

*IACS promotes the advancement
of cryospheric sciences of
the Earth and solar system*



IACS

International Association
of Cryospheric Sciences

IACS NEWSLETTER

August 2019

Report from IUGG 2019 Montreal

In July many IACS members were gathered at the 27th International Union of Geodesy and Geophysics (IUGG) General Assembly in Montreal, Canada. More than 3500 registrants from more than 100 countries attended the meeting. IACS organized 15 sessions, in addition to 15 joint symposia with other IUGG Associations. Waleed Abdalati (CIRES/University of Boulder) gave the IACS union lecture which was well-attended. In addition, the three active Working Groups (WG) of IACS (ice thickness, debris cover and RGI) held meetings. IACS held its open plenary administrative meeting where the national IACS delegates elected a new bureau.

The next IUGG General Assembly will be held in Berlin, Germany, in July 2023.



From the meeting of the WG group for debris covered glaciers.
Photo: Liss M. Andreassen



IACS held its traditional Fiesta Cryospherica in the old town of Montreal. Photo: Regine Hock



WGMS officer Samuel Nussbaumer presenting IACS President Regine Hock a gift of an original publication on glacier monitoring dating back to 1895.
Photo: Andrew Mackintosh

IACS and WGMS celebrate common roots extending back 125 years

Internationally coordinated glacier monitoring began in Zurich, Switzerland in 1894. Today, worldwide glacier monitoring is coordinated within the framework of the Global Terrestrial Network for Glaciers and carried out by the World Glacier Monitoring Service (WGMS), the U.S. National Snow and Ice Data Center (NSIDC), and the Global Land Ice Measurements from Space initiative (GLIMS). These three bodies operate under the coordination and support of the GTN-G Advisory Board which is chaired by the International Association of Cryospheric Sciences. In Montreal we began the celebration of the 125-year jubilee of internationally coordinated glacier monitoring jointly with WGMS.

New IACS bureau

At IUGG 2019 IACS held two bureau meetings, one for the outgoing bureau and one for the new bureau that was elected for 2019-2023. We're proud of our mix of career stage, gender, and global representation.

The new bureau is:

President:	Regine Hock (USA)
President-elect:	Liss M. Andreassen (Norway)
Secretary general:	Richard Essery (UK)
Vice Presidents:	Minghu Ding (China) Stanislav Kutuzov (Russia) Andrew Macintosh (Australia)
Heads of divisions:	
Snow & Avalanches:	Charles Fierz (Switzerland)
Glaciers & Ice Sheets:	Gwenn Flowers (Canada)
Sea Ice, Lake & River Ice:	Takenobu Toyota (Japan)
Planetary & other ices of the solar system:	Christine Schøtt Hvidberg (Denmark)



The outgoing IACS bureau: Ian Allison, Charles Fierz, Xiao Cunde, Hiroyuki Enomoto, Andrew Mackintosh, Liss M. Andreassen, Christine Schøtt Hvidberg, Anaïs Orsi and Regine Hock. Not present: Ethan Greene, Valérie Masson Delmotte and Stanislav Kutuzov



The new IACS bureau for 2019-2023: Minghu Ding, Andrew Mackintosh, Anaïs Orsi, Takenobu Toyota, Charles Fierz, Christine Schøtt Hvidberg, Regine Hock, Gwenn Flowers (on videolink), Liss M. Andreassen and Richard Essery. Not present: Stanislav Kutuzov

Ian Allison honorary member of IACS

Ian Allison was elected honorary member of IACS at the plenary meeting at IUGG 2019. Ian has been an enthusiastic and dedicated supporter of IACS for more than a decade. Ian is a glaciologist who has greatly advanced our understanding of the role of Antarctica in the global climate system. He became the second President of IACS in 2009, replacing founding President Georg Kaser. He served as President from 2009-2013, and Immediate Past President from 2013-2015. He then continued on the IACS Bureau as IACS Vice President from 2015-2019. Ian has been instrumental in helping to guide the direction of IACS, bringing a Southern Hemisphere perspective and developing connections to other scientific organisations via his extensive and distinguished international connections. Ian warrants appointment as an Honorary Member of IACS for leading the organisation through a critical early period, and for his distinguished contributions to science.



Ian Allison, in the East Antarctic sea-ice zone, October 2007, on an Australian Antarctic Division sea-ice voyage.

Paper on IACS history

Ian Allison with five co-authors, has compiled a paper recording the history of IACS and its predecessors as a contribution to a monograph celebrating IUGG's 100th year in 2019.

Allison, Fierz, Hock, Mackintosh, Kaser & Nussbaumer, 2019. IACS: past, present, and future of the International Association of Cryospheric Sciences, [History of Geo- and Space Sciences](#).

IACS awardees

The 2018 Early Career Scientist (ECS) Award recipients are Doug Brinkerhoff and Denis Felikson. The recipients received the awards at IUGG 2019.

The IACS ECS Prize is a bi-annual cash prize of € 1000 awarded to two early career scientists who have published the best scientific papers on a cryospheric subject as assessed by an independent evaluation committee. The objective of the prize is to recognize excellence in cryospheric science by honouring and promoting two ECS scientists, and to draw attention to the work of IACS.

Doug Brinkerhoff received the award for the paper: Brinkerhoff, Truffer & Aschwanden, 2017. [Sediment transport drives tidewater glac-ier periodicity](#). Nature Communications.

Denis Felikson received the award for the paper: Felikson, Bartholomaus, Catania, Korsgaard, Kjær, Morlighem, Noël, van den Broeke, Stearns, Shroyer, Sutherland & Nash, 2017. [Inland thinning on the Greenland ice sheet controlled by outlet glacier geometry](#). Nature Geoscience.



Denis Felikson and Doug Brinkerhoff received their award at the IACS plenary meeting at IUGG 2019. Photo: Andrew Mackintosh

IACS-IGS Graham Cogley award

The award was established in 2019 in memory of Graham Cogley (Trent University, Canada) who sadly passed away in October 2018. The award was initiated and is sponsored by the Cogley family, for a period of 20 years. The award is shared between the IACS and the International Glaciological Society (IGS), and recognizes Graham's outstanding contributions to glaciology, his sustained service to scientific organizations and the broader glaciological community, and his collegiality, kindness and extraordinary work ethic. The award is given annually to recognize excellence in cryospheric research by Early-Career Scientists.

In odd years the award is given by IACS to two students to recognize one oral and one poster presentation of exceptional quality at an IACS Assembly (held every two years).

In even years the award is given by IGS to two Early-Career Scientists who have published a paper of exceptional quality in the Journal of Glaciology or the Annals of Glaciology.

2019 awardees

The first two recipients of the IACS-IGS Graham Cogley award are Eric Keenan and Caroline Aubry-Wake for their presentations given at IUGG 2019.

Caroline Aubry-Wake receives the award for her talk entitled 'Fire and Ice: the Impact of Forest Fires on Glacier Ablation'. Eric Keenan receives the award for his poster entitled 'Modeling Antarctic Surface Mass Balance Using a Detailed Multi-Layered Snow Model'.

The awardees receive a certificate by IACS or IGS and a cash prize of CAD 500 each due to generous support from the Cogley family.



Caroline Aubry-Wake. Photo: Nathan Skillen



Eric Keenan. Photo: Caitlyn Hughes

Next IACS conference in 2021

IACS Assemblies occur every two years: at the IUGG General Assemblies every 4 years and once in between typically jointly with 1-2 other IUGG Associations. The next IACS conference is [BACO-21](#), the IAMAS-IACS-IAPSO Joint Assembly to be held July 18 - 23, 2021, in Busan, Republic of Korea.

IAMAS: *International Association of Meteorology and Atmospheric Sciences.*

IAPSO: *International Association for the Physical Sciences of the Oceans.*

About IACS

The International Association of Cryospheric Sciences (IACS) is a constituent Association of the International Union of Geodesy and Geophysics (IUGG).

IACS promotes and sponsors workshops, symposia and educational activities. IACS has targeted working groups on cryospheric topics.

IACS offers free individual membership:
www.cryosphericosciences.org