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August 2009 U.S. CLIVAR News-gram

Table of Contents

i – Calendar of Upcoming Events

Research Opportunities

1. Announcement of Opportunity NSF-OPERA (Arctic Research)
2. Announcement of Opportunity NSF Climate Change Education
3. Announcement of Opportunity Organization of Projects on Environmental Research in the Arctic National Science Foundation
4. START Grants for Global Environmental Change Research in Africa: Call for Proposals
5. Kiel Earth Institute Fellowship
6. The Martha T. Muse Prize for Science and Policy in Antarctica Tinker Foundation Scientific Committee on Antarctic Research (SCAR)

Position Announcements

7. Positions available at The Earth Sciences Division (ESD) at Lawrence Berkeley National Laboratory
8. Senior climatologist at the Illinois State Water Survey
9. Postdoc Position at the University of Maryland

Meetings and Workshops

10. NOAA's 34th Climate Diagnostics and Prediction Workshop
11. Workshop and conference on "Biogeochemical Impacts of Climate and Land-Use Changes on Marine Ecosystems"
12. Earth-System Initialization for Decadal Predictions Workshop
13. DISCCRS V - Interdisciplinary Climate Change Research Symposium

ANNOUNCEMENTS

- **ICSU Seeks Input on Shaping New Research Agenda for Global Change Research**
- **National Center for Environmental Prediction Survey of Stakeholders**
- **New GEWEX Products Available**
- **International Polar Year Report Now Available**
- **Scientific Committee on Antarctic Research (SCAR) Newsletter: Issue 19, June 2009**
- **Climate and Cryosphere (Clic) Project Newsletter Available**

CALENDAR of UPCOMING EVENTS

(for more information-www.usclivar.org/calendar.html)

September 2009

- 21-25: Ocean Obs '09 (Venice, Italy)
21-25: ICES Annual Conference (Berlin, Germany)
28-30: CLIVAR Working Group on Coupled Models (San Francisco, USA)

October 2009

- 5-9: 5th WMO Symposium on Data Assimilation (Melbourne, Australia)
12-15: Decadal Climate Predictability and Prediction: Are we ready? (St. Michaels, MD)

26-30: NOAA Climate Diagnostics and Prediction Workshop (Monterey, CA)

Research Opportunities

1. Announcement of Opportunity NSF-OPERA (Arctic Research)

http://www.nsf.gov/pubs/2009/nsf09599/nsf09599.htm?govDel=USNSF_2

Proposals due Dec 11, 2009

Organization of Projects on Environmental Research in the Arctic (OPERA)

This solicitation seeks proposals for activities to foster and sustain collaboration among projects funded by NSF that contribute to the US arctic environmental change research effort. Many of these projects began during the International Polar Year (IPY) and are currently affiliated with the US Study of Environmental Arctic Change (SEARCH) and the Arctic Observation Network. Others are supported outside of the auspices of SEARCH and IPY. The project or projects supported through this solicitation will provide resources to the scientific leadership that are needed to implement SEARCH's broad science agenda. The scope covers SEARCH generally and its component parts, observing, understanding and responding. One key additional effort, which has gained prominence during the IPY, is needed to tie all these together: a robust and modern approach to managing and enabling discovery of Arctic scientific data.

2. Announcement of Opportunity NSF Climate Change Education

Climate Change Education seeks to ensure that individuals and communities understand the essential principles of Earth's climate system and the impacts of climate change, and are able to make informed and responsible decisions with regard to actions that may affect climate. (Climate Literacy: The Essential Principles of Climate Science, March 2009, available at <http://www.globalchange.gov/>). NSF supports substantial investment in basic research that informs what we know about Earth's changing climate and can guide decisions about how best to respond to change. (Solving the Puzzle: Researching the Impacts of Climate Change Around the World, NSF report, 2009, available at <http://www.nsf.gov/news/nsf09202/index.jsp>). It is critical that climate scientists play an active role in the dissemination of their findings and that students at all levels, and in formal and informal learning settings, and the general public have access to data in ways that facilitate climate literacy and informed decision making. What are the most effective ways to communicate to students and the general public about how the Earth is changing in response to human activities? How can they have meaningful access to data collected at large observatory networks, for example, the Long Term Ecological Research (LTER) networks, the National Ecological Network (NEON,) and the data bases to be coordinated under the Sustaining Arctic Observing Networks (SAON) initiative, see <http://www.arcticobserving.org/>)? How can local high impact activities be scaled up and serve as national models? What are effective climate change literacy professional development opportunities for policy decision makers at all levels? How do we assess changes in individual's understanding of the Earth's climate system and the decisions they make about their actions?

For more information, see the Dear Colleague Letter and links therein
(http://www.nsf.gov/pubs/2009/nsf09058/nsf09058.jsp?govDel=USNSF_25)

3. Announcement of Opportunity Organization of Projects on Environmental Research in the Arctic National Science Foundation

Full Proposal Deadline: 11 December 2009

The NSF has issued an announcement of opportunity: Organization of Projects on Environmental Research in the Arctic (OPERA). This solicitation seeks proposals for activities to foster and sustain collaboration among projects funded by NSF that contribute to the U.S. arctic environmental change research effort. Many of these projects began during the International Polar Year (IPY) and are currently affiliated with the U.S. Study of Environmental Arctic Change (SEARCH) and the Arctic Observation Network (AON). Others are supported outside of the auspices of SEARCH and IPY. The project or projects supported through this solicitation will provide resources to the scientific leadership that are needed to implement SEARCH's broad science agenda. The scope covers SEARCH generally and its component parts, observing, understanding, and responding. One key additional effort, which has gained prominence during the IPY, is needed to tie all these together: a robust and modern approach to managing and enabling discovery of arctic scientific data.

Anticipated Funding Amount: \$10,000,000 to \$15,000,000 is expected to be awarded over a three-year period, pending availability of funds. However, awards up to five years may be considered.

Proposals may only be submitted by the following:

- For-profit organizations: U.S. commercial organizations, especially small businesses with strong capabilities in scientific or engineering research or education.
- Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.
- Universities and Colleges: Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the U.S., acting on behalf of their faculty members. Such organizations are also referred to as academic institutions.

4. START Grants for Global Environmental Change Research in Africa: Call for Proposals
START, the global change SysTEM for Analysis, Research and Training (www.start.org) is pleased to announce a Call for Proposals for research and assessments of global environmental change (GEC) in Africa in the context of the Joint Projects of the Earth System Science Partnership (ESSP)¹. Proposals must be relevant to one or more of the following four ESSP Joint Projects. **Proposals are due on August 30, 2009.**

Contact START (<http://www.start.org>) or Charles Kauffman (cskauffman@agu.org) for further info.

5. Kiel Earth Institute Fellowship

The Kiel Earth Institute (KEI) offers two Visiting Fellowships for established scientists from abroad. The Fellowships are awarded for a period of four weeks to three months and is tenable during September 2009 and March 2010. The fellowships are intended for highly-qualified established scientists from all disciplines, whose research interests are in the area of the research scope of the KEI.

The funding will cover travel costs, accommodation and a small per diem. The amount of the funding depends on the duration of stay, but must not exceed 5000 € in total. All Visiting Fellows will have access to an office space, computer facilities and to the IFM-GEOMAR Library and the German National Library of Economics.

Application requirements:

- Established scientist
- Academic publications reviewed according to international standards and printed in journals and/or publishing houses
- Research plan (letter of interest) showing interest in interdisciplinary research on questions of the KEI
- Good English skills

Application procedure

The application process is ongoing. To apply for the fellowship please send a CV and a letter of interest outlining your planned programme of activities during your stay (2-3 pages). The application form may be printed and submitted via regular mail or email, as indicated below:

Kiel Earth Institute

Düsternbrooker Weg 2

24105 Kiel, Germany

Email: ulrike.bernitt@kiel-earth-institute.de

For more information see www.kiel-earth-institute.de

6. Martha T. Muse Prize for Science and Policy in Antarctica Tinker Foundation Scientific Committee on Antarctic Research (SCAR)

Nomination Deadline: 15 October 2009

For further information, please go to: <http://www.museprize.org>

The Tinker Foundation and the Scientific Committee on Antarctic Research (SCAR) invite nominations for the Martha T. Muse Prize for Science and Policy in Antarctica. The prize is a one time, unrestricted award of USD \$100,000, presented to an individual in any field of Antarctic science or policy, who has demonstrated potential for sustained and significant contributions that will enhance the understanding and/or preservation of Antarctica. The prize is inspired by Martha T. Muse's passion for Antarctica, and is intended to be a legacy of the International Polar Year (IPY).

The prizewinner can be from any country and work in any field of Antarctic science or policy. The goal is to provide recognition of the important work being done by the individual, and to call attention to the significance of understanding Antarctica in a time of change.

Nominations should be made online via the prize website. Self-nominations will not be considered. The information required for a full nomination includes a cover page containing contact information, the nominee's curriculum vitae, and letters of nomination. For a full description of nomination materials, please go to: <http://www.museprize.org/nominations.html>.

Position Announcements**7. Positions at The Earth Sciences Division (ESD) at Lawrence Berkeley National Laboratory****Climate Postdoctoral Fellow - 23252**

The Earth Sciences Division (ESD) at Lawrence Berkeley National Laboratory (LBNL) seeks a Postdoctoral Fellow to support ESD in its development of the iESM (integrated Earth System Model). iESM will be one of the first state-of-the-art climate models to treat economic and climate processes in a single unified framework, with the goal of assessing the sustainability of bioenergy over the 21st century. The research is supported by the Department of Energy in

conjunction with the international Community Climate System Model (CCSM) project. The Researcher will work with other members of LBNL's rapidly growing Climate Sciences Department and will have opportunities for collaboration with the DOE National Laboratories, the National Center for Atmospheric Research, UC Berkeley and other partner universities. Please apply online at <<http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23252&p=1>>, and follow the online instructions to complete the application process.

Climate Postdoctoral Fellow - 23258

Lawrence Berkeley National Laboratory (LBNL) has an exciting opportunity for a Postdoctoral Fellow. The person in this role will be researching extreme weather events and climate change. The research is supported by the Department of Energy in conjunction with the international Community Climate System Model project. The Researcher will work within both LBNL's Computational Research Division and the rapidly growing Climate Sciences Department in the Earth Sciences Division. Analysis will take place at the National Energy Research Scientific Computing Center (NERSC) at LBNL. The successful applicant will also collaborate closely with research partners at the Lawrence Livermore, Los Alamos, and Oak Ridge National Laboratories; the National Center for Atmospheric Research; and UC Berkeley. Please apply online at <<http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23258&p=1>>, and follow the online instructions to complete the application process.

Climate Research Scientist - 23254

The Earth Sciences Division at the Lawrence Berkeley National Laboratory (LBNL) seeks a Research Scientist to support the Center for Integrated Earth System Modeling and the Climate Sciences Department. Scientists with interest and expertise in the nexus of carbon, energy, and climate change are particularly encouraged to apply. The initial opportunity is to develop a research program around the iESM (integrated Earth System Model). iESM will be one of the first state-of-the-art climate models to treat economic and climate processes in a single unified framework, with the goal of assessing the sustainability of bio-energy over the 21st century. This scientist will be encouraged to collaborate closely with fellow investigators at the DOE National Laboratories, the National Center for Atmospheric Research, UC Berkeley and other partner universities. This is an exceptional opportunity for a researcher who is ready to move into a career-track position with a world-class national laboratory. Please apply online at <<http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23254&p=1>>, and follow the online instructions to complete the application process.

Climate Research Scientist/Staff Scientist - 23261 Lawrence Berkeley National Laboratory (LBNL) seeks an experienced Research/Staff Scientist to join our Earth Sciences and Computational Research Divisions. The successful candidate will be expected to contribute to the understanding of the mechanisms response for extreme weather events. Statistical analysis of observed extreme weather would be compared to climate model simulations of the past and the future to ascertain and improve the credibility of extreme weather projections under climate change scenarios. Options to develop one's own independent line of research will be especially encouraged. The analysis will be performed at the National Energy Research Scientific Computing Center (NERSC) at LBNL. The Scientist would also collaborate with fellow investigators at the DOE National Laboratories, the National Center for Atmospheric Research, UC Berkeley and other partner universities. Please apply online at <<http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23261&p=1>>, and follow the online instructions to complete the application process.

8. Senior climatologist at the Illinois State Water Survey
<http://www.isws.illinois.edu/jobs/announcement.asp?jobid=326>

The Division of Illinois State Water Survey within the Institute of Natural Resource Sustainability at the University of Illinois is seeking a full-time Senior Research Climatologist. The primary function of the position will develop a research program focused on climatological processes or impacts of climate variations and change, particularly in the US Midwest and the nation.

Please refer to <<http://www.isws.illinois.edu/jobs/joblist.asp>>. To ensure full consideration, a cover letter, resume and the names, addresses, phone numbers, and e-mail addresses of three professional references must be received by September 15, 2009. All requested information must be submitted for your application to be considered.

9. Postdoc Position at the University of Maryland

A two year postdoc position for a bright new graduate with expertise in one of the following; Coastal physical and/or biogeochemical modeling, monsoons/MJOs, ocean/atmosphere modeling, global biogeochemistry. The position to start immediately. Earth System Science Interdisciplinary Center at the University of Maryland is located in the Washington DC metro area with close proximity to NASA and NOAA. A more senior candidate interested in a soft-money PI position can also apply. Please send your latest CV and names of three references to ragu@essic.umd.edu.

Meetings and Workshops

10. NOAA's 34th Climate Diagnostics and Prediction Workshop Monterey, California, 26-30 October 2009

The workshop will concentrate on the status and prospects for advancing climate monitoring, assessment and prediction, with emphasis on societal impact of climate over the western US. This includes three major themes: (i) improving climate predictions / predictability, (ii) understanding and attribution of climate variability and its impacts, and (iii) application of climate predictions / projections in the development and delivery of products relevant to user communities in the Western US. The Workshop will feature oral sessions with a mix of invited and submitted presentations and thematic poster sessions.

The primary focus areas for the workshop will include: 1) Recent Climate Events. 2) Coupled atmosphere-ocean modeling of the climate system. 3) Impact of global scale climate variations on western US weather and climate. 4) Shift in climate means and interdecadal variations. 5) Application of climate science in decision making.

The outcome of this year's workshop will be an assessment of our current understanding and ability to predict climate in time scales ranging from week-2 through interdecadal, including identifying opportunities for advances, and exploring new products to support regional decision making.

A web site for the workshop information and abstract submission is linked through:

<http://www.cpc.ncep.noaa.gov/products/CDPW34.shtml>

The abstract deadline is **AUGUST 7, 2009**.

11. Workshop and conference on "Biogeochemical Impacts of Climate and Land-Use Changes on Marine Ecosystems"

2-10 November 2009

Abdus Salam International Center for Theoretical Physics in Trieste, Italy

The workshop (2-8 November), followed by a two day conference, will focus on the interplay between physical and chemical factors in controlling biological production in coastal tropical oceans. The following general topics will be addressed:

1. The influence of changes in ocean temperature and circulation associated with climate change on the nature and rates of biogeochemical processes in coastal waters.
2. The interplay between changes in precipitation, hydrological processes, and the water balance of coastal systems.
3. The impact of human processes, including land-use changes, increased fertilizer use, and increased sewage loading, on coastal ecosystems.

The workshop is aimed at graduate and postgraduate students interested in the impact of climate and land-use changes on coastal marine ecosystems. The workshop will consist of a mix of lectures and hands-on work with coupled biological-physical models. The conference will be an opportunity for synthesis and development of interdisciplinary research initiatives.

Scientists and students from all countries that are members of the United Nations, UNESCO, or the IAEA may attend the Workshop, which will be conducted in English. Scientists and students from developing countries are particularly encouraged to take part.

The application for the workshop and meeting can be accessed at <http://agenda.ictp.it/smr.php?2066>

For more information, please see the attached announcement or contact the workshop organizers at smr2066@ictp.it

12. Earth-System Initialization for Decadal Predictions Workshop 4-6 November, Utrecht, the Netherlands

The workshop aims to Exchange best practices and provide future directions for earth-system initialization for decadal predictions. The workshop will be limited to 60 persons of which 30 will be invited. If needed, a selection of interested participants will be made by the Scientific Steering Group. In plenary presentations and working groups, best practices and future directions will be discussed.

More details on the workshop will be available at the following website:
<http://www.knmi.nl/samenw/easyinit.html>

Deadline for registration is **1 August 2009** Abstracts should be submitted by sending an email to: Brigitta.Kamphuis@knmi.nl

13. DISCCRS V - Interdisciplinary Climate Change Research Symposium

13-20 March 2010

Saguaro Lake Ranch, AZ

Application Deadline

31 August 2009

Participation limited to thirty-four early career scholars /Airfare and on-site expenses supported by the National Science Foundation /<http://discrs.org/>

The Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS, pronounced /discourse/), connects natural and social scientists engaged in research related to

climate change, impacts and solutions. The goal is to broaden perspectives and establish a collegial peer network to address climate challenges at the interface of science and society. A report and list of participants from the most recent symposium is available at http://discrs.org/reports/DISCCRS_IV_Symposium_Report.pdf

During the week-long symposium -- held in the Tonto National Forest near Phoenix, Arizona -- participants will present and discuss their research, hone interdisciplinary communication and team skills, and discuss emerging research, societal and professional issues with each other and with established researchers invited to serve as mentors. Confirmed mentors include Julia E. Cole (University of Arizona), Jonathan T. Overpeck (University of Arizona), Billie L. Turner (Arizona State University), and David A. Randall (Colorado State University).

Symposium Application instructions: <http://discrs.org/symphelp.html>

ANNOUNCEMENTS:

- **ICSU Seeks Input on Shaping New Research Agenda for Global Change Research**

The International Council for Science (ICSU) is spearheading a consultation process in cooperation with the International Social Science Council (ISSC) to renew the focus and framework of Earth system research for the next decade and beyond. The goal is to identify the most urgent research questions and establish the most effective ways to answer them. The process began in 2006 with reviews of the Global Environmental Change Research Programmes. The reviews recommended the creation of a single research framework, an idea also supported by many agencies involved in the International Group of Funding Agencies for Global Change Research. Thus, the focus is now on shaping the new research agenda.

In the past, a small group of scientists would be charged with determining the most pressing research questions. But new communication technologies now allow the wisdom and expertise of a far broader global community of natural and social scientists, technology experts, decision-makers, and citizens to play a role. From 15 July to 15 August 2009, ICSU invites the broad community to shape the Earth system research agenda by contributing ideas and perspectives to a Web forum (<http://visioning.icsu.org>), as well as by voting on those submitted by others. The results of this online consultation will feed into a September meeting, convened by ICSU and ISSC to distill the input into a set of proposed research priorities.

- **National Center for Environmental Prediction Survey of Stakeholders**

This survey is being done to inform a review of NCEP that is being undertaken by the University Corporation for Atmospheric Research. The review is intended to assess the productivity, quality, relevance, impact and effectiveness of the operational products and services and scientific activities of each of the NCEP Centers. Of particular interest is how well the Center collaborates with other parts of NCEP, as well as the effectiveness of each Center's interactions with the external community, and its support of research by organizations within and outside of NOAA.

Your opinions of the value of NCEP activities, products and services, as well as your ideas on directions the Centers should be taking in the future, are very important to the review. Below are links to a Web page survey on particular NCEP centers. Please consider providing your thoughts on one or more centers.

If you would like to provide input on the Environmental Modeling Center (EMC), please go to: <http://survey.ucar.edu/opinio/s?s=4908>

If you would like to provide input on the Tropical Prediction Center (TPC), please go to:
<http://survey.ucar.edu/opinio/s?s=4813>

If you would like to provide input on the Climate Prediction Center (CPC) and/or the Hydrometeorological Prediction Center (HPC), please go to:
<http://survey.ucar.edu/opinio/s?s=4913>

If you would like to provide input on the Aviation Weather Center, please go to:
<http://survey.ucar.edu/opinio/s?s=4776>

If you would like to provide input on the Storm Prediction Center (SPC), please go to:
<http://survey.ucar.edu/opinio/s?s=4906>

Please provide your input by **15 August 2009**. Please be assured that the information provided will be kept in confidence, and only statistical summaries and anonymous versions of comments and suggestions will be used in the review.

- **New GEWEX Products Available**

New release of Version 2.1 (V2.1) of the GPCP monthly product and Version 1.1 (V1.1) of the Global Precipitation Climatology Project (GPCP) One-Degree Daily (1DD) product. The entire data record for both products has been recomputed and therefore all data must be pulled. The GPCP V2.1 product span is currently January 1979 – February 2009 and the 1DD V1.1 product span is October 1996 – February 2009. We anticipate returning to routine production of products about 2-3 months after real time. All documentation has been updated to reflect the product updates, so it should be pulled as well. The new data products and documentation are available at:
<http://precip.gsfc.nasa.gov>

The major enhancement included in the GPCP V2.1 data is the inclusion of the new GPCC Full and Monitoring product gauge analyses, which provide better estimates of land surface precipitation. The 1DD V1.1 product has been scaled to the new GPCP V2.1 product. Please refer to the documentation for the complete details concerning these releases. The monthly and daily images and movies on the website will be updated to their new versions shortly.

- **International Polar Year Report Now Available**

The International Polar Year (IPY) July 2009 Report is now available at:
http://www.ipy.org/index.php?/ipy/detail/ipy_report_july_2009/.

This month's contents include:

1. International Programme Office Update
2. The Canadian IPY Secretariat
3. Polar Weeks
4. Upcoming IPY meetings
5. Update from APECS
6. Update from Oslo 2010 Planning Process
7. Call for new stories and blogs for ipy.org
8. Submitting IPY metadata - submit your data and win a trip
9. Archiving IPY materials

- **Scientific Committee on Antarctic Research (SCAR) Newsletter: Issue 19, June 2009**

The newsletter is available at:
<http://www.scar.org/news/newsletters/issues2009/jun09.html>.

Newsletter contents include:
Planning the 2010 SCAR Conference
- 2010 SCAR Open Science Conference and XXXI SCAR Meeting

Climate Change
- Ice Bridge Supporting Wilkins Ice Shelf Collapses
- Scientists Rethink Sea Level Rise from a Melted West Antarctic
- Carbon Dioxide Emissions Cause Ocean Acidification
- Inter-Academy Panel Statement on Ocean Acidification
- More Greenhouse Gas Methane Emerging from Warming Arctic Permafrost
- Arctic Dipole is the Major Driver for Arctic Sea Ice Minima
- Energy and Climate Change
- A Statement from SCAR's Members (the Academies)
- Online Version of the International Antarctic Weather Forecasting Handbook

International Polar Year News
- Ministers Sign 2009 Declaration on the IPY and its Legacy
- Treaty Parties Resolve to Commit to Observing Systems and Data Exchange
- Presentations Now Available Online: A Celebration of International Polar Year 2007-2008

- **Climate and Cryosphere (CliC) Project Newsletter Available**

The World Climate Research Programme (WCRP), the Scientific Committee on Antarctic Research (SCAR), and the International Arctic Science Committee (IASC) announce the availability of the Climate and Cryosphere Project (CliC) Ice and Climate Newsletter. To view the newsletter please go to: <http://tinyurl.com/msm6fc>.

The CliC Project was initiated by the WCRP in 2000. Its goal is to stimulate, support and coordinate research that focuses on processes by which the cryosphere interacts with the rest of the climate system. In July 2008, IASC joined as co-sponsor of the project and signed a Memorandum of Understanding with WCRP and SCAR.

To view the newsletter please go to: <http://tinyurl.com/msm6fc>.