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## IAGA ON THE WEB

Information on IAGA is regularly updated at the IAGA website: <http://www.iugg.org/IAGA/>

## Foreword



This issue of *IAGA News* contains information about the XXIV<sup>th</sup> General Assembly of IUGG held in Perugia, Italy on July 2-13, 2007 and more specifically about the IAGA part of it. The IAGA General Assembly took place in the first week, on July 2-7. Some major

decisions by the IAGA Conference of Delegates and the Executive Committee, meeting during the Assembly, are reported. This issue also contains reports on IAGA activities of different kinds and provides information about deceased IAGA scientists. *IAGA News* in its present form contains brief summaries of news items; the reader is referred to the IAGA website ([www.iugg.org/IAGA/](http://www.iugg.org/IAGA/)) for more details.

*IAGA News* is distributed to the National Correspondents in the Member Countries, to all IAGA officers and to IAGA scientists who have attended recent IAGA assemblies. Many scientists interested in IAGA activities are probably not reached with this distribution, so it would be appreciated if you, the reader, would forward *IAGA News* to persons you know of who may not be on our distribution list. If you are uncertain, it is better that they get several copies of *IAGA News* than none. National policy makers and leaders, whose decisions affect the activities of IAGA scientists, also need to be informed about IAGA so, please, forward *IAGA News* to such persons in your country as well.

**Bengt Hultqvist**  
Secretary General

## Message from the IAGA President



Dear colleagues,

As announced in the IAGA News a year ago, the IAGA Executive felt that the interests of IAGA are best served by opening Executive Committee (EC) membership to more persons. Hence, the EC recommended changes to its composition to achieve a more

rapid turn-around of officers – by removing the past-President position and one of the Vice-Presidents. A constitutional change was passed at the Conference of Delegates at the XXIV<sup>th</sup> General Assembly of IUGG in Perugia, July 2007 and I warmly welcome the result of the election, which has brought 5 new members to the EC. One of the ways to face the increased competition from other organisations is to ensure that all the virtues of IAGA and its scientists are being brought to the attention of our community, in particular to the young scientists. I am sure that with this strong revitalisation of the EC many new ideas will emerge.

But stable long-term development of IAGA also relies on continuity and on building on past achievements. I am therefore happy to have this opportunity to thank our past President, Charles Barton, for his great and enthusiastic work for IAGA during the last four years. Although according to the new statutes he is not an official member of the new EC I think all of us know that he will always be available to contribute advice and support as an ex-officio member of the EC. And certainly the great project that he and IAGA successfully launched, the eGY, is moving ahead with our past President as one of the visible front figures.

The increased societal focus on our planet Earth and on how the various scientific disciplines work together in advancing our understanding of the Earth as a complex system is something IAGA should take advantage of by repeatedly demonstrating that IAGA comprises some of the most fundamental scientific disciplines for this purpose, but perhaps more importantly, IAGA scientists cover a very broad spectrum of science and applications and are able to work together across disciplines. This is one of the elements that makes IAGA strong and this is why I see a bright future for our organisation, in spite of the fact that other organisations may well have more resources.

With best wishes,

**Eigil Friis-Christensen**  
President, IAGA

## The XXIVth IUGG General Assembly, Perugia, Italy, July 2-13, 2007

The total number of scientists attending the IUGG General Assembly was a record high: 4375. The distribution of the participants between the seven Associations and 'Union and others' was as follows:

Internat. Assoc. of Geodesy	399
Internat. Assoc. of Geomagn. & Aeronomy	669
Internat. Assoc. of Hydrological Sciences	505
Internat. Assoc. of Meteorology & Atm. Sci.	636
Internat. Assoc. of Phys. Sci. of the Ocean	265
Internat. Assoc. of Seismol. & Phys. Earth's Int.	458
Internat. Assoc. of Volcan. & Chem. Earth's Int	227
Union (IUGG) and others	1216

The total number of registrants in Perugia was about 220 more than at the previous IUGG General Assembly in Sapporo in 2003. However, the number of participants registering for an Association was 3159 as compared with 3767 in Sapporo, thus 608 less. The number of IUGG registrants and others was 1216 (of whom 352 were from Italy) as compared to 384 in Sapporo. The number of student registrants was unusually high, 1332.

The number of IAGA registrants was 72 less than in Sapporo. IAMAS and IASPEI had about 200 fewer participants than in Sapporo, so IAGA was again the largest Association in terms of number of registrants.

The largest number of participants came from the USA (697). It was followed by Italy (618), Japan (487), Germany (285), UK (262), France (218), Russia (172), Canada (144), China (133), and Australia (107).

IAGA organized the largest number of symposia, 56, including 3 Union symposia, followed by IAMAS with 52 (of which 3 were Union symposia). The number of papers presented in IAGA symposia was 1327 (1367 were submitted). These numbers were slightly less than in Toulouse (1390 accepted). Orally presented papers were 904 in number and posters 423.

The distribution of IAGA organized symposia between Union symposia, inter-Association symposia (JAS) and Division/Commission symposia was as follows:

Union	3
JAS	12
Division I	11
Division II	5
Division III	10
Division IV	6
Division V	6
ICDC*	2
IDCH**	1

\*ICDC – Inter-Divisional Commission on Developing Countries

\*\*IDCH – Inter-Divisional Commission on History

Of the inter-Association symposia (JAS), 4 were organized by Division I, 6 by Division II, 1 by Division IV, and 1 by Division V.



Official opening of IUGG 2007 in the main square of Perugia on 2 July 2007

## Report of the Meetings of the IAGA Conference of Delegates held in Perugia

### In Memorium

The President announced that the following IAGA scientists had died since the previous IAGA Assembly in Toulouse and asked for a minute's silence in their honour:

Apr'06 **Luiz Muniz Barreto**, Director Observatório Nacional, Brazil. Magnetic observatories, EM induction, IDCH, IDCDC.

May'06 **Kendall Svendsen** NOAA. Magnetic Observatories.

Jun'06 **Paul Serson**, Geological Survey of Canada. Observatories, surveys, North Magnetic Pole surveys.

Aug'06 **James Van Allen**, University of Iowa, USA. Radiation belts, space instruments, IGY.

Sep'06 **Toyohisa Kamei**, Univ. Kyoto University, WDC Geomagnetism. Geomagnetic indices, INTERMAGNET.

Oct'06 **Alan Shapley**, DTM, Director NGDC. Ionospheric studies, heliophysics, IGY.

Dec'06 **Lester Tomlinson**, Inst. Geological & Nuclear Science, New Zealand. Magnetic Observatories and surveys, instruments.

Jan'07 **Tor Hagfors**, Max Planck Institute, Lindau, Germany (Norwegian); Ionospheric physics. Incoherent scatter radar measurements

Apr'07 **Roger Gendrin**, Director CETP and Inst. Polar Studies. Wave-particle interactions, URSI, President IAGA 1987-91.

Jun'07 **Anthony White**, Flinders University, Australia. EM induction, MT, instruments.

### IAGA Awards Presented in Perugia

Dr. Frank Lowes was unanimously elected Honorary Member of IAGA by the Conference of Delegates and was presented with a copy of an old Chinese geomancer's tablet (the earliest known form of magnetic compass – a gift from the Chinese Delegation; see picture below), and a certificate.



The President announced the award of the 'IAGA Medal in Recognition of Valued Services to the IAGA Community over Many Years' to Toyohisa Kamei of the World Data Center for Geomagnetism in Kyoto, Japan. As he had died before the Assembly, the Medal was received on his behalf by his sister, Mrs. Kazuku Tsunokawa, and her husband.

Certificates were presented by the President to the winners of IAGA's 'Young Scientists Presentation Award':

**Ms. Anna Kanukhina** of the Russian State Hydrometeorological University in St Petersburg,

**Ms. Annika Seppälä** of the Finnish Meteorological Institute in Helsinki,

**Dr. Tracy Moffat-Griffin** of the British Antarctic Survey in Cambridge,

**Ms. Zuzana Kratinova** of the Geophysical Institute in Prague.

(The names are listed in the order of the dates when the decisions to make the awards were taken).

## The President's Report

The President reported on the following issues:

- IAGA had the largest number of attendees and papers at the previous General Assembly; consequently, IAGA's share of the IUGG budget was maintained.
- IAGA, via eGY, is participating in the new ICSU International Committee for Information and Data (SCID). IAGA is represented on the CODATA team drafting guidelines for the implementation of GEOS Data Policy Principles.
- The next IAGA Scientific Assembly will be held in Sopron, Hungary, 24-29 August 2009.
- One bid, from Melbourne, Australia, had been submitted to host the 2011 IUGG General Assembly. (It was announced later that the IUGG Council accepted the bid.)
- IASPEI has been invited to hold its 2013 Scientific Assembly jointly with IAGA – preferably in a developing country.
- The report also touched upon some main issues covered later in the agenda: eGY and the proposal to create wider opportunities for officers to serve on the EC.

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## Changes to the IAGA Statutes and By-laws and Consequential Changes to the Composition of the Executive Committee of IAGA

A proposal to change the composition of the Executive Committee to provide more opportunities for IAGA scientists to serve on the Committee was presented to the Conference of Delegates by the Australian delegation. The main points in the amended proposal accepted by the Conference of Delegates was to eliminate one of the two positions as Vice-President and the position as Past-President and thus provide two more positions for representatives of the community, and to shorten the duration of service of persons in the top positions. Members of the Committee will be re-electable only once at the same level and the return to a lower level of a non-elected person will not be possible.

## Election of the Members of the Executive Committee for the Period 2007-2011

The newly elected Executive Committee consists of the following members:

**President:** Eigil Friis-Christensen (Denmark)

**Vice-President:** Kathryn Whaler (UK)

**Members** (in alphabetical order):

**Mangalathayil Abdu** (Brazil)

**T. Harinarayana** (India)

**William Liu** (Canada)

**Miora Manda** (Germany)

**Vladimir Papitashvili** (USA)

**Eduard Petrovsky** (Czech Republic)

**Chi Wang** (China)

M. Abdu and C. Wang were elected as representatives of developing countries.

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## New Leadership of Divisions and Commissions

The Conference of Delegates found the geographical distribution of posts to be satisfactory and accepted the list of new leaders of the Divisions and Commissions proposed by the Executive Committee on the basis of information from the Business Meetings of the Divisions and Commissions.

**Division I:** Chair: Özden Özdemir (Canada)  
Co-Chair: Josef Brestensky (Slovakia)

(These nominations were not known at the time of the meeting)

**Division II:** Chair: Alan Rodger (UK)  
Co-Chair: Dora Pancheva (Bulgaria)

**Division III:** Chair: Masaki Fujimoto (Japan)  
Co-Chair: Anna Milillo (Italy)

**Division IV:** Chair: Mari Paz Miralles (USA)  
Co-Chair: Jorge Sanchez Almeida (Spain)

**Division V:** Chair: Monika Korte (Germany)  
Co-Chair: Alan WP Thomson (UK)

**ICDC:** Chair: A Bhattacharya (India)  
Co-Chairs: V Doumouya (Cote d'Ivoire)  
and H Takahashi (Brazil)

**IDCH:** Chair Edward Cliver (USA)  
Co-Chair Nicole Meyer-Vernet (France)

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## IAGA-Approved Resolutions Proposed to IUGG

Three resolutions were approved and proposed to the IUGG (which subsequently adopted them):

### **Resolution on ionospheric monitoring satellite missions**

**IUGG, noting** the ability of low Earth orbiting satellites to provide spatial and temporal monitoring of the topside ionosphere and to define the near-Earth environment, and

**recognizing** that an extended time series of satellite observations of magnetic/electric fields and of plasmas in the Earth's ionosphere are crucial for a wide spectrum of geoscience and space science studies, and

**understanding** that the DEMETER mission will end in 2008,

**welcomes** plans by several nations to launch ionospheric monitoring satellite missions, among them the unique equatorial orbiting Italian Space Agency satellite ESPERIA.

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### **eGY Resolution**

**IUGG, noting** the ability of modern information and communications technologies to revolutionise the science and management of data and information,

**noting** the growing recognition of the need for, and the benefits of a science information commons,

**noting** that 2007-2008 is the 50-year anniversary of the International Geophysical Year, which pioneered the concept of international cooperation and sharing of data and information about the Earth for the common good,

**encourages** scientists and their scientific bodies worldwide to use the occasion of the Electronic Geophysical Year, 2007-2008 to undertake activities to improve data access, data preservation, data discovery, data release, and education and outreach, to reduce the digital divide, and to sign the eGY.

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### **Declaration for an Earth and Space Science Information Commons.**

IUGG, **recognising** the importance of long-time series of Earth's science data supporting global change studies and the objectives of the International Years

**appreciates** the support given by ICSU to recent efforts to rescue valuable historical data, and,

**urges** that similar rescue and data retrieval activities be supported by relevant agencies.

## Report from the Executive Committee Meetings in Perugia

### IAGA Sponsorship of Future Scientific Activities

The EC agreed to co-sponsor the following topical meetings, which will take place in 2008:

- Symposium on space weather in Cairo, USD 2500
  - Middle East and Africa IAU Meeting Cairo
  - 12<sup>th</sup> International Symposium on Equatorial Aeronomy, Crete, USD 1500
  - HEPPA WS in Helsinki, USD 1000
  - TREND symposium, St Petersburg, USD 1500
  - 11<sup>th</sup> Castle meeting in Slovakia, USD 1500
- 

### Effects of IAGA Resolutions

All IAGA officers had been asked by the EC about their experience of the effects of IAGA/IUGG resolutions adopted in recent years. All answers received (the number of them was not very large) were positive in higher or lower degree. There were even cases where the resolutions were considered to have been so important that the projects would not have been possible to carry through without them.

The EC concluded that IAGA/IUGG resolutions are effective tools for supporting scientific projects in our field.

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### The First Meeting of the New EC in Perugia

The following liaison responsibilities of EC members with Divisions/Commissions was agreed:

Division I	Eduard Petrovsky
Division II	Mangalathayil Abdu
Division III	William Liu
Division IV	Chi Wang
Division V	Mioara Manda
ICDC	T. Harinarayana
IDCH	Kathy Whaler/Mioara Manda
IDWG EO	Charlie Barton/Kathy Whaler

The new EC also provisionally decided to hold its 2008 meeting in Montreal on 12-13 July in connection with the COSPAR meeting (13-20 July).

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## Additional News Items

### Changes in the EC Membership

**Dr Vladimir Papitashvili** resigned his membership of the IAGA Executive Committee in November 2007. He was offered a new position at the US National Science Foundation and conflicts of interest might have arisen if he had stayed on as an EC member. He will be missed.

**Prof Daniel N. Baker** has been appointed to replace Vladimir Papitashvili as a member of the Executive Committee up to the end of the present period in 2011. His agreement to serve IAGA is very much appreciated.

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### An IUGG Union Commission for Data and Information

A new commission has been proposed for the purpose of continuing and developing the eGY project after 2008. An *ad-hoc* committee with representatives of all the IUGG Associations is being formed to consider whether a Union Commission is needed and, if so, to determine its tasks, composition and modus operandi.

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### eGY Africa

eGY Africa, which is advocating better cyber-infrastructure for (geo)sciences in Africa, got off to a good start during the IHY-Africa Space Science Workshop in Ethiopia, 12-16 Nov 2007. The Workshop was attended by 63 African scientists from 19 countries in Africa, plus 40 overseas scientists. eGY-Africa was very well received and many African scientists signed up as participants, including Alem Mebrahtu from Ethiopia, who has agreed to serve as Secretary ([alemmeb@yahoo.com](mailto:alemmeb@yahoo.com)).

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### Valeria Troitskaya's 90<sup>th</sup> birthday

Valeria Troitskaya celebrated her 90<sup>th</sup> birthday on 15 November. She was President of IAGA from 1971 to 1975, and was elected an Honorary Member of IAGA in 1985. In 1989 she moved to La Trobe University in Australia after her marriage to Keith Cole.

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### Fifty-Year Anniversary of the Swedish Institute of Space Physics

The 50-year anniversary of the Swedish Institute of Space Physics, which was inaugurated under the name of Kiruna Geophysical Observatory at the start of the IGY, was celebrated on October 19, 2007. The Institute has been riding on the space wave since its start. It combines ground-based and space measurements and has flown or is preparing to fly instruments for measuring plasma properties in space on some 20 satellites in the past 50 years. An anniversary book summarising the activities in a popular way was published and presented to the more than 200 participants in the festivities.

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### Reports on IAGA-Sponsored Projects/Meetings

Reports on the following IAGA-sponsored projects/meetings can be found at the IAGA web site:

- Solar activity and its magnetic origin, Cairo, April 2006
  - Long-term changes and trends in the atmosphere, Sodankylä, September 2006
  - 3<sup>rd</sup> IAGA/ICMA workshop on vertical coupling in the atmosphere/ionosphere system, Varna, September 2006
  - XII<sup>th</sup> IAGA workshop on geomagnetic observatory instruments, Belsk, June 2006
  - New trends in geomagnetism – paleo-, rock-, and environmental magnetism, Valtice, September 2006
  - ELF/VLF radio phenomena: generation, propagation and consequences in observations, theory and modelling, Sodankylä, September 2006
  - 33<sup>rd</sup> Annual European meeting on atmospheric studies by optical methods, Kiruna, August 2006
  - Electromagnetic induction in the Earth: 18<sup>th</sup> International workshop on electromagnetic induction in the Earth, El Vendrell, September 2006
  - Ionosphere – modelling, forcing and telecommunications, IRI/COST296 workshop, Prague, July 2007
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## IGAGA Awards, General Information

### Honorary Membership of IAGA

Honorary membership is proposed by the Executive Committee and is conferred by the IAGA Conference of Delegates. It is the most dignified of IAGA's awards and has been presented to only a small number of persons who have served IAGA in extraordinary ways:

A Ashour  
L R Alldredge  
J O Cardus  
K D Cole  
J Coulomb  
N Fukushima  
M Gadsden  
F J Lowes  
J G Roederer  
C G Sucksdorff  
V A Troitskaya

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### IGAGA Long Service Medal

The IAGA Medal presented 'In Recognition of Valued Service to the IAGA Community over many Years' has been established to honour persons who have served the community in outstanding ways over long periods of time without being directly involved in research and therefore not having been recognised in the ways active scientists normally are. An example is persons responsible for running geophysical observatories of various kinds, but also other kinds of technical and operational staff may be candidates. The EC considers nominations and decides whether to award the medal.

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### Young Scientists' Presentation Award

At international topical meetings, which are co-sponsored principally by IAGA, the Programme Committee of the meeting is offered the possibility to name that young scientist (30 or younger) who contributed the best paper to the meeting (if there is one who stands out). A new IAGA award to young scientists for best contributions to IAGA-sponsored topical meetings consists of support to participate in the next IAGA Assembly: a low-cost air ticket, waiving of the registration fee, and USD 200 as a contribution to cover hotel and subsistence costs. The young scientist nominated must have made a major contribution to the study reported and have been the first author of the paper presented, besides having given a very good presentation at the meeting. The final decision is taken by the Executive Committee.

A 'Medal for Exceptional Service to IAGA Science' is under consideration, but is not yet available.

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## Deceased IAGA Scientists

In the year since the previous issue of IAGA News some distinguished IAGA scientists have passed away.

### LESTER TOMLINSON

Dr Lester Tomlinson died on 2 December 2006, after an illness lasting some months. Lester had a long connection with Geomagnetism even before he took over the running of the New Zealand Magnetic Observatories 25 years ago. He had previously worked in ionospheric research within DSIR, but from 1980 concentrated on improving the operation of the Eyrewell and Scott Base observatories, designing the new sensing and digital recording systems which were installed in 1990. After the closure of the Christchurch office of the Institute of Geological & Nuclear Sciences in 1993, Lester continued until 2004 to run the observatories under contract. He set high standards in observatory operation, and was very concerned to get high quality data.

He also took a major role in supporting the magnetic observatory in Apia, Western Samoa, both when it was operated by DSIR, and also after responsibility was handed over to the Government of Western Samoa (now Samoa). He visited the observatory on several occasions to repair cyclone damage and upgrade the equipment, and was instrumental in that observatory being able to meet INTERMAGNET standards. He continued to provide support to their operations until a few months ago, and was concerned about its continued operation. It was agreed that GNS Science would provide some support to replace the services which he had been providing at essentially no cost since late 2004.

(Contributed by Tony Hurst, Geomagnetism Team Leader, GNS Science)

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### TOR HAGFORS (1930 - 2007)

Tor Hagfors was, since 1992, Director and Scientific Member of the Max-Planck-Institute for Aeronomy (MPAe) in Katlenburg-Lindau (now Max-Planck-Institute for Solar System Research).

In Tor Hagfors we have lost a most prominent scientist who contributed unique worldwide acknowledged pioneering work in atmosphere and space research. His fundamental theoretical and experimental work on the use of radio waves were epoch-making in the investigations of the ionosphere, the Moon and the

planets. The fruits of his scientific work will affect the future.

Tor Hagfors was born in 1930 in Oslo. Before he joined MPAe he led well-known radio observatories and research institutes in USA and Scandinavia and was professor at Cornell university in the USA. At MPAe he worked among other things on space experiments for investigation of the interior of comets and of the planet Mars. It was to a large extent because of his efforts that a threatened closure of the Institute could be avoided. He continued to work also after his retirement in 1998 up to the end.

Tor Hagfors' scientific contributions gave him many high grade honors, among them two Honoris Causa Doctorships.

We mourn a distinguished scientist, an excellent teacher and a good friend.

(Directors and staff, Max-Planck-Institute for Solar System Research)

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### **ROGER GENDRIN (1931 - 2007)**

Dr Roger Gendrin passed away on April 21, 2007; he was 76 years old. Roger Gendrin is well known as a specialist in Wave Particle Interactions (WPI's). In the sixties he started his career by developing Search Coil Magnetometers and implementing them in conjugate stations, Sogra (in Russia) and the Kerguelen Islands (Indian Ocean). Thus he was able to record ULF waves in both stations and to deduce from these observations properties of the magnetospheric plasma crossed by these waves. In parallel he made very significant contributions to the theory of WPI's. In the seventies he had a key role in the definition and acceptance by ESA, of the GEOS spacecraft. Then he took the lead of the wave consortium on GEOS.

His contribution to the "Study of waves of natural origin propagating in the surroundings of the Earth, and their influence on the behaviour of the magnetosphere" was acknowledged by a John Howard Dillinger medal from URSI. He was also chairman of the H Commission of URSI. In view of his prominent role as a scientist and as an efficient organiser, he was elected President of IAGA.

Roger Gendrin was the Director of CRPE, now called CETP (Centre d'étude des Environnements Terrestres et Planétaires), for 4 years. Together with Professors Maha Abdalla (UCLA) and Hiroshi Matsumoto (Univ. of Kyoto), Dr Gendrin took an active part in the development of numerical simulations, by implementing a series of international schools. There can be no doubt that this initiative had an important impact in the fast expansion of this tool for studying space plasma physics.

Before retirement he headed IFRTP, the French Institute for Polar Studies, thereby being in charge of the coordination of studies conducted in the Kerguelen Islands, where here he conducted his first experiments about 30 years before. Even after retiring he continued to be dedicated to science. For instance he advised ESA and European Union on the importance of Space Weather activities. Until his last days he continued to be a very active scientist.

Roger was a strong character, firm in his beliefs, but at the same time, he was very open to discussion. We deeply miss this original scientist who was very demanding but so friendly and generous.

(Contributed by Alain Roux.)

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### **ANTHONY WHITE (1943 - 2007)**

My friend and colleague, Antony White, from the Flinders University of South Australia died on Friday 22 June 2007 from a heart attack. It was most unexpected, as Antony had been very fit and healthy, and was looking forward to retirement plans in the next few years. Many of you will know Anthony from his work on marine MT, and his contributions to various projects including EMSLAB, MELT and the recent seafloor experiment across the Mariana Trench. He managed to maintain a marine geophysical research group in Australia for 30 years; quite an achievement. He lived life to the full, and will be missed by all his colleagues and friends.

(Contributed by Graham Heinson.)

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### **BILL GOREE**

It is with great sadness that I inform you that my father Bill Goree died yesterday morning, peacefully in his home. Family and doctors were all amazed how quickly the illness took him.

In retrospect I would like to have shared news of his illness sooner, however, my father wanted to keep it to our family and hope for a miraculous recovery. He must have felt his rapid decline when he asked me to send my message Friday. He was a brave man and fought a hard battle with cancer.

Since 1978 Bill Goree had been designing and producing superconducting rock magnetometers for research, and in the last couple of years he had successfully designed a new system that works without liquid helium. It had been his great pleasure and life's achievement to provide these to the geophysics and paleomagnetic community.

(Lauren A Keaton)



## MASAHISA SUGIURA (1925 - 2007)

Prof. Masahisa Sugiura passed away on August 13, 2007 at a hospital in Tokyo. His funeral service was performed on August 18 at a famous temple, Yuten-Ji in Tokyo with more than 150 attendants.

He was born on December 8, 1925 in Tokyo, Japan and graduated from the University of Tokyo. He was the first person to obtain a Ph.D. at the University of Alaska. He was supervised by Prof. Sydney Chapman on the subject of geomagnetic storms. Whilst there he invented and developed with Dr. Neil Davis the AE index, a major contribution to the field of solar-terrestrial physics.

After working as an associate professor there, he moved to NASA/GSFC in 1962 as a NRC research fellow. There he invented the Dst index, which he derived for more than 35 years with some support from his technical staff at GSFC and then in Kyoto. For more than 20 years he worked at the Goddard Space Flight Center, with Dr. James P. Heppner and his group. Prof. Sugiura was a PI of magnetometers on board of the Dynamics Explorer DE-1 and DE-2 satellites launched in 1981. He lived in Silver Spring, Maryland with his wife and a daughter.

In April 1986, he moved to Kyoto to become the first professor at Kyoto University with foreign (US) citizenship. Although he was only in Kyoto for three years, 5 graduate students obtained Ph.Ds under his supervision.

Whilst there he served as director of the World Data Center for Geomagnetism, Kyoto and also as a WDC Panel member and a member of IAGA Executive Committee.

After his retirement from Kyoto University, he moved to Tokyo and lived in his dear old home, working at Tokai University as a professor and then at the NICT (National Institute of Information and Communications Technology) as an Expert Researcher until 2003.

He was respected for his work within the scientific community. As such he was elected an AGU fellow in 1985 and was awarded the Hasegawa-Nagata Prize from the Society of Geomagnetism and Earth, Planetary and Space Sciences in 2006.

He left for us many important scientific results and tools such as the Dst and AE indices. All of us who worked with him were impressed by his clear and positive way of thinking, which will be greatly missed.

(Contributed by Toshihiko Iyemori, Tohru Araki, Mamoru Ishii and Heather McCreadie.)

## The New IAGA Leadership for 2007-20011

### The Executive Committee

The IAGA Executive Committee for 2007-2011, elected by the Conference of Delegates in Perugia (with the exception of the post of Secretary General) has the following members:

#### **President: Eigil Friis-Christensen**

Danish National Space Center, Juliane Maries Vej 30, DK 2100 Copenhagen, Denmark; e-mail: [eigil.friis@spacecenter.dk](mailto:eigil.friis@spacecenter.dk); Tel: +45 3532 5707; Fax: +45 3536 2475

#### **Vice-President: Kathryn Whaler**

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#### **Secretary-General: Bengt Hultqvist**

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\*Vladimir Papatashvili resigned in November 2007 and  
was replaced by:

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# Leaders of the IAGA Divisions and Commissions

The leaders of the IAGA Divisions and Commissions  
proposed by the Divisions/Commissions and appointed  
by the Executive Committee, and the Chairs and Co-  
Chairs of the Working Groups, generally proposed at  
the Business Meeting of the respective Working Group  
and appointed/confirmed by the respective  
Division/Commission, are as follows:

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## **Division I**

**Chair: Özden Özdemir** (Canada)

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

**Chair: David Ivers** (Australia);

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**Co-Chair: Jonathan Aurnou** (USA)

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## **WG I-2: Electromagnetic Induction and Electrical Conductivity**

**Chair: Andreas Junge** (Germany) until 2009

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## **WG I-3: Paleomagnetism**

**Chair: Harald Boehnel** (Mexico)

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**Co-Chair: Emilio Herrero-Bervera** (USA)

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## **WG I-4: Rock Magnetism**

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**Co-Chair: Karl Fabian** (Norway)

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### WGII-A: Electrodynamics of the Middle Atmosphere

#### Chair: Richard A. Goldberg (USA)

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### WGII-C: Meteorological Effects on the Ionosphere

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### WG on Polar Research (Division III lead)

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### Inter-Divisional Working Group on Education and Outreach

**Chair: Emily Cobabe-Ammann**

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**Christina Rabella-Soares**, Stanford University, USA, [csoares@sun.stanford.edu](mailto:csoares@sun.stanford.edu) , has agreed to help Emily CoBabe-Ammann in particular, (i) to develop the IAGA website as a portal for accessing EO material about geomagnetism & aeronomy, and (ii) to help establish a tradition of EO activities during IAGA Assemblies - e.g., public and school lectures by distinguished scientists.

**Working Group Members:** Roberta Johnson, Janet Kozyra, Ramon Lopez, Katina Nazarova, Vladimir Papitashvili, Angelo de Santis.

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

**Chair: Jacques Zlotnicki** (France)

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# General Information about IAGA

The International Association of Geomagnetism and Aeronomy is one of the seven Associations of the International Union of Geodesy and Geophysics ([IUGG](#)).

The other IUGG Associations are:

International Association of Geodesy ([IAG](#))  
International Association of Hydrological Sciences ([IAHS](#))  
International Association of Meteorology and Atmospheric Sciences ([IAMAS](#))  
International Association for the Physical Sciences of the Oceans ([IAPSO](#))  
International Association of Seismology and Physics of the Earth's Interior ([IASPEI](#))  
International Association of Volcanology and Chemistry of the Earth's Interior ([IAVCEI](#))

## IAGA's Mission

The overall purpose of IAGA is set out in the first statute of the Association:

- to promote studies of magnetism and aeronomy of the Earth and other bodies of the solar system, and of the interplanetary medium and its interaction with these bodies, where such studies have international interest;
- to encourage research in these subjects by individual countries, institutions or persons and to facilitate its international coordination;
- to provide an opportunity on an international basis for discussion and publication of the results of the researches; and
- to promote appropriate standardizations of observational programs, data acquisition systems, data analysis and publication.

(Link to the complete IAGA [Statutes and By-Laws](#).)

## Scientific Assemblies

IAGA holds an Ordinary General Assembly every four years in conjunction with each Ordinary General Assembly of IUGG. Between the General Assemblies, IAGA holds a Scientific Assembly, often meeting with one of the other Associations of IUGG.

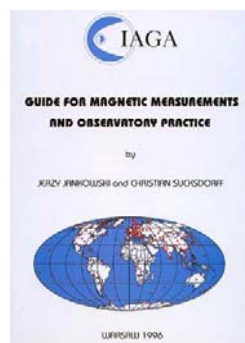
## Participation in IAGA Activities

IAGA welcomes all scientists throughout the world to join in research into Geomagnetism and Aeronomy. IAGA is subdivided into a number of Divisions and Commissions, many of which have working groups for the study of particular subjects in their general areas of

interest. On occasion, these internal IAGA groups issue their own newsletters or circulars and many maintain their own web sites. At the IAGA Assemblies, the groups organize specialist symposia, invite scholarly reviews and receive contributed papers that present up-to-the-minute results of current research. The IAGA web site gives, or provides links to, information on the range of IAGA activities.

## IAGA Guides

IAGA has published three practical guides to observation. These may be ordered from the Secretary-General.



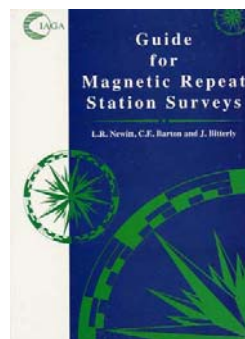
***IAGA Guide for Magnetic Measurements and Observatory Practice*** by J Jankowski and C Sucksdorff, 1996

232 pages  
ISBN: 0-9650686-2-5  
Price: USD 50

This Guide provides comprehensive information about how to organize and run a magnetic observatory and make magnetic measurements. The main topics are:

- A brief description of the magnetic field of the Earth
- Selection of observatory sites and layout
- Magnetometers
- Absolute magnetic measurements
- Recording of magnetic variations
- Data processing
- Testing and calibrating instruments

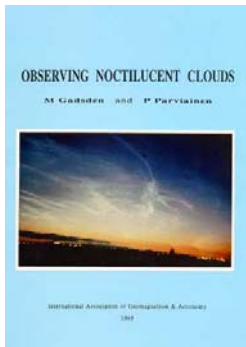
## ***IAGA Guide for Magnetic Repeat Station Surveys***



by L.R. Newitt, C.E. Barton, and J. Bitterly, 1997

120 pages  
ISBN: 0-9650686-1-7  
Price: USD 25

This Guide provides a comprehensive description of the theoretical basis, operational details, and instrumentation for making magnetic repeat station survey measurements.



**IGAGA Guide to Observing Noctilucent Clouds** by M Gadsden and P Parviainen, 1995

ISBN: 0-9650686-0-9

This manual and instruction book was written by a group of active researchers, both professional and amateur.

There are chapters giving

practical advice for taking visual observations, photographing the clouds with film or with video equipment. A summary of observations from space is included, as well as comments on the connection between noctilucent clouds, seen from the ground, and the polar mesospheric clouds that so far have been measured only from orbit. Noctilucent clouds are seen in the summer months, shining in the poleward sky at nighttime. Measurements show that the clouds are higher than any others. Lying at a height of 80-85 kilometres, the clouds mark a boundary between meteorology and space physics.

This book is beautifully illustrated with photographs, and will help everyone recognize and appreciate these "sailors in the summer night."

The book has been converted into electronic form and can be downloaded, without charge, at the IAGA web site.

### IGAGA News

IGAGA News contains items of general interest to the IAGA community. It is intended that, beginning with Issue 40, the main method of distribution for IAGA News will be via the IAGA web site. If printed copies are required a request should be made to the Secretary-General who will mail copies free of charge.

Requests to publish short articles, reports and announcements in IAGA News should be sent to the Secretary-General.

### Meetings Calendar

A calendar of scientific meetings relevant to the interests of IAGA scientists is maintained at:

<http://www.ufa.cas.cz/html/conferences/iaga.html>

### International Geophysical Calendar

The International Geophysical Calendar is available for download, as a pdf file at the following address:

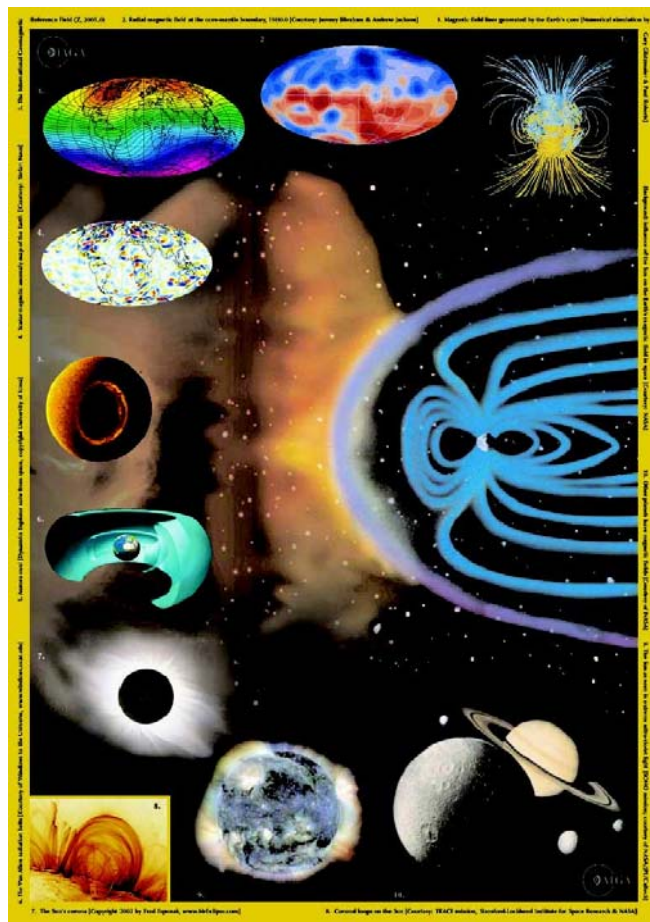
[ftp://ftp.ngdc.noaa.gov/STP/SOLAR\\_DATA/IGC\\_CALENDAR/](ftp://ftp.ngdc.noaa.gov/STP/SOLAR_DATA/IGC_CALENDAR/) (Link to [IGC](http://www.ngdc.noaa.gov/STP/SOLAR_DATA/IGC_CALENDAR/), then select the year of interest.)

### The IAGA Web site

Information on IAGA can be found at: <http://www.iugg.org/IAGA/>

### IGAGA Flyer

A flyer summarising IAGA scientific interests and activities can be downloaded in pdf format from the IAGA web site by clicking on the image below (718kb):



### Contacting IAGA

The Secretary-General is the main point of contact for all matters concerning IAGA.

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