

INFORMATION E-MAIL FROM THE IAMAS BUREAU



March 2017

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IAPSO-IAMAS-IAGA Assembly 2017

The IAPSO-IAMAS-IAGA Assembly will take place in Cape Town, South Africa over 27 August - 1 September 2017. The on-line registration opened on 15 September, 2016. Please note that Early Bird Registration Deadline is 5 May, 2017. Abstract submission and grant application will close on 17 March 2017. Other important information will be announced accordingly. Please check for more detailed information at <http://www.iapso-iamas-iaga2017.com/>.

Registration:

5 May 2017: Early Bird Registration Deadline
22 August 2017: Online Registration Closes



Reduced registration rates are available until 5 May 2017. All early-bird fees must be paid by the closing date of the early-bird time period. Failure to pay the early-bird fee by such date will result in the delegate being liable for the full registration fees.

Abstracts:

17 March 2017: Deadline of Abstract Submission
18 - 20 April 2017: Notification of Acceptance
TBC: Notification of Programme Allocation

Sponsorship and Exhibition:

You can make use of this opportunity to promote your products and services to a global audience of experts. For more information on packages available, please contact the Assembly secretariat or check below. <http://www.iapso-iamas-iaga2017.com/index.php/sponsorships-exhibitions>.

Draft Outline Programme:

	Saturday 26-Aug	Sunday 27-Aug	Monday 28-Aug	Tuesday 29-Aug	Wednesday 30-Aug	Thursday 31-Aug	Friday 01-Sep		
Times									
08.30 - 10.00	Business Meetings	Business Meetings Registration opens from 14.00 to 19.00	IAPSO-IAMAS-IAGA SESSIONS						
			Coffee Break						
10.30 - 12.00			IAPSO-IAMAS-IAGA SESSIONS						
			Lunch Break and Scheduled Business Meetings						
13.30 - 15.00			IAPSO-IAMAS-IAGA SESSIONS						
			Posters with Coffee						
15.30 - 17.30	IAPSO-IAMAS-IAGA SESSIONS								
17.30 - 19.00			Opening Ceremony and Keynote speakers followed by Icebreaker	Posters and Wine Tasting		Posters and Wine Tasting			
19.00 - Late					Triple Association Dinner				



Report on the 2016 Quadrennial Ozone Symposium



Participants at the 2016 Quadrennial Ozone

The 2016 Quadrennial Ozone Symposium (QOS) was held from 4-9 September 2016 in Edinburgh, United Kingdom. The Symposium was organized by the International Ozone Commission (IO3C) and the Centre for Ecology & Hydrology of the Natural Environment Research Council, and co-sponsored by IUGG and WMO. More than 300 participants from 39 countries attended the Symposium. There were five keynote talks, 75 oral presentations and 270 poster presentations. The final day of the symposium included two talks on the “Future challenges for stratospheric and tropospheric ozone” followed by a moderated panel discussion. The symposium covered the breadth and depth of ozone research. Key topics were stratospheric and tropospheric ozone observations and modeling; interactions between ozone, atmospheric chemistry and climate; ozone measurement techniques; effects on human and ecosystem health, and agricultural.

The Local Organizing Committee was largely based off the Centre for Ecology & Hydrology. Among the members of the organizing committee were - Dr. Stefan Reis, Dr. Rachel Beck, Dr. Mhairi Coyle, Dr. David Fowler, Dr. Massimo Vieno and Dr. David Stevenson. The IO3C would like to express appreciation for one of the most efficient and organized committee ever in the history of the International ozone symposium.

The venue was the Edinburgh International Conference Centre (EICC) in Edinburgh, United Kingdom. Main sessions were held in the spectacular Pentland auditorium which seats up to 600 people. The poster sessions were held in the lower Strathblane Hall, that featured direct access from one of the two entrance points and had the perfect space for registration. Poster sessions were combined with the morning and afternoon coffee breaks, and lunch breaks.

As part of the Quadrennial Ozone Symposium 2016, a visit to the Auchencorth Moss GAW European Regional Station was offered to a limited number of participants

(48 total). The site is located approximately 18 km south of Edinburgh. The participants were bused from the QOS venue (EICC) to Auchencorth Moss and back. A variety of atmospheric composition observations are made at Auchencorth, including ozone, aerosols, and other trace species.

During the QOS2016 dinner, Birgit Hassler (NOAA) received the Dobson Award for her work, which provides the scientific community with an essential foundation for reliable detection of stratospheric ozone recovery. Bob Evans (NOAA) was awarded the Joseph C. Farman Award, which is granted to outstanding scientists who have created and used high-quality, long-term time series of atmospheric measurements related to the study of atmospheric ozone and/or surface ultraviolet radiation. Pictured are award recipients together with the outgoing (Cristos Zerefos and Richard Stolarski) and incoming (Sophie Godin-Beekman, Paul Newman and Irina Petropavlovskikh) International Ozone commission officers.



From Left: Irina Petropavlovskikh, Birgit Hassler, Sophie Godin-Beekman, Bob Evans, Paul Newman, Cristos Zerefos and Richard Stolarski

Report on the 2nd Workshop of the IUGG-CCEC

The second workshop of the IUGG Commission on Climatic and Environmental Change (CCEC) took place at the Université du Luxembourg in Belval, Luxembourg from 21-22 October 2016. The workshop was conducted as a meeting of chapter authors of a forthcoming edited monograph “Global Change and Future Earth: The Geodetic and Geophysical Perspective” to be produced by Cambridge University Press in October 2017. The monograph, which will be the third in the IUGG Series, seeks to deal with both aspects of the meaning of the term ‘future earth’. In title case, Future Earth refers to the recent international scientific research programme launched by the International Council for Science (ICSU), the International Social Science Council (ISSC), the Belmont Forum and a number of UN agencies. In lower case, it refers to the future of our planet, Earth.

The monograph thus seeks to expound how the geoscience community can assist Future Earth so as to improve the future of the Earth. It will comprise international and interdisciplinary contributions around the subject of climate change and its impacts on natural disasters and food security around the globe. The roles of the established scientific unions (e.g., IUGG) as well as new collaboration initiatives (e.g., Future Earth) in the advancement of multidisciplinary research will be highlighted throughout the monograph.

Sixteen authors from Austria, Australia, Canada, China, Denmark, England, Germany, India, Japan, Luxembourg, New Zealand, Turkey, and USA presented, discussed, and finalized the content and structure of their chapters and the monograph’s eight key sections: 1) Future Earth and Planetary Issues, 2) Future Earth and Geodetic Issues, 3) Future Earth and the Earth’s Fluid Environment, 4) Future Earth and Regions, 5) Future Earth and Urban Environments, 6) Future Earth and Food Security, 7) Future Earth, Risk, Safety and Security, 8) Future Earth, Climate Change and Global Change.

Fumiko Kasuga, Future Earth Global Hub Director, Japan, attended the meeting and gave an overview of Future Earth as an international global change research activity. Other contributions on the first day of the workshop included an overview of Climatic and Environmental Change by Tom Beer, CCEC Chair, as well as contributions from Alik Ismail-Zadeh, IUGG Secretary-General, and CCEC Members Eigil Friis-Christensen, Serhat Sensoy, Tonie Van Dam, Jianping Li and Harry Bryden (who presented jointly with Lawrence Mysak).

The workshop was facilitated by the local host, CCEC Member Tonie van Dam, Vice Rector of the University of Luxembourg, whose hard work and organizational capacities were greatly appreciated by all participants.



Opening Session
(Photo: Y. Kontar)

IUGG Support of Scientific Meetings 2017

IUGG E-Journal in December 2016 announced that IUGG allocated US\$15,000 to assist **scientific meetings** in 2017 supporting the participation of young and female scientists and scientists from developing countries. In 2017, IUGG will support nine scientific meetings including three events which were applied for by IAMAS.

We hope that these events will be completed successfully and the reports will be shared in IAMAS Info-Email.

The selected scientific meetings are:

“Seminar on the Atmospheric Global Electric Circuit (GEC)”
Mitzpe Ramon, Israel
17-19 February 2017



“Training Workshop on Processing of Cloud Particle Measurements”
Toulouse, France
7-9 July 2017.



“Aerosol Training School as part of the Caribbean Aerosol-Health Network (CAHN)”
Camaguey, Cuba
23-29 October 2017.



The Batsheva de Rothschild Seminar on the Atmospheric Global Electric Circuit



Participants of the Batsheva de Rothschild Seminar on the Atmospheric Global Electric Circuit

The Batsheva de Rothschild seminar on the Atmospheric Global Electric Circuit (GEC) was held during the week of 5-10 February, 2017, with financial support from IUGG and IAMAS. The workshop brought together 50 researchers and students from 16 countries. We gathered in the remote Negev Desert in southern Israel to discuss the latest developments and directions in the field of fair weather Atmospheric Electricity.

We have known since the time of Benjamin Franklin that, in fair-weather conditions, there is a quasi-static vertical electric field at sea level of ~ 150 V/m pointing downwards to the Earth, associated with a conduction current density of ~ 2 pA/m² flowing continuously from the atmosphere to the ground. Much subsequent research has concluded that this electricity is generated, and modulated, by global thunderstorm activity. The thunderstorms act like huge batteries/generators of current in the atmosphere, driving electrical currents upwards towards the ionosphere above thundercloud tops in disturbed weather regions, with the return currents flowing in fair weather regions. This conceptual view is known as the atmospheric global electric circuit (GEC).

In recent years there has been a notable revival in fair-weather atmospheric electricity research, due to the links found between atmospheric electricity and air pollution, radioactivity, cloud microphysics, dust outbreaks, climate change, biological processes and even space weather. Atmospheric electricity can be used as a sensitive diagnostic of changes in our environment, but may also have feedbacks on our

environment itself. The vertical conduction current may impact the charging of cloud edges, influencing droplet interactions and possibly large-scale cloud properties themselves. Furthermore, new technologies are allowing us to expand the frontiers of atmospheric electricity research, using drones, balloons and UAVs for collecting data.

This workshop was divided into sessions dealing with Processes and Generators in the GEC; Local Impacts on GEC parameters; New instrumentation for studying the GEC; and Numerical Modeling of the GEC. In addition to the formal lectures and poster sessions, two evening discussions were held related to 1) developing uniform methodologies for data collection and analysis so that we can correctly compare and share data from widely-spaced locations around the globe, and 2) directions forward and future collaborations. Furthermore, two visits to the Atmospheric Electricity Observatories in Mitzpe Ramon and Mt. Hermon were organized for the visitors.

One key conclusion from the workshop was the need that the atmospheric science community support the inclusion of affordable electric field meters on regular meteorological radiosondes launched every day by national Met Offices. Adding such small, cheap, disposable sensors will allow us to significantly advance our understanding of the GEC, its interaction with clouds, aerosols, cosmic rays and space weather, while allowing us to monitor long term changes in the GEC, and hence long term changes in global thunderstorm activity.

Prof. Colin Price, Tel Aviv University,
Head of Seminar Committee, IAMAS Member-at-Large



Participants visiting the Mt. Hermon (2200 m) Cosmic Ray and Atmospheric Electricity Observatory

Proposal to host IAMAS Scientific Assembly 2021

Proposals to host the 2021 IAMAS Scientific Assembly can still be submitted. The location of this assembly will be decided at the time of the Cape Town assembly in 2017. Candidates who satisfy all conditions will be able to make a presentation on their country in Cape Town in 2017. The conditions for hosting an Assembly are: 1)

Proposal from the national delegate, 2) Financial responsibility by the National Member Country and 3) Encouraging an inter-association assembly. Further details on hosting an assembly can be found in our statutes at [www.iamas.org /IAMAS_StatutesByLaws-2011.pdf](http://www.iamas.org/IAMAS_StatutesByLaws-2011.pdf).

IAMAS Early Career Scientist Medal Award



Congratulations to Corinna Hoose, Karlsruhe Institute of Technology (KIT), on being awarded the 2017 IAMAS Early Career Scientist Medal.

The Award Committee chaired by IAMAS Vice President Joyce Penner had seven nominations. All were

of high quality, but in the end, the Award Committee decided to award the medal to the ICCP nominee: Corinna Hoose. This medal was established in 2011, and is presented every two years, from a selection of candidates nominated by the commissions of IAMAS.

The Award Committee will present her with the medal at a special 2-hour session on 31 August, 2017 during IAMAS Assembly in Cape Town.

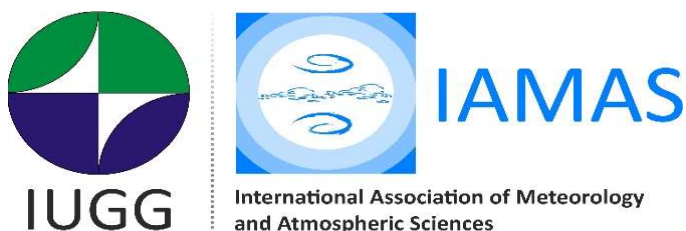
Awardee Profile:

Corinna Hoose received her PhD from ETH Zurich in Switzerland, where she worked with Prof. Ulrike Lohmann on global modeling of aerosol-cloud interactions in mixed-phase clouds. Afterwards, she was a postdoc in Norway at the University of Oslo with Prof. Jón Egill Kristjánsson. In 2010, she moved to KIT, where she became a professor in 2013 and works on modeling of mixed-phase clouds on different scales, with a focus on the parameterization of heterogeneous ice nucleation.

Message from the Awardee:

It is a great honor for me to receive the 2017 IAMAS Early Career Scientist Medal. I would like to thank all the people who have supported and mentored me on my way, and in particular the young and enthusiastic scientists who I am fortunate to interact with.

IUGG-IAMAS Joint Logo



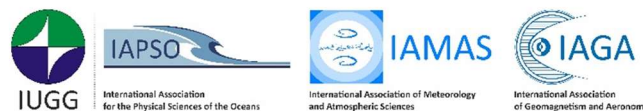
The IUGG Executive Committee (EC), at its 2016 meeting in Paris, France, decided to design joint IUGG-Association logos including IAMAS. The IUGG Secretariat in consultation with a professional designer, prepared a set of logos, which was approved by the EC in December 2016.

We would recommend updating the logo on the Commission websites, newsletter and/or formal letterhead from IAMAS only logo to the IUGG-IAMAS joint logo.

Also please note that use of the logo on the website, presentations, reports and publications of the Commissions' events is required if the event is supported by IUGG and/or IAMAS. We found the acknowledgement and use of logo has often been forgotten. It is important to indicate sponsors at all times.

The IAMAS SG Office has the joint logo in high resolution and different formats (jpg, pdf, eps and cdr). Please contact the IAMAS SG Office if you need them.

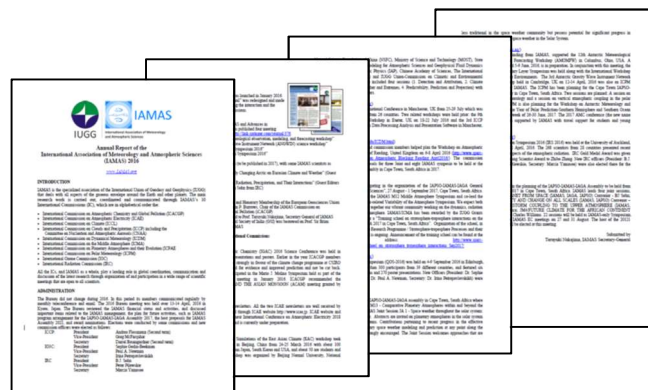
Furthermore, we have another new logo "IUGG/IAPSO/IAMAS/IAGA joint logo" for the Scientific Assembly 2017 in Cape Town.



IAMAS Annual Report 2016

The IAMAS Annual Report 2016 provides a summary of the activities of IAMAS and its Commissions. The IAMAS SG would like to thank the Commission officers for their input activity reports 2016. The IAMAS Annual Report will be sent out to those on the IAMAS mailing list, as well as well as being uploaded on to the IAMAS website at <http://www.iamas.org/reports-downloads/>.

Also IAMAS Annual Report will be merged with other Associations of IUGG, which will be posted on the IUGG website as IUGG Annual Report.



Obituary: Stanley Ruttenberg 1926 - 2017



Stanley Ruttenberg, Secretary General of the International Association of Meteorology and Atmospheric Physics (IAMAP, now IAMAS) from 1975-1987, passed away in Boulder, Colorado USA on 12 February, 2017.

Born on 12 March, 1926 in St. Paul, Minnesota, he received his Bachelor of Sciences degree in Physics from the Massachusetts Institute of Technology in 1946 and his Master's from UCLA in 1951.

Stan's career began at the National Academy of Science in Washington, D.C. where he was Technical Advisor and production team member of the award winning series "Planet Earth" in 1960-62 (updated in 1980-85). Stan was Head of the Program Office for the U.S National Committee for the International Geophysical Year (IGY) and was Executive Secretary to its follow-on program, the International Year of the Quiet Sun (IQSY). Through the IGY, he became acquainted with Dr. Walter Orr Roberts, who invited Stan to work at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. At NCAR, Stan served as assistant to its first few directors and organized many international workshops. Stan was assistant to the Joint Planning Staff for the Global Atmospheric Research Program (GARP)

and from 1970-1972, helped to administer the program from the WMO offices in Geneva, Switzerland. Upon his return to the US, Stan oversaw the student program in the GARP Atlantic Tropical Experiment (GATE). Starting in 1983, Stan was Scientific Advisor to the NASA Advisory Council's Earth System Science Committee (ESSC), which identified key research questions and priorities for studying climate change. Stan also served as the Chairman of the Panel on World Data Centres of the International Council of Scientific Unions (ICSU). Stan retired from NCAR in summer of 1994, but continued to stay involved in the scientific community.

Music was a significant part of Stan's life. He never missed a chance to attend a symphony or opera performance wherever his travels took him. As he eased out of work travel, he began to organize travel around specific performance events, and racked up many a Wagner Ring cycle. He served as President of the Colorado MahlerFest and held that position for fifteen years. Stan enjoyed many adventures with his wife, Patricia Lee, for nearly 50 years. They had two daughters, Alison and Rebecca, and shared a love of classical music, gourmet cooking and learning about the world. Stan is remembered for his diplomacy and mentorship in all of his spheres of influence, and for his boundless energy in 'getting things done'. He leaves as his legacy his vision and ability to 'think outside the box'.

This obituary was written by Ms. Rebecca Ruttenberg, and shared by her permission.

Upcoming IAMAS-related meetings

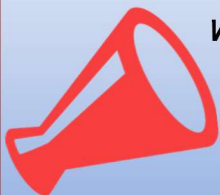
✧ 25-30 June, 2017

20th International Conference on Nucleation and Atmospheric Aerosols (ICNA) (ICCP)
Helsinki, Finland
Web: <http://www.icnaa2017.net/>

✧ 18-22 September, 2017

3rd Symposium of the Committee on Space Research (COSPAR): Small Satellites for Space Research "COSPAR 2017"
Jeju Island, South Korea
Web: <http://cospar2017.org/>

The IAMAS INFORMATION E-MAIL



We welcome short reports from the Commissions at any time.

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