

# NETWORK NEWSLETTER



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## EDITORIAL

### *Down with Earth Day! Up with Earth Year!*

For almost thirty years, people have celebrated an Earth Day. Its early years were extremely valuable and eventful in setting the stage for activities in future years. They were designed to generate awareness among children, as well as policy makers and academics, about the fragility of the planet's natural resources such as forests, waters, soils, and fish, on which societies have learned to depend. The deteriorating natural-resource base of the planet generated the emergence of such notions as "the lifeboat ethic," "the global commons," "the 29<sup>th</sup> day," and "limits to growth." These notions were seriously discussed in numerous workshops, UN conferences, and journals and in numerous technical and popular books on various aspects of the environment. At the time, the globe was emerging out of what deeply committed environmentalists might have called the Dark Ages of Environmentalism; the decades preceding 1970 witnessed little concerted interest in saving Planet Earth from the environmentally destructive ways of its human inhabitants (e.g., desertification, deforestation, industrial air and water pollution).

In previous centuries, habitats were destroyed in the name of human survival, urban expansion, economic development, or out of a desire to create something that was viewed by one group in society as a necessity. Since the first Earth Day, we have come to look at Planet Earth in a new way. Perhaps it was the satellite image of our earth floating in space – a "blue marble," quite isolated, quite alone – that gave us the feeling that we had better stop "fouling our nest."

Much has happened since the first Earth Day. The level of consciousness and responsibility of the people, of governments, and of many industries, has risen to the point where awareness of the environment enters into our decision-making processes.

So, now many look forward to celebrating an Earth Day, which comes but once a year. It is on our minds and in the media for a few weeks before and after the Day. But, for the rest of the year, most people go back to thinking about other things besides the fate of Planet Earth.

When I was a child about to return to school, following a summer of freedom from math, English, and history, I had to clean up my room so it would have a fresh start for the school year. This leads into my modest proposal.

We are in the last days of this millennium, within striking distance of the next one. It is kind of awesome when you stop to think that this can only happen one year in a thousand (according to the Gregorian calendar). I suggest that we forget about celebrating an Earth Day in the year 2001. Instead, let's make the year of 2001 an Earth Year! While the year 2000 will witness numerous activities (parties, for the most part) around the globe to welcome the new millennium, the following year can serve as a time to clean up the mess.

Let's use the year 2001 to clean up the planet as best we can for the generations that will live in the next millennium. Let's give our descendants the best and cleanest planet possible. We can start now, just as if we were getting ready for Earth Day, but instead we would be preparing for a much larger endeavor, **EARTH YEAR 2001**. In fact, the notion of Earth Year 2001 has already been endorsed by the Cousteau Society.

Earth Day, to many, serves as a "feel good" day. But we can do and feel better. I believe that every so often we need a more substantial goal to rejuvenate our levels of energy and interest in cleaning up the environment, so we can focus on protecting the remaining natural environment for the generations of the next millennium.

**--Michael Glantz**

*"Earth Year 2001: Cleaning Up the Planet for the Next Millennium"*



### **LET'S HEAR FROM YOU!!**

This newsletter depends on YOUR input. Please send relevant information that comes across your desk, whether it is a news item, meeting, job opening, or publication, to the address on the back cover. Information to be included in the next newsletter must be received by **1 January 2000**.

**If you have any comments or feedback about Earth Year 2001 (editorial on previous page), please contact Michael Glantz at his email address [glantz@ucar.edu](mailto:glantz@ucar.edu), or write to him at ESIG/NCAR, PO Box 3000, Boulder, CO 80307 USA.**

### **WORLD WEATHER RESEARCH PROGRAM**

In June 1998 at the World Meteorological Organization's (WMO) fiftieth session, the World Weather Research Program (WWRP) was endorsed to develop improved and cost-effective forecasting techniques, with emphasis on high-impact weather and to promote their application among Member States. A Science Steering Committee (SSC) was established, with Dr. Richard Carbone as its Chairman. Forecast demonstration projects (FDPs) and research and development projects (RDPs) form an essential part of the WWRP and serve to measure the benefits to be derived from improved understanding and enabling technologies. Active participation of all WMO members, particularly developing countries, is strongly encouraged. Detailed information on the selection criteria for FDPs and RDPs can be obtained from the SSC. A written proposal of about ten pages, containing information on scientific background, proposed project structure, international coordination and socio-economic impacts should be submitted for consideration by the SSC to Dr. Richard Carbone, National Center for Atmospheric Research, PO Box 3000, Boulder, CO 80307-3000 USA; tel: 303-497-8926; fax: 303-497-8181; email [carbone@ucar.edu](mailto:carbone@ucar.edu)

### **GEO-2000 REPORT RELEASED**

The United Nations Environment Programme (UNEP) launched the Global Environment Outlook (GEO) Project in 1995. The project is a global environmental assessment process that is cross-sectoral and participatory, involving the work of experts from more than 100 countries. The goal of the process was to establish a truly global participatory assessment process to keep under review the state of the world's environment, as well as to guide international policy

setting by the end of the century. A coordinated network of collaborating centers is the core of the GEO process with each center playing an important role in preparing GEO reports. A number of associated centers also participate, providing specialized expertise. Four working groups – on modeling, scenarios, policy and data – provide advice and support to the GEO process, helping coordinate the work of the collaborating centers to make their outputs as comparable as possible.

The culmination of their work, the *GEO 2000* report, is now available on the Web at [www.unep.org/geo2000/](http://www.unep.org/geo2000/) or contact GEO at Division of Environmental Information, Assessment and Early Warning (DEIA&EW), UNEP, PO Box 30552, Nairobi, Kenya; tel: 254-2-621234; fax: 254-2-623943; email: [geo@unep.org](mailto:geo@unep.org) (From *Global Change*, [www.globalchange.org](http://www.globalchange.org)).

### **150 YEARS OLD: VOEIKOV MAIN GEOPHYSICAL OBSERVATORY**

The Main Geophysical Observatory (MGO) in St. Petersburg, Russia, which bears the name of A.I. Voeikov, a prominent Russian climatologist, is the oldest meteorological institution in Russia. In April 1999, it celebrated its 150<sup>th</sup> anniversary. Its history mirrors the development of Russian meteorology. With the breakup of the former Soviet Union in the early 1990s and the reduction of funds, some meteorological work and much of the experimental work in geophysics was scaled down or totally stopped. These negative trends affected not only hydrometeorological research, but Russian science in general. However, the Observatory kept its team of senior staff specializing in scientific meteorological activity for meteorology. It continues to be a leading scientific establishment for climate modeling and development of hydrodynamic long-range weather forecasting. The majority of this work is conducted within the Russian Hydrometeorological Service, through cooperation with users of meteorological information. The MGO has compiled extensive archives of hydro-meteorological information. For more information about the MGO, see the Web site at [www.mgo.rssi.ru/](http://www.mgo.rssi.ru/) or contact the Observatory directly at 7 Karbysheva, St. Petersburg 194021, Russian Federation; tel: 812-247-4390; fax: 812-247-8661.

### **DISASTER TIME LINE**

The new Disaster Time Line provides a unique graphic depiction of major disasters, both natural and technological, that have affected emergency management policies in the United States. Using colorful computer graphics, the Disaster Time Line chart shows not only major events and the year they occurred, but also the influence each event had on major after-

action reports and analyses, federal statutes, federal regulations and executive orders, federal response plans, and major federal organizational changes. The Time Line should prove a valuable tool for both teachers and students of emergency management; consultants who must brief clients on the history or context of emergency preparedness decisions; emergency managers at all levels of government who need to educate staff on disaster policy. The Time Line costs US\$20, including postage within the United States. Orders must be prepaid by check or money order and should be directed to Disaster Time Line, Claire B. Rubin and Associates, PO Box 2208, Arlington, VA 22202 USA; tel: 703-920-7176; email: cbrubin@aol.com; Web site: [www.disaster-timeline.com](http://www.disaster-timeline.com) (From *Natural Hazards Observer*).

### **PLANET ARK**

The Planet Ark Environmental Foundation in Australia hosts a daily Reuters "World Environment News" service at [www.planetark.org](http://www.planetark.org). World Environment News is sent out daily free of charge and acts as a repository for thousands of Reuters environmental news stories for the last eighteen months. This resource is fully searchable. The site also has free environmental software, environmental QuickTime videos, and environmental radio shows. For more information, please contact Jon Dee, Founder and Managing Director, Planet Ark Environmental Foundation, tel: 61-2-9319-5288; fax: 61-2-9319-7199; email [jondee@planetark.org](mailto:jondee@planetark.org)

### **DATA DISTRIBUTION CENTER**

The Intergovernmental Panel on Climate Change (IPCC) has created a Data Distribution Center (DDC). The purpose of the DDC is to provide consistent and timely data relating to scenarios of climate change and socio-economic factors for application to climate change assessments. The DDC is operated by the Climatic Research Unit in the United Kingdom and the Deutsches Klimarchenzentrum in Germany. It will distribute the most current information on climate change to scientists, with the hope that by providing up-to-date data, impact assessments will be more accurate. Information will be categorized by (1) observed global climate data sets; (2) socio-economic scenario information; (3) results from global climate experiments, and (4) guidance material. For more information, contact Dr. Mike Hulme, Climatic Research Unit, University of East Anglia, Norwich NR4 7TJ, UK; tel: 44-1603-507784; fax: 44-1603-593162; email [m.hulme@uea.ac.uk](mailto:m.hulme@uea.ac.uk) or contact Dr. Michael Lautenschlager, DKRZ 55 Bundestrass, Hamburg, Germany; tel: 49-404-1173-400; fax 49-404-1173-297; email [lautenschlager@dkrz.de](mailto:lautenschlager@dkrz.de)

### **PEER REVIEW UNDER A NEW PROGRAM: PESCA**

The Inter-American Institute for Global Change Research (IAI) is conducting peer reviews under a new program: Program to Expand Scientific Capacity in the Americas (PESCA). This program is designed principally to enhance collaborative activities in global change research among scientists and institutions of its member countries: Argentina, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, the Dominican Republic, Ecuador, Guatemala, Jamaica, Mexico, Panama, Paraguay, Peru, Uruguay, the United States, and Venezuela. Since the main purpose of PESCA is to promote the participation of investigators from member countries that have not been adequately involved in IAI projects and activities, high priority will be given to investigators from those countries. The peer-review process will be followed in PESCA. The IAI Directorate will coordinate the review process. It is expected that project awards will be made by the IAI Executive Council by November-December 1999, and that disbursement could start by February 2000. Scientists interested in acting as reviewers should contact Brad Wilcox at the IAI. For more information, contact Dr. Wilcox at the Inter-American Institute for Global Change Research, Av. dos Astronautas, 1758, Sao Jose dos Campos 12227-010, Brazil; tel: 55-12-345-6860; fax: 55-12-341-4410; email [bwilcox@dir.iai.int](mailto:bwilcox@dir.iai.int)

### **PIMA RECOGNIZED WITH INTERNATIONAL CLIMATE PROTECTION AWARD**

For the second time in six years, the Polyisocyanurate Insulation Manufacturers Association (PIMA) has received a United States government award for the association's environmental leadership. PIMA was acknowledged for continuing advocacy of energy efficiency in public and private sectors. PIMA was also a recipient of the federal agency's 1993 Stratospheric Ozone Protection Award. The range of advocacy activities in which PIMA has been engaged specifically impressed the judges. These activities included efforts to improve energy codes, education initiatives for design professionals regarding efficiency opportunities in new construction and in renovation of existing buildings, and partnerships with government programs. For more information on the United States Environmental Protection Agency's Climate Protection Award, please contact PIMA at 1331 F Street, NW, Suite 975, Washington, DC 20004; tel: 202-628-6558 (from *e-EFFICIENCY News*).

## STATE OF ENVIRONMENT REPORT FOR ARENDAL, NORWAY

Klaus Toepfer, Executive Director of the United Nations Environment Programme, launched the State of the Environment Report on the Internet for Arendal, Norway. Cities Environment Report on the Internet (CEROI) is a project within the framework of Local Agenda 21. It facilitates access to environmental information and will assist citizens of Arendal manage their environmental resources in a sustainable direction. Through the CEROI network, information about the management of similar problems for cities around the globe is easily accessed. The report contains easily understandable information about the city and its environment and gives the public, scientists and policymakers a common place for exchange of information. For more information, please contact Tore Brevik, UNEP Spokesman and Director of Communications, Nairobi, Kenya; tel: 254-2-623292; fax: 254-2-623692; email [tore.brevik@unep.org](mailto:tore.brevik@unep.org). Web site: [www.grida.no/prog/global/citysoei/](http://www.grida.no/prog/global/citysoei/)

## FOREIGN POLICY IN FOCUS: TOOLS TO SHAPE A NEW US FOREIGN POLICY AGENDA

The goal of the Foreign Policy in Focus project is to forge a new global affairs agenda for the US government and the US people. It is a joint effort of the Institute for Policy Studies and the Interhemispheric Resource Center. The project produces policy briefs which provide the latest research and analysis on timely subjects in accessible formats. It also produces *The Progressive Response*, a weekly electronic magazine that provides analysis about current foreign policy issues and attempts to stimulate global debate about US international relations. More information as well as links to other organizations can be found at [www.foreignpolicy-infocus.org](http://www.foreignpolicy-infocus.org) or contact the Interhemispheric Resource Center, Box 4506, Albuquerque, NM 87196-4506; tel: 505-842-8288; fax: 505-246-1601; email: [resourcectr@igc.apc.org](mailto:resourcectr@igc.apc.org)

## JACKSON ENVIRONMENT INSTITUTE MOVES

The Jackson Environment Institute (JEI) was established at the University College, London in June 1995. In August 1999, JEI moved to the University of East Anglia in Norwich, UK. JEI ([www.uea.ac.uk/env/jei](http://www.uea.ac.uk/env/jei)) has developed a portfolio of research projects and other activities which touch on some of the key environmental issues of our time, focusing on making a positive impact on the quality of life in the United Kingdom and beyond by supporting a better-informed approach to the protection and enhancement of the environment. *Global Environmental Change* is an international journal emphasizing human contributions to worldwide

environmental change and is produced at JEI. Contact information is as follows: Martin Parry, Editor, Global Environmental Change, Jackson Environmental Institute, School of Environmental Sciences, University of East Anglia, Norwich NR4 7TJ, UK; tel: 44-1603-593130; fax: 44-1603-593896; email [gec.jei@uea.ac.uk](mailto:gec.jei@uea.ac.uk) or visit the Web site at [www.elsevier.nl/location/gloenvcha](http://www.elsevier.nl/location/gloenvcha)

## UNEP RELEASES TWO NEW PUBLICATIONS

The United Nations Environment Programme's (UNEP) Division of Technology, Industry, and Economics introduces their two newest publications: *Study on the Potential for Hydrocarbon Replacements in Existing Domestic and Small Commercial Refrigeration Appliances and Avoiding a Double Phase Out: Alternative Technologies to HCFC's in Refrigeration and Air Conditioning*. Both will focus on the various non-CFC options in refrigeration technologies that can result in multiple environmental benefits. The *Study on the Potential for Hydrocarbon Replacements* will present to industry and government decision-makers of developing nations the benefits of the "ozone-friendly" technology options. *Avoiding a Double Phase Out* informs these nations of the success other organizations and businesses have achieved in the adoption of refrigerants that do not rely on ozone-depleting HCFC's. For more information, contact Division of Technology, Industry, and Economics, Energy and OzonAction Unit, Tour Mirabeau, 39-43 Quai André Citroën, 75739 Paris Cedex 15 France; tel: 33-1-44-37-1450; fax: 33-1-44-37-1474, email: [unepie@unep.fr](mailto:unepie@unep.fr); Web site: [www.unepie.org](http://www.unepie.org)

## NATO ADDS THREE NEW MEMBER COUNTRIES

With the accession of the Czech Republic, Hungary, and Poland to the North Atlantic Treaty on 12 March 1999, special provisions have been agreed by the NATO Science Committee for the participants of scientists from these countries. The special provisions will be for three years, after which the situation will be reviewed by the Committee. The special provisions are summarized here, and more detail can be found at the Web site at [www.nato.int/science](http://www.nato.int/science). (a) *Science Fellowships* will in most cases be available, as national administrators have now been named by all three countries. (b) *Cooperative Science and Technology*: Scientists in the three new member countries have the opportunity to apply for the support possibilities under this sub-program either as NATO countries or partner countries. (c) *Research Infrastructure Support*: Scientists from the new member countries may participate on the same terms as those from partner countries. (d) *Science for Peace*: These projects now being selected for support will be funded as though the three new members were still partners. For

future projects, the three countries will participate on the same conditions as two other NATO countries, Greece and Turkey. For more information, contact NATO Scientific Affairs Division, B-1110 Brussels, Belgium; tel: 32-2-707-4111; fax: 32-2-707-4232.

### **NEW LEADER FOR ESIG**

The Environmental and Societal Impacts Group (ESIG) at the National Center for Atmospheric Research (NCAR) has a new Program Director, Robert (Bob) Harriss. He joins NCAR after two years at Texas A&M University. Bob directed the science division of NASA's (National Aeronautic and Space Administration) Mission to Planet Earth office from 1994 to 1997 and served as a senior scientist at NASA Langley Research Center from 1978 to 1988. Between these stints, he served as professor of earth system science and natural resources at the University of New Hampshire. Bob is especially pleased to be joining NCAR at a time when there will be an increasing emphasis on the human dimensions of global change. For more information, contact ESIG at NCAR, PO Box 3000, Boulder, CO 80307; tel: 303-497-8117; fax: 303-497-8125; email harriss@ucar.edu

### **NATO SCIENTIFIC AFFAIRS DIVISION UNDERGOES CHANGE**

Dr. Luis Veiga da Cunha was Programme Director of the Scientific Affairs Division at NATO in Brussels, Belgium from 1983 until February 1999. Dr. da Cunha was also Director of the former multidisciplinary Advanced Study Institutes Programme, which under his guidance became widely known in the scientific community for scientific excellence and quality. His early interest in environmental issues naturally led to his also becoming Director of successive special programs in this area, and he now continues in the field as Professor of Environmental Studies at the University of Lisbon in Portugal. He is succeeded by Dr. Alain H. Jubier, Programme Director, Scientific Affairs Division, NATO, B-1110 Brussels, Belgium; tel: 32-2-707-4111; fax: 32-2-707-4232 (from *NATO Science & Society Newsletter*).

### **NEW DIRECTOR FOR IHDP SECRETARIAT**

Dr. Jill Jäger has been appointed as the director for the International Human Dimensions Program (IHDP) Secretariat. Jäger received her BSc in Environmental Sciences from the University of East Anglia (UK) in 1971 and was awarded her PhD in geography from the University of Colorado (US) in 1974. In November 1991 Jäger became Director of the Climate Policy Division of the Wuppertal Institute for Climate, Environment, and Energy in Germany. In September 1994 she joined the

International Institute as Deputy Director for Programs, and from October 1996 to May 1998 she was Deputy Director of IIASA (International Institute for Applied Systems Analysis). Since 1996, Jäger has been a member of the core faculty of the Global Environmental Assessment (GEA) project, based at Harvard University.

### **EMISSIONS TRADING AND BUSINESS TAXATION**

The Australia Institute has just released a new paper proposing the integration of emissions trading into business tax reform. The paper develops a detailed domestic emissions trading system for the period 2001-2012. It is based on an upstream approach with full auctioning of permits defining an emissions path that will meet Australia's Kyoto target. Features of the emissions trading system include provision for banking and limited borrowing, inclusion of sinks under tight conditions and credit for early auction. A summary of the paper is available on the Australia Institute Web site at [www.tai.org.au](http://www.tai.org.au) or email a request for the full report to [tai1@tai.org.au](mailto:tai1@tai.org.au). The Australian Institute, PO Box 72, Lyneham ACT 2602; tel: 61-2-6249-6221; fax: 61-2-6249-6448.

### **KAZAKSTAN CATALOG**

A new catalog featuring over two hundred recent books from Kazakstan is now available. To receive a copy (hard or electronic), please send a brief email message to [info@meabooks.com](mailto:info@meabooks.com) or contact Middle EurAsian Books, Box 67045, 3200 Erin Mills Pkwy, Mississauga, Ontario, Canada L5L 1W8; tel: 819-647-9927; fax: 819-647-9928.

### **INFORMATION SOUGHT BY ICIMOD**

The International Centre for Integrated Mountain Development (ICIMOD) is seeking information to compile an annotated bibliography of practical, "how-to" handbooks, manuals, guidebooks, etc., focusing on topics related to social and sustainable development, such as the use of appropriate and environmentally friendly technologies, alternative energy sources, latrine and rural roads constructions, water management, and appropriate farming systems. The bibliography will contain materials from all sources and regions, but will emphasize the Hindu-Kush-Himalayan region. ICIMOD plans to produce the bibliography in the next year. If you have produced any materials on these topics in the past six years, please send copies for possible inclusion to Sangeeta Pandey, ICIMOD, 4/80 Jawalakhel, GPO Box 3226, Kathmandu, Nepal; tel: 977-1-525313; fax: 977-1-

524509/536747; email sangeeta@icimod.org.np (From *ICIMOD Newsletter*).

### DISASTERS BY DESIGN: A BIBLIOGRAPHY

*Disasters by Design: A Reassessment of Natural Hazards in the United States* is a collection of citations to the academic literature supporting the summary volume of the Second National Assessment of Research on Natural Hazards. The book, published in 1999 by the Joseph Henry Press in Washington, D.C., summarizes the hazards research findings from the last two decades, synthesizes what has been learned, and outlines a proposed shift in direction in research and policy for natural and related technological hazards in the United States. *Disasters by Design* is intended for a general audience, including policymakers and practitioners. For more information, contact David Butler, Natural Hazards Research and Applications Information Center, University of Colorado, Campus Box 482, Boulder, CO 80309-0482; tel: 303-492-4180; fax: 303-492-2151; email: butler@colorado.edu or access the bibliography online at [www.colorado.edu/hazards/assessbib.html](http://www.colorado.edu/hazards/assessbib.html)

### COP5 IN BONN

The Fifth Session of the Conference of Parties (COP5) of the United Nations Framework Convention on Climate Change (UNFCCC) will be held in Bonn, Germany, 25 October through 5 November 1999. The UNFCCC is the foundation of worldwide efforts to combat global warming. The COP comprises all the states that have ratified or acceded to the Convention. COP1 met in Berlin in 1995 and has met on a yearly basis to promote and review the implementation of the Convention. At COP3 in December 1997, the Kyoto Protocol was adopted, which contains legally binding emissions targets for the post-2000 period. The Protocol's flexibility mechanisms still need to be made fully operational. Priority will be given to finalizing the clean development mechanism, which promotes sustainable development by encouraging investments in developing-country projects using clean technologies. A joint implementation program will offer credits for contributing to projects in developed countries. The Protocol was signed by 83 countries plus the European Community during a one-year signature period that concluded 15 March 1999. It will enter into force 90 days after ratification by at least 55 Parties to the Convention. For more information on COP5, a Web site has been created at [cop5.unfccc.de](http://cop5.unfccc.de) or visit the UNFCCC site at [www.unfccc.de](http://www.unfccc.de). The Secretariat of the UN Convention on Climate Change is located at UNFCCC, PO Box 260124, D-53153 Bonn, Germany; tel: 49-228-815-1000; fax: 49-228-815-1999; email [secretariat@unfccc.de](mailto:secretariat@unfccc.de)

### MORE ON KYOTO PROTOCOL

The adoption of the Kyoto Protocol was a major achievement in the endeavor to tackle the problem of global climate change at the dawn of the new century. A new book published in October 1999 provides a comprehensive analysis of the history and content of the Protocol, as well as a perspective for further development of the climate regime. Sebastian Oberthuer and Hermann Ott have attempted to envision some concrete proposals on how the European Union might proceed in order to breathe new life into the post-Kyoto process: **The Kyoto Protocol: International Climate Policy for the 21<sup>st</sup> Century** is available from Springer at [www.springer.de](http://www.springer.de). The two authors have also published a policy paper entitled, "Breaking the Impasse: Forging an EU Leadership Initiative on Climate Change" which may be ordered from the Boell Foundation (contact Joerg Hass at [hass@boell.de](mailto:hass@boell.de)) or download the paper from the Web site of the Wuppertal Institute at [www.wupperinst.org](http://www.wupperinst.org). Copies will also be available at COP5 from the authors. For more information, please contact Hermann Ott, Wuppertal Institute for Climate, Environment and Energy, Doeppersberg 19, 42-103 Wuppertal, Germany; tel: 49-202-2492-246; fax: 49-202-249-2250; email [hermann.ott@wupperinst.org](mailto:hermann.ott@wupperinst.org)

### THE CENTRE FOR DISASTER AND DEVELOPMENT

The Centre for Disaster and Development (CDD) is a nonprofit organization in India working to create awareness at all levels about the effects of catastrophes on social and economic growth and advancement. The CDD envisions conducting training programs in the area of disaster management at grassroots, national, regional, and international levels; establishing a documentation center on disaster and development; establishing links with other disaster management institutions in the world; and creating a forum for interaction among nongovernmental organization activists, government officials, international agency representatives, professionals, and academics. For more information about the Centre for Disaster and Development, contact Rajive Kohli, Centre for Disaster and Development, K-7, Jangpura Extension, New Delhi-110014; tel: 91-11-4312-6221; email: [kohli@del3.vsnl.net.in](mailto:kohli@del3.vsnl.net.in) (from *Natural Hazards Observer*).

**NOTE: The ENSO Signal will be produced by ESIG/NCAR beginning in December 1999. To be placed on the mailing list, or to submit an article, contact D. Jan Stewart, Managing Editor, no later than 15 November 1999 at The ENSO Signal, ESIG/NCAR, PO Box 3000, Boulder, CO 80307, tel: 303-497-8134; fax: 303-497-8125; email: [jan@ucar.edu](mailto:jan@ucar.edu).**

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## FELLOWSHIPS, GRANTS & CALLS FOR PROPOSALS

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### Ralph Brown Expedition Award 2000

The Ralph Brown award was created in 1997 in memory of the late Ralph Brown, a former world jet boat champion, who was a passionate participant in many expeditions in watery environments around the world. The annual research award of £15,000 will be made to the leader of a multi-disciplinary research expedition associated with the study of rivers, wetlands or shallow marine environments. The project may be located anywhere in the world and should be of potential benefit to the host country and local community. Applicants should be over 25 years of age, of any nationality, and preferences will be given to teams involving host country nationals. Undergraduates are not eligible. Application deadline is 30 November 1999. For copies of the guidelines and referee statements, please download from the Ralph Brown Expedition Award page under "Grants" at [www.rgs.org](http://www.rgs.org) or contact the Expedition Grants Manager at The Ralph Brown Expedition Office, Royal Geographical Society, 1 Kensington Gore, London SW7 2AR; tel: 44-20-7591-3073; fax: 44-20-7591-3031; email: [grants@rgs.org](mailto:grants@rgs.org)

The **IUCN-Reuters Media Award** recognizes excellence in professional reporting on environmental and sustainable development issues. The awards aim to foster a dialogue between journalists and environmental and development experts that will encourage informative and high-quality reporting based on scientific data. Winners will be offered study/training opportunities organized by the Reuters Foundation. Articles on environmental management, environmental degradation, nature conservation, sustainable use of natural resources, public and private investment, and social, economic and development issues relevant to the environment can be submitted. Only articles published between August 1998 and August 1999 will be considered. For further information or an entry form, contact the IUCN Nepal Office, PO Box 3923, Kathmandu, Nepal; tel: 9771-528-761; fax: 9771-536-786; email: [iucn@wlink.com.np](mailto:iucn@wlink.com.np)

The National Science Foundation is funding a 24-month study on the **Impacts of El Niño Flooding on Socio-Political Organization in the Moche Valley, Peru**. In 1997, a geo-archaeological reconnaissance of the middle Moche Valley in Peru resulted in the discovery of a 100+ meter-long stream cut at the mouth of the Qebrada de los Chinos. The four-meter high exposure contains at least 11 flood deposits that are interspersed with organic soils and cultural materials. This project will

involve profiling, photography, and laboratory analysis of sediments to construct a 2,500-year record in order to test the relationship between El Niño events and cultural change. For information, contact: Gary A. Huckleberry, Department of Anthropology, College 150, Washington State University, Pullman, WA 99164-4910; tel: 509-335-4807; email: [ghuck@wsu.edu](mailto:ghuck@wsu.edu)

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## Jobs & Internships

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### Climate and Global Change Postdoctoral Program:

This NOAA-sponsored program, managed by UCAR, pairs recently graduated Postdoctorates with host scientists at US institutions to work in an area of mutual interest. The objective of the program is to help create the next generation of researchers needed for climate studies. Advanced contact with potential host(s) is encouraged. The program offers two-year visiting research appointments, reviewed annually. Fellows receive a fixed annual salary and a relocation and travel allowance. Deadline for applications is 1 February 2000. For further information, contact UCAR/Visiting Scientist Programs, PO Box 3000, Boulder, CO 80307-3000 USA; tel: 303-497-8649; email: [vsp@ncar.ucar.edu](mailto:vsp@ncar.ucar.edu); Web site: [www.vsp.ucar.edu](http://www.vsp.ucar.edu)




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## JOURNALS & NEWSLETTERS OF INTEREST

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**Global Change and Human Health: Reviews on Globalisation, Environmental Change and Health** is a new journal from Baltzer Science Publications aimed at bridging the gaps between the various scientific communities concerned with global change and human health. Two issues of the journal will be published each year, each with about 5 papers that will pertain to the most current and relevant developments in the field. The contributions will be predominantly by invitation of the editors and upon advice of the editorial board. Submitted articles will also be considered if they meet the special requirements of the journal. In addition to articles, each issue of *Global Change and Human Health* will contain editorials providing brief announcements of new science or policy developments. For more information, contact Baltzer Science Publishers, PO Box 221, 1400 AE Bussum, The Netherlands; tel: 31-35-695-4250; fax: 31-35-695-4258; email: [publish@baltzer.nl](mailto:publish@baltzer.nl)

**CHOICES: The Human Development Magazine**

recently issued a special issue on the environment (8, 1). CHOICES is published three times a year by the Division of Public Affairs, United Nations Development Programme, One United Nations Plaza, New York, NY 10017, USA; tel: 212-906-5315; fax: 212-906-5364.

**The Asia Pacific Journal on Environment and Development**

is a journal published by the Bangladesh Unnayan Parishad Centre for Research and Action on Environment and Development, Dhaka, Bangladesh. It seeks to publish articles that are interdisciplinary in nature and adopt an integrated approach to problems of environment and development. While the emphasis will be on work directly related to the Asia-Pacific region, it also includes articles on global problems or on other regions that have relevance to the Asia-Pacific region. To subscribe or for more information, contact the Bangladesh Unnayan Parishad, 33, Road 4, Dhanmondi R.A., PO Box 5007 (New Market), Dhaka 1205, Bangladesh; tel: 880-2-868-809; fax: 880-2-867-021; email: bup@citechco.net

**The Ecologist** 1999 Special Issue for March/April (29, 2) is devoted entirely to climate change from the environmentalist perspective. The magazine is divided into four sections: What is happening to the global climate, The prospects for life in a destabilized climate, The political and corporate response, and What should be done.

**Environmental Hazards: Human and Policy**

**Dimensions** is a new innovative, interdisciplinary and international research journal addressing the human and policy dimensions of hazards. The journal addresses the full range of hazardous events and will be the source of new ideas in hazards and risk research. Well-known conventional hazards will receive extensive coverage but submissions about new forms of hazard, emerging risk management institutions, and the restructuring of ideas about hazards are also welcome. For more information or to request a sample copy of the journal see the Web site at [www.elsevier.nl/locate/hazards](http://www.elsevier.nl/locate/hazards) or contact Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK.

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## Computing Networking

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**The Pacific Institute** has developed a searchable bibliography of peer-reviewed and gray literature related to climate change and its impacts on flora and fauna species (including the agricultural sector) and critical ecosystems. Over 1,370 citations have been included to

date and the bibliography will be updated every two months. The bibliography is located at [www.pacinst.org/wildlife.html](http://www.pacinst.org/wildlife.html). Suggestions for additions to the bibliography or corrections should be sent to Wil Burns, Director of Communications, Pacific Institute for Studies in Development, Environment, and Security, 654 13<sup>th</sup> Street, Oakland, CA 94612 USA, tel: 510-251-1600; fax: 510-251-2203; email: [wburns@pacinst.org](mailto:wburns@pacinst.org)

The International Institute for Applied Systems Analysis (IIASA) has recently published a new CD-ROM, dealing with the question "**Can China Feed Itself?**" The CD-ROM includes results from a 3-year research project on China's land-use change that was carried out in collaboration with the Chinese Academy of Sciences. For further information, contact Gerhard K. Heilig, International Institute for Applied Systems Analysis, A-2361 Laxenburg, Austria; tel: 43-2236-807-551; fax: 43-2236-71313; email: [heilig@iiasa.ac.at](mailto:heilig@iiasa.ac.at) or get details from the IIASA Web site at [www.iiasa.ac.at/Research/LUC/ChinaFood/](http://www.iiasa.ac.at/Research/LUC/ChinaFood/)

**CICERO** (Center for International Climate and Environmental Research – Oslo) has added a new Publication on its Web site: "**A Comparison of Taxes and Tradable Permits in National Climate Policy**" which discusses domestic climate policy design in a country that has made a binding commitment to the Kyoto Protocol but also wants to limit the number of industry shutdowns that follow from the policy. All publications at CICERO are free of charge and can either be downloaded from the Web site or send an address to Reidar Evensen, Information Officer, CICERO, Postboks 1127, Blindern, N-0317, Oslo, Norway. Web site address is [www.cicero.uio.no](http://www.cicero.uio.no). The above publication is Working Paper 1999:8.

A new report of the Pew Center on Global Climate Change entitled **Water and Global Climate Change** is now available for downloading on the Pacific Institute site [www.pacinst.org/climate.html](http://www.pacinst.org/climate.html). The report, authored by Kenneth Frederick of Resources for the Future and Peter Gleick of the Institute, identifies the potential impacts of climate change in both the quantity and quality of water supplies in the United States that may result from possible changes in stream flows, increased storm surges, and higher temperatures. For more information, contact the Pacific Institute for Studies in Development, Environment and Security, 654 13<sup>th</sup> St., Oakland, CA 94612 USA; tel: 510-251-1600; fax: 510-251-2203.

Hazards at your fingertips: The **HazNet** Web site provides information and resources from Sea Grant programs, the National Oceanic and Atmospheric Administration (NOAA), and other sources about natural hazards, existing planning efforts, and research. It includes a list of contracts in coastal states involved in



hazards efforts, as well as a bulletin board and discussion group. HazNet contains information on hurricanes, tornadoes, floods, coastal erosion, earthquakes, tsunamis, and volcanoes. It lists hazards policies, and has information on topics such as mitigation and the built environment, and communication and education. HazNet can be found at [www.haznet.org](http://www.haznet.org). For more information on the Sea Grant HazNet project, contact Robert Bacon, tel: 843-727-2075; email: [haznet@haznet.org](mailto:haznet@haznet.org)

The Web site for the **IPCC Data Distribution Centre** ([ipcc-ddc.cru.uea.ac.uk](http://ipcc-ddc.cru.uea.ac.uk)) is almost a year old and has received nearly 20,000 unique hits thus far. Because many scientists do not have Internet access, however, the IPCC has developed a CD-Rom to mirror the "Green Pages" of the DDC. For more information, contact Climate Impacts LINK, Dr. David Viner, Climatic Research Unit, University of East Anglia, Norwich, Norfolk NR4 7TJ; tel: +44-1603 592089; fax: +44-1603 507784; [d.viner@uea.ac.uk](mailto:d.viner@uea.ac.uk); [www.cru.uea.ac.uk/link](http://www.cru.uea.ac.uk/link)

Top researchers gathered to set a research agenda for the social implications of advanced networking in Ann Arbor, MI on 14 September 1999. Over 100 leaders from a wide range of disciplines gathered at the **Internet2 Sociotechnical Summit** to establish an agenda for social science research related to advanced networking. The summit aimed at bridging the gap between advanced Internet technology and its implications for the social sciences. For more information see the Web site at [www.internet2.edu](http://www.internet2.edu)



Michael Glantz created this cartoon while recovering from shoulder surgery. Note the Walker Circulation over the soup.



## SUMMARIES OF PAST MEETINGS

The pilot session of the **United Nations University (UNU) International Courses** program was held at the UNU Headquarters in Tokyo from 1 February through 12 March 1999. Thirty-nine students attended the six-week session. The UNU/IC is intended for postgraduate students and professionals from Japan and abroad seeking positions in international fields. The four courses offered during the pilot session were (1) the United Nations System: Structure and Activities; (2) Environment and Sustainable Development; (3) Human Rights: Concepts and Issues; and (4) International Trade and Dispute Settlement. The UNU/IC are a new initiative by the UNU to implement the training of persons who will serve in international or national technical assistance programs. For more information, contact the Public Affairs Section, UNU, 53-70, Jingumae 5-chome, Shibuya-ku, Tokyo 150-8925, Japan; tel: 81-3-3499-2811; fax: 81-3-3499-2828; Web site: [www.unu.edu](http://www.unu.edu)

The third session of the **Inter-Agency Committee on the Climate Agenda (IACCA)** was held in Paris, France, 18-19 March 1999. The Committee was presented with examples of a number of external and internal tensions in partner organizations as they attempt to respond to their roles in the Climate Agenda. The IACCA is at the critical point of recognizing what needs to be done within its mandate, while realizing the impossibility of assisting in implementation without the required commitment from all the key players. The Committee agreed that the time has come for the partners either to invest in the Climate Agenda concept or to reject it and dissolve the IACCA. During this session, the IACCA reviewed (1) the future of the World Climate Programme, (2) actions required to improve interagency cooperation, (3) priorities and strategies of international funding organizations, (4) review of the climate observing systems to underpin the UNFCCC, (5) review of the 1997-98 El Nino/La Nina event, and (6) the possible convening of a Third World Climate Conference. For more information, visit the Web site of the IACCA at [www1.tor.ec.gc.ca/iacca/](http://www1.tor.ec.gc.ca/iacca/) or contact the World Climate Programme, World Meteorological Organization, 41, avenue Giuseppe-Motta, CH-1211 Geneva 2, Switzerland; tel: 41-22-730-8269; fax: 41-22-734-8031.

The **Ninth International Weather Festival** was held in Quebec, Canada, 15-19 April 1999. The program comprised nine lectures by experts from Canada, France, Sweden, Saudi Arabia, Belgium, and the World Meteorological Organization around the theme "Climatic Changes." More than 80 weather presenters from

around the world competed for nine special awards. The event was covered by more than 60 journalists from around the world and was attended by more than 5,000 members of the public. For more information, please contact Agence Fond Bleu Communication, 11 bis, rue de Moscou, 75008 Paris, France; tel: 33-1-4638-7121.

**The Seventh Meeting of the Conference of the Contracting Parties (COP7) to the Convention on Wetlands** (Ramsar, Iran, 1971) took place from 10-18 May 1999 in San José, Costa Rica. COP7 focused on the interrelations between human societies and wetland habitats, and the general theme of the Conference was "People and Wetlands -The Vital Link." Approximately 750 participants attended COP7, including officials from 110 Contracting Parties (CPs) to the Convention and 15 observer States, numerous national and international non-governmental organizations (NGOs), representatives of other convention secretariats and intergovernmental institutions, donor agencies and wetland scientists. The program included five technical sessions, on Ramsar and Water, National Planning for Wetland Conservation and Wise Use, Involving People at All Levels in the Conservation and Wise Use of Wetlands, Tools for Assessing and Recognizing Wetland Values, and Frameworks for Regional and International Cooperation Regarding Wetlands. For more information contact The Ramsar Convention Bureau, Rue Mauverney 28, CH-1196 Gland, Switzerland; tel: 41-22-999-0170; fax: 41-22-999-0169; email [ramsar@ramsar.org](mailto:ramsar@ramsar.org); Web site: [ramsar.org/](http://ramsar.org/)

The Alliance of Small Island States **Workshop on the Clean Development Mechanism of the Kyoto Protocol** took place in Majuro, Republic of the Marshall Islands, 14-16 July 1999. The Workshop, organized and hosted by the Alliance of Small Island States (AOSIS) and the Government of the Republic of the Marshall Islands, had over 50 participants, including country representatives from the small island states in the South Pacific, Indian Ocean, South China Sea, Mediterranean and Caribbean. Experts from various UN and regional organizations, a representative from an environmental NGO and special invitees from the Philippines, Mauritania, the US, the UK, Australia, Norway, New Zealand and Switzerland. Participants discussed elements of the Clean Development Mechanism (CDM) of the Kyoto Protocol in eight sessions spanning three days with presentations from speakers followed by open discussions. The participants adopted the "Majuro Statement on Climate Change," which will be presented, inter alia, at the Fifth Conference of Parties to the FCCC (COP-5) in Bonn from 25 October-5 November 1999. A summary of the conference is available at [www.iisd.ca/sd/aosis/sdvol28no1e.html](http://www.iisd.ca/sd/aosis/sdvol28no1e.html)

**Development of Dry Areas: Desert Development Challenges Beyond the Year 2000** was held in Cairo,

Egypt from 12-17 August 1999. The conference provided participants with the opportunity to exchange research results and experiences and promote international cooperation. Discussion topics included applications of new technology transfer, soil and water conservation and degradation, and range management and forage and livestock production. For more information, contact Adel El-Beltagy, International Center for Agricultural Research in the Dry Areas (ICARDA), P.O. Box 2416, Cairo, Egypt; fax: 20-2-572-8099; email: [icarda-cairo@cgnet.com](mailto:icarda-cairo@cgnet.com)

**Global Change & Protected Areas**, an international symposium to discuss and assess climatic and environmental changes and their biospheric impact, was held from 8-16 September 1999 in L'Aquila, Italy. Organized by experts in the Abruzzo region, which has devoted one-third of its territory to natural reserves, the symposium considered how the biosphere should be monitored to find early signs of environmental effects. For more information, contact Guido Visconti, dipartimento di Fisica, Universita degli Studi di L'Aquila, Via Vetoio, Coppito, 67010 L'Aquila, Italy; email: [guido.visconti@quila.infn.it](mailto:guido.visconti@quila.infn.it); Web site: [www.aquila.infn.it/glbch/](http://www.aquila.infn.it/glbch/)

**The Earth Technologies Forum: The Conference on Climate Change and Ozone Protection** was held from 27-29 September 1999 in Washington D.C. Experts on climate change and ozone issues came together to discuss developing and alternative technologies at the Conference, discussing topics from climate change policy, air conditioning and refrigeration innovations, transportation, and emerging technologies, to companies now offering corresponding technology solutions. For more information contact: Conference Office, 2111 Wilson Blvd. #850, Arlington, VA 22201; tel: 703-807-4052; email: [earthforum@alcalde-fay.com](mailto:earthforum@alcalde-fay.com); Web site: [www.earthforum.com](http://www.earthforum.com)

**The Third Conference on Desertification and Environmental Studies** was held from 9-11 October 1999, at King Saud University Center for Desert Studies in the Kingdom of Saudi Arabia. The Conference theme, *Beyond the Year 2000*, was addressed through the exchange of knowledge of desert development, promotion of national and international understanding of methods to combat desertification, and development of strategies for desert studies beyond the year 2000. For more information, contact the Chairman of the Scientific Committee, King Saud University Center for Desert Studies, PO Box 2454, Riyadh 11451 Saudi Arabia; tel: 966-1-467-5571; fax: 966-1-467-5574; email: [stag@ksu.edu.sa](mailto:stag@ksu.edu.sa)

**Climate Scenarios for Agricultural, Ecosystem and Biological Impacts** was held at the Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany,

from 13-15 October 1999. The workshop reviewed the construction and application of climate change scenarios in areas related to agriculture, ecosystems and other biological indicators, including the biosphere as a whole. Specific topics covered included the incorporation of different time-scales of climate variability in climate change scenarios, enhancing consistency between climate and impact models, and representing the direct effects of CO<sub>2</sub> and other atmospheric constituents alongside the impacts of climate change. For more information, contact Potsdam Institute for Climate Impact Research, Telegrafenberg C4, PO Box 60 12 03, 14412 Potsdam, Germany; tel: 49-331-288-2500; fax: 49-331-288-2600; email: pik@pik-potsdam.de; Web site: www.pik-potsdam.de



## ANNOUNCEMENTS OF UPCOMING MEETINGS

An **International Conference on Urban Climatology** is being held in Sydney, Australia 8-12 November 1999. A wide range of participants from those involved in observing or modeling atmospheric processes and the climatic effects on cities at any scale are expected to attend. For more information, contact Richard de Dear, Macquarie University, Sydney, NSW 2109, Australia; fax: 61-2-9850-8428; email: rdedear@laurel.ocs.mq.edu.au; Web site: www.es.mq.edu.au/ICB-99/

**The Eighth International Greening of Industry Network Conference, Sustainability: Ways of Knowing/Ways of Acting**, is being held 14-17 November 1999. The purpose of this conference is to bring together leading international experts from industry, government, NGOs and academia in an open forum to discuss both research findings (ways of knowing) and implementation processes (ways of acting) related to the "triple bottom line" of sustainable development-economy, ecology and society. This event should not be missed by anyone whose organization has embarked on the journey to sustainability. For more information, contact Stuart Hart, 1999 Greening of Industry Network Conference Coordinator, c/o Monica Touesnard, Kenan-Flagler Business School, University of North Carolina at Chapel Hill, Campus Box 3490, McColl Building, Chapel Hill, NC 27599-3490 USA; tel: 919-843-9731; fax: 919-843-9667; email: greening99@unc.edu; Web site: greening99.bs.school.unc.edu/

**The American Geophysical Union (AGU) 1999 Fall Meeting** will be held 13-17 December 1999 in San Francisco, California. Themes include: Biogeosciences,

Education & Policy, Union, Atmospheric Sciences, Geodesy, Geomagnetism and Paleomagnetism, Hydrology, Ocean Sciences, Planetary Sciences, Seismology, Space Physics and Aeronomy, Tectonophysics, Volcanology, Geochemistry and Petrology. For more information, contact the AGU Meetings Department, 1999 Fall Meeting, 2000 Florida Avenue, NW, Washington, DC 20009; tel: 202-462-6900 or 1-800-966-2481; fax: 202-328-0566; email: meetinginfo@agu.org; Web site: earth.agu.org/meetings/fm99top.html

**The Second International Conference on Geospatial Information in Agriculture** will be held 10-12 January 2000 at Disney's Coronado Springs Resort, Lake Buena Vista, Florida. More than 250 technical presentations will be made by leading researchers and scientists from more than 30 countries. This conference will focus on applying geospatial information technologies to solve real-world problems in agriculture and forestry, as well as defining future directions and implementation strategies. Exhibits of products and services, interactive sessions, workshops and technical tours will give scientists, natural resource planners, remote sensing specialists, educators and students, among others, a chance to see the latest tools available to improve decision making. For more information, contact EI Agriculture/Forestry Conference, PO Box 134008, Ann Arbor, Michigan 48113-4008; tel: 1-734-994-1200, ext. 3234; fax: 1-734-994-5123; email wallman@erim-int.com

**The 80th Annual Meeting of the American Meteorological Society** will be held 9-14 January 2000 at the Long Beach Convention Center in Long Beach, California. "Applying Environmental Science to Societal Needs in the New Millennium" has been chosen as the theme for this meeting. Fifteen conferences and symposia, five short courses, and a large commercial exhibit of hardware, software, and services for the atmospheric, oceanic, and related environmental sciences will be held as part of this meeting. For more information contact, AIMS Meeting Registration, 45 Beacon St., Boston, MA 02108; fax: 617-742-8718; Web site: www.ametsoc.org/AMS/meet/index.html

**The 11<sup>th</sup> Global Warming International Conference and Expo: Kyoto Compliance Review Year 2000 Conference** is being held in Boston, MA USA from 25-28 April 2000. Sponsored by the Global Warming International Program Committee and the Global Warming International Center, the conference will include sessions on greenhouse gas emission benchmarks, climate change and extreme events, Pacific and North Atlantic Oscillations, Kyoto forests, climate and the evolution of biological species, global warming and human health, among many others. For more information contact Professor Sinyan Shen, GWIC-USA, 22W381 75<sup>th</sup> Street, Naperville, IL 60565 USA; tel:

630-910-1551; fax: 630-910-1561; email: syshen@megsinet.net; Web site: GlobalWarming.Net

An **AMS Short Course on Climate-Change Detection** is being held *7 May 2000* in Asheville, NC, USA. The course, sponsored by the American Meteorological Society, will precede the 15<sup>th</sup> Conference on Probability and Statistics in the Atmospheric Sciences and the 12<sup>th</sup> Conference on Applied Climatology. The topics covered provisionally include: (1) Basic ideas on optimal signal detection, (2) Detection and attribution paradigm; (3) Detection is regression, (4) Dimension reduction, (5) Attribution consistency test, (6) Some variations on optimal detection, (7) Non-optimal pattern similarity measures, (8) Summary and review. For more information, contact either Art Degaetano (atd2@cornell.edu) or Dan Wilks (dsw5@cornell.edu), Dept. of Soil, Crop, and Atmospheric Sciences, Bradfield Hall, Cornell University, Ithaca, NY 14853; tel: 617-227-2426 ext. 277.

The **International Emergency Management Society (TIEMS)** will hold its seventh international conference on *16-19 May 2000* in Orlando, Florida. A conference for emergency and disaster leaders, planners, managers, researchers, educators, and practitioners interested in exchanging information on the use of innovative methods and technologies to improve the ability to avoid, mitigate, respond to, and recover from natural and technological disasters. The theme for this conference is "Emergency Management in the Third Millennium." TIEMS solicits papers, demonstrations, workshops, and case studies in relevant areas. All papers will be refereed and selected papers will be published in the conference proceedings. For more information, contact Suleyman Tufekci at the University of Florida, Industrial and Systems Engineering, PO Box 116595, Gainesville, FL 32611-6595; email tufekci@ise.ufl.edu

**Climate Change Communication Conference** is being held *22-24 June 2000* in Kitchener, Ontario, Canada. The conference aims at facilitating collaboration among those stakeholders involved in communicating climate change issues – educators, business leaders, politicians, government agencies, researchers, non-governmental organizations, the general public, native communities, and the media. Abstracts on the following themes will be accepted until 15 December 1999: 1) Stakeholder Perceptions and Understanding of Climate Change, 2) Raising Awareness of Climate Change, and 3) Identifying and Overcoming Barriers to Action. For more information, email c3confer@fes.uwaterloo.ca

The Inter-American Institute for Global Change Research (IAI) and the University of Miami (UM) announce the **Second IAI/UM Summer Institute**, to be held in Miami, Florida *16 July-4 August 2000*. The theme is "Environmental and Social Implications of Land Use and Land Cover Change in the Americas." The Institute will explore the dynamics and interactions of land use and land cover change as both major inputs to (and consequences of) global environmental change. Twenty applicants (social and natural scientists) from IAI member countries will be selected to attend the Institute. Selected applicants will receive financial support. Specific information on eligibility and selection criteria will be available at the Web site [www.rsmas.miami.edu/IAIUM](http://www.rsmas.miami.edu/IAIUM). For more information, contact the IAI Directorate, Av. dos Astronautas 1758, CEP 12227-010, São José dos Campos, São Paulo, Brazil; tel: 55-12-345-6855; fax: 55-12-341-4410; email iaibr@dir.iai.int

The International Union of Forestry Research Organizations (IUFRO) is holding the **XXI IUFRO World Congress 7-12 August 2000** in Kuala Lumpur, Malaysia. The Congress will see the convergence of 3,000 foreign and local participants. The theme of the Congress, "Forests and Society: The Role of Research", was chosen to reflect the increasing importance of research and development in sustainable forest management and will cover such issues as management of natural resources, forest and society needs, changes in environment and society, and the global vision of forest and society. For further information, contact the Congress Secretariat; tel: 60-3-637-2135; email: iufroxxi@frim.gov.my; Web site: [frim.gov.my/iufro.html](http://frim.gov.my/iufro.html)

**Hydro 2000: Third International Hydrology and Water Resources Symposium**, Interactive Hydrology: Interactions Between Hydrology and Climate, Environment, Economics, and Society is being held in Perth, Australia *20-23 November 2000*. Issues such as the impact of dams, groundwater contamination, flooding, climate change, water quality, and algal blooms all require not just a knowledge of hydrology, but an understanding of the interactions between the hydrology of a system and the related environment, climate, economics, and society. Hydro 2000 will focus on these interactions in order to better prepare hydrologists and others to deal with these problems. Abstracts and expressions of interest are currently being solicited. For more information, contact Congress West Pty Ltd., PO Box 1248, West Perth, WA 6872, Australia; tel: 61-8-9322; fax: 61-8-9322 1734; email: conwes@congresswest.com.au; Web site: [www.ieaust.org.au](http://www.ieaust.org.au)



## Recent Publications



### REPORTS

Bretteville, C., 1999: **Decision Criteria under Uncertainty and the Climate Problem.** CICERO – Center for International Climate and Environmental Research, P.O. Box 1129 Blindern, N-0317 Oslo, Norway; tel: 47-22-85-8784; fax: 47-22-85-8751; email: reidar.evensen@cicero.uio.no or full text available at [www.cicero.uio.no/~ftp/publications/Workingpapers/wp1999-10.pdf](http://www.cicero.uio.no/~ftp/publications/Workingpapers/wp1999-10.pdf)

Brown, R.A. and N.J. Rosenberg, 1999: **Impacts of Climate Change on Potential Production of Corn, Sorghum, Soybean, and Winter Wheat in the Conterminous United States for Application to the PNNL Global Change Assessment Model.** Pacific Northwest National Laboratory, US Department of Energy, PO Box 999, 902 Battelle Boulevard, Richland, Washington 99352; tel: 509-375-2121; fax: 509-372-4791; email: [inquiry@pnl.gov](mailto:inquiry@pnl.gov)

Changnon, S.A. and D. Winstanley, 1999: **Long-Term Variations in Seasonal Weather Conditions and Their Impacts on Crop Production and Water Resources in Illinois.** Illinois State Water Survey, Department of Natural Resources, 2204 Griffith Drive, Champaign, Illinois 61820-7495.

Dutch National Research Programme on Global Air Pollution and Climate Change, 1999: **AEROSOL: Cycle and Influence on the Radiation Balance Measurement and Modelling of the reduction of Radiation by Aerosol (MEMORA).** No. 410200025. Available from Antonie van Leeuwenhoeklaan 9, PO Box 1, 3720 BA Bilthoven, The Netherlands.

Izaurrealde, R.C., R.A. Brown and N.J. Rosenberg, 1999: **US Regional Agricultural Production in 2030 and 2095: Response to CO<sub>2</sub> Fertilization and Hadley Climate Model (HadCM2) Projections of Greenhouse-Forced Climate Change.** Pacific Northwest National Laboratory, US Department of Energy, PO Box 999, 902 Battelle Blvd., Richland, Washington 99352; tel: 509-375-2121; fax: 509-372-4791; email: [inquiry@pnl.gov](mailto:inquiry@pnl.gov)

Knoepfel, I., J.E. Salt, A. Bode and W. Jakobi, 1999: **The Kyoto Protocol and Beyond: Potential Implications for the Insurance Industry.** UNEP Insurance Industry Initiative, 15 chemin del Anemones, 1219 Geneva, Switzerland; fax: 41-796-9240; email: [eteu@unep.ch](mailto:eteu@unep.ch)

McGregor, J.L., J.J. Katzfey and K.C. Nguyen, 1998: **Fine Resolution Simulations of Climate Change for Southeast Asia.** CSIRO Atmospheric Research, PMB1, Aspendale Vic 3195 Australia; tel: 03-9239-4400; fax: 61-3-9239-4688; email: [john.mcgregor@dar.csiro.au](mailto:john.mcgregor@dar.csiro.au)

Orlove, B.S. and J.L. Tosteson, 1999: **Working Paper on the Application of Seasonal to Interannual Climate Forecasts Based on El Nino-Southern Oscillation (ENSO) Events: Lessons from Australia, Brazil, Ethiopia, Peru, and Zimbabwe.** Berkeley Workshop on Environmental Politics No. WP 99-3. Institute of International Studies, 215 Moses Hall #2308, University of California, Berkeley, CA 94720-2308; tel: 510-642-2472; Web site: [globetrotter.berkeley.edu](http://globetrotter.berkeley.edu)

Slob, A.F.L. and Th. M.M. Van Hoorn, 1999: **Major Shifts in Societal Trends and Their Impact on Climate Change.** Dutch National Research Programme on Global Air Pollution and Climate Change, Report no. 410 200 012. TNO Institute of Strategy, Technology and Policy, Schoenmakerstraat 97, PO Box 6030, 2600 J.A. Delft.

UNEP, 1999: **Synthesis of the Reports of the Scientific, Environmental Effects, and Technology and Economic Assessment Panels of the Montreal Protocol.** Secretariat, Vienna Convention for the Protection of the Ozone Layer and Ozone Secretariat, United Nations Environment Programme (UNEP), PO Box 30552, Nairobi, Kenya; email [ozoneinfo@unep.org](mailto:ozoneinfo@unep.org); Web site: [www.unep.org/ozone](http://www.unep.org/ozone)

UNEP, 1999: **Handbook on Data Reporting under the Montreal Protocol.** A joint project of UNEP and the Multilateral Fund for the Implementation of the Montreal Protocol, UNEP-TIE, Tour Mirabeau, 39-43 Quai Andre Citroen, 75739 Paris Cedex 15, France.

U.S. Department of Agriculture, Economic Research Service, 1999: **Green Technologies for a More Sustainable Agriculture.** USDA, Economic Research Service, 1800 M Street NW, Washington, DC 20036-5831 USA; tel: 800-999-6779.

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Abarca del Rio, R., 1999: The influence of global warming in Earth rotation speed. *Ann. Geophysicae*, **17**, 806-811.

Changnon, S.A. and D. Changnon, 1999: Record-high losses for weather disasters in the United States during the 1990s: How excessive and why? *Natural Hazards*, **18**, 287-300.

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Frankhauser, S., J.B. Smith, R.S.J. Tol, 1999: Weathering climate change: Some simple rules to guide adaptation decisions. *Ecological Economics*, **30**(1), 67-78.

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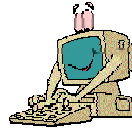
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## Web sites of Interest



Climatologist's Toolbox - <http://whyfiles.news.wisc.edu/021climate/index.html>

- So what are some of the tools of the climatologist? How do scientists measure climate or look back in time to see what climate was like long ago? Most importantly, how do they try to forecast what might be in store for the planet?

ExploreZone - <http://www.explorezone.com>

- This Web site covers the latest meteorological, geological, hydrological, and space science news with sections on volcanoes, earthquakes, tornadoes, El Niño, global warming, hurricanes, and other natural phenomena, Explorezone provides both the latest news and latest scientific findings and includes links to information sources, numerous graphics and videos, book reviews, background information, an easily searchable index of science terms, and a special section entitled "the edge" that presents new ideas in science and technology.

IUCN Nepal Online – [www.iucn.org/places/nepal](http://www.iucn.org/places/nepal)

- IUCN Nepal's site includes information on the history of IUCN Nepal, a description of the National Conservation Strategy and objectives, achievements and goals. IUCN publications are also listed.

Kingpins of Carbon: How Fossil Fuel Producers Contribute to Global Warming –

- [www.nrdc.org/nrdcpro/carbon/kocinx.html](http://www.nrdc.org/nrdcpro/carbon/kocinx.html)

Marking a World Population of 6 Billion: A Collection of Online Resources – [www.cnie.org/billion](http://www.cnie.org/billion)

- To help you better understand the many issues related to the world's population at 6 billion, the online National Library for the Environment has assembled a number of information resources.

National Hazards Project – Proyecto de Peligros Naturales – [www.oas.org/nhp/](http://www.oas.org/nhp/)

South Centre – [www.southcentre.org](http://www.southcentre.org)

- The South Centre is an intergovernmental organization of the developing countries based in Geneva.

Trees for the Future – [www.treesftf.org](http://www.treesftf.org)

- Trees for the Future promotes and supports reforestation and environmentally sustainable land use, in cooperation with local groups and individuals in their own communities around the world.

Weather resources for students and teachers in K-12 - [www.nssl.noaa.gov/resources/wxresource.html](http://www.nssl.noaa.gov/resources/wxresource.html)

- This document is intended to assist those who teach weather and climate at any level from pre-school through introductory college level courses, by listing some of the available instructional resources.

The NETWORK NEWSLETTER is intended for those interested and involved in climate-related impact assessment. It is hoped that it will serve to foster a growing network by keeping the community up to date on the many activities in this wide and varied field. Your involvement in supplying relevant information is essential to the success of this endeavor.

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