



## APECS July 2009 Newsletter

"Men Wanted for hazardous journey. Small wages, bitter cold, long months of complete darkness, constant danger, safe return doubtful. Honor and recognition in case of success."

— Ernest Shackleton (1874–1922), newspaper announcement before his *Endurance Expedition* (Good thing today its not just Men that are wanted for Polar Research!)

Scientists wanted for shaping the future of polar research! We are repeating this sentence as a mantra. However, we still need more multi-talented polar researchers. Mixture of explorer, researcher, PR specialist and citizen of the globalized world who are characterized by excellence in research AND communication. Polar science, and society in general, will lose a lot if we just stay in our labs or go to field. We have to understand changes around the Poles, but also we need to learn how to describe that new polar world to the public, politicians and our friends. While our scientific future faces melting glaciers, thawing permafrost or degradation of tundra zones; the future of society depends on our skills to understand, predict and explain.

We hope all workshops, field schools, meetings, ice-breakers we already did and those we are going to organise bring us closer to this aim. And to see you all in good shape after field season... next adventure is waiting for all of us.

- Matt Strzelecki, APECS Vice-President

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## **APECS News and Updates**

### **DEADLINE EXTENDED: Apply to represent APECS on SCAR Scientific Committees**

APECS has been invited to nominate representatives to join each of the SCAR scientific working groups. The APECS member selected will be invited to join the business meetings, held as part of the open science conference in Buenos Aires in July 2010.

We are looking for serious and responsible upper level PhD students or postdoctoral researchers or early career faculty members to fill these positions. This is a unique opportunity to be the representative of the future of polar science in SCAR planning activities in your field of research. You will be participating in science planning at a high level.

If you wish to apply for one of these positions please complete the application form and send to [APECSinfo@gmail.com](mailto:APECSinfo@gmail.com) by 10 July 2009. Visit: <http://www.apecs.is/SCARcommittees> for more information.

### **Greetings from the APECS /UArctic IPY Polar Field School in Svalbard!**

Twenty four masters and undergraduate students from eleven nations traveled to Longyearbyen, Svalbard last weekend to take part in the first international and interdisciplinary IPY Polar Field school thanks to generous sponsorship from IPY Norway and UArctic.

The students have settled in nicely to their new home for the duration of the IPY Polar Field School – acclimating to the colder-than-usual weather (for most), fostering new friendships, and expanding upon their breadth of knowledge on polar issues. Over the past week and a half, the students have attended a series of lectures on Glaciology, Marine Biology, Terrestrial Biology, Permafrost, Oceanography and Climate Change. In addition to these lectures, the students have also been partaking in field excursions in and around Longyearbyen.

The students will be keeping a daily blog (in a variety of languages) on the IPY website ([www.ipy.org](http://www.ipy.org)) and we will be updating the APECS site ([www.apecs.is/svalbard09](http://www.apecs.is/svalbard09)) with blogs, pictures and lectures in the coming weeks. I hope you will enjoy reading about the students experiences in the high Arctic.

### **Contribute to the IPY Polar Resource Book**

Did you develop or adopt a new polar science activity or program for your students or community during IPY that was really successful? Now there is a way to share these successes with a much broader audience.

In an attempt to ensure efforts catalyzed by IPY will continue to inspire educators, students, and emerging polar researchers into the next generation a group of young, international, polar researchers with a shared commitment to outreach and education created the Polar Resource Book. The Book is a response to continual requests from educators and scientists wishing to raise awareness about the importance of polar science during a time of rapid planet-wide climate change. The vision quickly engaged the imagination of educators around the world who are part of the International Polar Year (IPY) community. It has since gained the support of IPY sponsors, the World Meteorological Organization (WMO), as well as the University of the Arctic, the United National Environment Programme (UNEP), and the organizing committee for the flagship IPY Science Conference to be held in Norway in June 2010.

<http://apecs.arcticportal.org/index.php/features/305-contribute-to-the-ipy-polar-resource-book.html>

### **APECS in the Spanish National Geographic**

In the May 2009 Issue of Spanish National Geographic you will find a great section about the IPY projects that Spain is involved with... and there are a lot! Since this issue was published we have had hundreds of new hits on the website from Spanish speaking countries, and many new members. Special thanks to IPY Joint Committee member Jeronimo Lopez-Martinez for giving a shout out to APECS.

<http://apecs.arcticportal.org/index.php/features/302-apecs-in-the-spanish-national-geographic.html>

### **Follow the Arctic Tipping Points Cruise and other APECS member blogs!**

The Arctic Tipping Points (ATP) cruise started in Tromsø 15 June, and headed north towards the northern Barents Sea and the Svalbard archipelago. On board there are 16 scientists, 5 artists and 2 journalists... and several APECS members and Advisors! The main goal of the cruise is to perform experiments along a temperature gradient in order to assess warming thresholds for metabolism, growth, reproduction and survival of individual Arctic planktonic organisms and communities. The experiments will encompass the full range of temperatures, spanning from pre-disturbance summer values (-1deg C) to the upper limit of forecasts for the 21st century.

We are highlighting their cruise in our new Polar Research Blogs area! Be sure to tell us about your blog!!  
<http://apecs.arcticportal.org/index.php/polar-blogs.html>

### **Michele Koppes to represent APECS on ICSU's Science Visioning Meeting**

Michèle Koppes is honored to have been nominated by APECS to attend ICSU's Science Visioning meeting this fall 2009. This event is part of a three-step strategic visioning process that will engage the international scientific community to identify the key research questions in Earth system science that need to be addressed over the next 10-20 years and the steps needed to answer them. The process involves both early career scientists and established leaders in the Earth system community, and will develop an interdisciplinary research strategy with strong social and economic components that is expected to have far-reaching influence on Earth system research for the next decade and beyond.

<http://apecs.arcticportal.org/index.php/all-news/21-news/296-michele-koppes-to-represent-apecs-on-icsu-science-visioning-meeting.html>

### **Jose Xavier to represent APECS on the Science Steering Committee for Integrating Climate and Ecosystem Dynamics in the Southern Ocean Program**

The IPY core programme ICED "Integrating Climate and Ecosystem Dynamics in the Southern Ocean" is a new international multidisciplinary initiative launched in response to the increasing need to develop integrated circumpolar analyses of Southern Ocean climate and ecosystem dynamics. ICED has been developed in conjunction with the Scientific Committee on Oceanic Research (SCOR) and the International Geosphere-Biosphere Programme (IGBP), through joint support from the Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) and Global Ocean Ecosystem Dynamics (GLOBEC) programmes.

<http://apecs.arcticportal.org/index.php/all-news/21-news/289-jose-xavier-to-represent-apecs-on-the-science-steering-committee-for-integrating-climate-and-ecosystem-dynamics-in-the-southern-ocean-program.html>

### **Want to get more involved in APECS? Join Our Membership-Wide Council Calls**

As you know, the APECS Executive Committee has initiated monthly Conference calls as a way to keep everyone better connected, share new ideas, get in touch with the advisory committee, national committees, and get to know each other better. These calls are open to all members interested in what is going on and how to get more involved.

- Tuesday, 14 July, 2000 GMT - Chaired by APECS Vice-President Liz Thomas
- Tuesday, 11 August, 1900 GMT - Chaired by APECS Vice-President Ben Beall
- Thursday, 17 September, 1900 GMT - Chaired by APECS Director Jenny Baeseman (Meet the Applicants for the 2009-2010 APECS Executive Committee)
- Monday, 12 October, 1800 GMT - Chaired by APECS Director Jenny Baeseman (Results of the ExCom Elections and initial ideas for 2009-2010)

If you would like to join one of these calls, just let us know at [APECSinfo@gmail.com](mailto:APECSinfo@gmail.com)

### **Message from the Director – UNIS: University Centre in Svalbard**

This week I have the pleasure of experiences Svalbard for the first time. I have been at 78 S and now at 78 N and it amazes me the similarities that I see, differences too of course. I can see very clearly why various aspects of polar research needs to be bi-polar and we need Arctic and Antarctic researchers to work closely together to share information and techniques.

I am here giving a few lectures at the fabulous University Centre in Svalbard (UNIS) and am very impressed by not only the great facilities and logistical support, but the various research projects and the truly international flavor of Longyearben and UNIS.

The International and interdisciplinary IPY Polar Field School 2009 kicks off today. 24 undergraduate students from all over the world will gather at UNIS to have three weeks of lectures and field excursions, focusing on the research that has been performed during the IPY. When the application deadline for the field school passed, the organizers had an amazing 297 applications from students in 50 countries. To follow their adventure, visit The APECS Lounge to read their blogs at

<http://apecs.arcticportal.org/index.php/discussion-board.html?func=showcat&catid=15>

The University Centre in Svalbard (UNIS) is the world's northernmost higher education institution, located in Longyearbyen, Spitsbergen at 78°N. UNIS offers high quality courses at the undergraduate, graduate and postgraduate level in Arctic Biology, Arctic Geology, Arctic Geophysics and Arctic Technology. About 350 students from all over the world take one or more courses every year at UNIS. The student body consist of 50 % Norwegian and 50 % international students and English is the official language at UNIS. There are no tuition fees and there is affordable student accommodation in "Nybyen". UNIS' faculty consist currently of 20 fulltime professors, 21 assistant professors and 120 guest lecturers who specialize in arctic issues. UNIS researchers work in collaboration with Norwegian and foreign research institutions and are actively involved in a large number of joint research projects.

For more information, visit <http://www.unis.no/>

## Important news from APECS partners

### **Arctic Frontiers 2010 – First call for papers**

The scientific conference of Arctic Frontiers 2010 (27-29 January 2010 in Tromsø, Norway) consists of three parallel sessions that will focus on the effects of ongoing climatic changes on sea-ice and marine biodiversity as well as social science and health research on economy, self-governance, and well-being in Arctic communities;

<http://apecs.arcticportal.org/index.php/all-news/21-news/307-arctic-frontiers-2010-first-call-for-papers.html>

### **Global Climate Change Impacts in the United States**

The Global Change Research Program has released a new report: Global Climate Change Impacts in the United States. The report summarizes the science and the impacts of climate change on the United States, now and in the future. It focuses on climate change impacts in different regions of the U.S. and on various aspects of society and the economy such as energy, water, agriculture, and health. The report is written in plain language, with the goal of better informing public and private decision making at all levels.

<http://apecs.arcticportal.org/index.php/all-news/21-news/306-global-climate-change-impacts-in-the-united-states.html>

### **National Snow and Ice Data Center: Spring issue, Number 67**

The National Snow and Ice Data Center (NSIDC) announces the availability of the spring issue of NSIDC Notes, Number 67. NSIDC Notes is published quarterly in electronic format. Archived versions of the newsletter are also available at the website: <http://nsidc.org/pubs/notes/>.

Selected items in this issue include:

- Mark Serreze named NSIDC Director;
- Collapse of the ice bridge supporting Wilkins Ice Shelf;
- Updates to existing data sets;

<http://apecs.arcticportal.org/index.php/all-news/21-news/303-national-snow-and-ice-data-center-spring-issue-number-67.html>

### **Arctic Forum Abstracts: "Tipping Points - The Arctic and Global Change" Available**

ARCUSARCUS is pleased to announce the publication of the 11th edition of Arctic Forum Abstracts: "Tipping Points - The Arctic and Global Change."

<http://apecs.arcticportal.org/index.php/all-news/21-news/301-arctic-forum-abstracts-tipping-points-the-arctic-and-global-changeq-available.html>

### **Live Greenland Science Event! 8 July - open to all and free!**

Join PolarTREC for a real-time event about science being conducted in Greenland on 8 July 2009! This special seminar is part of the Greenland Education Tour 09', a group of educators and students from Greenland, Denmark and the United States, touring Greenland to learn more about the science being conducted in this unique polar region. The tour participants will be joining the seminar from Kangerlussauq, Greenland. The public is invited to join and learn more about the issues of Greenland. You will have a chance to ask questions and chat with others during the presentations.

<http://apecs.arcticportal.org/index.php/all-news/21-news/297-live-greenland-science-event-8-july-open-to-all-and-free.html>

### **Deep sea research: Topic in oceanography, special issue on Southern Ocean Shelf Slope Exchange**

Volume 56, Issues 13-14, Pages 775-894 (June 2009)

Southern Ocean Shelf Slope Exchange

Edited by Arnold L. Gordon, Andrea Bergamasco and Laurence Padman

<http://apecs.arcticportal.org/index.php/all-news/21-news/294-deep-sea-research-topic-in-oceanography-special-issue-on-southern-ocean-shelf-slope-exchange.html>

### **POLARCAT "mega-session" at Fall 2009 AGU**

From June 2-5 an international group of atmospheric scientists participating in the POLARCAT field campaigns met at the University of New Hampshire to discuss preliminary results from their IPY activities. Major discussion topics were sources, long range transport, and the fate of light absorbing carbon in the Arctic atmosphere. Those involved agreed to form a single "mega-session" at the 2009 Fall AGU meeting.

<http://apecs.arcticportal.org/index.php/all-news/21-news/290-polarcat-qmega-sessionq-at-fall-2009-agu.html>

### **New Issue Available: Arctic, Antarctic, and Alpine Research. Volume 41, Number 2**

The May 2009 issue of the journal "Arctic, Antarctic, and Alpine Research" (AAAR) is now available from the Institute of Arctic and Alpine Research at the University of Colorado Boulder. To view the journal and for further information, please go to: <http://instaar.colorado.edu/AAAR/index.html>

<http://apecs.arcticportal.org/index.php/all-news/21-news/295-arctic-antarctic-and-alpine-research-volume-41-number-2.html>

### **Latest Scientific Committee on Antarctic Research newsletter available**

The latest edition of the quarterly SCAR Newsletter is now available to view on the SCAR website at:

<http://www.scar.org/news/newsletters/issues2009/jun09.html>

### **Advanced Biology Training Course in Antarctica, January 2010**

A National Science Foundation sponsored course, entitled "Integrative Biology and Adaptation of Antarctic Marine Organisms", will be held in Antarctica at the United States' McMurdo Station for one month, starting January 2010. This is an international course, open to all nationalities. Applications are invited from graduate students currently enrolled in a Ph.D. program, postdoctoral fellows, and early-career faculty who are interested in the study of extreme environments and the biology of Antarctic organisms. Full scholarships are available for each participant accepted into the course to cover the cost of travel from home institution to Antarctica, and room and board while in Antarctica.

<http://apecs.arcticportal.org/index.php/all-news/21-news/316-advanced-biology-training-course-in-antarctica-january-2010.html>

## **Meetings, Workshops, and Conferences**

For all meetings related to polar research, visit: <http://www.apecs.is/meetings>

### **UPCOMING EVENTS**

If you know of a conference coming up and would like to organize an APECS meeting, we are happy to help you, just let us know ([apecsinfo@gmail.com](mailto:apecsinfo@gmail.com)). Organizing a meeting is a great way to gain experience, and meet senior researchers that can help you in the next steps of your career.



## **Antarctica New Zealand's Annual Antarctic Conference**

01.07.2009 - 03.07.2009

Location: University of Auckland - interdisciplinary

Category: APECS Workshop

Taking your research further - communicating science to the wider public Do you wish to be more effective communicating your research? Would you like to learn about easy ways to engage the wider public in your science? This workshop will address these questions through a panel discussion with members of the scientific community as well as education and outreach experts. The panel discussion will expose you to a breadth of outreach opportunities and ideas on how to share your research and experiences of Antarctica more effectively with the general public. The workshop will provide you with the opportunity to network with, and learn from, science communicators (media, teachers, educators etc.) and other scientists with a lot of outreach experience. This workshop is run by the APECS and sponsored by the Royal Society of New Zealand.

<http://www.apecs.is/NewZealand09>

## **APECS Polar Careers Panel Discussion at MOCA-09**

21 July 2009 from 18.30 h - 20.30 h

Location: Montreal, Canada

Meeting Room: 520de, in the Palais des congrès Montreal

Mentors:

Dr. Karen J. Heywood, Physical Oceanographer, School of Environmental Sciences

Mr. Claude Labine, President of Campbell Scientific (Canada) Corp. and Arctic Meteorologist

Dr. Ian Allison, Senior Principal Research Scientist, Australian Antarctic Division

- one other panelist yet to be confirmed

<http://www.apecs.is/moca09> or contact Alexandra Jahn ([alexandra.jahn@mail.mcgill.ca](mailto:alexandra.jahn@mail.mcgill.ca))

This event is sponsored by Campbell Scientific Canada, the Global Environmental and Climate Change Center, and the Faculty of Science and Dept. of Atmospheric and Oceanic Sciences at McGill University.

## **APECS Activities at the SCAR Biology Symposium**

29 July 2009 at 1300 h - Room TBD

Location: Hokkaido, Japan

APECS together with the SCAR biology symposium local organizing committee have planned a few activities to help young scientists at this symposium gain professional advice from senior scientists and educators and provide a venue to build collaborations and networks among each other and senior researchers. These activities are 1) a Polar Research Career Panel discussion 2) an APECS social, and 3) a web-based 'Career Center' for job connections at SCAR biology symposium. At this biology symposium, there will be a APECS Career Panel Discussion, a social event, and a career center on the website.

<http://www.apecs.is/scarbiology09> or contact Chao Tang ([ctang003@ucr.edu](mailto:ctang003@ucr.edu))

## **APECS Climate Session at First World Young Earth-Scientists (YES) Congress 2009**

Dates: October 25-28th, 2009

Location: China University of Geosciences in Beijing, China.

Website: <http://www.yescongress2009.org/>

The Young Earth Scientists for Society (YES) network, an association of earth scientists under the age of 35 years representing geological societies from around the world, in collaboration with the International Year of Planet Earth (IYPE), is organising a world congress for young earth scientists, policy makers, advisors and decision makers. The conference will discuss global climate, environmental and geological challenges facing today's society, and to establish an interdisciplinary global network of individuals committed to solving these challenges. The YES Congress will be held at the China University of

Geosciences, in Beijing, China from October 25-28, 2009. For more information visit <http://www.yescongress2009.org/>

APECS is organizing the Climate Roundtable Session at that conference. Confirmed participants are the confirmed speakers are Liz Thomas (BAS), Dr David Schneider (NCAR), Dr Hamish Pritchard (BAS) and Dr Jianping Li, Deputy Director and Professor, National Key Laboratory of Atmospheric Sciences and Geophysical Fluid Dynamics (LASG), Chinese Academy of Sciences (CAS). We are still awaiting confirmation from Ragnar Baldursson- Senior Arctic Official for Iceland and Hugues Lantuit- Executive Secretary for the International Permafrost Association.

For more information and to get involved, please contact Liz Thomas ([LITH@bas.ac.uk](mailto:LITH@bas.ac.uk)).

### **IPY International Early Career Researcher Symposium**

- A Career Development workshop sponsored by IPY Canada/APECS/ArcticNet/NRF

04.12.2009 - 08.12.2009

Location: Victoria, BC, Canada – interdisciplinary

*Note: The ArcticNet Conference is being held 8-11 December in Victoria, B.C.*

Website: <http://www.apecs.is/victoria09>

Objective: To bring early career Arctic and Antarctic researchers together for a series of career development training sessions to develop professional skill, work with senior mentors, and develop international and interdisciplinary collaborations.

Session Themes are:

- Community Based Research – Lead by Amy Wiita
- Funding your ideas – Lead by Gerlis Fugmann and Laura McKinnon
- Working with Policy Makers – Lead by Harry Borlase, Alex Taylor and Gerlis Fugmann
- Communicating your Science – Lead by Jenny Baeseman and Dave Carlson
- How Do I Get Started in Science? – Lead by Alex Taylor, Harry Borlase and Kim Jochum
- Data management – Lead by Ben Beall
- Time Management and Work/Life Balance – Lead by Laura McKinnon and Nadja Steiner

### **Jobs/Opportunities**

**OVER 30 OTHER JOB OFFERS AT OUR WEBSITE :**

<http://apecs.arcticportal.org/index.php/jobs.html>

Latest jobs:

Type: **Graduate Positions, Postdoctoral Researcher**

Interest areas:

Location: Barcelona, Spain

Closing date: Wed Sep 30 2009

The project combines modern observations, climate (ocean, atmosphere) modelling and marine palaeoclimatology.

[www.uab.cat/icta](http://www.uab.cat/icta)

Type: **Postdoctoral Researcher**

Interest areas: Glaciology, Physics, Sea Ice

Location: Wellington, New Zealand

Closing date: Fri Jul 31 2009

They seek a research fellow to investigate ice sheets, climate and sea level change and their influence in the SW Pacific region.

For further information please contact: [Tamsin.Falconer@vuw.ac.nz](mailto:Tamsin.Falconer@vuw.ac.nz) Reference A182-09Q

Applications close 31 July 2009 For further information and to apply online visit

<http://vacancies.vuw.ac.nz/positiondetail.asp?p=4870>

**Type: Postdoctoral Researcher**

Interest areas: Biology/Ecology, Chemistry, Oceanography

Location: European Institute for Marine Studies (IUEM), Brest-France

Closing date: Wed Jul 1 2009

The Europole Mer invites applications for one Postdoctoral research fellow for a position at the European Institute of Marine Studies (IUEM) in Brest, France. We seek a person with a strong background in trace metal geochemistry and/or non-traditional stable isotope geochemistry.

Interested individuals should apply by sending a CV, statement of research interests and contact details of three referees by July 1st 2009 to Séverine Thomas (severine.thomas@univ-brest.fr), Director of GIS Europole Mer, Technopole Brest Iroise, 29280 Plouzane, France. Further details on this position can be obtained from Olivier Rouxel ([orouxel@whoi.edu](mailto:orouxel@whoi.edu))

**Type: Postdoctoral Researcher**

Interest areas: Biology/Ecology, Environmental Science, Geology, Oceanography

Location: NIOZ Royal Netherlands Institute for Sea Research

Closing date: Open until filled

The task of the BGC department in this project will be the analysis of specific lipids of key microbial players in the nitrogen cycle to trace their activity and ecological niche. Participation in research cruises will also be part of the job. Within the project the post-doc will primarily interact with molecular ecologists and modellers. Further information can be obtained from Prof. dr. Jaap Sinninghe Damsté (damste@nioz.nl, +31 222 369550) or dr. Stefan Schouten (schouten@nioz.nl, +31 222 369565).

**Type: Canada Research Chair (Tier 1) in Water Policy**

Location: University of Saskatchewan

The University of Saskatchewan (U of S) invites applications for a Tier I Canada Research Chair (CRC) in the field of Water Policy. The ideal candidate will have a PhD or equivalent qualification, be a nationally/internationally recognized scholar with a strong record of attracting competitively awarded research funding, and have experience or interest in developing interdisciplinary research partnerships and approaches. The successful candidate will be appointed to a tenured or tenure-track position at the Associate or Full Professor level commensurate with qualifications within one or more of the three Schools. The Chair will be awarded for a seven-year period and is renewable. Review of applications will begin immediately and continue until a suitable candidate is found.

For information about the University of Saskatchewan, please visit [www.usask.ca](http://www.usask.ca). For information about the three Schools, please visit [www.usask.ca/sens](http://www.usask.ca/sens), [www.schoolofpublicpolicy.sk.ca](http://www.schoolofpublicpolicy.sk.ca), & [www.usask.ca/sph](http://www.usask.ca/sph). Questions related to this CRC opportunity should be directed to Dr. Karsten Liber at [karsten.liber@usask.ca](mailto:karsten.liber@usask.ca).

**Type: Assistant Professor position in GIS/Geospatial Technologies and Physical Geography**

Interest areas: GIS, Physical Geography

Location: The Elmhurst College Department of Geography and Geosciences, Chicago

Closing date: Open until filled

The Elmhurst College Department of Geography and Geosciences announces a full-time tenure-track Assistant Professor position in GIS/Geospatial Technologies and Physical Geography to begin at the start of the academic year 2010-2011. Qualifications: A PhD in Geography/GIS or a related discipline, (or ABD in Geography/GIS or related discipline), with an emphasis on Latin America as a regional specialty area. All candidates should have exceptionally strong teaching experiences and a record of excellence in scholarship and involvement in their discipline. To apply direct your submission to Search Committee, Department of Geography and Geosciences, Elmhurst College 190 Prospect Avenue, Elmhurst, IL 60126-3296 or apply online at [www.elmhurst.edu](http://www.elmhurst.edu). Submission should include an application, academic CV, cover letter that addresses teaching interests and speaks to curricular development in GIS and/or geospatial technologies, evidence of teaching excellence, and contact details for three letters of reference.

**Please take a look also at <http://www.earthworks-jobs.com/index.shtml> - probably the biggest job portal for earth sciences!**