

**Annuaire U.G.G.I.
Janvier 2004**

**Published by Secretary General
J.A. Joselyn**

**I.U.G.G. Yearbook
January 2004**

**Union Géodésique et Géophysique Internationale
International Union Geodesy and Geophysics**

No ISSN: 1038-3846

TABLE OF CONTENTS TABLE DES MATIÈRES

YEAR 2004

I.	International Union of Geodesy and Geophysics Union Géodésique et Géophysique Internationale	3
	Table of Member Adhering Bodies	9
	Table of Regional Distribution of Members	11
	Table of General Assemblies	11
	Current Officials of IUGG	11
	IUGG Liaison Officers and Representatives	12
	Past Officers of IUGG Bureau	13
	Past Officers of IUGG Finance Committee	14
	Inter Association Committees and Commissions	15
II.	International Associations Associations Internationale Table of Scientific Assemblies	16 16
III.	International Association Of Geodesy (IAG) Association Internationale De Géodésie (AIG)	18
IV.	International Association of Geomagnetism and Aeronomy (IAGA) Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)	20
V.	International Association of Hydrological Sciences (IAHS) Association Internationale des Sciences Hydrologiques (AISH)	23
VI.	International Association of Meteorology and Atmospheric Sciences (IAMAS) Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)	26
VII.	International Association of the Physical Sciences of the Ocean (IAPSO) Association Internationale des Sciences Physiques de l'Océan (AISPO)	28
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)	30
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)	33
X.	National Committees Comités Nationaux	35
XI.	Addresses Adresses	57
XII.	List of Acronyms	120

*Publication of the IUGG Yearbook is supported by funds provided under the
US National Science Foundation, Award No. GEO-0001695.*

I. INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

UNION GÉODÉSIQUE ET GÉOPHYSIQUE INTERNATIONALE

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 27 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 2003, 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.

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 27 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 2003, 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 XXIV^e (24^e). Elle se tiendra à Perugia, au Italie, en 2007. 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 XXIII Assemblée Générale, en 2003, 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 XXIV (24th) in Perugia, Italy, in 2007. 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 XXIII General Assembly in 2003 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 quatre personnes élues 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 four 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:

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. 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 2003, 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 Problems of the Environment*.

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. 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 2003 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 Problems of the Environment*.

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 2004 la valeur d'une unité de cotisation est de 1.485 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 2004 is \$1,485. 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.

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY	UNITS
ALBANIA	1997-2002, 2003	A	0
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>	<i>1960-2000</i>		
BOSNIA & HERCEGOVINA	2003	A	0
BRAZIL	1922	3	3
BULGARIA	1930	1	1
<i>BURUNDI</i>	<i>1987-1995</i>		
CANADA	1919	6	10
CHILE	1924	2	2
CHINA	1977	6	10
CHINA - Acad. of Sciences in Taipei	1995	4	5
COLOMBIA	1938-1971, 2000	1	1
CROATIA	1992	1	1
<i>CUBA</i>	<i>1960-1996</i>		
CZECH REPUBLIC	1993	2	2
<i>CZECHOSLOVAKIA</i>	<i>1924-1993</i>		
DENMARK	1923	4	5
<i>DOMINICAN REP.</i>	<i>1957-1971</i>		
EGYPT	1924	2	2
ESTONIA	1991	1	1
<i>ETHIOPIA</i>	<i>1952-2000</i>		
FINLAND	1927	3	3
FRANCE	1919	7	15
<i>GERMANY /DEM.REP/</i>	<i>1964-1990</i>		
GERMANY	1951	8	20
<i>GHANA</i>	<i>1957-1987</i>		
<i>GREECE</i>	<i>1922-2003</i>		
<i>GUATEMALA</i>	<i>1957-2000</i>		
<i>GUINEA</i>	<i>1987-1995</i>		
<i>HAITI</i>	<i>1956-1971</i>		
HUNGARY	1930	2	2
ICELAND	1967	1	1
INDIA	1947	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>		
<i>LEBANON</i>	<i>1967-2003</i>		
<i>LIBYA</i>	<i>1979-1996</i>		
LUXEMBOURG	1971	1	1

Table 1 (continued): Member Adhering Bodies of IUGG

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY	UNITS
<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>		
MAURITIUS	2003	A	0
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)	1957-2003		
<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	A	0
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
<i>SAUDI ARABIA</i>	<i>1971-2001</i>		
<i>SENEGAL</i>	<i>1960-1995</i>		
SERBIA & MONTENEGRO (**)	1996	A	0
<i>SIERRA LEONE</i>	<i>1967-1983</i>		
SLOVAK REPUBLIC	1993	1	1
SLOVENIA	1994	1	1
SOUTH AFRICA	1924	3	3
SPAIN	1922	5	7
<i>SUDAN</i>	<i>1955-2000</i>		
SWEDEN	1923	4	5
SWITZERLAND	1923	3	3
<i>SYRIA</i>	<i>1948-1995</i>		
<i>TANZANIA</i>	<i>1975-2000</i>		
THAILAND	1923	2	2
<i>TUNISIA</i>	<i>1927-2001</i>		
TURKEY	1949	2	2
U.K.	1919	8	20
<i>URUGUAY</i>	<i>1924-2000</i>		
U.S.A.	1919	11	35
<i>U.S.S.R.</i>	<i>1954-1992</i>		
VENEZUELA	1975	1	1
VIETNAM	1931	1	1
<i>YUGOSLAVIA (*)</i>	<i>1924-1991</i>		
<i>ZAIRE</i>	<i>1991-1997</i>		
<i>ZIMBABWE</i>	<i>1967-2000</i>		

(*) *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.*

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

Table 2: Regional Distribution of Members

REGION	# OF MEMBERS
Africa	6
Asia	15
Europe	32
North and Central America	3
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
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			

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

CURRENT OFFICIALS OF IUGG

Bureau of the Union

<i>President:</i>	Uri Shamir	ISRAEL
<i>Vice-President:</i>	Tom Beer	AUSTRALIA
<i>Secretary General:</i>	Jo Ann Joselyn	USA
<i>Treasurer:</i>	Aksel W. Hansen	DENMARK
<i>Members:</i>	Yun-tai Chen	CHINA
	Harsh Gupta	INDIA
	Ali A.A. Tealeb	EGYPT

The following Officers are not voting Members of the Bureau:

<i>Assistant Secretary General:</i>	Ryan F. Aucone	USA
<i>Assistant Treasurer:</i>	Anders 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, M. Kono (JAPAN)
- the Presidents of the International Associations:

<i>IAG:</i>	Gerhard Beutler	SWITZERLAND
<i>IAGA:</i>	Charles Barton	AUSTRALIA
<i>IAHS:</i>	Kuniyoshi Takeuchi	JAPAN
<i>IAMAS:</i>	Michael C. MacCracken	USA
<i>IAPSO:</i>	Shiro Imawaki	JAPAN
<i>IASPEI:</i>	E. Robert Engdahl	USA
<i>IAVCEI:</i>	Oded Navon	ISRAEL

Finance Committee of the Union

<i>Chair:</i>	Michael J. Hamlin	UNITED KINGDOM
<i>Members:</i>	David D. Jackson	USA
	Brian L.N. Kennett	AUSTRALIA
	Kiyoshi Suyehiro	JAPAN
	Juan Francisco Vilas	ARGENTINA

IUGG Electronic Bulletin Board

Webmaster: Julie McKie USA

IUGG Liaison Officers With Intergovernmental Organizations

Cartographic Office of the United Nations: Juhani Kakkuri FINLAND
United Nations Educational, Scientific and Cultural Organization (UNESCO):
International Hydrological Programme: Pierre Hubert FRANCE
International Oceanographic Commission: Paola Rizzoli ITALY/USA
World Meteorological Organization (WMO): Roland List CANADA
 Pierre Hubert FRANCE

IUGG Representatives on ICSU Committees

Committee on Space Research (COSPAR):
 Eigil Friis-Christensen DENMARK
Committee on Science and Technology in Developing Countries - incorporating International Biosciences and other Scientific Networks (COSTED/IBN): Harsh Gupta INDIA
Federation of Astronomical and Geophysical Data Analysis Services (FAGS):
 David T. Pugh UNITED KINGDOM
 Ruth Neilan USA
Scientific Committee for the International Geosphere-Biosphere Programme (IGBP):
 Tom Beer AUSTRALIA
Scientific Committee on Antarctic Research (SCAR):
 Roland Schlich FRANCE
Scientific Committee on the Problems of the Environment (SCOPE):
 Norman Jake Peters USA
Scientific Committee on Oceanic Research (SCOR):
President IAMAS: Michael C. MacCracken USA
President IAPSO: Shiro Imawaki JAPAN
Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):
 Wolfgang Baumjohann AUSTRIA
World Climate Research Programme (WCRP):
 Roland List CANADA

IUGG Representatives on Inter-Union Commissions
Inter-Union Scientific Committee on the Lithosphere (SCL/ILP):
 E. Robert Engdahl USA

IUGG Representatives on Other Bodies

International Civil Aviation Organization (ICAO):
 William I. Rose USA
Instituto Panamericano de Geografia e Historia (IPGH):
 Wolfgang Torge GERMANY

NATIONAL REPRESENTATIVES ACCREDITED TO THE COUNCIL OF THE IUGG**23rd General Assembly, Sapporo (JAPAN), June 30 – July 11, 2003**

E. Rovere (ARGENTINA), J.F. Vilas (ARGENTINA), C. Barton (AUSTRALIA), M. Kuhn (AUSTRIA), A.L. Berger (BELGIUM), D. Blitzkow (BRAZIL), L.P.S. Fortes (BRAZIL), D. Jordanova (BULGARIA), H. Jorjani (CANADA), R.E. Stewart (CANADA), P.G. Lopez (CHILE), C. Zhu (CHINA), C.H. Liu (CHINA-TAIPEI), Y.H. Yeh (CHINA-TAIPEI), L.S. Rodriguez (COLOMBIA), M. Orlic (CROATIA), V. Cermak (CZECH REPUBLIC), S. Gregersen (DENMARK), A.A. Ashour (EGYPT), R. Room (ESTONIA), J. Kakkuri (FINLAND), P. Malkki (FINLAND), J.P. Barriot (FRANCE), M. Menvielle (FRANCE), R. Schlich (FRANCE), G. Tetzlaff (GERMANY), J. Adam (HUNGARY), P. Jonsson (ICELAND), V.P. Dimri (INDIA), G.S. Lakhina (INDIA), R.W. Matindas (INDONESIA), K.J. Villanueva (INDONESIA), M.R. Gheitanchi (IRAN), P. Lynch (IRELAND), Z. Levin (ISRAEL), L. Ubertini (ITALY), K. Irikura (JAPAN), W.M. Moon (KOREA), T. Van Dam (LUXEMBOURG), J. Urrutia-Fucugauchi (MEXICO), P.J.G. Teunissen (NETHERLANDS), D.A. Rhoades (NEW ZEALAND), B.G. Harsson (NORWAY), B.C. Bautista (PHILIPPINES), L.W. Baran (POLAND), J. Krynski (POLAND), L.A. Mendes-Victor (PORTUGAL), C.S. Sava (ROMANIA), Y.S. Tyupkin (RUSSIA), L. Globovnik (SLOVENIA), C.L. Merry (SOUTH AFRICA), J.M. Torta (SPAIN), B. Olafsdottir (SWEDEN), H. Davies (SWITZERLAND), C. Promthong (THAILAND), T. Thambumroong (THAILAND), O. Lenk (TURKEY), D.N. Collins (UNITED KINGDOM), K. Furlong (USA), D.D. Jackson (USA), T.K.T. Nguyen (VIETNAM)

Past Officers of IUGG Bureau**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)
2003-2007	U. Shamir (Israel)

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. Bjerknes (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)
2003-	T. Beer (Australia)

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 BUREAU MEMBERS

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)
2003-2007	Y.T. Chen (China) H.K. Gupta (India) A.A.A. Tealeb (Egypt)

Past Officers of IUGG Finance Committee**PAST FC 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.)
2003-2007	M. Hamlin (U.K.)

PAST FC 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)
2003-2007	

PAST FC 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. Walser (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.)
2003-2007	B.L.N. Kennett (U.K.) K. Suyehiro (JAPAN) J.F. Vilas (ARGENTINA) D. Jackson (USA)

INTER-ASSOCIATION COMMITTEES AND COMMISSIONS

Inter Associations Committee on Mathematical Geophysics:

<i>Chair:</i>	Daniel H. Rothman	USA
<i>Vice-Chair– Russia:</i>	George Molchan	RUSSIA
<i>Vice-Chair – North America:</i>	Ray Pierrehumbert	USA
<i>Vice-Chair– Europe:</i>	Antonello Provenzale	ITALY
<i>Vice-Chair – Middle East:</i>	Eli Tziperman	ISTAEL
<i>Secretary:</i>	Marc Speigelman	USA

Inter Associations Committee on the Study of Earth's Deep Interior (SEDI):

www.sedigroup.org

<i>Chair:</i>	Bruce Buffett	CANADA/USA
<i>Vice-Chair:</i>	Gauthier Hulot	FRANCE
<i>Secretary General:</i>	Mike Bergman	USA
<i>Advisory Committee:</i>	Francis Albarede	FRANCE
	Reinhard Boehler	GERMANY
	Ondrej Cadek	CZECH REPUBLIC
	Ulrich R. Christensen	GERMANY
	Catherine Constable	USA
	Ibrahim A. Eltayeb	SULTANATE OF OMAN
	Rongshan Fu	CHINA
	Philippe Gillet	FRANCE
	Gary Glatzmaier	USA
	S.I. Karato	USA
	Louise Kellogg	USA
	Masaru Kono	JAPAN
	Ban-Yuan Kuo	CHINA – TAIPEI
	K. Kurita	JAPAN
	Kurt Lambeck	AUSTRALIA
	David Loper	USA
	Guy Masters	USA
Jerry X. Mitrovica	CANADA	
Andrea Morelli	ITALY	
Barbara Romanowicz	USA	
Andrew M. Soward	UNITED KINGDOM	
Satoru Tanaka	JAPAN	
Lev. P. Vinnik	RUSSIA	
Kathryn Whaler	SCOTLAND, UK	
Vladimir N. Zharkov	RUSSIA	

Inter Associations Commission on Geophysical Risk and Sustainability (GeoRisk):

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	USA

Scientific Committee on the Lithosphere and the International Lithosphere Program (SCL/ILP):

<i>President:</i>	Asahiko Taira	JAPAN
<i>Secretary General:</i>	Kaye M. Shedlock	USA
<i>Bureau Members:</i>	Hermann Drewes	GERMANY
	Soren Gregersen	DENMARK
	Qingchen Wang	CHINA
	Cees Passchier	GERMANY
	Victor Ramos	ARGENTINA
	Alan G. Green	SWITZERLAND
<i>Past President:</i>		
<i>Chair - Committee of National Representatives:</i>	Anshu K. Sinha	INDIA
<i>IUGG Representative:</i>	E. Robert Engdahl	USA
<i>IUGS Representative:</i>	Werner R. Janoschek	AUSTRIA
<i>UNESCO Representative:</i>	F. Wolfgang 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:

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)

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, 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
IAMAP/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

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

International Association	Year	Meeting Location	Number of Participants
IAMAS/IAPSO	1989	Reading, U.K.	1020
IAHS	1989	Baltimore, U.S.A.	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, 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/IAPSO*	2005	Cairns, Australia	
IAGA	2005	Toulouse, France	
IAHS	2005	Foz de Iguassu, Brazil	
IAMAS	2005	Beijing, China	
IASPEI	2005	Santiago, Chile	
IAVCEI	2004	Pucon, Chile	

* With International Association for Biological Oceanography (IABO)

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

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

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 2003 – 2007

<i>President:</i>	Gerhard Beutler	SWITZERLAND
<i>First Vice-President:</i>	Michael G. Sideris	CANADA
<i>Secretary-General:</i>	Christian C. Tscherning	DENMARK
<i>Past President:</i>	Fernando Sanso	ITALY

IAG EXECUTIVE COMMITTEE 2003 – 2007

The IAG Executive Committee consists of the Bureau, the Commission Presidents, and the following:

IAG Service Representatives:

Ruth E. Neilan	USA
Markus Rothacher	GERMANY
Harald Schuh	AUSTRIA

IAG President of Communication & Outreach Branch:

Jozsef Adam	HUNGARY
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IAG Members at Large:

Luiz Paulo Souto Fortes	BRAZIL
Charles L. Merry	SOUTH AFRICA

OTHER OFFICERS OF IAG 2003 – 2007

Editor in Chief of the Journal of Geodesy:

William Featherstone	AUSTRALIA
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Assistant Secretary of the Association:

Ole Baltazar Andersen	DENMARK
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Honorary Presidents to IAG:

Klaus-Peter Schwartz	CANADA
Helmut Moritz	AUSTRIA
Ivan I. Mueller	USA
Wolfgang Torge	GERMANY

Honorary Secretaries General:

Michel Louis	FRANCE
Claude Boucher	FRANCE

IAG COMMISSIONS

IAG Commission 1: Reference Frames

<i>President:</i>	Hermann Drewes	GERMANY
<i>Vice-President:</i>	Che-Kwan Shum	USA

IAG Commission 2: Gravity Field

<i>President:</i>	Christopher Jekeli	USA
<i>Vice-President:</i>	Ilias Tziavos	GREECE

IAG Commission 3: Earth Rotation & Geodynamics

<i>President:</i>	Veronique Dehant	BELGIUM
<i>Vice-President:</i>	Mike Bevis	USA

IAG Commission 4: Positioning & Applications

<i>President:</i>	Chris Rizos	AUSTRALIA
<i>Vice-President:</i>	Pascal Willis	FRANCE

INTERNATIONAL SERVICES

International Earth Rotation & Reference Systems Service (IERS):

<i>Chair of D.B.:</i>	Jan Vondrak	CZECH REPUBLIC
<i>Director of C.B.:</i>	Bernd Richter	GERMANY

International GPS Service (IGS):

<i>Chair of G.B.:</i>	John Dow	GERMANY
<i>Director of C.B.:</i>	Ruth Neilan	USA

International Laser Ranging Service (ILRS):

<i>Chair of G.B.:</i>	Werner Gurtner	SWITZERLAND
<i>Director of C.B.:</i>	Michael Pearlman	USA
<i>Secretary:</i>	Carey Noll	USA

International VLBI Service for Geodesy & Astrometry (IVS):

<i>Chair of D.B.:</i>	Wolfgang Schlüter	GERMANY
<i>Director of C.B.:</i>	Nancy Vandenberg	USA

International Gravity Field Service (IGFS):

<i>Chair:</i>	Rene Forsberg	DENMARK
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International DORIS Service (IDS):

<i>Chair of G.B.:</i>	Gilles Tavernier	FRANCE
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International Gravimetric Bureau (BGI):

<i>Director:</i>	Jean-Pierre Barriot	FRANCE
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International Geoid Service (IGeS):

<i>President:</i>	Fernando Sanso	ITALY
<i>Director:</i>	R. Barzaghi	ITALY

International Centre for Earth Tides (ICET):

<i>Chair of D.B.:</i>	Bernard Ducarme	BELGIUM
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Permanent Service for Mean Sea Level (PSMSL):

<i>Director:</i>	Philip L. Woodworth	UK
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Bureau International de Poids et Mesures – time section (BIPM):

<i>Director Time Section:</i>	E.F. Arias	FRANCE
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IAG Bibliographic Service (IBS):

<i>Chair:</i>	Annekathrin Korth	GERMANY
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PAST IAG PRESIDENTS

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)
2003-2007	G. Beutler

PAST IAG GENERAL SECRETARIES

1886-1900	A. Hirsch (Switzerland)
1900-1918	H.G. Van de Sande-Bakhuysen (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.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 2003-2007

<i>President:</i>	Charles Barton	AUSTRALIA
<i>Vice-Presidents:</i>	Eigil Friis-Christensen	DENMARK
	Yohsuke Kamide	JAPAN
<i>Secretary-General:</i>	Bengt Hultqvist	SWEDEN
<i>Past-President:</i>	David Kerridge	SCOTLAND, UK
<i>Members:</i>	Mangalathayil Abdu	BRAZIL
	Gurbax Lakhina	INDIA
	Jan Lastovicka	CZECH REPUBLIC
	Vladimir Papitashvili	USA
	Kathryn Whaler	SCOTLAND, UK

IAGA DIVISIONS

IAGA Division I – Internal Magnetic Fields

Chair:	David E. Loper	USA
Co-chair:	Hidefumi Tanaka	JAPAN

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

Chair:	Philippe Cardin	FRANCE
Co-chair:	David Ivers	AUSTRALIA

Working Group I-2: Electromagnetic Induction and Electrical Conductivity

Chair:	Pascal Tarits	FRANCE
Co-chair:	Andreas Junge	GERMANY

Working Group I-3: Palaeomagnetism

Chair:	Mark Dekkers	NETHERLANDS
Co-chair:	Herald Boehnel	MEXICO

Working Group I-4: Rock Magnetism

Chair:	Barbara Maher	UK
Co-chair:	Eduard Petrovsky	CZECH REPUBLIC

IAGA Division II – Aeronomi Phhenomena

Chair:	Robert Schunk	USA
Co-chair:	Alan Rodger	UK

Working Group II-A: Electrodynamics of the Middle Atmosphere

Chair:	Richard A. Goldberg	USA
Co-chair:	Tom A. Blix	NORWAY

Working Group II-B: Thermospheric Dynamics

Chair:	Alan D. Aylward	UK
Co-chair:	Timothy L. Killeen	USA

Working Group II-C: Meteorological Effects on the Ionosphere

Chair:	Dora Pancheva	UK
Co-chair:	David Altadill	SPAIN

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

Chair:	Edward Kazimirovsky	RUSSIA
Co-chair:	Boris Soukharev	RUSSIA
	Charles H. Jackman	USA

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

Chair: R.A. Greenwald USA
Co-chair: J.-P. St. Maurice CANADA

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

Chair: Jan Lastovicka CZECH REPUBLIC
Co-chair: G. Beig INDIA

Working Group II-G Polar Research

Chair: Allan T. Weatherwax USA
Co-chair: Mervyn Freeman UK

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

Chair: Craig J. Rodger NEW ZEALAND
Co-chair: M. Parrot FRANCE

IAGA Division III – Magnetospheric Phenomena

Chair: Brian Anderson USA
Co-chair: Masaki Fujimoto JAPAN

Working Group III-5: Polar Research

Chair: Allan T. Weatherwax USA
Co-chair: Mervyn Freeman UK

IAGA Division IV – Solar Wind & Interplanetary Field

Chair: Iver Cairns AUSTRALIA
Co-chair: Barbara Thompson USA

IAGA Division V – Geomagnetic Observatories, Surveys & Analysis

Chair: Toshihiko Iyemori JAPAN
Co-chair: Mioara Mandea FRANCE

Working Group V-OBS: Geomagnetic Observation

Chair: Hans-Joachim Linthe GERMANY
Co-chair: Pieter Kotze SOUTH AFRICA

Working Group V-DAT: Geomagnetic Data and Indices

Chair: Alan Thompson UK
Co-chair: Mita Rajaram INDIA

Working Group MOD – Geomagnetic Field Modeling

Chair: Susan Macmillan UK
Co-chair: Stefan Maus GERMANY

IAGA Inter-divisional Commissions

Inter-divisional Commission on Developing Countries

Chair: Thi Kim Thoa Nguyen VIETNAM
Co-chair: Polinaya Murali Krishna BRAZIL

Inter-divisional Commission of History

Chair: TBA
Co-chair: TBA

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

Director:	Michel Menvielle	FRANCE
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International Space Environment Service, ISES (affiliated to FAGS)

Director:	David H. Boteler	CANADA
Deputy Director:	Henrik Lundsted	SWEDEN

IAGA/IASPEI/IAVCEI – Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)<http://yochi.iord.u-tokai.ac.jp/emsev/>

Chair:	Seiya Uyeda	JAPAN
Secretary:	T. Nagao	JAPAN
IAGA Liaison:	Jaques 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.)
2003-	C. Barton (Australia)

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.enscm.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, 2003-2007

<i>President:</i>	Kuniyoshi Takeuchi	JAPAN
<i>President-Elect:</i>	Arthur Askew	SWITZERLAND
<i>Secretary General:</i>	Pierre Hubert	FRANCE
<i>Vice President:</i>	Louise Heathwaite	UNITED KINGDOM
	Xia Jun	CHINA
	Chris Leibundgut	GERMANY
<i>Past-President:</i>	John C. Rodda	UNITED KINGDOM
<i>Treasurer:</i>	Chuck Onstad	USA
<i>Editor:</i>	Zbigniew Kundzewicz	POLAND
<i>Chair IAHS Ltd.</i>	Des E. Walling	UNITED KINGDOM

IAHS INTERNATIONAL COMMISSIONS

International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

<i>President:</i>	Charles Vörösmarty	USA
<i>President-Elect:</i>	Hoshin Gupta	USA / INDIA
<i>Secretary:</i>	Thorsten Wagener	GERMANY / USA
<i>Vice President:</i>	Stewart Franks	AUSTRALIA
	Luis Bastidas	USA
	Eva Boegh	DENMARK

International Commission on Continental Erosion (ICCE)

<i>President:</i>	Wojciech Froehlich	POLAND
<i>President-Elect:</i>	Jim Bogen	NORWAY
<i>Secretary:</i>	Dirk de Boer	CANADA
<i>Vice President:</i>	Jon Olley	AUSTRALIA
	Arthur Horowitz	USA
	Valentin Golosov	RUSSIA

International Commission on Groundwater (ICGW)

<i>President:</i>	Yoram Rubin	USA
<i>President-Elect:</i>	Mary C. Hill	USA
<i>Secretary:</i>	Aldo Fiori	ITALY
<i>Vice President:</i>	N.M. Abou Ashour	EGYPT
	Jim Barker	CANADA
	Alberto Bellin	ITALY

International Commission on Remote Sensing (ICRS)

<i>President:</i>	Alain Pietroniro	CANADA
<i>Past-President:</i>	Al Rango	USA
<i>Secretary:</i>	Manfred Owe	USA
<i>Vice President:</i>	Toshio Koike	JAPAN
	Inge Sandholt	DENMARK
	Ian Cluckie	UNITED KINGDOM

International Commission on Snow and Ice (ICSI)

<i>President:</i>	Gerald Jones	CANADA
<i>President-Elect:</i>	Georg Kaser	AUSTRIA
<i>Secretary:</i>	Peter Jansson	SWEDEN
<i>Vice President:</i>	Jon-Ove Hagen	NORWAY
	Kumiko Goto-Azuma	JAPAN
	Koni Steffen	USA

International Commission on Surface Water (ICSW)

<i>President:</i>	Alan Gustard	UNITED KINGDOM
<i>President-Elect:</i>	Siegfried Demuth	GERMANY
<i>Secretary:</i>	Hege Hisdal	NORWAY
<i>Vice President:</i>	Denis A. Hughes	SOUTH AFRICA
	Eric Servat	FRANCE
	Mandira Shrestha	NEPAL

International Commission on Tracers (ICT)

<i>President:</i>	Jeff McDonnell	USA
<i>President-Elect:</i>	John Gibson	CANADA
<i>Secretary:</i>	Alan Rodhe	SWEDEN
<i>Vice President:</i>	Simon Lorenz	SOUTH AFRICA
	Chris Soulsby	UNITED KINGDOM
	Piotr Maloszewski	GERMANY / POLAND

International Commission on Water Quality (ICWQ)

<i>President:</i>	Joop Steenvoorden	NETHERLANDS
<i>President-Elect:</i>	Bruce Webb	UNITED KINGDOM
<i>Secretary:</i>	Peter Heininger	GERMANY
<i>Vice President:</i>	Avner Vengosh	ISRAEL
	Valentina Krysanova	GERMANY / ESTONIA
	U.C. Sharma	INDIA

International Commission on Water Resources Systems (ICWRS)

<i>President:</i>	Dan Rosbjerg	DENMARK
<i>President-Elect:</i>	Hubertus Savenije	NETHERLANDS
<i>Secretary:</i>	Andreas Schumann	GERMANY
<i>Vice President:</i>	Günter Blöschl	AUSTRALIA
	Miguel Mariño	USA
	Toshiharu Kojiri	JAPAN

IAHS Working Groups***Prediction in Ungauged Basins (PUB)***

Chair:	Murugesu Sivapalan	AUSTRALIA
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WCRP Global Energy & Water Cycle Experiment (GEWEX)

Chair:	Allan Hall	AUSTRALIA
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Hydrology 2020 (H2020)

Chair:	Taikan Oki	JAPAN
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World Glacier Monitoring Service (WGMS), affiliated to FAGS, program administered by ICSI

Director:	W. Haeberli	SWITZERLAND
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PAST IAHS PRESIDENTS

1922-1933	E. Wade
1933-1936	J. Smetana (Czechoslovakia)
1936-1947	O. Lütshg (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. Szezstay (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://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 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 2003-2007

<i>President:</i>	Michael MacCracken	USA
<i>Secretary-General:</i>	Roland List	CANADA
<i>Deputy Sec. General</i>	John Turner	UK
<i>Vice-Presidents:</i>	R.A. (Bob) Vincent	AUSTRALIA
	Guoxiong Wu	CHINA
<i>Past-President:</i>	H.W. (Huw) Davies	SWITZERLAND
<i>Members at large:</i>	Leonard A. Barrie	SWITZERLAND
	Igor Mokhov	RUSSIA
	Akimasa Sumi	JAPAN
	Vladimir Ivanovici	ROMANIA
	Philippe Bougeault	FRANCE

IAMAS COMMISSIONS

Atmospheric Chemistry and Global Pollution (ICACGP)

<i>President:</i>	Anne M. Thompson	USA
<i>Vice President:</i>	Frank Raes	ITALY
<i>Secretary:</i>	Patricia Quinn	USA

Atmospheric Electricity (ICAE)

<i>President:</i>	Pierre Laroche	FRANCE
<i>Secretary:</i>	Serge Chauzy	FRANCE

Climate (ICCL)

<i>President:</i>	Keith Alverson	SWITZERLAND
<i>Secretary:</i>	Niel Holbrook	AUSTRALIA

Clouds and Precipitation (ICCP)

<i>President:</i>	George A. Isaac	CANADA
<i>Vice-President:</i>	Zev Levin	ISRAEL
<i>Secretary:</i>	David O'C. Starr	USA

ICCP - Committee on Nucleation and Atmospheric Aerosols

Chairman:	Markku Kulmala	FINLAND
Vice-President:	Gabor Vali	USA

Dynamic Meteorology (ICDM)

<i>President:</i>	Peter Baines	AUSTRALIA
<i>Secretary:</i>	John W. Nielsen-Gammon	USA

Meteorology of the Middle Atmosphere (ICMA)

<http://www.princeton.edu/~kph/ICMA/html>

<i>President:</i>	Kevin Hamilton	USA
<i>Secretary:</i>	Albert Hertzog	FRANCE

Planetary Atmospheres and Their Evolution (ICPAE)

<i>President:</i>	Athena Coustelis	FRANCE
<i>Vice President:</i>	Dmitri Titov	GERMANY
<i>Secretary:</i>	Maarten Roos Serote	PORTUGAL

Polar Meteorology (ICPM)

<i>President:</i>	David Bromwich	USA
<i>Secretary:</i>	Andrew Carleton	USA

Ozone (IOC)

<i>President:</i>	Robert D. Hudson	USA
<i>Vice President:</i>	Toshihiro Ogawa	JAPAN
<i>Secretary:</i>	Christos Zerefos	GREECE
<i>Member:</i>	Rumen D. Bojkov	SWITZERLAND

Radiation (IRC)

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

<i>President:</i>	Herbert Fischer	GERMANY
<i>Vice President:</i>	Teruyuki (Terry) Nakajima	JAPAN
<i>Secretary:</i>	Robert Ellingson	USA

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)
2003-	Michael MacCracken (USA)

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 Oceans (IAPSO) Association Internationale des Sciences Physiques de l'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 2003 – 2007

<i>President:</i>	Shiro Imawaki	JAPAN
<i>Secretary-General:</i>	Fred E. Camfield	USA

IAPSO EXECUTIVE COMMITTEE 2003 – 2007

<i>Vice-Presidents:</i>	S. Krishnaswami	INDIA
	Lawrence A. Mysak	CANADA
<i>Deputy Secretary General:</i>	Maria C. Piccolo	ARGENTINA
<i>Members:</i>	Kentang Le	CHINA
	Eugene G. Morozov	RUSSIA
	Denise Smythe-Wright	UK
	W. John Gould	USA
	Claude Roy	FRANCE
	John Middleton	AUSTRALIA
<i>Past President:</i>	Paola Rizzoli	ITALY

IAPSO COMMISSIONS

Mean Sea-Level & Tides

<i>President:</i>	Philip L. Woodworth	UK
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Groundwater Seawater Interactions

<i>President:</i>	E.A. Kontar	RUSSIA
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JOINT COMMISSIONS

Tsunami Commission (Joint with IASPEI & IAVCEI)

<i>Chair:</i>	Kenji Satake	JAPAN
<i>Liaison:</i>	Fred E. Camfield	USA

IAPSO/SCOR Working Group 121 on Deep Ocean Mixing

<i>Chairperson:</i>	Robin D. Muench	USA
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SERVICES

Permanent Service for Mean Sea Level (affiliated to FAGS)

<i>Director:</i>	Philip L. Woodworth	UK
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IAPSO Standard Seawater Service

<i>Director:</i>	Paul S. Ridout	UK
------------------	----------------	----

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 (Italy/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*, 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 2003 – 2007

<i>President:</i>	E. Robert Engdahl	USA
<i>First Vice-President:</i>	Zhongliang Wu	CHINA
<i>Second Vice-President:</i>	Gregory A. Houseman	UK
<i>Secretary General/Treasurer:</i>	Peter Suhadolc	ITALY

IASPEI EXECUTIVE COMMITTEE 2003 – 2007

<i>Members:</i>	Diana Comte	CHILE
	Uli Christensen	GERMANY
	Ian Jackson	AUSTRALIA
	Kiyoshi Suyehiro	JAPAN
	Brian L.N. Kennett	AUSTRALIA

IASPEI REPRESENTATIVES TO OTHER GROUPS

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

<i>Representative:</i>	Junzo Kazahara	JAPAN
------------------------	----------------	-------

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission:

<i>Chair:</i>	Kenji Satake	JAPAN
---------------	--------------	-------

IAU/IUGG Working Group on Non-Rigid Earth Mutations:

<i>Representative:</i>	Bruce A. Buffett	CANADA
------------------------	------------------	--------

ICSU Panel on World Data Centers:

<i>Representative:</i>	Timothy K. Ahern	USA
------------------------	------------------	-----

ISC Executive Committee:

<i>Representative:</i>	Oleg E. Starovoit	RUSSIA
------------------------	-------------------	--------

IUGG Committee for Mathematical Geophysics:

<i>Representative:</i>	Yehuda Ben-Zion	USA
------------------------	-----------------	-----

IUGG/IUGS Commission on the Lithosphere:

<i>Representative:</i>	E. Robert Engdahl	USA
------------------------	-------------------	-----

SCAR (Solid Earth Geophysical Working Group):

<i>Representative:</i>	Saurabh K. Verma	INDIA
------------------------	------------------	-------

IASPEI COMMISSIONS 2003-2007

Commission on Tectonophysics and Crustal Structure

Chair: Kevin Furlong USA

Task Group on World Stress Map Project

Chair: Karl Fuchs GERMANY

Task Group on Seismic Imaging of the Lithosphere

Acting Chair: Walter D. Mooney USA

Task Group for Active Monitoring

Chair: Mineo Kumazawa JAPAN

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

Chair: Zhongliang Wu CHINA

IASPEI/IAEE Joint Working Group on Effects of Surface Geology

Chair: Hiroshi Kawase JAPAN

Commission on Earth Structure & Geodynamics:

Co-Chairs: Greg Houseman UK
 Thorne Lay USA

Working Group on Reference Earth Models

Chair: Gabi Laske USA

Commission on Seismological Observation & Interpretation (CoSOI)

Chair: Jens Havskov NORWAY

Working Group on Magnitude Measurements

Chair: James W. Dewey USA

Working Group on Reference Events from Improved Locations

Co-Chairs: Paul G. Richards USA
 E. Robert Engdahl USA

Task Group on Scattering & Heterogeneity

Chair: Ru-shan Wu USA

Working Group on Seismological Archives

Chair: Roger W.M. Musson UK

Commission on Earthquake Sources – Prediction & Modeling

Chair: Mitsuhiro Matsu'ura JAPAN

Commission on Education & Outreach

Co-Chairs: Kiyoshi Suyehiro JAPAN
 John Taber USA

International Heat Flow Commission (IHFC)

Chair: David. S. Chapman USA

Federation of Digital Broadband Seismograph Network (FDSN)

Chair: Domenico Giardini SWITZERLAND

International Ocean Network (ION)

Chair: Adam Schultz UK

European Seismological Commission (ESC)

Chair: Claudio Eva ITALY

Asian Seismological Commission (ASC)

Chair: Serguei Balassanian ARMENIA

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

<i>Co-Chairs:</i>	Serguei Balassanian	ARMENIA
	Fabio Romanelli	ITALY

International Commission on Earth Sciences in Africa (ICESA)

<i>Chair:</i>	A.B. Kampunzu	BOTSWANA
<i>Vice-Chairperson:</i>	Mohamed G. Abdelsaalam	USA
<i>Secretary General:</i>	Francis Tembo	ZAMBIA
<i>Treasurer:</i>	Steve McCourt	SOUTH AFRICA

INTER-ASSOCIATION ACTIVITIES 2003-2007**IASPEI/IAVCEI Commission on Physics & Chemistry of Earth Materials**

<i>Chair:</i>	Ian Jackson	AUSTRALIA
<i>Secretary:</i>	Sharon L. Webb	GERMANY

IASPEI/IAVCEI/IG Committee on Volcano Geophysics

<i>IASPEI Representative:</i>	Jurgen Neuberger	UK
<i>Co-Chair:</i>	Hiroyuki Kumagai	JAPAN

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

<i>Chair:</i>	Sri Widiyantoro	INDONESIA
---------------	-----------------	-----------

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

<i>Chair:</i>	Seiya Uyeda	JAPAN
<i>IASPEI/IAVCEI Liaison:</i>	Malcolm J.S. Johnston	USA
<i>Secretary:</i>	Toshiyasu Nagao	JAPAN

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)
2003-2007	E.R. Engdahl (U.S.A.)

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.)
1991-2003	E.R. Engdahl (U.S.A.)
2003-	P. Suhadolc (ITALY)

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>	Oded Navon	ISRAEL
<i>Vice-Presidents:</i>	Toshitsugu Fujii	JAPAN
	Jocelyn McPhie	AUSTRALIA
<i>Secretary General:</i>	Steve McNutt	USA
<i>Members:</i>	Anita Grunder	USA
	Jean-Christophe Komorowski	FRANCE
	Hugo Moreno-Roa	CHILE
	Renato Solidum	PHILIPPINES
<i>Past-President:</i>	R. Steve Sparks	UK
<i>Editor BV:</i>	John Stix	CANADA
<i>Deputy Secretary General:</i>	Jon Dehn	USA
<i>Membership Secretariat:</i>	Caroline Giddings	AUSTRALIA
<i>Administrative Assistant:</i>	Jennifer Risse	USA

IAVCEI COMMISSIONS

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

<i>Chair:</i>	Ian Jackson	AUSTRALIA
<i>Secretary:</i>	Sharon Webb	GERMANY

Commission on Granites

<i>Leader:</i>	Nick Petford	UK
<i>Secretary:</i>	Sandeep Singh	INDIA

Commission on Large-Volume Basaltic 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>	John Stix	CANADA
<i>Newsletter Editor:</i>	Pierre Delmelle	BELGIUM
<i>Webmaster:</i>	Tobias Fischer	USA

Commission on Volcanic Lakes

<i>Leader:</i>	Johan C. Varekamp	USA
<i>Secretary:</i>	Alain Bernard	BELGIUM

Commission on Explosive Volcanism

<i>Co-Leaders:</i>	Paul Cole	UK
	Guido Giordano	ITALY

Commission on Volcanogenic Sedimentation

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

Commission on Volcanism and the Earth's Atmosphere

<i>Leader:</i>	Alan Robock	USA
----------------	-------------	-----

Commission on Remote Sensing

Leader: Ken Dean USA
Secretary: John Chadwick USA

Commission on Volcanic Seismology (joint with IASPEI)

Leader: Juergen Neuberg UK
Co-Leader: Hiroyuki Kumagai JAPAN

World Organization of Volcano Observatories

Leader: Christopher Newhall USA
Secretary: Francois Beauducel FRANCE

Commission on Mitigation of Volcanic Disasters

Leader: Giovanni Orsi ITALY
Co-Leaders: Claus Siebe MEXICO
Jan Lindsay WEST INDIES

Committee on Cities on Volcanoes:

Leader: David Johnston NEW ZEALAND
Secretary: Diane Tilyard NEW ZEALAND

Commission on Arc Magmatism

Co-Leaders: Jon Davidson USA
John Gamble NEW ZEALAND/IRELAND

International Heat Flow Commission (joint with IASPEI and IAPSO)

Leader: I.T. Kukkonen FINLAND
Secretary: C. Clauser GERMANY

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

IAVCEI Representative: Yuichi Nishimura JAPAN

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

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

Leader: Seiya Uyeda JAPAN
IAVCEI Liaison: M.S. Johnston USA

The International Volcanic Health Hazard Network (IVHHN)

Co-Leaders: Claire Horwell UK
Peter Baxter UK

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.

ALBANIA - ALBANIE

Adhering Organization
The Academy of Sciences
Sheshi Fan S. Noli
Tirane, ALBANIA

NATIONAL COMMITTEE

President: E. SULSTAROVA

Secretary General: S. ALIAJ

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: N. KUKA

IAGA: S. BUSHATI
B. DUKA

IAHS: M. SANXHAKU
V. MUSTAQI

IAMAS: A. SELENICA

IAPSO:

IASPEI: B. MUCO
L. DUNI

IAVCEI:

ALGERIA – ALGERIE

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

NATIONAL COMMITTEE

President: A. YELLES-CHAOUCHE

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: A. HALIMA-MANSOUR

IAGA: A. ABTOUT

IAHS: A. DEMMAK

IAMAS: A. ZEHAR

IAPSO: M. BOULAHDID

IASPEI: A. YELLES-CHAOUCHE

IAVCEI:

ARGENTINA - ARGENTINE

Adhering Organization

Comite Nacional de la Union Geodesica y Geofisica Internacional
 Cabildo 381
 1426 Buenos Aires
www.igm.gov.ar

NATIONAL COMMITTEE

President: Cnl. Ing. Mil. Agrim. F.M. GALBAN

Executive Vice-President: Dra. C. RISSO

Second Vice-President: Lic. N.C. SABBIONE

Secretary General: Agrim. R.C. RAMOS

Assistant Secretary General: Agrim. S.R. CIMBARO

Treasurer: Lic. M.J. FIORITI

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: E.A. LAURIA
IAMAS: M.H. PICASSO
IAVCEI: C. RISSO

IAGA: C. POMPOSIELLO
IAPSO: G.M.E. PERILLO

IAHS: M.J. FIORITI
IASPEI: N. SABBIONE

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

<http://www.nssp-gov.am>

NATIONAL COMMITTEE

President: S. BALASSANIAN

Secretary: S. NAZARETYAN

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: G. AVETYAN
IAMAS: G. KOJOYAN
IAVCEI: E. KHARAZYAN

IAGA: S. HOVHANISSIAN
IAPSO:

IAHS: V. BOYNAGRIAN
IASPEI: A. ARAKELYAN

AUSTRALIA - AUSTRALIE

Adhering Organization

Australian Academy of Science
 Ian Potter House - Gordon Street
 GPO Box 783
 Canberra ACT 2601
 F: 61 2 6257 4620

NATIONAL COMMITTEE

National Relations Officer:

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: R. COLEMAN
IAMAS: A. HENDERSON-SELLERS
IAVCEI: R. CAS

IAGA: B.J. FRASER
IAPSO: I.S.F. JONES

IAHS: J.D. KALMA
IASPEI: D. DENHAM

AUSTRIA - AUTRICHE

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

NATIONAL COMMITTEE

President: S.J. BAUER

Secretary: C. TWAROCH

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: E. ERKER

IAGA: S.J. BAUER

IAHS: F. NOBILIS

IAMAS: M. KUHN

P. STEINHAUSER

IAPSO: H. LÖFFLER

IASPEI: W.. LENHARDT

IAVCEI: G. MAYER

BELGIUM - BELGIQUE

Adhering Organization
 The Royal Academies of Science and the Arts of Belgium
 Palais des Academies - rue Ducale 1
 B-1000 Brussels

NATIONAL COMMITTEE

President: A.L. BERGER

Secretary: B. DUCARME

Vice-President: E. ARIJS

Adjunct Secretary: D. DE MUER

Contact Staffperson: R. VAN VAERENBERGH

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: V. DEHANT

IAGA: M. SCHERER

IAHS: F. DE TROCH

IAMAS: A.L. BERGER

IAPSO: F. RONDAY

IASPEI: R. VERBEIREN

IAVCEI: A. BERNARD

BOSNIA & HERCEGOVINA

Adhering Organization
 Academy of Sciences & Arts
 of Bosnia & Hercegovina
 Bistrik 7, Sarajevo

F: 387 33 206 033

akademija@anubih.ba

NATIONAL COMMITTEE

President: D. SARAC

Secretary: A. MULAHUSIC, B.SC.

Vice-President: F. SELESKOVIC

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG:

IAGA:

IAHS:

IAMAS:

IAPSO:

IASPEI:

IAVCEI:

BRAZIL - BRESIL

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

NATIONAL COMMITTEE

Director: L.P.S. FORTES

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: D. BLITZKOW
IAMAS:
IAVCEI:

IAGA: L.M. BARRETO
IAPSO:

IAHS: C.E.M. TUCCI
IASPEI:

BULGARIA - BULGARIE

Adhering Organization
 Bulgarian Academy of Sciences
 ul. 15 Noemvri, 1
 Sofia 1040

NATIONAL COMMITTEE

President: D. JORDANOV

Secretary: I. GEORGIEV

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: I. GEORGIEV
IAMAS:
IAVCEI:

IAGA: M. KOVACHEVA
IAPSO:

IAHS:
IASPEI:

CANADA

Adhering Organization
 National Research Council of Canada
 Bureau of International Relations
 Ottawa Ontario K1A 0R6

F: 613 952 9696

<http://www.cgu-ugc.ca/cnc-iugg/>

NATIONAL COMMITTEE

President: Z. HAHNAL

Secretary: H. JORJANI

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG: S. PAGIATAKIS
 J. KOUBA
IAMAS: C. LIN
 T. SHEPERD
IAVCEI: C.J. HICKSON
 J. STIX

IAGA: R.E. HORITA
 R. ENKIN
IAPSO: M. STACEY
 W. CRAWFORD

IAHS: T. OUARDA
 J. POMEROY
IASPEI: K.E. LOUDEN
 B. BUFFETT

CHILE - CHILI

Adhering Organization
 Instituto Geografico Militar
 Nueva Santa Isabel 1640
 Santiago

igm@igm.clwww.igm.cl**NATIONAL COMMITTEE****President:** P.G. LOPEZ**Secretary:** L.A. MATTA**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

IAG: P.G. LOPEZ
IAMAS: N.M. MUNOZ
IAVCEI: J.A. NARANJO

IAGA:
IAPSO: F. MINGRAM

IAHS:
IASPEI: E.G. KAUSEL-VECCHIOLA

CHINA - CHINE

Adhering Organization
 Chinese National Committee for IUGG
 Institute of Geophysics, China Seismological Bureau
 5 Minzu Daxue Nan Road
 Beijing 100081

F: 86 10 6841 5372

zhucz@public.fhnet.cn.net**NATIONAL COMMITTEE**

President: Junyong CHEN
Vice-President: Yun-tai CHEN

Secretary General: Chuanzhen ZHU**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

IAG: Jianguo HU
IAMAS: Guoxiong WU
IAVCEI: Zhenhua ZHAO

IAGA: Zhenxing LIU
IAPSO: Kentang LE

IAHS: Jichang SUN
IASPEI: Zhongliang WU

CHINA – CHINE**The Academy of Sciences Located in TAIPEI**

Adhering Organization
 Academia Sinica
 128, Academy Road, Sec. 2
 TAIPEI, TAIWAN

NATIONAL COMMITTEE**President:** Chao-Han LIU**Executive Secretary:** Yih-Hsiung YEH**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

IAG: Chun-Sung CHEN
IAMAS: Shaw C. LIU
IAVCEI: Cheng-Hong CHEN

IAGA: Chao-Han LIU
IAPSO: Ju-Chin CHEN

IAHS: Yih-Chi TAN
IASPEI: Yih-Hsiung YEH

COLOMBIA - COLUMBIE

Adhering Organization

Colombian Committee of Geodesy and Geophysics (CCGG)
 Instituto Geográfico Agustín Codazzi
 Carrera 30 No. 48-51
 Santafé de Bogotá, D.C.

NATIONAL COMMITTEE

President: S.B. MUTIS
Vice-President: J.E. SILVA

Treasurer: W.M. DÍAZ

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG:	P.S. CAVANZO	IAGA:	W.A. LÓPEZ	IAHS:	J.M. SOLTAU
IAMAS:	H.G. MARENTES	IAPSO:	J.R. MORENO	IASPEI:	A. NIETO
IAVCEI:	M.L. CALVACHE				

CROATIA - CROATIE

Adhering Organization

Croatian Academy of Sciences
 Zrinski trg 11
 10000 Zagreb
 F: 385 1 4872 902

NATIONAL COMMITTEE

President: D. SKOKO

Secretary: D. MEDAK

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG:	D. MEDAK	IAGA:	V. VUJNOVIC	IAHS:	O. BONACCI
IAMAS:	D. POJE	IAPSO:	M. ORLIC	IASPEI:	M. HERAK
IAVCEI:					

CZECH REPUBLIC - REPUBLIQUE TCHEQUE

Adhering Organization

Academy of Sciences of the Czech Republic
 Narodni 3
 117 20 Praha 1

NATIONAL COMMITTEE

President: V. CERMAK
Vice-President: O. ZIKMUNDA

Secretary: P. HOLOTA

NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

IAG:	P. HOLOTA	IAGA:	P. HEJDA	IAHS:	J. HLADNY
IAMAS:	O. ZIKMUNDA	IAPSO:		IASPEI:	J. PLOMEROVA
IAVCEI:	J. VANEK				

DENMARK - DANEMARK**Adhering Organization**

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

NATIONAL COMMITTEE**President:** S. GREGERSEN**Secretary:** D.D. JENSEN**NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS**

IAG: F. MADSEN
IAMAS: A. HANSEN
IAVCEI: P. HOLM

IAGA: E. FRIIS-CHRISTENSEN
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Please note.

In compliance with the EU General Data Protection Regulation, the address data on pages 57-120 have been removed from the digital edition of the IUGG Yearbook 2004.

LIST OF ACRONYMS

ABL0S	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
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