

# Annual Report for 2012

## International Association of Geomagnetism and Aeronomy

### 1. INTRODUCTION

IAGA, the International Association of Geomagnetism and Aeronomy (AIGA - Association Internationale de Géomagnétisme et d'Aéronomie) is one of the eight Associations of the International Union of Geodesy and Geophysics (IUGG). It is a non-governmental body funded through the subscriptions paid to IUGG by its Member Countries. IAGA has a long history and can trace its origins to the Commission for Terrestrial Magnetism and Atmospheric Electricity, part of the International Meteorological Organisation which was established in 1873.

IAGA is the premier international scientific association promoting the study of terrestrial and planetary magnetism, and space physics. IAGA is concerned with the understanding and knowledge that result from studies of the magnetic and electrical properties of:

- the Earth's core, mantle and crust
- the middle and upper atmosphere
- the ionosphere and the magnetosphere
- the Sun, the solar wind, the planets and interplanetary bodies.

### 2. ADMINISTRATION

IAGA is organised in five Divisions and three Inter-divisional Commissions, each led by a Chair and a Co-Chair. Each Division/Commission may form Working Groups in given specialised topics and elects officers to run the business of the Working Groups. During the XXV IUGG General Assembly in Melbourne 2011, Earth on the Edge: Science for a Sustainable Planet, IAGA renews its officers. The links below lead directly to lists of the Division/Commission leadership and the Working Group names and officers:

[http://www.iugg.org/IAGA/iaga\\_pages/science/sci\\_structure.htm](http://www.iugg.org/IAGA/iaga_pages/science/sci_structure.htm)

IAGA is administered by an [Executive Committee](#) on behalf of IUGG [Member Countries](#) in accordance with the Association's Statutes and By-Laws. IAGA communicates with Member Countries through National Correspondents nominated by appropriate national bodies. Member Countries are represented at IAGA Assemblies by accredited Chief Delegates who may vote on matters, according to the voting rules set out in the Statutes and By-Laws, at meetings of the Conference of Delegates. Information on the EC members and National Correspondents are found at:

[http://www.iugg.org/IAGA/iaga\\_pages/science/sci\\_structure.htm](http://www.iugg.org/IAGA/iaga_pages/science/sci_structure.htm)

### 3. ACTIVITIES

IAGA has had a busy year despite not hosting an Assembly. Once again, IAGA has been active through the EC members' activities, and by supporting a wide range of workshops and meetings that have involved a good number of scientists from developing world countries, and young scientists.

#### EC meeting

The IAGA EC meeting was organized on Saturday 28 April 2012 at **Zentralanstalt für Meteorologie und Geodynamik (ZAMG)** - "Julius Hann Haus", Vienna, Austria. The EC would like to thank ZAMG and Barbara Lichter for hosting this meeting. Administrative, as well as scientific, matters were discussed, the outcomes of this one-day meeting being available via the very dynamic web-page of the Association.



— IAGA EC members who directly participated in the EC meeting, in April 2012 - from left to right: Jeffrey M. Forbes, Monika Korte, Toshihiko Iyemori, Andrew Yau, Mioara Manda, László Szarka, Eduard Petrovsky

#### IAGA Memory

The IAGA Newsletters published as hard-copies are all scanned and available on the IAGA website. This is a nice realization to put together all volumes and to have IAGA memory on-line

[http://www.iugg.org/IAGA/iaga\\_pages/pubs\\_prods/public\\_relation.html](http://www.iugg.org/IAGA/iaga_pages/pubs_prods/public_relation.html)

#### Sponsored Topical Meetings

IAGA sponsored the following eight topical meetings during 2012:

March 12-16 Paracas, Peru	The 13th International Symposium on Equatorial Aeronomy Workshop
June 4-14 San Fernando, Spain	XVth Workshop on Geomagnetic Observatory, instruments, data acquisition and processing Workshop
June 17-23 Zvolen, Slovakia	33th Castle Meeting on Paleo, Rock and Environmental Magnetism

July 14-22 Mysore, India	39th Scientific Assembly of the Committee on Space Research
July 25-31, Darwin, Australia	21st EM Induction Workshop
September 3-6 Sao Paulo, Brazil	5th VLF/ELF Remote Sensing of Ionospheres and Magnetospheres (VERSIM) workshop
September 11-14 Buenos Aires, Argentina	7th IAGA/ICMA/CAWSES Workshop on Long Term Changes and Trends in the Atmosphere Workshop
October 9-12 Boulder, Colorado, USA	4th International High Energy Particle Precipitation in the Atmosphere (HEPPA) Workshop

## Publications

One of the most important achievements of IAGA in recent years was to publish, with Springer, a series of five books, summarizing the state of the science of the IAGA five divisions. As well as providing useful reference texts, the income to IAGA from Springer for this venture was used to support scientists attending the last Scientific Assembly in Sopron, Hungary.



**IAGA News 49** was distributed at the end of December 2012. It can be found on the IAGA web site [www.iugg.org/IAGA](http://www.iugg.org/IAGA). Among other things, reports from topical meetings co-sponsored by IAGA can be found there.

## Preparations for IAGA2017

During the IUGG General Assembly in Melbourne IAGA EC agreed to explore holding a

joint Scientific Assembly with IAMAS since there are significant areas of scientific overlap with most Divisions. As IAMAS was already in discussions with IAPSO about holding a joint SA, the three associations are investigating the possibility of holding a three-Association Joint Assembly in 2017, which would be a first for IAGA, if not for IUGG Associations in general! The SG represented IAGA at the Paris meeting of the three Associations, at which preliminary discussions took place, when it became clear that there is a strong commitment to facilitating this if possible. Shortly, a call for bids will be sent and a site evaluation committee will be nominated, since planning a long way ahead will be necessary if this is to become a reality.

#### 4. FUTURE ACTIVITIES

The XIIth Scientific Assembly will take place in the colonial city of Merida in Yucatan, Mexico, between August 24 and 31, 2013.

The scientific sessions will be held from Monday to Saturday, August 25-31. Registration and all lecture and poster halls are within the three neighbouring hotels Intercontinental, Hyatt Regency and Fiesta Americana, close to the city center. The preparation for this meeting is the core of our future activities.

The scientific program contains 55 symposia covering all parts of IAGA science. Two Association Lectures, for all participants, will be given in the mornings of Tuesday and Thursday on “*A survey of geomagnetic field variations over the past 10 thousand years: evolutionary trends from the dipole to the South Atlantic Magnetic Anomaly*” by Cathy Constable and “*The three-satellite geomagnetic field mission, Swarm*” by Eigil Friis-Christensen. Descriptions of the symposia and information about abstract submission, registration, visa, hotels and many other things can be found in the Second Circular from the LOC at the IAGA 2013 web site:

<http://www.geociencias.unam.mx/iaga2013/>

*Harald Böhnel*, on behalf of the Local Organising Committee and *Mioara Manda*, on behalf of the IAGA EC look forward to seeing as many of you as possible at the IAGA Scientific Assembly.

Mioara MANDEA  
IAGA Secretary General