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# I. UNION GÉODÉSIQUE ET GÉOPHYSIQUE INTERNATIONALE (U.G.G.I.)

## HISTORIQUE

L'Union Géodésique et Géophysique Internationale (U.G.G.I.) est un organisme international non gouvernemental à but non lucratif fondé à Bruxelles le 28 juillet 1919. L'U.G.G.I. 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'U.G.G.I. 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 (C.I.U.S.). Le C.I.U.S. 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'U.G.G.I., l'une des 26 Unions scientifiques actuellement réunies dans le C.I.U.S., 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'U.G.G.I. 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'U.G.G.I. comptait 31 pays membres. En 2002, elle en compte 66.

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 » a été remplacé par celui d'« Association » lors de la cinquième Assemblée générale tenue à Lisbonne, en 1933.

Les langues officielles de l'U.G.G.I. sont l'anglais et le français.

# **I. INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS (I.U.G.G.)**

## **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 26 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 2002, IUGG had 66 member countries.

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 official languages of IUGG are English and French.

## **OBJECTIFS ET ACTIVITÉS DE L'U.G.G.I.**

L'U.G.G.I. 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'U.G.G.I. 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'U.G.G.I. 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 (1964-1970), le Projet géodynamique (1972-1979), le Programme international de recherche atmosphérique (1967-1980), le Programme international d'étude de la lithosphère (1981-), le Programme mondial de recherches climatiques, le Programme Géosphère-Biosphère et la Décennie internationale de prévention des catastrophes naturelles. Ces programmes ont servi de modèle de coopération internationale et interdisciplinaire. L'une des contributions majeures de l'U.G.G.I. a été la création, par l'entremise du C.I.U.S., du système de la Banque de données mondiale, qui a fourni aux chercheurs du monde entier l'information recueillie dans le cadre de ces grands programmes et de la mettre à la disposition des chercheurs du monde entier.

### **Recherche internationale en coopération**

L'U.G.G.I. collabore avec U.N.E.S.C.O. à l'étude des catastrophes naturelles. 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 (par exemple, Géodésie en Afrique, Ressources hydrauliques, etc.). L'U.G.G.I. co-parraine également la Fédération des Services d'analyse des données astronomiques et géodésiques (FAGS). Elle est un partenaire d'autres Unions du CIUS, par le biais des Commissions inter-unions.

## **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 Geodynamics Project (1972-79), the Global Atmospheric Research Programme (1967-80), the International Lithosphere Programme (1981- ), the World Climate Research Programme, the Geosphere- Biosphere Programme and the International Decade for Natural Disaster Reduction. These programmes have set a model for international, interdisciplinary co-operation. One major contribution has been the creation, through ICSU, of the World Data Centre system, from which the data gathered during these major programmes are available to research workers everywhere.

### **Worldwide Co-operative Research**

IUGG co-operates with UNESCO in the study of natural catastrophes. It also gives particular emphasis to the scientific problems of Developing Countries by sponsoring activities relevant to the scientific needs of the Third World (e.g. Geodesy in Africa, Water Resources, etc.). IUGG also co-sponsors the Federation of Astronomical and Geophysical Data Analysis Services (FAGS) and is a partner with other Unions of ICSU in inter-Union Commissions.

## **STRUCTURE**

De par leur nature même, les études géodésiques et géophysiques requièrent une importante coopération internationale, de même qu'une coordination efficace. L'U.G.G.I., heureusement, compte 64 pays membres (Tableau 1). Les pays membres sont répartis dans le monde entier, comme le montre le Tableau 2.

### **Comités nationaux**

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

### **Assemblées générales**

Les Assemblées générales de l'U.G.G.I. ont lieu tous les quatre ans et elles utilisent la numérotation romaine. La prochaine Assemblée générale de l'U.G.G.I. sera la XXIII<sup>e</sup> (23<sup>e</sup>). Elle se tiendra à Sapporo, au Japon, en 2003. L'U.G.G.I. tient des Assemblées Générales depuis 1922. Depuis 1963, elles ont lieu tous les quatre ans. Le Tableau n 3 indique les années et les localisations des Assemblées générales de l'U.G.G.I.

Au cours de ces Assemblées générales, on adopte les politiques régissant l'U.G.G.I. 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'U.G.G.I.**

L'U.G.G.I. est dirigée par le Conseil de l'U.G.G.I., lequel est régi par les statuts et le règlement intérieur de l'Union. Le Conseil de l'U.G.G.I. est composé des délégués accrédités des pays membres. Le Conseil de l'U.G.G.I. se réunit lors de l'Assemblée Générale de l'U.G.G.I., où il est procédé à l'élection des membres du Bureau de l'U.G.G.I. et du Comité des finances de l'U.G.G.I.. Les membres du Conseil de l'U.G.G.I. qui ont assistés à la XXII<sup>e</sup> Assemblée Générale, en 1999, seront présentés ci-dessous.

Le Bureau de l'U.G.G.I. 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. Les membres du Bureau doivent provenir de pays membres dont les cotisations sont à jour.



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

### **National Committees**

The great majority of Member Countries 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 and are numbered with Roman numerals. The next IUGG General Assembly will be number XXIII (23<sup>rd</sup>) in Sapporo, Japan, in 2003. 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 Member Country. 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 22<sup>nd</sup> General Assembly in 1999 are listed below.

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. Bureau members must represent countries with dues paid in full.

Le Comité directeur de l'U.G.G.I. 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'U.G.G.I., le président sortant de l'Union et les présidents des Associations internationales.

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

## Les Associations internationales

Les sept Associations internationales semi-autonomes de l'U.G.G.I. 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 sept Associations internationales sont les suivantes:

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 des Sciences Physiques de l'Océan (AISPO)  
International Association of the Physical Sciences of the Ocean (IAPSO)

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

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

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

The IUGG Finance Committee interacts with the IUGG Treasurer regarding budgetary matters. It consists of five 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 seven 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 seven International Associations are as follows:

International Association of Geodesy (IAG)

Association Internationale de Géodésie (AIG)

International Association of Geomagnetism and Aeronomy (IAGA)

Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)

International Association of Hydrological Sciences (IAHS)

Association Internationale des Sciences Hydrologiques (AISH)

International Association of Meteorology and Atmospheric Sciences  
(IAMAS)

Association Internationale de Météorologie et des Sciences de l'Atmosphère  
(AIMSA)

International Association of the Physical Sciences of the Ocean (IAPSO)

Association Internationale des Sciences Physiques de l'Océan (AISPO)

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)

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)

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'U.G.G.I.. En 2001, six des sept Associations internationales ont tenu une Assemblée scientifique, la dernière ayant tenu son assemblée à la fin de 2000. 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'U.G.G.I.. 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'U.G.G.I. a prévu un budget particulier pour assurer leur participation aux symposiums organisés sous l'égide de l'Union et de ses Associations.

Comme l'U.G.G.I., les Associations internationales sont gérées par un Bureau et un Comité directeur, dont les membres 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 et Comités inter-associations**

En raison de la nature interdisciplinaire des domaines traités par les Associations internationales, trois Commissions inter-associations 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'U.G.G.I. à mener des recherches conjointes entre les Associations. Les commissions inter-associations font l'objet d'un examen et d'un remaniement lors de chaque Assemblée générale de l'U.G.G.I.. En 2002, les trois Commissions ci-dessous étaient actives:

- 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 (GEORISK)

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

Par l'entremise de l'U.G.G.I., des représentants d'une Association internationale participent à la direction de projets interdisciplinaires internationaux comme le *ICSU Scientific Committee on the Lithosphere / International Lithosphere Program (SCL/ILP)*.

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 2001, six of the seven International Associations held scientific assemblies. The other held a scientific assembly at the end of 2000. At Scientific Assemblies the International Associations sponsor Symposia on a particular topic, 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 a Bureau and Executive Committee whose members are elected during their General Assemblies. 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.

### **Inter-Association Commissions and Committees**

Owing to the interactive nature of the subject fields managed by the International Associations, three Inter-Association 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. Inter-association commissions are reviewed and renewed at each IUGG General Assembly. In 2002 the following three Commissions were active.

- Mathematical Geophysics (CMG); Géophysique mathématique
- Study of the Earth's Deep Interior (SEDI); Étude des profondeurs terrestres
- Geophysical Risk and Sustainability (GEORISK); Commission sur les risques géophysiques et développement durable

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

Through IUGG, International Association representatives help direct worldwide interdisciplinary projects such as the ICSU Scientific Committee on the Lithosphere International Lithosphere Program (SCL/ILP).

## FINANCES

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

Le revenu de l'Union provient des contributions annuelles des pays membres. Les pays membres ont le choix entre le statut de membre régulier ou de membre associé (ne payant pas de cotisation). Les pays membres peuvent envoyer un délégué aux rencontres quadriennales du Conseil de l'U.G.G.I. et voter sur les affaires administratives. Les scientifiques des pays membres 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 pays membres associés sont toutefois les bienvenus aux activités scientifiques et sociales tenues lors de toutes les rencontres de l'U.G.G.I. et des Associations internationales. Les données scientifiques collectées et les recherches effectuées par les pays membres 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'U.G.G.I.. Si la situation économique d'un pays ne lui permet pas l'adhésion de plein droit à l'U.G.G.I., le statut de membre associé peut être une étape vers l'adhésion de plein droit.

Les cotisations qu'un pays membre régulier paye sont calculées selon un barème (en fonction de la 'catégorie - Table 1') défini par le Comité des finances de l'U.G.G.I.. Les catégories reflètent la situation économique du pays et à sa participation aux Assemblées Générales de l'U.G.G.I.. Les détails figurent dans le titre III des statuts et le titre III du règlement intérieur de l'U.G.G.I.. Chaque catégorie correspond à un nombre d'unités permettant de calculer la cotisation. En 2002 la valeur d'une unité de cotisation était de 1.430 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 pays membre 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'U.G.G.I..

## 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 2002 was \$1,430. 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**

Category A denotes Associate Membership as defined by the IUGG Statutes and By Laws adopted at the XXII IUGG General Assembly in Birmingham, U.K., 1999.

<b>MEMBERS</b>	<b>Dates of ADMISSION &amp; TERMINATION</b>	<b>CATEGORY</b>	<b>UNITS</b>
<i>ALBANIA</i>	1997		
ALGERIA	1971	1	1
ARGENTINA	1927	4	5
ARMENIA	2000	A	0
AUSTRALIA	1919	5	7
AUSTRIA	1948	3	3
BELGIUM	1919	4	5
<i>BOLIVIA</i>	1960-2000		
BRAZIL	1922	3	3
BULGARIA	1930	1	1
<i>BURUNDI</i>	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
CROATIA	1992	1	1
<i>CUBA</i>	1960-1996		
CZECH REPUBLIC	1993	2	2
<i>CZECHOSLOVAKIA</i>	1924-1993		
DENMARK	1923	4	5
<i>DOMINICAN REP.</i>	1957-1971		
EGYPT	1924	2	2
ESTONIA	1991	1	1
<i>ETHIOPIA</i>	1952-2000		
FINLAND	1927	3	3
FRANCE	1919	8	20
<i>GERMANY /DEM.REP/</i>	1964-1990		
GERMANY F.R.	1951	8	20
<i>GHANA</i>	1957-1987		
GREECE	1922	3	3
<i>GUATEMALA</i>	1957-2000		
<i>GUINEA</i>	1987-1995		



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

<b>MEMBERS</b>	<b>Dates of ADMISSION &amp; TERMINATION</b>	<b>CATEGORY</b>	<b>UNITS</b>
<i>HAITI</i>	<i>1956-1971</i>		
HUNGARY	1930	2	2
ICELAND	1967	1	1
INDIA	1947	5	7
INDONESIA	1951	1	1
IRAN	1957	1	1
<i>IRAQ</i>	<i>1983-1996</i>		
IRELAND	1946	2	2
ISRAEL	1951	1	1
ITALY	1919	6	10
<i>IVORY COAST</i>	<i>1975-1996</i>		
JAPAN	1919	8	20
JORDAN	1979	1	1
<i>KENYA</i>	<i>1975-1997</i>		
KOREA	1960	2	2
<i>KOREA /DEM.REP/</i>	<i>1967-2000</i>		
LEBANON	1967	1	1
<i>LIBYA</i>	<i>1979-1996</i>		
LUXEMBOURG	1971	1	1
<i>EX-YUGOSLAVIAN REPUBLIC OF MACEDONIA</i>	<i>1995-2001</i>		
<i>MADAGASCAR</i>	<i>1967-1995</i>		
<i>MALAYSIA</i>	<i>1967-2002</i>		
MEXICO	1922	2	2
MONACO	1967	1	1
<i>MONGOLIA</i>	<i>1995-2001</i>		
MOROCCO	1924	A	0
MOZAMBIQUE	1983	1	1
MYANMAR (BURMA)	1957	1	1
<i>NEPAL</i>	<i>1975-1987</i>		
NETHERLANDS	1925	4	5
NEW ZEALAND	1927	1	1
NIGERIA	1971	A	0
NORWAY	1923	4	5
PAKISTAN	1952	2	2
PERU	1925-1979, 2000	A	0
PHILIPPINES	1951	3	3

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

<b>MEMBERS</b>	<b>Dates of ADMISSION &amp; TERMINATION</b>	<b>CATEGORY</b>	<b>UNITS</b>
POLAND	1924	2	2
PORTUGAL	1919	2	2
ROMANIA	1930	1	1
RUSSIA	1992	6	10
SAUDI ARABIA	1971-2001		
SENEGAL	1960-1995		
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	3	3
SYRIA	1948-1995		
TANZANIA	1975-2000		
THAILAND	1923	2	2
TUNISIA	1927-2001		
TURKEY	1949	2	2
U.K.	1919	8	20
URUGUAY	1924-2000		
U.S.A.	1919	11	35
U.S.S.R.	1954-1992		
VENEZUELA	1975	1	1
VIETNAM	1931	1	1
YUGOSLAVIA (*)	1924-1991		
YUGOSLAVIA, F.R.	1996	A	0
ZAIRE	1991-1997		
ZIMBABWE	1967-2000		

(\*) Adhesion in 1924 under the name of « Royaume des Serbes Croates et Slovènes » becoming Yugoslavia in 1929. Membership terminated in 1991 considering the geo-political changes.

**Table 2: Regional Distribution of Members**

<b>REGION</b>	<b># OF MEMBERS</b>
Africa	5
Asia	16
Europe	32
North and Central America	4
Oceania	2
South America	5

**Table 3: IUGG General Assemblies**

	<b>Assembly</b>	<b>Year</b>	<b>National</b>	<b>Foreigners</b>	<b>Total</b>
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
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			

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

## CURRENT OFFICIALS OF IUGG

### Bureau of the Union

<i>President:</i>	M. Kono (Japan)
<i>Vice-President:</i>	U. Shamir (Israel)
<i>Secretary General:</i>	J.A. Joselyn (U.S.A.)
<i>Treasurer:</i>	A.W. Hansen (Denmark)
<i>Members:</i>	J. Chen (China), H.K. Gupta (India), T. Beer (Australia)

The following Officers are not voting Members of the Bureau:

<i>Assistant Secretary General:</i>	R. Aucone (U.S.A.)
<i>Assistant Treasurer:</i>	A. Svensson (Denmark)
<i>Honorary Secretary General:</i>	Baron P. Melchior (Belgium)

### 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, P.J. Wyllie (U.S.A.)
- the Presidents of the International Associations:
 

IAG:	F. Sanso (Italy)
IAGA:	D.J. Kerridge (U.K.)
IAHS:	K. Takeuchi (Japan)
IAMAS:	H. Davies (Switzerland)
IAPSO:	P. Rizzoli (U.S.A.)
IASPEI:	B.L.N. Kennett (Australia)
IAVCEI:	R.S.J. Sparks (U.K.)

### Finance Committee of the Union

<i>President:</i>	A.F. Spilhaus (U.S.A.)
<i>Members:</i>	V.K. Gaur (India), E. Groten (Germany), M.J. Hamlin (U.K.)
<i>Secretary:</i>	P. Pinet (France)

### IUGG Advisory Board on Scientific Policy

<i>President:</i>	U. Shamir (Israel)
<i>The Associations Presidents</i>	

## **IUGG Electronic Bulletin Board**

*Webmaster:* J. McKie (U.S.A.)

## **IUGG Liaison Officers With Intergovernmental Organizations**

Cartographic Office of the United Nations: J. Kakkuri (Finland).

United Nations Educational, Scientific and Cultural Organization (UNESCO):  
Solid Earth and Geodesy: R.D. Adams (U.K.):  
International Oceanographic Commission: P. Rizzoli (U.S.A.).

World Meteorological Organization (WMO): R. List (Canada). IAHS  
President or Secretary for Hydrology affairs.

## **IUGG Representatives on ICSU Committees**

Committee on Space Research (COSPAR): E. Friis-Christensen (Denmark).

Committee on Science and Technology in Developing Countries -  
incorporating International Biosciences and other Scientific Networks  
(COSTED/IBN): V.K. Gaur (India).

Federation of Astronomical and Geophysical Data Analysis Services (FAGS):  
M. Feissel (France), D.T. Pugh (U.K.).

Scientific Committee for the International Geosphere-Biosphere Programme  
(IGBP): C.J.E. Schuurmans (The Netherlands).

Scientific Committee on Antarctic Research (SCAR): R. Schlich (France).

Scientific Committee on the Problems of the Environment (SCOPE):  
N.J. Peters (U.S.A.).

Scientific Committee on Oceanic Research (SCOR): P. Rizzoli (President,  
IAPSO); H.C. Davies (President, IAMAS)

Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):  
W. Baumjohann (Austria).

World Climate Research Programme (WCRP): R. List (Canada).

## **IUGG Representatives on Inter-Union Commissions**

Inter-Union Scientific Committee on the Lithosphere (SCL):

S. Gregersen (Denmark).

## **IUGG Representatives on Other Bodies**

International Civil Aviation Organization (IOCA): G. Heiken (U.S.A.)

Instituto Panamericano de Geografia e Historia (IPGH): W. Torge (Germany)

## **NATIONAL REPRESENTATIVES ACCREDITED TO THE COUNCIL OF THE IUGG**

22nd G.A., Birmingham (United Kingdom), July 18-30, 1999

A.K. Yelles-Chaouche (Algeria), K. Lambeck (Australia), H. Suenkel (Austria), B. Ducarme (Belgium), P. Paquet (Belgium), D. Blitzkow (Brazil), R. Stewart (Canada), Chen Yun-Tai (China), V. Cermark (Czech Republic), A. Hansen (Denmark), C.C. Tscherning (Denmark), R. Room (Estonia), A.A. Ashour (Egypt), J. Kakkuri (Finland), P. Hubert (France), R. Schlich (France), E. Grafarend (Germany), E. Groten (Germany), J. Adam (Hungary), A. Snorrason (Iceland), R.N. Singh (India), J. Kahar (Indonesia), A.W.B. Jacob (Ireland), F. Mariani (Italy), C. Morelli (Italy), S. Aramaki (Japan), C. Baag (Korea, South), N. D'Oreye (Luxembourg), V. Mihailov (Ex-Yugoslavian Rep. of Macedonia), C. Van den Akker (Netherlands), F.C. Zuidema (Netherlands), D. Rhoades (New Zealand), O. Coker (Nigeria), T.A. Blix (Norway), B. J. Harsson (Norway), L. W. Baran (Poland), L. Mendes-Victor (Portugal), A. Torres (Portugal), C. S. Sava (Romania), G. Sobolev (Russia), P. Moczo (Slovak Republic), M. Brilly (Slovenia), C. L. Merry (South Africa), F. Vidal (Spain), O. Kulhanek (Sweden), H.C. Davies (Switzerland), H. Lang (Switzerland), Cheng-Hong Chen (Taipei, Acad. of Sciences), Yih-Hsiung Yeh (Taipei, Acad. of Sciences), T. Thambumroong (Thailand), H. Meteris (Turkey), C. Mooers (United States), M. Hamlin (United Kingdom), T.K.T. Nguyen (Vietnam), D.L. Jones (Zimbabwe), F. Podmore (Zimbabwe)

## Past Officers of IUGG and Associations Since 1919

### PAST IUGG PRESIDENTS

1919-1933	C. Lallemand (France)
1933-1936	W. Bowie (U.S.A.)
1936-1942	D. La Cour (Denmark)
1946-1948	B. Helland-Hansen (Norway)
1948-1951	F.A. Vening-Meinesz (Netherlands)
1951-1954	S. Chapman (U.K.)
1954-1957	K.R. Ramanathan (India)
1957-1960	J.T. Wilson (Canada)
1960-1963	V.V. Belousov (U.S.S.R.)
1963-1967	J. Kaplan (U.S.A.)
1967-1971	J. Coulomb (France)
1971-1975	H. Charnock (U.K.)
1975-1979	A. Ashour (Egypt)
1979-1983	G.D. Garland (Canada)
1983-1987	D. Lal (India)
1987-1991	V.I. Keilis-Borok (U.S.S.R.)
1991-1995	H. Moritz (Austria)
1995-1999	P.J. Wyllie (U.S.A.)
1999-2003	M. Kono (Japan)

### PAST IUGG GENERAL SECRETARIES

1919-1930	Sir Henry Lyons (U.K.)
1930-1946	H. St. J.L. Winterbotham (U.K.)
1946-1951	J.M. Stagg (U.K.)
1951-1963	G.R. Laclavère (France)
1963-1973	G.D. Garland (Canada)
1973-1991	P. Melchior (Belgium)
1991-1999	G. Balmino (France)
1999-	J.A. Joselyn (U.S.A.)

### PAST IUGG TREASURERS

1960-1971	E. Andersen (Denmark)
1971-1979	E. Kejlso (Denmark)
1979-1987	O. Bedsted Andersen (Denmark)
1987-1999	S. Gregersen (Denmark)
1999-	A.W. Hansen (Denmark)

**PAST IUGG VICE-PRESIDENTS**

1919-1922	S.A.S. Prince Albert Ie de Monaco, W. Bowie (U.S.A.), Sir Napier Shaw (U.K.), M. Tanakadate (Japan)
1922-1948	The Presidents of the Associations
1948-1951	S. Chapman (U.K.), L.H. Adams (U.S.A.)
1951-1954	G. Cassinis (Italy), J. Bjercknes (U.S.A.)
1954-1957	J.T. Wilson (Canada)
1957-1960	V.V. Belousov (U.S.S.R.), W. Heiskanen (Finland)
1960-1963	J. Bartels (F.R.G.), J. Kaplan (U.S.A.)
1963-1967	K.E. Bullen (Australia), J. Coulomb (France)
1967-1969	H. Kuno (Japan)
1969-1971	L. Constantinescu (Romania)
1971-1975	A. Ashour (Egypt)
1975-1979	G.D. Garland (Canada)
1979-1983	N.V. Shebalin (U.S.S.R.)
1983-1991	C. Kisslinger (U.S.A.)
1991-1995	P.J. Wyllie (U.S.A.)
1995-2003	U. Shamir (Israel)

**PAST MEMBERS OF THE IUGG BUREAU**

1957-1960	G. Deacon (U.K.), J.W. Joyce (U.S.A.), C. Tsuboi (Japan)
1960-1963	M.S. Krishnan (India), T. Nagata (Japan)
1963-1967	B. Bolin (Sweden), V.A. Troitskaya (U.S.S.R.)
1967-1971	L. Constantinescu, T. Malone (U.S.A.), A.M. Oboukhov (U.S.S.R.)
1971-1975	W.C. Ackermann (U.S.A.), L. Constantinescu (Romania), N.V. Shebalin (U.S.S.R.)
1975-1979	N.V. Shebalin (U.S.S.R.), H. Lacombe (France), C. Kisslinger (U.S.A.)
1979-1983	J.C.I. Dooge (Ireland), H. Lacombe (France), C. Kisslinger (U.S.A.)
1983-1987	J.C.I. Dooge (Ireland), V.I. Keilis-Borok (U.S.S.R.), H. Moritz (Austria)
1987-1991	G. McBean (Canada), H. Moritz (Austria), Ye Duzheng (China)
1991-1995	G. McBean (Canada), Ye Duzheng (China), A.S. Monin (Russia)
1995-1999	J. Chen (China), A.S. Monin (Russia), S. Uyeda (Japan)
1999-2001	J. Chen (China), H.K. Gupta (India), L.V. Shannon (South Africa)
2001-2003	T. Beer (Australia), J. Chen (China), H.K. Gupta (India)



**PAST IUGG FINANCE COMMITTEE PRESIDENTS**

1948-1954	J.T. Wilson (Canada)
1957-1957	A.T. Doodson (U.K.)
1957-1963	K.H. Beij (U.S.A.)
1963-1967	M. Doportto (Ireland)
1967-1971	T.J. Kukkamäki (Finland)
1971-1975	J.M. Stagg (U.K.)
1975-1979	C.A. Whitten (U.S.A.)
1979-1983	H.I.S. Thirlaway (U.K.)
1983-1995	J.O. Cardus (Spain)
1995-1999	A.A. Ashour (Egypt)
1999-2003	A.F. Spilhaus (U.S.A.)

**PAST IUGG FINANCE COMMITTEE SECRETARIES**

1948-1957	K.H. Beij (U.S.A.)
1957-1960	M. Goldschmidt (Israel)
1960-1967	T.J. Kukkamäki (Finland)
1967-1975	C.A. Whitten (U.S.A.)
1975-1979	H.I.S. Thirlaway (U.K.)
1979-1987	A.E. Maxwell (U.S.A.)
1987-1989	J. Somogyi (Hungary)
1989-1999	A.F. Spilhaus (U.S.A.)
1999-2003	P. Pinet (France)

**PAST IUGG FINANCE COMMITTEE MEMBERS**

1948-1951	G. Dianderas (Peru), A.T. Doodson (U.K.), J. Vignal (France)
1951-1954	A.T. Doodson (U.K.), M. Goldschmidt (Israel), J. Vignal (France)
1954-1957	M.J. Goldschmidt (Israel), J. Vignal (France), F. Gassmann (Switzerland)
1957-1960	J.M. Rayner (Australia), A. Romana (Spain), J. Vignal (France)
1960-1963	M. Doportto (Ireland), J.M. Rayner (Australia), A. Romana (Spain)
1963-1967	C.A. Whitten (U.S.A.), S. Krynski (Poland), A. Romana (Spain)
1967-1971	S. Krynski (Poland), J.M. Stagg (U.K.), E. Walzer (Switzerland)
1971-1975	S. Krynski (Poland), E. Walzer (Switzerland), G. Yamamoto (Japan)
1975-1979	S. Krynski (Poland), G. Yamamoto (Japan), P.K. Das (India)
1979-1983	J.O. Cardus (Spain), J. Rais (Indonesia), J. Somogyi (Hungary)
1983-1987	A. Ashour (Egypt), J. Rais (Indonesia), J. Somogyi (Hungary)
1987-1991	A. Ashour (Egypt), J. Rais (Indonesia), A.F. Spilhaus (U.S.A.)
1991-1995	A. Ashour (Egypt), A.F. Spilhaus (U.S.A.), M.J. Hamlin (U.K.)
1995-1999	V.K. Gaur (India), E. Groten (Germany), M.J. Hamlin (U.K.)
1999-2003	V.K. Gaur (India), E. Groten (Germany), M.J. Hamlin (U.K.)

## INTER-ASSOCIATION COMMITTEES AND COMMISSIONS

### Inter Associations Committee on Mathematical Geophysics

<i>Chair:</i>	Daniel H. Rothman (U.S.A.)
<i>Vice-Chair– Russia:</i>	George Molchan (Russia)
<i>Vice-Chair – North America:</i>	Ray Pierrehumbert (U.S.A.)
<i>Vice-Chair– Europe:</i>	Antonello Provenzale (Italy)
<i>Vice-Chair – Middle East:</i>	Eli Tziperman (Israel)
<i>Secretary:</i>	Marc Spiegelman (U.S.A.)

### Inter Associations Committee on the Study of Earth's Deep Interior (SEDI): [www.sedigroup.org](http://www.sedigroup.org)

<i>Chair:</i>	David Gubbins (U.K.)
<i>Vice-Chair:</i>	Henri-Claude Nataf (France)
<i>Secretary General:</i>	Michael I. Bergman (U.S.A.)
<i>Advisory Committee:</i>	Reini Boehler (Germany), Bruce Buffett (Canada), Cathy Constable (U.S.A.), Ivan Cupal (Czech Republic), Ibrahim Eltayeb (Oman), Rongshan Fu (China), K. Kurita (Japan), Philippe Gillet (France), Gary Glatzmaier (U.S.A.), H.K. Gupta (India), François Guyot (France), S.-I. Karato (U.S.A.), Ban-Yuan Kuo (Taiwan), Kurt Lambeck (Australia), David Loper (U.S.A.), Guy Masters (U.S.A.), Jerry Mitrovica (Canada), Andrew Soward (U.K.), Satoru Tanaka (Japan), Lev Vinnik (Russia), Kathy Whaler (U.K.), Vladimir Zharkov (Russia)

### Inter Associations Commission on Geophysical Risk and Sustainability (GeoRisk): [www.mitp.ru/georisk](http://www.mitp.ru/georisk)

<i>Chair:</i>	Tom Beer (Australia)
<i>Vice-Chairs:</i>	Kuniyoshi Takeuchi (Japan), Alik Ismail-Zadeh (Russia)
<i>Secretary:</i>	Grant Heiken (U.S.A.)

**Scientific Committee on the Lithosphere and the International Lithosphere Program (SCL/ILP)****SCL/ILP EXECUTIVE AND BUREAU MEMBERS**

<i>President:</i>	A. Taira (Japan)
<i>Secretary General:</i>	K.M. Shedlock (U.S.A.)
<i>Bureau Members:</i>	H. Drewes (Germany)
	S. Gregersen (Denmark)
	Q. Wang (China)
<i>Past President:</i>	A.G. Green (Switzerland)
<i>Chair - Committee of National Representatives:</i>	A.K. Sinha (India)
<i>IUGG Representative:</i>	E.R. Engdahl (U.S.A.)
<i>IUGS Representative:</i>	W.R. Janoschek (Austria)
<i>UNESCO Representative:</i>	F.W. Eder (France)

## II. INTERNATIONAL ASSOCIATIONS

IUGG comprises seven 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 seven International Associations are:

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

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

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

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

International Association of the Physical Sciences of the Ocean (IAPSO)  
Association Internationale des Sciences Physiques de l'Océan (AISPO)

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)

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)

**Table 4:**  
**Scientific Assemblies of the International Associations**

<b>International Association</b>	<b>Year</b>	<b>Meeting Location</b>	<b>Number of Participants</b>
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, U.K.	500
IAVCEI	1977	Durham, U.K.	500
IAGA	1977	Seattle, U.S.A.	950
IAMAP	1977	Seattle, U.S.A.	950
IASPEI	1981	London, Canada	448
IAGA	1981	Edinburgh, U.K.	747
IAMAP	1981	Hamburg, Germany	921
IAG	1982	Tokyo, Japan	200
IAVCEI	1982	Reykjavik, Iceland	190
IAHS	1982	Exeter, U.K.	530
IAPSO	1982	Halifax, Canada	759
IASPEI	1984	Hyderabad, India	285
IASPEI	1985	Tokyo, Japan	651
IAGA	1985	Praha, Czechoslovakia	994
ISMAMP*	1985	Hawaii, U.S.A.	450
IAPSO*	1985	Hawaii, U.S.A.	450
IAHS	1986	Budapest, Hungary	310
IAPSO	1988	Acapulco, Mexico	543
IAG	1989	Edinburgh, U.K.	NA
IASPEI	1989	Istanbul, Turkey	611
IAGA	1989	Exeter, U.K.	1200
IAMAP*	1989	Reading, U.K.	1020
IAPSO*	1989	Reading, U.K.	1020
IAHS	1989	Baltimore, U.S.A.	440
IASPEI	1990	Nairobi, Kenya	132
IAVCEI	1991	Naples, Italy	800

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

<b>International Association</b>	<b>Year</b>	<b>Meeting Location</b>	<b>Number of Participants</b>
IAG	1993	Bejing, China	350
IAVCEI	1993	Canberra, Australia	600
IAMAP/S*	1993	Yokohama, Japan	450
IAHS*	1993	Yokohama, Japan	450
IAGA	1993	Buenos Aires, Argentina	505
IASPEI	1994	Wellington, New Zealand	483
IAPSO	1995	Hawaii, U.S.A.	700
IAG	1997	Rio de Janeiro, Brazil	350
IASPEI	1997	Thessaloniki, Greece	1040
IAVCEI	1997	Puerto Vallarta, Mexico	600
IAGA	1997	Uppsala, Sweden	1200
IAHS	1997	Rabat, Morocco	500
IAMAS/IAPSO	1997	Melbourne, Australia	1100
IAG	2001	Budapest, Hungary	461
IASPEI/IAGA	2001	Hanoi, Vietnam	1078
IAVCEI	2000	Bali, Indonesia	490
IAMAS	2001	Innsbruck, Austria	851
IAHS	2001	Maastricht, Netherlands	400
IAPSO**	2001	Mar del Plata, Argentina	430
IAG	2005		
IAGA	2005	Toulouse, France	
IAHS	2005	Foz de Iguassu, Brazil	
IAMAS	2005	Beijing, China	
IAPSO**	2005	Perugia, Italy	
IASPEI	2005	Santiago, Chile	
IAVCEI	2004	Pucon, Chile	

\* Joint Scientific Assemblies

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

### **III. International Association Of Geodesy (IAG) Association Internationale De Géodésie (AIG)**

<http://www.gfy.ku.dk/~iag>

The International Association of Geodesy (IAG) was created in 1864 under the name of Europäische Gradmessung. In 1886 it became the Association Géodésique Internationale. At the first General Assembly of IUGG (Rome, 2-10 May 1922) it became one of the five constituent sections of the Union. It took its present name at the Stockholm General Assembly of IUGG (1930).

#### **IAG BUREAU 1999 - 2003**

<i>President:</i>	F. Sanso (Italy)
<i>First Vice-President:</i>	G. Beutler (Switzerland)
<i>Secretary-General:</i>	C.C. Tscherning (Denmark)
<i>Second Vice-President:</i>	D. Blitzkow (Brazil)

#### **IAG EXECUTIVE COMMITTEE 1999 - 2003**

*The Bureau and the Second Vice-President*

<i>The Past President:</i>	K.P. Schwarz (Canada)
<i>The Section Presidents:</i>	I. A. Dodson (U.K.)
	II. C.K. Shum (U.S.A.)
	III. M.G. Sideris (Canada)
	IV. B. Heck (Germany)
	V. C. Wilson (U.S.A.)

#### **OTHER IAG OFFICERS 1999 - 2003**

<i>Editor in Chief of the Journal of Geodesy:</i>	P.J.G. Teunissen (Netherlands)
<i>Assistant Secretaries of the Association:</i>	O. Baltazar Andersen (Denmark) K. Keller (Denmark)
<i>Honorary Presidents:</i>	H. Moritz (Austria) I.I. Mueller (U.S.A.) W. Torge (Germany) K.P. Schwarz (Canada)

*Honorary Secretary General:* M. Louis (France)

[The Secretaries of the Sections and the other officers may attend any meeting of the Executive Committee of the Association in an advisory capacity].

**IAG SECTIONS****IAG Section I: Positioning**[www.lareg.ensg.ign.fr/grgn](http://www.lareg.ensg.ign.fr/grgn)*President:* A. Dodson (U.K.)*Secretaries:* C. Rizos (Australia), Claude Boucher (France)**Commission X: Global and Regional Geodetic Networks***President:* C. Boucher (France)**Special Commission:**

SC4: Applications of Geodesy to Engineering

*President:* H. Kahmen (Austria)**Special Study Groups:**

SSG1.179: Wide area Modeling for Precise Satellite Positioning

*Chairman:* S. Han (Australia)

SSG1.180: GPS as an Atmospheric Remote Sensing Tool

*Chairman:* H. Van der Marel (Netherlands)

SSG1.181: Regional Permanent Arrays

*Chairman:* R. Weber (Austria)

SSG1.182: Multipath Mitigation

*Chairman:* M. Stewart (Australia)**IAG Section II: Advanced Space Technology**[http://geodesy.eng.ohio-state.edu/iag\\_sectionII/](http://geodesy.eng.ohio-state.edu/iag_sectionII/)*President:* C.K. Shum (U.S.A.)*Secretary:* P. Willis (France)**Commission VIII: International Coordination of Space Techniques for Geodesy and Geodynamics (CSTG)***President:* H. Drewes (Germany)**Special Commission:**

SC7: Satellite Gravity Field Missions

*President:* K.H. Ilk (Germany)**Special Study Groups:**

SSG2.162: Precise Orbits Using Multiple Space Techniques

*Chairman:* R. Scharroo (Netherlands)

SSG2.183: Spaceborne Interferometry Techniques

*Chairman:* R. Hanssen (Netherlands)

SSG2.192: Spaceborne GNS Atmospheric Sounding

*Chairman:* E.R. Kursinski, Jr. (U.S.A.)



SSG2.193: Gravity Field Missions: Calibration and Validation

*Chairman:* P. Visser (Netherlands)

SSG2.194: GPS Water Level Measurements

*Chairman:* G. Mader (U.S.A.)

### **International Services**

International GPS Service (affiliated to FAGS)

*Chairman:* C. Reigber (Germany)

*Director of the Central Bureau:* R. Neilan (U.S.A.)

The International Laser Ranging Service – ILRS

*Chair of the Governing Board:* J. Degnan (U.S.A.)

*Director of the Central Bureau:* J. Bosworth (U.S.A.)

International VLBI Service for Geodesy and Astrometry – IVS  
(affiliated to FAGS)

*Chair of the Governing Board:* W. Schlüter (Germany)

### **IAG Section III: Determination Of The Gravity Field**

<http://www.ucalgary.ca/~sideris/IAG/sectionIII.html>

*President:* M.G. Sideris (Canada)

*Secretary:* G. Boedecker (Germany)

**Commission XIII:** International Gravity and Geoid Commission

*President:* M. Vermeer (Finland)

### **Special Study Groups:**

SSG3.167: Regional Land and Marine Geoid Modelling

*Chairman:* I. Tziavos (Greece)

SSG3.177: Synthetic Modelling of the Earth's Gravity Field

*Chairman:* W. Featherstone (Australia)

SSG3.184: Use of Remote Sensing Techniques for Validating  
Heights and Depths

*Chairman:* P. Berry (U.K.)

SSG3.185: Merging Data from Dedicated Satellite Missions with  
other Gravimetric Data

*Chairman:* N. Sneeuw (Canada)

SSG3.186: Altimetry Data Processing for Gravity, Geoid and Sea  
Surface Topography Determination

*Chairman:* C. Hwang (Taiwan)

**International Services**

International Gravimetric Bureau -BGI- (affiliated to FAGS)

*Director:* J.P. Barriot (France)

International Geoid Service -IGeS

*Director:* F. Sanso (Italy)**IAG Section IV: General Theory And Methodology***President:* B. Heck (Germany)*Secretaries:* C. Jekeli (U.S.A.)

Y. Yang (China)

**Special Commission:**

SC1: Mathematical and Physical Foundations of Geodesy

*President:* P. Holota (Czech Republic)**Special Study Groups:**

SSG4.187: Wavelets in Geodesy and Geodynamics

*Chairman:* W. Keller (Germany)SSG4.188: Mass Density from Integrated Inverse Gravity  
Modeling*Chairman:* G. Strykowski (Denmark)

SSG4.189: Dynamic Theories of Deformation and Gravity Field

*Chairman:* D. Wolf (Germany)SSG4.190: Non-probabilistic Assessment in Geodetic Data  
Analysis*Chairman:* H. Kutterer (Germany)

SSG4.191: Theory of Fundamental Height Systems

*Chairman:* C. Jekeli (U.S.A.)**IAG Section V: Geodynamics**[www.astro.oma.be/IAG/index.html](http://www.astro.oma.be/IAG/index.html)*President:* C. Wilson (U.S.A.)*Secretaries:* V. Dehant (Belgium)**Commission V: Earth Tides**<http://www-geod.kugi.kyoto-u.ac.jp/iag-etc/>*President:* S. Takemoto (Japan)

**Commission XIV: Crustal Deformation**

<http://www.df.unibo.it/commXIV/>

*President:* S. Zerbini (Italy)

**Special Commissions:**

SC3: Fundamental Parameters

*President:* I.E. Groten (Germany)

SC8: Sea Level and Ice Sheets

*President:* M. Bevis (U.S.A.)

**Working Group: IAG/IAPSO Working Group: Geodetic effects of Non-tidal Oceanic Processes**

*President:* R.S. Gross (U.S.A.)

**International Services**

International Center of Earth Tides -ICET- (affiliated to FAGS)

[www.oma.be/ICET/index.html](http://www.oma.be/ICET/index.html)

*Director:* B. Ducarme (Belgium)

International Earth Rotation Service -IERS- (affiliated to FAGS)

<http://www.iers.org>

*Chairman of the Directing Board:* C. Reigber (Germany)

*Director of the Central Bureau:* D. Gambis (France)

Permanent Service for Mean Sea Level -PSMSL- (affiliated to FAGS)

<http://www.pol.ac.uk>

*Director:* P.L. Woodworth (U.K.)

Bureau International des Poids et Mesures -BIPM- Time Section:

<http://www.bipm.org>

*Director:* E.F. Arias (France)

**Out of Section**

**Committee on Geodetic Aspects of the Law of the Sea (GALOS)**

*Chair:* B.G. Harsson (Norway)

**Working Group on Education**

*Chair:* C.C. Tscherning (Denmark)

**PAST IAG OFFICERS**

1864-1885	J.J. Baeyer (Prussia)
1886-1891	C. Ibanez de Ibero (Spain)
1892-1902	H. Faye (France)
1903-1918	L. Bassot (France)
1919-1933	W. Bowie (U.S.A.)
1933-1945	F.A. Vening Meinesz (Netherlands)
1945-1951	W.D. Lambert (U.S.A.)
1951-1954	C.F. Baeschlin (Switzerland)
1954-1957	J. de Graaf Hunter (U.K.)
1957-1960	G. Cassinis (Italy)
1960-1963	C.A. Whitten (U.S.A.)
1963-1967	G. Bomford (U.K.)
1967-1971	A. Marussi (Italy)
1971-1975	Y.D. Boulanger (U.S.S.R.)
1975-1979	T.J. Kukkamäki (Finland)
1979-1983	H. Moritz (Austria)
1983-1987	P.V. Angus-Leppan (Australia)
1987-1991	I.I. Mueller (U.S.A.)
1991-1995	W. Torge (F.R. Germany)
1995-1999	K.P. Schwarz (Canada)
1999-2003	F. Sanso (Italy)

**PAST IAG GENERAL SECRETARIES**

1886-1900	A. Hirsch (Switzerland)
1900-1918	H.G. Van de Sande-Bakhuisen (Netherlands)
1919-1945	G. Perrier (France)
1946-1960	P. Tardi (France)
1960-1975	J.J. Levallois (France)
1975-1991	M. Louis (France)
1991-1995	C. Boucher (France)
1995-	C.C. Tscherning (Denmark)

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

<http://www.ngdc.noaa.gov/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 1999-2003**

<i>President:</i>	D. Kerridge (Scotland, U.K.)
<i>Vice-Presidents:</i>	C. Barton (Australia) J. Lastovicka (Czech Republic)
<i>Secretary-General:</i>	B. Hultqvist (Sweden)
<i>Past-President:</i>	M. Kono (Japan)
<i>Members:</i>	E. Friis-Christensen (Denmark) Y. Kamide (Japan) G. Lakhina (India) M. Menvielle (France)

## **IAGA DIVISIONS**

### **IAGA Division I - Internal Magnetic Fields**

<i>Chair:</i>	I.A. Eltayeb (Sudan/Oman)
<i>Co-chair:</i>	A. Jones (Canada)

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

<i>Chair:</i>	J. Bloxham (U.S.A.)
<i>Co-Chair:</i>	I. Cupal (Czech Republic)

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

<i>Chair:</i>	P. Tarits (France)
<i>Co-Chair:</i>	A. Junge (Germany)

#### **Working Group I-3: Palaeomagnetism**

<i>Chair:</i>	M. Dekkers (Netherlands)
<i>Co-Chair:</i>	H. Boehnel (Mexico)

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

*Chair:* B. Maher (UK)  
*Co-Chair:* E. Petroovsky (Czech Republic)

**IAGA Division II - Aeronomical Phenomena**

*Chair:* S. Fukao (Japan)  
*Co-Chair:* R.W. Schunk (U.S.A.)

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

*Chair:* R.A. Goldberg (U.S.A.)  
*Co-Chair:* T.A. Blix (Norway)

**Working Group II-B: Thermospheric Dynamics**

*Chair:* A.D. Aylward (U.K.)  
*Co-Chairs:* T.L. Killeen (U.S.A.)  
R. Sridharan (India)

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

*Chair:* D. Pancheva (U.K.)  
*Co-Chairs:* W. Singer (Germany)  
.N. Fahrutdinova (Russia)

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

*Chair:* E.S. Kazimirovsky (Russia)  
*Co-Chairs:* C.H. Jackman (U.S.A.)  
P. Stauning (Denmark)

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

*Chair:* R.A. Greenwald (U.S.A.)  
*Co-Chair:* J.P. St. Maurice (Canada)

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

*Chair:* J. Lastovicka (Czech Republic)  
*Co-Chair:* G. Thomas [ICMA] (U.S.A.)

**Working Group II-G Polar Research**

*Chair:* A. Weatherwax (U.S.A.)

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

*IAGA Chair:* A.J. Smith (U.K.)  
*URSI Chair:* M. Parrot (France)

### **IAGA Division III - Magnetospheric Phenomena**

*Chair:* M. Lockwood (U.K.)

*Co-Chair:* B. Anderson (U.S.A.)

#### **Working Group III-1: ULF Waves in Magnetospheres**

*Chair:* F. Menk (Australia)

#### **Working Group III-5: Polar Research (joint with Division II Working Group II-G)**

*Chair:* A. Weatherwax (U.S.A.)

### **IAGA Division IV - Solar Wind and Interplanetary Field**

*Chair:* S. Schwartz (U.K.)

*Co-Chair:* R. Schwenn (Germany)

### **IAGA Division V - Geomagnetic Observatories, Surveys and Analyses**

*Chair:* V.O. Papitashvili (U.S.A.)

*Co-Chair:* T. Iyemori (Japan)

#### **Working Group V-1: Geomagnetic Observatories, Instruments and Standards**

*Chair:* J.L.J. Rasson (Belgium)

*Co-Chair:* H.J. Linthe (Germany)

#### **Working Group V-2: Geomagnetic Data, Indices and Applications**

*Chair:* S. McLean (U.S.A.)

*Co-Chairs:* T. Kamei (Japan)

T.D.G. Clark (U.K.)

#### **Working Group V-3: Analysis and Modeling of Geomagnetic Field Variations**

*Chair:* N. Olsen (Denmark)

*Co-Chair:* A.W.P. Thomson (U.K.)

#### **Working Group V-7: Earth and Planetary Magnetic Survey Satellites**

*Chair:* Y. Cohen (France)

*Co-Chair:* M. Purucker (U.S.A.)

#### **Working Group V-8: Analysis of the Global and Regional Geomagnetic Field and Secular Variation**

*Chair:* M. Manda (France)

*Co-Chair:* S. Macmillan (U.K.)

**Working Group V-9: Magnetic Anomalies (Land and Sea)***Chair:* M. Korte (U.S.A.)*Co-Chair:* M. Rajaram (India)**IAGA Interdivisional Commissions****History***Chair:* A. Orozco (Mexico)*Co-Chair:* W. Schröder (Germany)**Developing Countries***Chair:* B.R. Arora (India)*Co-Chair:* P. Muralikrishna (Brazil)**International Services**

International Service of Geomagnetic Indices, ISGI (affiliated to FAGS)

*Director:* M. Menvielle (France)

International Space Environment Service, ISES (affiliated to FAGS)

*Director:* D. Boteler (Canada)*Deputy* H. Lundstedt (Sweden)*Director:***IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes**<http://yochi.iord.u-tokai.ac.jp/emsev/>*Chair:* S. Uyeda (Japan)*Secretary:* T. Nagao (Japan)*IAGA Liaison:* J. Zlotnicki (France)*IAGA WG I-2 Liaison:* Y. Ogawa (Japan)



### **PAST IAGA PRESIDENTS**

1919-1922	A. Tanakadate (Japan)
1922-1927	C. Chree (U.K.)
1927-1930	L.A. Bauer (U.S.A.)
1930-1948	J.A. Fleming (U.S.A.)
1948-1951	S. Chapman (U.K.)
1951-1954	J. Coulomb (France)
1954-1957	J. Bartels (F.R. Germany)
1957-1960	J. Kaplan (U.S.A.)
1960-1963	V. Laursen (Denmark)
1963-1967	M. Nicolet (Belgium)
1967-1971	T. Nagata (Japan)
1971-1975	V.A. Troitskaya (U.S.S.R.)
1975-1979	J. Roederer (U.S.A.)
1979-1983	K.D. Cole (Australia)
1983-1987	D.I. Gough (Canada)
1987-1991	R.E. Gendrin (France)
1991-1995	D. J. Williams (U.S.A.)
1995-1999	M. Kono (Japan)
1999-2003	D.J. Kerridge (U.K.)

### **PAST IAGA GENERAL SECRETARIES**

1919-1927	L.A. Bauer (U.S.A.)
1927-1933	Ch. Maurain (France)
1933-1936	M.D. La Cour (Denmark)
1936-1939	A.H.R. Goldie (U.K.)
1939-1951	J.W. Joyce (U.S.A.)
1951-1957	V. Laursen (Denmark)
1957-1963	J.O. Cardus (Spain)
1963-1975	L. Alldredge (U.S.A.)
1975-1983	N. Fukushima (Japan)
1983-1995	M. Gadsden (U.K.)
1995-1999	J.A. Joselyn (U.S.A.)
1999-2001	H.W. Kroehl (U.S.A.)
2001-	B. Hultqvist (Sweden)

## V. International Association of Hydrological Sciences (IAHS)

### Association Internationale des Sciences Hydrologiques (AISH)

<http://www.cig.ensmp.fr/~iahs>

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, 1999-2003

<i>President:</i>	K. Takeuchi (Japan) (2001-2005)
<i>Vice-Presidents:</i>	L. Gottschalk (Norway) L. Oyebande (Nigeria) C. Tucci (Brazil)
<i>Secretary-General:</i>	P. Hubert (France)
<i>Past-President:</i>	J. Rodda (U.K.)
<i>Treasurer:</i>	C. Onstad (U.S.A.)
<i>Editor:</i>	Z. Kundzewicz (Poland)
<i>Hon. President:</i>	A.I. Johnson (U.S.A.)
<i>Chair IAHS Ltd:</i>	D.E. Walling (U.K.)

#### IAHS INTERNATIONAL COMMISSIONS

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

<i>President:</i>	A. Gustard (U.K.)
<i>Vice-Presidents:</i>	E. Servat (France), M. Shiiba (Japan), I. Shiklomanov (Russia)
<i>Secretary:</i>	S. Demuth (Germany)

##### International Commission on Groundwater (ICGW)

<i>President:</i>	Y. Rubin (U.S.A.)
<i>Past President:</i>	E.A. Sudicky (Canada)
<i>Vice-Presidents:</i>	D. Lerner (U.K.), M. Bierkens (Netherlands), A. Fiore (Italy)
<i>Secretary:</i>	N. Tase (Japan)

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

*President:* W. Froehlich (Poland)  
*Past President:* B. Hasholt (Denmark)  
*Vice-Presidents:* J. Bogen (Norway), P. Stanciu (Romania),  
W. Summer (Austria)  
*Secretary:* D. De Boer (Canada)

**International Commission on Snow and Ice (ICSI)**

*President:* H.G. Jones (Canada)  
*Past President:* E.M. Morris (United Kingdom)  
*Vice-Presidents:* E. Brun (France), J. Hagen (Norway),  
D. Qin (China)  
*Secretary:* G. Kaser (Austria)

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

*President:* J. Steenvoorden (Netherlands)  
*Past President:* N.J. Peters (U.S.A.)  
*Vice-Presidents:* P.J. Ashton (South Africa), J.R. Davis (Australia),  
V. Krysanova (Germany)  
*Secretary:* B. Webb (U.K.)

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

*President:* D. Rosbjerg (Denmark)  
*Past President:* S. Simonovic (Canada)  
*Vice-Presidents:* G. Bloeschl (Austria), M. Marino (U.S.A.),  
Xia Jun (China)  
*Secretary:* A. Schumann (Germany)

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

*President:* A. Rango (U.S.A.)  
*Vice-Presidents:* T. Koike (Japan), M. Menenti (France),  
M. Lointier (France)  
*Secretary:* A. Pietroniro (Canada)

**International Commission on Atmosphere-Soil-Vegetation Relations  
(ICASVR)**

*President:* C. Vörösmarty (U.S.A.)  
*Past President:* K.H. Jensen (Denmark)  
*Vice-Presidents:* H. Dolman (Netherlands), T. Illangasekare  
(U.S.A./Sri Lanka), S. Franks (Australia)  
*Secretary:* J. Simunek (U.S.A./Czech Rep.)

**International Commission on Tracers (ICT)**

*President:* J. McDonnell (U.S.A.)  
*Past President:* A. Dassargues (Belgium)  
*Vice-Presidents:* T. Tanaka (Japan), A. Coudrain-Ribstein (France),  
J. Turner (Australia)  
*Secretary:* C. Leibundgut (Germany)

**Joint Commission on Groundwater Seawater Interactions (with IAPSO)***President:* E.A. Kontar (Russia)**World Glacier Monitoring Service, WGMS** (affiliated to FAGS, program administered by ICSI)*Director:* W. Haeberli (Switzerland)**PAST IAHS PRESIDENTS**

1922-1933	E. Wade
1933-1936	J. Smetana (Czechoslovakia)
1936-1947	O. Lütschg (Switzerland)
1947-1948	G. Slettenmark (Sweden)
1948-1951	M. Bernard (U.S.A.)
1951-1957	J. Th. Thijsse (Netherlands)
1957-1960	H.G. Wilm (U.S.A.)
1960-1963	W. Friedrich (F.R. Germany)
1963-1967	A. Volker (Netherlands)
1967-1970	K. Szeztay (Hungary)
1970-1971	W.C. Ackermann (U.S.A.)
1971-1975	J. Rodier (France)
1975-1979	J.C.I. Dooge (Ireland)
1979-1983	M.F. Meier (U.S.A.)
1983-1987	G. Kovacs (Hungary)
1987-1991	V. Klemes (Canada)
1991-1995	U. Shamir (Israël)
1995-2001	J.C. Rodda (U.K.)
2001-2005	K. Takeuchi (Japan)

**PAST IAHS GENERAL SECRETARIES**

1922-1933	G. Magrini (Italy)
1933-1947	F. Diénert (France)
1947-1948	A. Vibert (France)
1948-1971	L.J. Tison (Belgium)
1971-1975	G. Kovacs (Hungary)
1975-1979	J. Rodier (France)
1979-1987	J.C. Rodda (U.K.)
1987-1995	H.J. Colenbrander (Netherlands)
1995-2000	G.J. Young (Canada)
2000-	P. Hubert (France)

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

<http://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 IV IUGG General Assembly (Stockholm, 1930) it became the *International Association of Meteorology*. It took the name of *International Association of Meteorology and Atmospheric Physics* at the XI IUGG General Assembly (Toronto, 1957), which later became the *International Association of Meteorology and Atmospheric Sciences*, (Association Internationale de Météorologie et des Sciences Atmosphériques) in 1993.

### **IAMAS BUREAU, 1999-2003**

<i>President:</i>	H.C. Davies (Switzerland)
<i>Secretary-General:</i>	R. List (Canada)
<i>Vice-Presidents:</i>	R.A. Vincent (Australia) R.E. Carbone (U.S.A.)

### **IAMAS EXECUTIVE COMMITTEE AND BUREAU, COMMISSION PRESIDENTS, 1999-2003**

<i>Past-President:</i>	R.A. Duce (U.S.A.)
<i>Past Secretary General:</i>	M. Kuhn (Austria)
<i>Members:</i>	G. Wu (China), A. Sumi (Japan), L. Barrie (U.S.A.), I. Mokhov (Russia),

### **IAMAS COMMISSIONS**

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

<i>President:</i>	H. Akimoto (Japan)
<i>Vice President:</i>	L. Barrie (U.S.A.)
<i>Secretary:</i>	P. Artaxo (Brazil)

#### **Atmospheric Electricity (ICAE)**

<i>President:</i>	P. Laroche (France)
<i>Secretary:</i>	S. Chauzy (France)

**Climate (ICCL)**

*President:* M.C. MacCracken (U.S.A.)  
*Secretary:* K. McGuffie (Australia)

**Clouds and Precipitation (ICCP)**

*President:* G.A. Isaac (Canada)  
*Vice-President:* Z. Levin (Israel)  
*Secretary:* D.O'C. Starr (U.S.A.)

ICCP - Committee on Nucleation and Atmospheric Aerosols

*Chairman:* M. Kulmala (Finland)

**Dynamic Meteorology (ICDM)**

*President:* N.O. Jensen (Denmark)  
*Secretary:* M.J. Alexander (U.S.A.)

**Middle Atmosphere (ICMA)**

<http://imina.soest.hawaii.edu/~kph/ICMA.html>

*President:* K. Hamilton (U.S.A.)  
*Secretary:* F.J. Luebken (Germany)

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

*President:* F.W. Taylor (U.K.)  
*Secretary:* T. Johnson (U.S.A.)

**Polar Meteorology (ICPM)**

*President:* J. Turner (U.K.)  
*Secretary:* A. Carleton (U.S.A.)

**Ozone (IOC)**

*President:* R.D. Hudson (U.S.A.)  
*Vice President:* T. Ogawa (Japan)  
*Secretary:* C. Zerefos (Greece)

**Radiation (IRC)**

<http://cimss.ssec.wisc.edu/irc/>

<http://www.ccsr.u-tokyo.ac.jp/~ishii/IRC/>

*President:* H. Fischer (Germany)  
*Vice President:* T. Nakajima (Japan)  
*Secretary:* R. Ellingson (U.S.A.)

### **PAST IAMAS PRESIDENTS**

1919-1930	N. Shaw (U.K.)
1930-1936	A. Wallen (Sweden)
1936-1948	S. Chapman (U.K.)
1948-1951	J. Bjerknes (U.S.A.)
1951-1954	K.R. Ramanathan (India)
1954-1957	C.G. Rossby (Sweden)
1957-1960	J. Van Mieghem (Belgium)
1960-1963	H.R. Byers (U.S.A.)
1963-1967	A.M. Oboukhov (U.S.S.R.)
1967-1971	R.C. Sutcliffe (U.K.)
1971-1975	S. Fritz (U.S.A.)
1975-1979	Ch. Junge (F.R.Germany)
1979-1983	W.L. Godson (Canada)
1983-1987	H.J. Bolle (Austria)
1987-1991	G.B. Tucker (Australia)
1991-1995	B.J. Hoskins (U.K.)
1995-1999	R.A. Duce (U.S.A.)
1999-2003	H.C. (Huw) Davies (Switzerland)

### **PAST IAMAS GENERAL SECRETARIES**

1919-1922	M. Marvin
1922-1927	F. Eredia (Italy)
1927-1936	Ph. Werhlé (France)
1936-1948	J. Bjerknes (U.S.A.)
1948-1954	J. Van Mieghem (Belgium)
1954-1960	R.C. Sutcliffe (U.K.)
1960-1975	W.L. Godson (Canada)
1975-1987	S. Ruttenberg (U.S.A.)
1987-1995	M. Kuhn (Austria)
1995-	R. List (Canada)

## VII. International Association of the Physical Sciences of the Ocean (IAPSO) Association Internationale des Sciences Physiques de l'Océan (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 EXECUTIVE BUREAU 1999-2003

*President:* P. Rizzoli (U.S.A.)  
*Secretary-General:* F.E. Camfield (U.S.A.)

### IAPSO EXECUTIVE COMMITTEE 1999-2003

*Vice-Presidents:* J.A. Johnson (U.K.),  
S. Krishnaswami (India)  
*Deputy Secretary General:* M.C. Piccolo (Argentina)  
*Members:* M. Astraldi (Italy)  
K. Le (China)  
S. Imawaki (Japan)  
A. Zielinski (Poland)  
E.G. Morozov (Russia)  
D. Smythe-Wright (U.K.)  
*Past-President:* L.V. Shannon (South Africa)

### IAPSO COMMISSIONS

#### Mean Sea-Level & Tides

*President:* C. Le-Provost (France)

#### Cooperation with Developing Countries

*President:* S.R.V. Durvasula (Canada)

### JOINT COMMISSIONS

#### Tsunami Commission (Joint with IASPEI and IAVCEI)

*President:* V.K. Gusiakov (Russia)  
*Liaison:* F. Camfield (U.S.A.)



**Commission on Groundwater Seawater Interactions (Joint with IAHS)**

*President:* E.A. Kontar (Russia)

**IAPSO/SCOR Working Group 121 on Deep Ocean Mixing**

*Chairperson:* R.D. Muench (USA)

**SERVICES**

**Permanent Service for Mean Sea Level (affiliated to FAGS)**

*Director:* P.L. Woodworth (U.K.)

**IAPSO Standard Seawater Service**

*Director:* P.S. Ridout (U.K.)

**PAST IAPSO PRESIDENTS**

1919-1922	S.A.S. Prince Albert 1er (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 (U.K.)
1954-1960	H. Mosby (Norway)
1960-1963	G.E.R. Deacon (U.K.)
1963-1967	R. Revelle (U.S.A.)
1967-1970	G. Dietrich (F.R. Germany)
1970-1975	H. Lacombe (France)
1975-1979	R.W. Stewart (Canada)
1979-1983	D. Lal (India)
1983-1987	W.M. Krauss (F.R. Germany)
1987-1991	J.-J. O'Brien (U.S.A.)
1991-1996	R.D. Muench (U.S.A.)
1996-1999	L.V. Shannon (South Africa)
1999-2003	P. Rizzoli (U.S.A.)

**PAST IAPSO GENERAL SECRETARIES**

1919-1930	G. Magrini (Italy)
1930-1948	J. Proudman (U.K.)
1948-1951	H. Mosby (Norway)
1951-1954	R.H. Fleming (U.S.A.)
1957-1963	B. Kullenberg (Sweden)
1963-1967	I. Hela (Finland)
1967-1970	A.E. Maxwell (U.S.A.)
1970-1987	E.C. LaFond (U.S.A.)
1987-1995	R.E. Stevenson (U.S.A.)
1995-	F. E. Camfield (U.S.A.)

## VIII. 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*, n° 15, Première Partie, pp. 12-28, and *Fifty Years of the International Association of Seismology* (1901-1951) by J.-P. Rothé (18 pages).

### IASPEI BUREAU 1999-2003

<i>President:</i>	B.L.N. Kennett (Australia)
<i>First Vice-President:</i>	D. Giardini (Switzerland)
<i>Second Vice-President:</i>	T. Yagi (Japan)
<i>SecretaryGeneral/Treasurer:</i>	E.R. Engdahl (U.S.A.)
<i>Associate Secretary General</i>	P. Suhadolc (Italy)

### IASPEI EXECUTIVE COMMITTEE 1999-2003

<i>Members:</i>	U. Christensen (Germany), D. Comte (Chile), E.R. Engdahl (U.S.A.), C. Froidevaux (France), D. Giardini (Switzerland), B.L.N. Kennett (Australia), B. Romanowicz (U.S.A.), T. Yagi (Japan), Z. Wu (China)
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## **IASPEI REPRESENTATIVES TO OTHER GROUPS**

IAGA/IASPEI Working Group on the Re-Use of Submarine Telephone Cables:  
Representative: J. Kasahara (Japan)

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission:  
Representative: K. Satake (Japan)

IAU/IUGG Working Group on Non-Rigid Earth Mutations:  
Representative: B.A. Buffett (Canada)

ICSU Panel on World Data Centers:  
Representative: T. Ahern (U.S.A.)

ISC Executive Committee:  
Representative: O.Y. Starovoit (Russia)

IUGG Committee for Mathematical Geophysics:  
Representative: Y. Ben-Zion (U.S.A.)

SCAR (Solid Earth Geophysical Working Group):  
Representative: S.K. Verma (India)

## **IASPEI COMMISSIONS**

### **Commission on Physics and Chemistry of Earth Materials (Joint with IAVCEI)**

*Chair:* D.B. Dingwell (Germany)  
*Vice-Chair:* S. Franck (Germany)  
*Secretary:* S.L. Webb (Germany)

### **Commission on Volcano Seismology (Joint with IAVCEI)**

*Acting Co-Chairs:* B. Chouet (U.S.A.), Y. Ida (Japan)

### **International Heat Flow Commission**

*Chair:* I.T. Kukkonen (Finland)  
*Vice-Chair:* D.S. Chapman (U.S.A.)  
*Past Chair:* V. Cermak (Czech Republic)  
*Secretary:* C. Clauser (Germany)  
*Vice-Secretary:* J. Safanda (Czech Republic)

### **Commission on Tectonophysics**

*Acting Chair:* D. Comte (Chile)

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

*Chair:* K. Fuchs (Germany)

### **Commission on Earthquake Hazard, Risk and Strong Ground Motion**

*Chair:* Z. Wu (China)  
*Members:* Y.T. Chen (China), G.F. Panza (Italy),  
K. Shedlock (U.S.A.)

**Commission on Earth Structure and Geodynamics**

*Co-Chairs:* U. Christensen (Germany)  
B. Romanowicz (U.S.A.)

**Working Group on Reference Earth Models**

*Chair:* G. Laske (U.S.A.)

**Working Group on Subduction Zones Located in Developing Countries**

*Chair:* S. Widiyantoro (Indonesia)  
*Vice Chair:* J.C. Clavero (Chile)  
*Members:* D. Hidayat (USA), J.M. Lindsay (Trinidad),  
D. Natawidjaja (USA), B. Bautista (Philippines)

**Commission on Seismological Observation and Interpretation**

*Chair:* J. Havskov (Norway)  
*Secretary:* P. Bormann (Germany)

**Working Group on Reference Events**

*Chair:* E.R. Engdahl (U.S.A.)  
*Members:* E.A. Bergman (U.S.A.), I. Bondar (U.S.A.),  
P. Firbas (Austria)

**Working Group on Standard Phase Names**

*Chair:* D.A. Storchak (UK)  
*Members:* P. Bormann (Germany), E.R. Engdahl (U.S.A.), J.  
Havskov (Norway), B.L.N Kennett (Australia), J.  
Schweitzer (Norway)

**Working Group on Magnitude Measurements**

*Chair:* J. Pewey (U.S.A.)  
*Members:* P. Bormann (Germany), S. Gregersen (Denmark)

**Working Group on Multiple Event Location**

*Chair:* P.G. Richards (U.S.A.)  
*Members:* E.R. Engdahl (U.S.A.), Ray Willemann (UK)

**Task Group on Scattering and Heterogeneity**

*Chair:* R.S. Wu (U.S.A.)

**Commission on Earthquake Sources - Prediction and Modelling**

*Acting Chair:* K. Satake (Japan)

**Commission on Education and Outreach**

*Acting Chair:* D. Jackson (U.S.A.)  
*Members:* P. Bormann (Germany), G. Gibson (Australia),  
V.M. Hamza (Brazil), A. El-Sayed (Egypt),  
J. Taber (U.S.A.)

### **International Commission on Earth Sciences in Africa**

*Chair:* A. Kampunzu (Zaire)  
*Vice-Chair:* S. Abdelsalaam (Sudan)  
*Secretary-General:* F. Tembo (Zambia)  
*Treasurer:* S. McCourt (South Africa)

### **Asian Seismological Commission**

*President:* S. Balassanian (Armenia)  
*First Vice-President:* D.A. Rhoades (New Zealand)  
*Second Vice-President:* M.R. Gheitanchi (Iran)  
*Secretary-General:* C. Zhu (China)

### **European Seismological Commission**

*President:* C. Eva (Italy)  
*Vice-Presidents:* B. Feignier (France), J. Zschau (Germany)  
*Secretary-General:* M.G. Fernandez (Spain)  
*Asst. Secretary-General:* A.B. Walker (UK)

### **Federation of Digital Broadband Seismograph Networks**

*Chair:* D. Giardini (Switzerland)  
*Secretary:* T. Ahern (U.S.A.)  
*Liaison:* R. van der Hilst (U.S.A.)

### **International Ocean Network**

*Chair:* B. Romanowicz (U.S.A.)

### **IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes**

<http://yochi.iord.u-tokai.ac.jp/emsev/>

*Chair:* S. Uyeda (Japan)  
*Secretary:* T. Nagao (Japan)  
*IASPEI Liaison:* M. Johnston (U.S.A.)

**PAST IASPEI PRESIDENTS**

1907	L. Palazzo (Italy)
1907-1911	A. Schuster (U.K.)
1911-1916	B. Galitzin (Russia)
1916-1922	G. Lecointe (Belgium)
1922-1930	H.H. Turner (U.K.)
1930-1936	E. Oddone (Italy)
1936-1940	N.H. Heck (U.S.A.)
1940-1951	R. Stoneley (U.K.)
1951-1954	B. Gutenberg (U.S.A.)
1954-1957	K.E. Bullen (Australia)
1957-1960	H. Jeffreys (U.K.)
1960-1963	P. Byerly (U.S.A.)
1963-1967	J. Hodgson (Canada)
1967-1971	K. Wadati (Japan)
1971-1975	V.A. Magnitsky (U.S.S.R.)
1975-1979	H. Berckhemer (F.R. Germany)
1979-1983	B.A. Bolt (U.S.A.)
1983-1987	Z. Suzuki (Japan)
1987-1991	St. Müller (Switzerland)
1991-1995	A.V. Nikolaev (Russia)
1995-1999	C. Froidevaux (France)
1999-2003	B.L.N. Kennett (Australia)

**PAST IASPEI GENERAL SECRETARIES**

1907-1922	R. de Kovesligethy (Hungary)
1922-1942	E. Rothé (France)
1942-1971	J.P. Rothé (France)
1971-1979	J.C. de Bremaecker (U.S.A.)
1979-1991	R.D. Adams (U.K.)
1991-	E.R. Engdahl (U.S.A.)

## **IX. 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>	R.S.J. Sparks (U.K.)
<i>Vice-Presidents:</i>	J. Keller (Germany) T. Ui (Japan)
<i>Secretary-General:</i>	S. McNutt (U.S.A.)
<i>Members:</i>	T. Fujii (Japan) B. Houghton (New Zealand) J. McPhie (Australia) H. Moreno-Roa (Chile) R. Sukhyar (Indonesia)
<i>Past-President:</i>	G. Heiken (U.S.A.)
<i>Editor BV:</i>	T. Druitt (France)
<i>Deputy Sec.-Gen.:</i>	J. Gardner (U.S.A.)
<i>Membership</i>	C. Giddings (Australia)
<i>Secretariat:</i>	
<i>Administrative</i>	J. Risse (U.S.A.)
<i>Assistant:</i>	

### **IAVCEI COMMISSIONS**

#### **Commission on Physics and Chemistry of Earth Materials (joint with IASPEI)**

<i>Co-Leaders:</i>	D.B. Dingwell (Germany)
<i>Vice-Chair:</i>	S. Franck (Germany)
<i>Secretary:</i>	S.L. Webb (Australia)

#### **Commission on Granites**

<i>Leader:</i>	N. Petford (UK)
<i>Secretary:</i>	S. Singh (India)

**Commission on Large-Volume Basaltic Provinces**

*Leader:* M. Menzies (U.K.)  
*Secretary:* J.R. Hopper (Denmark)

**Commission on the Chemistry of Volcanic Gases**

*Leader:* M. Martini (Italy)  
*Secretary:* J. Hirabayashi (Japan)  
*Newsletter Editor:* H. Shinohara (Japan)

**Commission on Volcanic Lakes**

*Leader:* J.C. Varekamp (U.S.A.)  
*Secretary:* A. Bernard (Belgium)

**Commission on Explosive Volcanism**

*Co-Leaders:* P. Cole (U.K.)  
G. Giordano (Italy)

**Commission on Volcanogenic Sedimentation**

*Co-Leaders:* I. Skilling (South Africa)  
J. White (New Zealand)

**Commission on Volcanism and the Earth's Atmosphere**

*Leader:* G. Zielinski (U.S.A.)  
*Secretary:* A. Robock (U.S.A.)

**Commission on Remote Sensing**

*Leader:* D. Rothery (U.K.)  
*Secretary:* T. Kaneko (Japan)  
*Newsletter Editor:* S.K. Rowland (U.S.A.)

**Commission on Volcanic Seismology**

*Co-Leaders:* B Chouet (U.S.A.)  
Y Ida (Japan)  
*Secretary:* H Benz (U.S.A.)

**World Organization of Volcano Observatories**

*Leader:* C Newhall (U.S.A.)

**Commission on Mitigation of Volcanic Disasters**

*Leader:* G Orsi (Italy)  
*Secretary:* C Siebe (Mexico)

**Commission on Arc Magmatism**

*Co-Leaders:* J Davidson (U.K.)  
J Gamble (New Zealand)

**International Heat Flow Commission (joint with IASPEI and IAPSO)**

*Leader:* I.T. Kukkonen (Finland)  
*Secretary:* C. Clauser (Germany)



**Tsunami Commission (Joint with IAPSO and IASPEI)**

*President:* V.K. Gusiakov (Russia)  
*Liaisons:* Y. Nishimura (Japan)

**IGAG/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes**

<http://yochi.iord.u-tokai.ac.jp/emsev/>

*Chair:* S. Uyeda (Japan)  
*Secretary:* T. Nagao (Japan)  
*IAVCEI Liaison:* M. Johnston (U.S.A.)

**PAST IAVCEI PRESIDENTS**

1919-1922	A. Ricco (Italy)
1922-1927	A. Lacroix (France)
1927-1933	A. Malladra (Italy)
1933-1936	C.A. Ktenas (Greece)
1936-1948	A. Michel-Lévy (France)
1948-1954	G.B. Escher (Netherlands)
1954-1963	A. Rittmann (Switzerland/Italy)
1963-1967	H. Kuno (Japan)
1967-1971	G.A. MacDonald (U.S.A.)
1971-1975	G.S. Gorshkov (U.S.S.R.)
1975-1979	R.W. Decker (U.S.A.)
1979-1983	S.A. Fedotov (U.S.S.R.)
1983-1987	I.G. Gass (U.K.)
1987-1991	S. Aramaki (Japan)
1991-1995	P. Gasparini (Italy)
1995-1999	G. Heiken (U.S.A.)
1999-2003	R.S.J. Sparks (U.K.)

**PAST IAVCEI GENERAL SECRETARIES**

1919-1936	A. Malladra (Italy)
1936-1960	F. Signore (Italy)
1960-1967	F. Penta (Italy)
1967-1975	P. Evrard (Belgium)
1975-1983	P.E. Baker (U.K.)
1983-1991	H.U. Schmincke (F.R. Germany)
1991-1999	R.W. Johnson (Australia)
1999-	S.R. McNutt (U.S.A.)

## **X. NATIONAL COMMITTEES, ADHERING ORGANIZATIONS, NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

### **ANNUAIRE 2003 YEARBOOK**

The composition of the National Committees and, in consequence, the names of the officially accredited national representatives to the Union and its seven Associations are in conformity with what was communicated to us in 2002.

La composition des Comités Nationaux et par voie de conséquence les noms des représentants nationaux officiellement accrédités auprès de l'Union et de ses sept Associations sont conformes à ce qui nous a été communiqué en 2002.

**ALGERIA – ALGERIE****Adhering Organization**

Centre de Recherche en Astronomie Astrophysique et Geophysique  
Boite Postale 63  
16340 BOUZAREAH DZ

**NATIONAL COMMITTEE**

**President:** Abdelkarim YELLES-CHAOUCHE

**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

<b>IAG:</b>	Ali HALIMA- MANSOUR	<b>IAMAS:</b>	Athmane ZEHAR
<b>IASPEI:</b>	Abdelkarim YELLES- CHAOUCHE	<b>IAHS:</b>	Abdelmadjid DEMMAK
<b>IAVCEI:</b>		<b>IAPSO:</b>	Mustapha BOULAHIDID
<b>IAGA:</b>	Abdelkader ABTOUT		

**ARGENTINA - ARGENTINE****Adhering Organization**

Comite Nacional de la Union Geodesica y Geofisica Internacional  
Cabildo 381  
1426 Buenos Aires

**NATIONAL COMMITTEE**

**President:** Cnl. Ing. Mil. Agrim. Fernando Miguel GALBAN

**Executive Vice-President:** Dra. Corina RISSO

**Second Vice-President:** Lic. Nora C. SABBIONE

**Secretary General:** Agrim. Rubén Carlos RAMOS

**Assistant Secretary General:** Agrim. Sergio Rubén CIMBARO

**Treasurer:** Licenciada Maria Josefa FIORITI

[www.igm.gov.ar](http://www.igm.gov.ar)

**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

<b>IAG:</b>	Eduardo Andres LAURIA	<b>IAMAS:</b>	Manuel Hipólito PICASSO
<b>IASPEI:</b>	Nora SABBIONE	<b>IAHS:</b>	Maria Josefa FIORITI
<b>IAVCEI:</b>	Corina RISSO	<b>IAPSO:</b>	Gerardo M.E. PERILLO
<b>IAGA:</b>	Cristina POMPOSIELLO		

**REPUBLIC OF ARMENIA  
RÈPUBLIQUE DE ARMENIA**

**Adhering Organization**

National Survey for Seismic Protection  
Government of the Republic of Armenia  
Davidashen Massiv 4  
375054 YEREVAN  
[office@nssp-gov.am](mailto:office@nssp-gov.am)  
<http://www.nssp-gov.am>

**NATIONAL COMMITTEE**

**President:** Serguei BALASSANIAN  
**Secretary:** Sergey NAZARETYAN

**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

<b>IAG:</b>		<b>IAMAS:</b>	Gennady KOJOYAN
<b>IASPEI:</b>	Avetis ARAKELYAN	<b>IAHS:</b>	Vladimir BOYNAGRIAN
<b>IAVCEI:</b>		<b>IAPSO:</b>	
<b>IAGA:</b>	Samvel HOVHANISSIAN		

**AUSTRALIA - AUSTRALIE**

**Adhering Organization**

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

T: 61 2 6247 5777

F: 61 2 6257 4620

**NATIONAL COMMITTEE**

**National Relations Officer:**

**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

<b>IAG:</b>	Richard COLEMAN	<b>IAMAS:</b>	A. HENDERSON-SELLERS
<b>IASPEI:</b>	David DENHAM	<b>IAHS:</b>	Jetse D. KALMA
<b>IAVCEI:</b>	Ray CAS	<b>IAPSO:</b>	Ian S.F. JONES
<b>IAGA:</b>	B.J. FRASER		

**AUSTRIA - AUTRICHE**

**Adhering Organization**

Österreichische Akademie der Wissenschaften  
Dr. Ignaz-Seipel-Platz 2  
A 1010 Vienna

**NATIONAL COMMITTEE**

**President:** Siegfried J. BAUER

**Secretary:** Christoph TWAROCH

**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

<b>IAG:</b>	Erhard ERKER	<b>IAMAS:</b>	Michael KUHN
<b>IASPEI:</b>	Wolfgang LENHARDT	<b>IAHS:</b>	Franz NOBILIS
<b>IAVCEI:</b>	Gerhard MAYER	<b>IAPSO:</b>	Heinz LÖFFLER
<b>IAGA:</b>	Siegfried J. BAUER Peter STEINHAUSER		

**BELGIUM - BELGIQUE**

**Adhering Organization**

The Royal Academies of Science and the Arts of Belgium  
Palais des Academies-Palais der Academien  
Hertogsstraat 1 rue Ducale  
B-1000 BRUSSELS

**NATIONAL COMMITTEE**

**President:** André L. BERGER

**Vice-President:** Etienne ARIJS

**Secretary:** Bernard DUCARME

**Adjunct Secretary:** Dirk DE MUER

**Contact Staffperson:** Reinout VAN VAERENBERGH

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In compliance with the EU General Data Protection Regulation, the address data on pages 91-197 have been removed from the digital edition of the IUGG Yearbook 2003.

**LIST OF ACRONYMS**

ABLOS	Advisory Board on Hydrographic, Geodetic and Marine Geo-Scientific Aspects of the Law of the Sea
AGU	American Geophysical Union
BGI	International Gravimetric Bureau
BIPM	Bureau International des Poids et Mesures
CODATA	Committee on Data for Science and Technology
COPSAR	Committee on Space Research
COSTED	Committee on Science and Technology in Developing Countries
EGS	European Geophysical Society
EMSEV	IASPEI/IAGA/IAVCEI Inter-Associations Commission on Electromagnetic Studies of Earthquakes and Volcanoes
FAGS	Federation of Astronomical and Geophysical Data Analysis Services
GALOS	Geodetic Aspects of the Law of the Sea
GOOS	Global Ocean Observing System
GTF	Geophysics: The Future, Inter-Associations Working Group
IAG	International Association of Geodesy
IAGA	International Association of Geomagnetism and Aeronomy
IAHS	International Association of Hydrological Sciences
IAMAS	International Association of Meteorology and Atmospheric Sciences
IAPSO	International Association for the Physical Sciences of the Ocean
IASPEI	International Association of Seismology and Physics of the Earth's Interior
IAU	International Astronomical Union
IAVCEI	International Association of Volcanology and Chemistry of the Earth's Interior
IBN	International Biosciences Networks
ICET	International Council of Earth Tides
ICSU	International Council for Scientific
IERS	International Earth Rotation Service
IGBP	International Geosphere-Biosphere Programme
IgeS	International Geoid Service
ILP	International Lithosphere Program
IPGH	Instituto Panamericano de Geografia Historia (also PAIGH)
ISGI	International Service of Geomagnetism Indices
IOCA	International Civil Aviation Organization
IUGG	International Union of Geodesy and Geophysics
IUGS	International Union of Geological Sciences
PAIGH	PanAmerican Institute of Geography and History

**LIST OF ACRONYMS (continued)**

PSMSL	Permanent Service for Mean Sea Level
SCAR	Scientific Committee on Antarctic Research
SCL	Scientific Committee on the Lithosphere
SCOPE	Scientific Committee on Problems of the Environment
SCOR	Scientific Committee on Ocean Research
SCOSTEP	Scientific Committee on Solar-Terrestrial Physics
SCOWAR	Scientific Committee on Water Research
SEDI	Study of the Deep Interior of the Earth
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
URSI	Union Radio Scientifique Internationale
WCRP	World Climate Research Programme
WDC	World Data Centre
WGMS	World Glacier Monitoring Service
WMO	World Meteorological Organization