



International Association of Meteorology & Atmospheric Sciences

www.IAMAS.org

INTRODUCTION

IAMAS is the specialized association of the International Union of Geodesy and Geophysics (IUGG) which deals with all aspects of the gaseous envelope around the Earth and other planets. The main research work is carried out, coordinated and communicated in IAMAS's ten International Commissions (IC), which are in alphabetical order the ICs on *Atmospheric Chemistry and Global Pollution* (ICACGP), on *Atmospheric Electricity* (ICAE), on *Climate* (ICCL), on *Clouds and Precipitation* (ICCP), on *Dynamical Meteorology* (ICDM), on the *Middle Atmosphere* (ICMA), the *International Ozone Commission* (IOC), the ICs on *Planetary Atmospheres and their Evolution* (ICPAE), on *Polar Meteorology* (ICPM), and the *International Radiation Commission* (IRC). All ICs, and IAMAS as a whole, take a leading part within the global communication and discussion of latest research results in a wide range of scientific meetings that are open to all scientists.

ADMINISTRATION

IAMAS did not hold business meetings in 2010; no changes of IAMAS bureau occurred in 2010. The IAMAS bureau cooperated closely by email and by telephone conferences on a monthly basis, mainly concerning preparations for IAMAS/IUGG2011. The Sec.-Gen. kept personal contact with a number of commissions officers at the COSPAR assembly in Bremen (July) and met several of his colleagues from IUGG and its associations at EGU in Vienna (May). Issue 10 of the IAMAS newsletter appeared. The website got transferred from UK to Germany where it is being refurbished.

ACTIVITIES

Here a brief selection of activities is reported; the full compilation of commission reports will be posted on www.IAMAS.org/Reports.html .

IAMAS-ICACGP

ICACGP elected new officers for the period 2010-2014:

President: Prof. Dr. John. P. BURROWS, DE **Secretary:** Dr. Frank DENTENER, IT

Vice President: Prof. Laura GALLARDO KLENNER, Chile

ICACGP organized the 12th Symposium of CACGP jointly with the 11th Science Conference of the International Global Atmosphere Chemistry (IGAC) Project in Halifax Canada 11 to 16 July 2010. Information about the symposium can be found at www.icacgp-igac-2010.ca . ICACGP has continued to strengthen the links and common activities with the international research projects IGAC and SOLAS, which the Commission co-sponsors together with IGBP as well as SCORE and WCRP, respectively.

IAMAS-ICAE

ICAE released two detailed newsletters, which are available from <http://icae.jp/> . ICAE held one committee meeting in 2010 and is preparing for IUGG2011 and its 14th International Conference on Atmospheric Electricity to be held in Brazil from 8 to 12 August 2011.

IAMAS-ICCL

The ICCL president Keith Alverson has continued to participate in the IAMAS statutes revision committee chaired by past president Mike MacCracken. Keith has been active in the development of a Global Framework for Climate Services being led by WMO. The ICCL Executive Secretary, Neil Holbrook, has been actively working with the IAMAS Secretary General, Hans Volkert, on preparing for the IUGG Conference in Melbourne in 2011, also as National (Australian) Co-Convenor of IUGG 2011 – reporting within the SPC meetings for IUGG. Neil is currently leading the redesign and development of the ICCL website. Both Keith and Neil participated in the Global Oceans Conference 2010 (GOC2010) held at UNESCO in Paris from 3-7 May 2010 – this being the Fifth Global Conference on Oceans, Coasts, and Islands, cf. www.globaloceans.org .

IAMAS-ICCP

The ICCP activities in 2010 were mostly related to IUGG2011 and the next conference, the ICCP international conference to be held in Leipzig in July 2012 with the expectation of 450 people.

IAMAS-ICDM

The ICDM main activity has been preparation for Melbourne 2011. ICDM is also looking to organising a dynamical meteorology workshop in 2012 – the first such activity for many years.

IAMAS-ICMA

ICMA co-sponsored following activities in 2010:

- 6th IAGA/ICMA/CAWSES-II workshop “Long Term Changes and Trends in the Atmosphere”, June 15-18, 2010 in Boulder, Colorado, USA, cf. www.hao.ucar.edu/TREND2010
- SCOSTEP's Symposium STP12, July 12-16, 2010 in Berlin, Germany, cf. www.iap-kborn.de/SCOSTEP2010/

and will co-sponsor

- AGU Chapman conference “Atmospheric Gravity Waves and Their Effects on General Circulation and Climate”, 28 Feb. – 4 March, 2011 in Honolulu, Hawaii, USA, cf. www.agu.org/meetings/chapman/2011/ccall/

IAMAS-IO3C

An IO3C meeting was held at the EGU2010 organized in May 2010. The main topics of the meeting were (1) the geographical representation of IO3C and (2) the organization of the 2012

Quadrennial Ozone Symposium which will be held in Toronto in 2012. Other activities in 2010 included:

- IO3C Members were strongly involved in the 2010 WMO Ozone Assessment, which was published on January 2011. The Ozone Assessment is available at http://www.unep.ch/ozone/Assessment_Panels/SAP/index.shtml. A summary of the Assessment was written by the IO3C office for the latest 10th issue of the IAMAS newsletter (Dec 2010);
- the IO3C annual press statement on the state of the ozone layer was released on the “Ozone Day” on September 16th 2010, ioc.atmos.illinois.edu/press/IO3C_OzonePressRelease2010_Final.pdf.

IAMAS-ICPAE

The ICPAE Commission activities have benefited from important breakthroughs from space missions and ground-based data, in particular, CASSINI-HUYGENS, MARS EXPRESS, VENUS EXPRESS, and MARS RECONNAISSANCE ORBITER. Many of the ICPAE members are involved in these space missions and have been extremely active in working on the data obtained from these missions. These missions will be highly represented at IUGG2011.

The ICPAE, through its President and other members, have sponsored other meetings in 2010 to promote Planetary Atmospheres and their Environments, namely:

EGU 2010 (Vienna, Austria, 2-7 May), AOGS 2010 (Hyderabad, India, 5-9 July), COSPAR 2010 (Bremen, 18-25, July), EPSC 2010 (Rome, Italy, 20-25 Sept), DPS (3-8 October, Pasadena), AGU 13-17 December

ICPAE sponsored the publication of two special issues in Planetary and Space Sciences (volumes 57, Issue 13 and volume 58, issue 13). ICPAE members played a leading role in putting together and editing of the special issue of Journal Geophysical Research “Venus Express: results of the nominal mission” that included more than 40 original papers and was published in 2010 as a book. More than 20 papers are submitted to the special issue of Icarus “Advances in Venus Science” to appear in 2011. In 2010 ICPAE members significantly contributed to the Planetary Science Decadal Survey in the US. As of October 15, the draft report had entered the peer review process with an anticipated delivery date in early Spring 2011. Also, ICPAE members are participating in proposals and studies for future space missions to planetary objects from the space agencies (NASA, ESA), such as EJSM-Laplace, TSSM, TAE, Saturn Probes, EVE, etc.

IAMAS-ICPM

The primary activity of ICPM in 2010, in conjunction with other organizations, was to sponsor and organize the International Workshop on Antarctic Clouds (cf. <http://polarmet.osu.edu/workshops/iwac/>), that was held at the Byrd Polar Research Center of the Ohio State University, July 15-16, 2010. The goal was to evaluate what (little) is known about Antarctic clouds and suggest what future efforts are needed to dramatically improve their understanding. A report that will outline the next steps recommended by workshop participants is being prepared and should be ready for distribution to the community by March 2011. The workshop presentations (online at the above website under Program) are being turned in a review manuscript for the Reviews of Geophysics with a submission date of April 1, 2011.

IAMAS-IRC

At present the IRC is composed of 42 members from 18 countries. The Commission has eight active working groups and three associated groups. As of January 2011, the IRC account balance is approximately US\$25K.

At the 2010 Annual Business Meeting held on 22 July 2010 in Bremen, Germany during COSPAR, IRC members voted to hold the 2012 International Radiation Symposium in Berlin, Germany, 5-12 Aug 2012. The IRC submitted five reviewer/author nominations for IPCC AR5.

Other Meetings and Activities IRC members co-organized or participated in 2010 include:

- ITSC-17 (International TOVS Study Conference), 14-20 April 2010, Monterey, CA.
- 11th BSRN Scientific Review and Workshop, 13-16 April 2010, Queenstown, New Zealand
- The Eleventh Biennial HITRAN Conference (united with the 10th ASA Conference), 16-18 June 2010, Cambridge, Massachusetts.
- AMS Joint 13th Conference on Cloud Physics and 13th Conference on Atmospheric Radiation, 28 June-2 July 2010, Portland, Oregon.
- 3rd Asia Pacific Radiation Symposium, Seoul, 25-28 August 2010.

Reports of IAMAS liaisons to other organization

SCOR: Michael MacCRACKEN, the liaison to the Executive Committee of the Scientific Committee on Oceanic Research (SCOR), attended the annual SCOR meeting in Toulouse, France (13-16 September). The meeting reviewed the status of SCOR Working Groups and the many international ocean research programmes that SCOR oversees, and evaluated proposals for new working groups, moving forward on only one of them due to funding limitations.

WCRP-JSC: Guoxiong WU, the liaison to the World Climate Research Program (WCRP), attended the WCRP Joint Science Committee's (JSC) 31st Session in Antalya, Turkey (15-19 February). In addition to the traditional agenda, the JSC reviewed the overall WCRP function and structure, discussed how to hold the WCRP Open Science Conference (OSC) and strengthen climate service, and had a joint Session with WMO Commission for Climate (CCI) on the subject "Working together towards strengthened research and operations linkages for enhancing the use of climate information".

SCAR: John Turner, the liaison to the Scientific Committee on Antarctic Research (SCAR), attended SCAR XXXI and the SCAR Open Science Conference in Buenos Aires, Argentina in July-August 2010. At this meeting he was awarded the 2010 SCAR Medal for Excellence in Antarctic Research. IAMAS sponsored several symposia at the Open Science Conference. John Turner is on the organising committee for the next major SCAR meeting in July 2012 in Portland, Oregon. It is anticipated that IAMAS will co-sponsor several sessions at this meeting.

FUTURE ACTIVITIES

IAMAS set up a statutes revision committee and a nomination committee in 2009. Both committees will lead important discussions at the IAMAS EC meetings during IUGG2011. With a complete revision of the statutes and a newly elected bureau, IAMAS will embrace a new era of opportunities and challenges. IAMAS is also intending to set up an award to recognize the achievement of young scientists. The first award would be given at IAMAS-IACS 2013 joint assembly in Davos, Switzerland, termed DACA-13 for short. The Swiss National Organisation Committee (SNOC) has started a series of planning meeting towards DACA-13; the Sec.-Gen. joined one of them in Aug. 2010.

Guoxiong WU,
President, IAMAS

Hans VOLKERT
Sec.-Gen., IAMAS