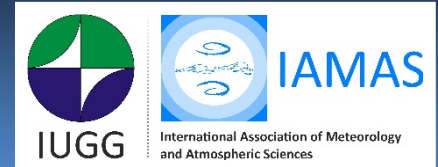


INFORMATION E-MAIL FROM THE IAMAS BUREAU



June 2019

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The XXVII IUGG General Assembly

The 27th General Assembly of the International Union of Geodesy and Geophysics (IUGG) will take place from 8 to 18 July 2019 in Montréal, Québec, Canada. The IAMAS special events are as follows:

CELEBRATING 100 YEARS OF IAMAS 1919 - 2019 - PAST, PRESENT AND FUTURE

➤ Date: 10 July 8:30 - 12:00 / Room: 517

In 2019 IAMAS will be celebrating its 100th anniversary. To mark this important event the association will hold a half day symposium that will look back at the remarkable advances that have taken place in the atmospheric sciences over the last century, consider current outstanding questions and look forward to possible future developments. The symposium will consist of keynote presentations by world-leading experts in various branches of the atmospheric sciences.

- ✦ The International Association of Meteorology and Atmospheric Science: One Hundred Years of Research Challenges and Accomplishments: J. Fleming
- ✦ Satellite remote sensing: Achievements, challenges, and future progress: B.J. Sohn
- ✦ The Changing Atmospheric Pollution and Chemistry, observed from Space in the Anthropocene: J.P. Burrows
- ✦ Climate Change: From Knowledge to Action: T. Stocker
- ✦ Atmospheres of planetary bodies other than the Earth: A. Coustenis
- ✦ Weather Prediction: Progress and Prospects: A. Brown

IAMAS Early Career Scientist Award Ceremony

➤ Date: 10 July 10:00 (During above event IAMAS100) / Room: 517

The Award Committee chaired by IAMAS Vice President Joyce Penner will present Lei Bi with the medal.

IAMAS Early Career Scientist Event

➤ Date: 11 July 18:00 - 21:00 / Room: 510C

IAMAS is working hard to help early career scientists advance in the world of atmospheric sciences and show the value of organisations such as IAMAS. The event will give you a chance to hear about IAMAS, a career of the ECS Awardee and early career scientist organisations, and allow you to network with your colleagues. Please register your interest in attending by emailing IAMAS_SG_office@jaxa.jp.

IUGG Fellowship Award Ceremony

➤ Date: 17 July 16:30 - 18:00 / Room: 517

We are pleased to announce that the IUGG Honorary Membership (Fellowship) is conferred on:

- John Turner, the President of IAMAS
- Teruyuki Nakajima, the Secretary-General of IAMAS
- Athena Coustenis, the former President of IAMAS
- Hans Volkert, the former Secretary-General of IAMAS

At the IUGG 2019 Closing Ceremony, they will be bestowed a Fellowship Medal, Certificate and IUGG pin by the IUGG President.



Symposia / Events / Meeting at IUGG2019

Full program of Union, Inter-Association, and Association symposia, workshops, and special events is now online. To search each session or event, please visit the website at <http://iugg2019montreal.com/> and click this green bottom at the right banner.



Union Symposia

U01	Future Earth, Climate and Sustainability
U02	Disaster Risk Science
U03	Mathematics and Observations in Earth Science
U04	Data Science, Big Data and Analytics in Geodesy and Geophysics
U05	New Discoveries in Earth's Deep Interior
U06	New Discoveries in Planetary Sciences
U07	Centennial of International Cooperation in Earth Sciences
U08	Earth and Space Observations
U09	Early Career Scientists' Symposium

Association Symposia

IAMAS symposia (M01 - M25) and IAMAS-lead Joint Symposia with other associations (JM01/10 - JM09).

Special Events

- CELEBRATING 100 YEARS OF IAMAS 1919 - 2019 - PAST, PRESENT AND FUTURE
10 July 8:30 - 12:00 / Room 517
- IAMAS Early Career Scientist Award Ceremony
10 July 10:00 - 10:05 / Room 517
- IUGG 2019 Opening Ceremony and Reception
10 July 16:00 - 18:00 / Room 517
- IAMAS Early Career Scientist Event
11 July 18:00 - 21:00 / Room 510C
- Union Lecture: IAMAS: Ed Hawkins (UK)
13 July 11:00 - 11:30 / Room 511
- IUGG 2019 Closing Ceremony
17 July 16:30 - 18:00 / Room 517

IAMAS Business meetings

- EC/GA Meeting 1
8 July 8:30 - 12:00 / Room: 515A
- EC/GA Meeting 2
11 July 12:00 - 13:30 / Room: 524C

IAMAS Early Career Scientist Medal Award 2019

Congratulations to Lei Bi, Department of Atmospheric Sciences School of Earth Sciences, Zhejiang University, on being awarded the 2019 IAMAS Early Career Scientist Medal.

The Award Committee chaired by IAMAS Vice President Joyce Penner had four nominations. All were of high quality, but in the end, the Award Committee decided to award the medal to the IRC nominee: Lei Bi. 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 him with the medal at IAMAS 100 Symposium (M25) on 10 July, 2019 during IUGG General Assembly in Montreal.

Awardee Profile:

Lei Bi obtained his PhD degree at Texas A&M University (TAMU) in the USA under Professor George W. Kattawar and Professor Ping Yang. After four years (2011–2015) as a postdoctoral researcher at the Department of Atmospheric Sciences of TAMU, he joined the School of Earth Sciences at Zhejiang University in China as a faculty member, where he is building a research team in the discipline of atmospheric radiation and remote sensing. His effort majorly focuses on fundamental research in electromagnetic wave scattering with applications to atmospheric radiative transfer and remote sensing. His recent research interest focuses on improving the understanding of backscattering optical properties of atmospheric aerosols based on the first-



principle approaches for applications in active Lidar remote sensing.

Message from the Awardee:

I am extremely honored to receive this recognition from the IAMAS. Along my growth from being a student to a PI, I was very fortunate to have multi-facets mentoring from my advisors and the opportunities to interact with and learn from well-known research scientists in our research community. I highly appreciate their kind supports and on-going career-development encouragement. I also want to thank all my colleagues for their constructive collaborations, and postdoctoral researchers and students for their enthusiasm in research.

Report on SAMLAC-2018

The School of Atmospheric Measurements in Latin America and the Caribbean: Atmospheric Particles and Reactive Gases (SAMLAC) was held in San Juan, Puerto Rico, 12-17 November 2018.

This is the third in a series of IGAC Americas Working Group (AWG) training courses. The IGAC AWG was formed 2013 by scientists from Latin American and Caribbean (LAC) countries to improve the collaborations in the region, connect the LAC community internationally and build capacity in research fields related to atmospheric chemistry.

Sixty seven participants representing 21 countries and regions recently gathered for SAMLAC - 2018. SAMLAC is part of the International Global Atmospheric Chemistry Project Americas Working Group (IGAC-AWG), which aims to build a cohesive network and foster the next generation of atmospheric scientists, with the ultimate goal of contributing to development of a scientific community focused on building collective knowledge in/for the Americas, with a focus on Latin America and the Caribbean.

SAMLAC goals were to:

- Improve regional capacity and stimulate the development of aerosol and reactive gases monitoring programs (regional and national) that can contribute with their data to regional and international projects and networks.
- Foster the building of a community of atmospheric scientists in the Latin America and the Caribbean (LAC) region in order to provide expertise on topics related to atmospheric composition and its relation to anthropogenic emissions and natural variability to government agencies and international research.
- Educate early career scientists from the Latin America and the Caribbean region on global and regional aspects of atmospheric composition change and atmospheric composition monitoring.
- Promote best practices of open data sharing and open access publication within the Latin America and the Caribbean region.

The 6-day training school included: (1) 17 classes on topics related to atmospheric particles, and reactive gases, (2) 11 short talks on studies and opportunities related to atmospheric particles and reactive gases in the Latin America and the Caribbean region, (3) a poster session, (4) a session on collaborative proposals, (5) three side meetings (IGAC Americas Working Group AWG, WMO SDS WAS, and the Caribbean Aerosol Health Network - CAHN), and (6) a field trip to the Cape San Juan Atmospheric Observatory.

SAMLAC brought together internationally recognized lecturers and speakers in the field of atmospheric measurements to give the lectures and/or present studies and opportunities in the LAC region. The lecturers and speakers included representatives from many diverse organizations including the World Meteorological Organizations (WMO), NASA, IGAC AWG,

amongst many others. The plenary lecture "Quantifying the Health Effects of Air Pollution Globally" was given by Dr. Jason West, professor in Environmental Sciences and Engineering at the University of North Carolina - Chapel Hill, who performs interdisciplinary research that connects air pollution, climate change, energy and human health, using models of atmospheric chemistry and transport, and tools for quantitative policy analysis. The lectures covered topics such as: Measurements of Reactive Gases (O₃, CO, NO_x, VOCs), Quality Control of Trace Gases Observations, Aerosols Mechanical Properties & Filters, Aerosol Artifact-free Sampling & Online Mass Monitors, Particle Counter & Particle Size Spectrometer, Data Analysis, Requirements for Global Networks for Short-lived Atmospheric Species, and Data Submission Procedures WMO NILU EBAS.

At the closing ceremony, lecturers and participants were acknowledged and the posters prizes were awarded. The 3rd poster place corresponded to a student from Argentina (Romina M. Pascual Flores with the poster *Characterization of the spatio-temporal variation of atmospheric pollution. WRF-Chem simulations and analysis potential sources contribution to the Central Andes*), the 2nd place was awarded to a Puerto Rican student (Odalys Martínez-Sánchez with the poster *Fifteen-Year Trend in African Dust Outbreaks Across the Eastern Caribbean*), and the 1st place to a student from Chile (Luis Alberto Gómez with the poster *Synoptic forcing of Extreme Concentrations of Fine Particulate Material (PM_{2.5}) in a Patagonian city*). We all enjoyed this night, after a very intense week.

SAMLAC 2018 was a success; our students learned a lot and enjoyed their stay in Puerto Rico. The IGAC AWG will continue to offer training courses to early career scientists in the LAC regions because it is clear these types of event help the students to gain experience and motivation to continue their research in atmospheric chemistry and air quality while building a network within in the LAC region and internationally.



Photo by Nellian Reyes

Olga L. Mayol-Bracero
University of Puerto Rico
Rio Piedras Campus, San Juan, Puerto Rico

Call for papers to a Special Issue—Antarctic Meteorology and Climate: Past, Present and Future

IAMAS associated journal *Advances in Atmospheric Sciences* is calling for papers for a Special Issue—Antarctic Meteorology and Climate: Past, Present and Future

<https://www.springer.com/earth+sciences+and+geography/atmospheric+sciences/journal/376?detailsPage=societies>.

IAMAS scientists John Turner and Raul R. Cordero will serve as guest editors.

This special issue will showcase recent and ongoing research progress in 1) Antarctic meteorology and numerical weather prediction and 2) climate variability and change in the Antarctic. The compilation of research papers in this special issue is expected to contribute to a more thorough understanding of issues in Antarctic meteorology and climate in past, present and future. Submissions in, but not limited to, the following research areas, are invited:

- ✧ Antarctic meteorology and numerical weather prediction
- ✧ Observations in the Antarctic from various field campaigns and remote sensing
- ✧ Explore the ways in which the Antarctic atmosphere (including stratosphere) interacts with the ocean, sea ice, and the global climate system

- ✧ Observational evidence of variability and change in Antarctic climate
- ✧ Determine possible causes of climate variability and change identified in the Antarctic using observational analysis and climate model simulation
- ✧ Past Antarctic climate variability and change at regional and continental scales

Important dates:

- ✧ Manuscript submission open: March 1, 2019
- ✧ Manuscript submission deadline: August 31, 2019.
- ✧ Estimated publication time: January 2020.

Submission URL:

<https://mc03.manuscriptcentral.com/aasiap>

Please select: "Special issue: Antarctic"



The 2019 Tyler Prize for Environmental Achievement: Dr. Warren Washington

On February 12, Dr. Warren Washington, credited as having 'literally wrote the book on climate modeling', has been announced as the winner of the 'Nobel Prize for the Environment', the Tyler Prize for Environmental Achievement. Dr. Washington is the first African American to win this prestigious 46-year-old Prize.

Dr. Warren Washington recognizes IAMAS's efforts in climate issues.

His co-recipient is activist Michael Mann, an outspoken and vilified climatologist and creator of the 'hockey stick' curve.

On May 3, Dr. Warren Washington and Dr. Michael Mann was officially awarded the Tyler Prize medal, at an awards ceremony in San Francisco.

Please refer to the links of their history, biography and Q&A <http://www.iamas.org/2019/02/13/the-2019-tyler-prize-for-environmental-achievement-dr-warren-washington/>.

Congratulations Dr. Michael Mann and Dr. Warren Washington!



From Left: Warren Washington; Michael Mann

Obituary: Prof. Roland List (1929 – 2019)



IAMAS is sorry to announce the passing on 26 January 2019 of Prof. Roland List, the distinguished cloud physicist and former Secretary General of IAMAS. Roland had a long and highly successful career in the atmospheric sciences and also contributed to international cooperation and coordination of meteorology through his service to IAMAS and via the World Meteorological Organisation, where he was Deputy Secretary General in the 1980s.

Roland was born in Frauenfeld, Switzerland in 1929 and graduated from ETH Zurich before working for the Swiss Federal Institute for Snow and Avalanche Research in Davos. In 1963 he moved to the University of Toronto where he established a world-leading cloud physics group that thrived under his leadership. During his time at the University of Toronto he supervised 44 Masters and 33 PhD students, many of whom have gone on to have distinguished careers of their own in the atmospheric sciences. Roland was Secretary General of IAMAS from 1995 to 2007, during which time he was the IUGG representative to the WMO and the World Climate Research Program. He had a long association with the

IAMAS International Commission on Clouds and Precipitation, of which he was an honorary member.

On behalf of IAMAS and the atmospheric sciences community, we extend our condolences to his family.

John Turner, President of IAMAS (2015-2019)

Message from Michael MacCracken, Past President of IAMAS (2003-2007)

One of the IAMAS tasks that Roland took great pride in carrying through was offering funding and assistance for young scientists with limited funding to come to the IAMAS assemblies and IUGG congresses, building the global scientific community. He really enjoyed bringing people together and arranging times for the newly and long-graduated to mix and learn from each other.



The IAMAS Bureau members and incoming Officers at the 2007 IUGG General Assembly in Perugia, Italy

<From Front Left>

Roland List, the Secretary General (1995-2007)

Michael MacCracken, the President (2003-2007)

<From Behind Left>

Guoxiong Wu, the incoming President (2007-2011)

John Turner, the Deputy SG (2003-2007)

Hans Volkert, the incoming SG (2007-2015)

Upcoming IAMAS-related meetings

✧ 28-30 August 2019

First TEAMx (Multi-scale transport and exchange processes in the atmosphere over mountains - programme and experiment) Workshop
Rovereto, Italy

Web: <http://www.teamx-programme.org/>

✧ 22-25 October 2019

Atmospheric circulation in a changing climate -
DynVarMIP workshop
Madrid, Spain

Web: <http://www.sparcdynvar.org/>

✧ 4-8 November 2019

4th Symposium of the Committee on Space Research
(COSPAR)

Herzliya, Israel

Web: <http://www.cospar2019.org/>

✧ 6-8 November 2019

19th GEIA Conference - The Global Emission Initiative's
efforts to accelerate societal transformations
Santiago, Chile

Web: <http://www.geiacenter.org/>

Message from IAMAS SG Office



We want to thank you for all the work you have done in the past 4 years!

All the best for further development of atmospheric science and researches.

Secretary-General: Teruyuki Nakajima

Assistant: Yoshi Sasaki, Nozomi Tomizawa, Miyuki Miyazaki

IAMAS_SG_office@jaxa.jp



Miyuki Terry Nozomi Yoshi