Group on World Stress Map Project

<i>Chair:</i>	Oliver Heidbach	GERMANY
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Task Group on Seismic Imaging of the Lithosphere

<i>Chair:</i>	Walter D. Mooney	USA
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Task Group on Active Monitoring

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

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

<i>Chair:</i>	Mohsen Ghafory-Ashtiany	IRAN
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IASPEI/IAEE Joint Working Group on Effects of Surface Geology

<i>Chair:</i>	Hiroshi Kawase	JAPAN
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Working Group on Earthquake Loss Estimates, Real-Time and Scenario Mode Worldwide

<i>Chair:</i>	Max Wyss	SWITZERLAND
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Working Group on Earthquake Predictability

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

Commission on Earth Structure & Geodynamics

<i>Co-Chairs:</i>	Greg Houseman	UK
	Thorne Lay	USA

Working Group on Reference Earth Models

<i>Chair:</i>	Gabi Laske	USA
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Commission on Seismological Observation & Interpretation (CoSOI)

<i>Chair:</i>	Dmitry A. Storchak	UK
<i>Secretary:</i>	Peter Bormann	GERMANY

Working Group on Magnitude Measurements

<i>Co-Chairs:</i>	James W. Dewey	USA
	Peter Bormann	GERMANY

Working Group on Triggered and Induced Seismicity

<i>Chair:</i>	Stanislaw Lasocki	POLAND
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Working Group on Updating Manual of Seismological Observatory Practice

<i>Chair:</i>	Peter Bormann	GERMANY
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Working Group on Historical Seismology

<i>Co-Chairs:</i>	Paola Albini	ITALY
	Katsuhiko Ishibashi	JAPAN

Working Group on Reporting Seismic Phase Weights

<i>Chair:</i>	Lars Ottemöller	UK
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Working Group on Default Depths

<i>Chair:</i>	Maiclaire Bolton	CANADA
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Task Group on Definition of Authoritative Locations

<i>Chair:</i>	Remy Bossu	FRANCE
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Task Group on Scattering & Heterogeneity

<i>Chair:</i>	Michael Korn	GERMANY
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Commission on Earthquake Sources – Modelling and Monitoring for Prediction

<i>Chair:</i>	Alexey Zavyalov	RUSSIA
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Commission on Education & Outreach

<i>Co-Chairs:</i>	Matthias Ohrnberger	GERMANY
	John Taber	USA

Federation of Digital Broadband Seismograph Network (FDSN)

<i>Chair:</i>	Gerardo Suarez	MEXICO
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European Seismological Commission (ESC)

<i>President:</i>	Steinuun Jakobsdottir	ICELAND
<i>Vice-President:</i>	Alexey Zavyalov	RUSSIA
<i>Secretary General:</i>	Mariano Garcia Fernandez	SPAIN
<i>Assistant Secretary:</i>	Ina Cecić	SLOVENIA

Asian Seismological Commission (ASC)

<i>President:</i>	Kazuro Hirahara	JAPAN
<i>First Vice-President:</i>	Trieu Dinh Cao	VIETNAM
<i>Second Vice-President:</i>	Sumalee Prachuab	THAILAND
<i>Secretary General:</i>	Rajenda Kumar Chadha	INDIA

Commission on Earth Sciences in Africa (ICESA)

Chair: Atalay Ayele ETHIOPIA
Vice-Chair: Michelle Grobbelaar SOUTH AFRICA
Secretary General: Vunganai Midzi SOUTH AFRICA

INTER-ASSOCIATION ACTIVITIES

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

Chair: Yuri Popov RUSSIA
Vice-Chairs: Shaopeng Huang CHINA / USA
Past Chair: Christoph Clauser GERMANY
Secretary: Sukanta Roy INDIA
Vice-Secretary: Heiner Villinger GERMANY

IASPEI/IAVCEI Commission on Physics & Chemistry of Earth Materials

Chair: Ian Jackson AUSTRALIA
Secretary: Sharon L. Webb GERMANY

IASPEI/IAVCEI/IAG Commission on Volcano Seismologys

IASPEI Representative: Jürgen Neuberg UK
Co-Chair: Hiroyuki Kumagai JAPAN

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

Chair: Raymond P. Maximo USA
Vice-Chair: Jorge E. Clavero CHILE

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

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

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

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

Chair: Vasily V. Titov USA
Secretary: Paula Dunbar USA

IASPEI/IAPSO/IAGA International Ocean Network (ION)

Chair: Yoshiyuki Kaneda JAPAN

IASPEI REPRESENTATIVES TO OTHER GROUPS

IAU/IUGG Working Group on Non-Rigid Earth Nutations

Representative: Bruce A. Buffett USA

ISC Executive Committee

Representative: Oleg Y. Starovoit RUSSIA

IUGG Committee on Mathematical Geophysics

Representative: Malcolm Sambridge AUSTRALIA

IUGG GeoRisk Commission

Representative: David Jackson USA

IAGA/IASPEI Working Group on the Re-Use of Submarine Telephone Cables

Representative: Hisashi Utada JAPAN

SCAR (Solid Earth Geophysical Working Group)

Representative: Saurabh K. Verma INDIA

PAST IASPEI PRESIDENTS

1907	L. Palazzo (Italy)
1907-1911	A. Schuster (UK)
1911-1916	B. Galitzin (Russia)
1916-1922	G. Lecointe (Belgium)
1922-1930	H.H. Turner (UK)
1930-1936	E. Oddone (Italy)
1936-1940	N.H. Heck (USA)
1940-1951	R. Stoneley (UK)
1951-1954	B. Gutenberg (USA)
1954-1957	K.E. Bullen (Australia)
1957-1960	H. Jeffreys (UK)
1960-1963	P. Byerly (USA)
1963-1967	J. Hodgson (Canada)
1967-1971	K. Wadati (Japan)
1971-1975	V.A. Magnitsky (USSR)
1975-1979	H. Berckhemer (F.R. Germany)
1979-1983	B.A. Bolt (USA)
1983-1987	Z. Suzuki (Japan)
1987-1991	St. Müller (Switzerland)
1991-1995	A.V. Nikolaev (Russia)
1995-1999	C. 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	R. de Kovesligethy (Hungary)
1922-1942	E. Rothé (France)
1942-1971	J.P. Rothé (France)
1971-1979	J.C. de Bremaecker (USA)
1979-1991	R.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).

IAVCEI BUREAU

<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 & Membership Secretariat:</i>	Adelina Geyer	SPAIN

IAVCEI COMMISSIONS

Commission on Large Igneous Provinces

<i>Co-Leaders:</i>	Richard E. Ernst	CANADA
	Ian H. Campbell	AUSTRALIA

Commission on the Chemistry of Volcanic Gases

<i>Leader:</i>	Yuri Taran	MEXICO
<i>Secretary:</i>	Nicole Bobrowski	GERMANY
<i>Newsletter Editor:</i>	Felipe Aguilera	CHILE

Commission on Volcanic Lakes

<i>Leader:</i>	Dimitry Rouwed	USA
<i>Secretary:</i>	Takeshi Ohba	JAPAN
<i>Webmaster:</i>	Alain Bernard	BELGIUM

Commission on Explosive Volcanism

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

Commission on Volcanogenic Sedimentation

<i>Co-Leaders:</i>	Karoly Nemeth	NEW ZEALAND
	Ulrike Martin	GERMANY
<i>Newsletter Editor:</i>	Vern Manville	NEW ZEALAND

Commission on Tephra Hazard Modelling

<i>Co-Leader:</i>	Arnau Folch	SPAIN
<i>Secretary:</i>	Raffaello Cioni	ITALY

IASPEI/IAVCEI/IAG Committee on Volcano Seismology

<i>Chair:</i>	Jürgen Neuberg	UK
<i>Co-Chair:</i>	Hiroyuki Kumagai	JAPAN

World Organization of Volcano Observatories

<i>Co-Chairs:</i>	Susana Falsaperla	ITALY
	Gill Jolly	USA
	Peter Webley	USA

Committee on Cities on Volcanoes

<i>Leader:</i>	David Johnston	NEW ZEALAND
<i>Secretary:</i>	Graham Leonard	NEW ZEALAND

Commission on Arc Magmatism

<i>Leader:</i>	Mike Dungan	SWITZERLAND
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Commission on Kimberlites

<i>Co-Leaders:</i>	Roger Mitchell	CANADA
	Barbara Scott-Smith	CANADA

Commission on Statistics in Volcanology

<i>Leader:</i>	Mark Bebbington	NEW ZEALAND
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Commission on Volcano-Ice Interaction

<i>Co-Leaders:</i>	Christian Huggel	SWITZERLAND
	Hugh Tuffen	UK

Commission on Collapse Calderas

<i>Co-Leaders:</i>	Adelina Geyer	SPAIN
	Valerio Acocella	ITALY

Commission on Monogenetic Volcanism

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

IASPEI /IAVCEI /IAPSO International Heat Flow Commission

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

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<i>Chair:</i>	Vasily V. Titov	USA
<i>Secretary:</i>	Paula Dunbar	USA
<i>IAVCEI Representative:</i>	Yuichi Nishimura	JAPAN

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

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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 2011.

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AGU	American Geophysical Union
BGI	International Gravimetric Bureau
BIPM	Bureau International des Poids et Mesures
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