

APECS career development panel: (Inter)national opportunities for Asian early career scientists

The Association of Polar Early Career Scientists (APECS) is an international and interdisciplinary organization for students, postdoctoral researchers, early faculty members, educators and anyone with interest in the polar regions. The aims are to stimulate interdisciplinary and international research collaborations and develop effective leaders in polar research, education and outreach. APECS promotes education and outreach as an integral component of polar research, stimulates future generations of polar researchers, facilitates networking, and provides opportunities for professional career development. An important goal is thus to help early career scientists and students to better interact with colleagues and senior scientists. To this end, this **career development panel at the 3rd International Symposium on Arctic Research (ISAR3) in Tokyo, Japan (at the Conference room 2, Miraikan, January 16th 2013, 12h20-13h20)** is organized, to break the ice between senior scientists with an extensive career and young students eager to learn and who can benefit from the experience and perspectives of experienced mentors.

The panel is composed of experienced Japanese and international polar scientists who can advise participants on polar science careers, both academic and non-academic, in Japan and the rest of the world. Through short presentations, followed by a lively discussion, participants will learn about (inter)national polar science opportunities and can ask all the questions they want.

Panel moderator: Ines Tavernier, APECS Vice President 2012-2013, Marine@UGent coordinator at Ghent University, Belgium

Ines Tavernier finished her biology (zoology) studies in 2007 and obtained a master after master in marine and lacustrine sciences at Ghent University in 2008. She started then her PhD focusing on Holocene climate and relative sea-level changes in Lützow Holm Bay (East Antarctica). She is now in the final stage of her PhD and started as coordinator of the Marine@UGent consortium. This consortium unites 24 marine and maritime research groups from 5 faculties from Ghent University (Belgium), to promote and facilitate the interfaculty and interdisciplinary cooperation between these groups and with Flanders Marine Institute. She is actively involved in the national committees of APECS Belgium, and APECS BeNeLux and is Vice President in the Executive Committee.

Mentors

Larry Hinzman is the director of the International Arctic Research Center and is professor of Civil and Environmental Engineering at the University of Alaska Fairbanks. His primary research interests involve permafrost hydrology. He has conducted hydrological and meteorological field studies in the Alaskan Arctic continuously for over 25 years while frequently collaborating on complementary research in the Russian and Canadian Arctic. His research efforts have involved characterizing and quantifying hydrological processes and their inter-dependence with climate and ecosystem dynamics. Dr. Hinzman's academic degrees were earned from South Dakota State University, Purdue University and the University of Alaska Fairbanks in Chemistry, Soil Science, Agronomy and Soil Physics. He has

served as a member of the U.S. Polar Research Board, the U.S. Representative to the International Permafrost Association and is member of the Universities Council on Water Resources. He served as co-chair of the U.S. National Science Foundation study on the Arctic Freshwater Initiative and presently serves as chief scientist for the U.S. Department of Energy's Arctic Next Generation Ecosystem Experiment. He has served on the U.S. SEARCH (Study of Environmental Arctic Change) Observing Change Panel, the Alaska Governor's Sub-cabinet Economic Activities Technical Working Group, and on the advisory board for the Alaska Center for Ocean Science Education Excellence. He serves on the International Advisory Board for the Korea Polar Research Institute and on the Scientific Steering Group for WRCP Climate and Cryosphere (CliC). He is an Advisory Committee Member for the Alaska Center for Energy and Power and Association of Polar Early Career Scientists. He is strongly committed to facilitating international partnerships to advance our understanding of the arctic system.

Hans-Wolfgang Hubberten, graduated with the M.Sc in mineralogy at the University of Tuebingen, Germany and with the research doctorate in Sciences at the University of Karlsruhe. He was appointed as professor of Mineralogy, at the Earth Science Faculty at the University of Nuevo Leon, Mexico, from 1982 to 1986. In 1984, he attained the Habilitation as Dr. habil. at the University of Karlsruhe. From 1986 to 1991 he was appointed a senior scientist at AWI Bremerhaven. Since 1992 he is professor for Isotope Geology at the Potsdam University and head of the AWI Research Unit Potsdam with the Section of Periglacial Research. He built up a permafrost research team at AWI Potsdam, which is today held in internationally high esteem. He participated in more than 20 expeditions into the Arctic and Antarctic and contributed with his research papers to a better understanding of the processes in permafrost soils and in marine gas hydrates. He was appointed president of the International Permafrost Association (IPA) until summer of 2012.

Kazuyuki Shiraishi is director-general of the National Institute of Polar Research (NIPR), Japan since October 2011. He is a geologist and his major research interests include Pre-Cambrian continental crustal evolution in terms of petrology, geochronology and geochemistry. He paid particular attention to the formation of the late Proterozoic supercontinents in East Antarctica and surrounding continents. He served as Head of the Antarctic Meteorite Research Center, of the Polar Data Center and Vice-Director General in charge of the Antarctic Program at NIPR. He has been representative and member of various international and national committees on polar studies and logistics. He is currently the national representative of SCAR (Scientific Committee on Antarctic Research), ICSU (International Council for Science), FARO (Forum of Arctic Research Operators) and COMNAP (Council of Managers of National Antarctic Programs). He served as a vice-chair of COMNAP from 2008-2011.

Atsuko Sugimoto is professor at the Faculty of Environmental Earth Science, at Hokkaido University. After obtaining her Master and Doctoral degree at the Division of Atmospheric and Hydrospheric Science at the Graduate School of Science, Nagoya University, she became a postdoctoral fellow at the Mitsubishi Kasei Institute of Life Sciences (1990-1991). Between 1991 and 1996, she became an instructor at the Center for Ecological Research at Kyoto University. In 1994, she was a visiting scientist at the Department of Biology at the University of Miami. Between 1996 and 2003, she was an associate professor at the Center for

Ecological Research at Kyoto University. From 2003 and 2005 onwards, she became respectively a professor at the Graduate School of Environmental Earth Science and the Faculty of Environmental Earth Science, both at Hokkaido University. Her main research field is biogeoscience.

Volker Rachold is the Executive Secretary of the International Arctic Science Committee (IASC), from 2006 to 2008 based in Stockholm, Sweden, and, since 2009, in Potsdam, Germany. In this function, he is a member of various high-level international committees and coordinates multidisciplinary research activities and international conferences. Dr. Rachold graduated as a geochemist from Göttingen University, where he also obtained his Ph.D. in 1994. During the following 12 years, he worked for the Alfred Wegener Institute in Potsdam and Bremerhaven. In 2002, Dr. Rachold received his *habilitation* postdoctoral lecturing qualification from the University of Potsdam. His research focused on land-ocean interactions in the Siberian Arctic and he led several land- and ship-based Russian-German expeditions. He is author and editor of numerous scientific papers and serves as a reviewer for scientific journals and funding agencies.