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## ANNOUNCEMENTS

*Kay McElwain*



**Kay McElwain**, formerly manager of publications, who worked at NREL for 24 years, has left the lab to move to Wisconsin. We miss her and wish her all the best! **Karen Shibuya** assumed the position on April 13. Karen previously worked as the proposal submission specialist at Sponsored Programs; before that, she held positions at Cornell University and Ithaca College.

**Dave Schimel** was elected a member of the Max-Planck-Gesellschaft society, which corresponds to the National Academy of Sciences (NAS) for Germany. In addition, he is now a member of the Ecology Institute, an international organization based in Germany. The Institute gives out the

Excellence in Ecology Award.

**Diana Wall** received a Distinguished Professorship at the University of California, Davis, Bodega Bay Marine Lab from May 24-July 29. **Ted Elliott** will be Acting Director from May 24-July 1 and **Bill Parton** from July 1-July 29.

**Bob Niles** is serving as project manager developing a database of research and extension projects for the CSU Agricultural Experiment Station.

**Chuc hoades** will leave his post-doc position working with **Dan Binley** and **Bob Stottlemeyer** later this year to become an assistant professor of restoration ecology at the University of Kentucky, Lexington. Congratulations, Chuck!

**Ana Child**, a graduate student working with **Diana Wall**, has been awarded a scholarship from the National Hispanic Scholarship Fund. Congratulations, Ana!

Three NREL graduate students successfully completed the requirements for Masters degrees. **Kelly Craig** passed her exam in Rangeland Ecosystem Science on April 2, advised by **Bill Parton**. **ill acett** successfully defended her thesis "New Measures of Conservation in Weld County, Colorado, Agriculture" and will be receiving a M.A. in Anthropology this summer. **Kathy alvin** was her advisor. **Maral Tatanova** defended her thesis entitled "Carbon Dynamics in the Grasslands of Kazakhstan" on May 1 in Rangeland Ecosystem Science. Her advisor was **Bill Parton**. She will return to Kazakhstan to pursue her professional career in natural resource management and education. Congratulations!

## EOWSIPS

NREL is pleased to announce two graduate fellowships available for Fall 1998: The Francis Clark Soil Biology Fellowship for 4000, and the NREL Graduate Student Fellowship for 2,000. To be eligible for either scholarship, the students major professor must be a senior scientist at NREL. Applications must be submitted to **Arlene Boaman** at B20 NESB by **une 1 1998**. Further information can be found on the World Wide Web. Thanks to the NREL Endowment Committee chaired by Dave Swift and comprised of Vern Cole, Bert Cushing and Kathy Galvin for their efforts in establishing the guidelines for distribution of the fellowships.

## MEETINGS

### *Colorado*

The Vegetation Ecosystem Modeling Analysis Project (VEMAP) Phase 2 experimental design workshop was hosted by **Dennis Ojima** and **Bill Parton** at NREL April 27-29. The meeting attracted over 30 scientists from nine institutes, including **Tim Kittel** and **Dave Schimel** of NREL, **erry Melillo**, NREL's recipient of the 1999 Distinguished Ecosystem Scientist award, and research groups from Sweden and Germany. The meeting defined the analytical protocol for the analysis of ecosystem and biogeographical changes under a transient climate in support of the ongoing National Climate Assessment Project of the U.S. Global Change Research Program. VEMAP is supported by NASA, USFS, EPRI, and NSF.

Following the VEMAP meeting, Oregon State University and USFS researchers of the MAPSS modeling group met with **Dennis Ojima**, **Bill Parton**, **Robin Kelly**, **Timothy Kittel**, **Melannie artman**, and **Betsy McKeown** at NREL to discuss the linked MAPSS-Century model. This modeling effort will dynamically link biogeochemistry and biogeography of ecosystems, to form a new class of models: Dynamic Global Vegetation Models (DGVM).

From April 22-24, the Shortgrass Steppe Long Term Ecological Research (SGS LTER) project at NREL and its PI, **Indy Bure**, hosted the LTER Coordinating Committee. Representatives from the twenty-one LTER sites, the LTER Network Office, and NSF directors were in attendance. Discussions centered on new opportunities within the LTER research community, such as microbial

observatories and integration of K-12 education. The group took a trip to the field station to see the exciting research being done at the SGS LTER. **Chris Wasser** is the SGS LTER project/data manager. At the LTER coordinating committee meeting, **Dave Bigelow** was invited to describe the CSU USDA UVB monitoring program. Some LTER sites are interested in implementing a UVB radiation monitoring program, with guidance and possibly data management performed by the CSU team.

### *National*

**Jill Baron** attended an Ecological Society of America Governing Board meeting March 6-8 in Logan, UT. She proposed, and the President and Board approved, the preparation of an ESA White Paper on "Issues of Freshwater Euity and Ecosystems: Balancing Environmental and uman Needs for Water." Jill also participated in the annual evaluation of the USGS-BRD watershed studies research programs in Seuoia National Park, March 30 -April 3.

**Ted Elliott** participated in the Terrestrial Ecology and Global Change (TECO) peer review panel which met in Washington, DC May 11-12. The panel reviewed approximately 140 proposals and made funding recommendations to NASA, who ran the panel this year for the other participating agencies: NSF, DOE, USDA and NOAA. TECO was organized to support research in terrestrial ecology as it relates to global environmental changes. While in Washington, Ted also participated in a review of the Ecological Studies Cluster (Ecology and Ecosystem Studies programs) as a member of the Committee of Visitors May 13-1. The committee evaluated the uality of the Clusters management over the past three years and presented its report to the Assistant Director and Deputy Assistant Director of the Biological Sciences Directorate and the Director of the Division of Environmental Biology.

**im ibson** and **im Slusser** were invited to provide an update on the CSU USDA UVB Monitoring program to a meeting of the U.S. Global Change Research Program (USGCRP) Interagency UV Panel in Washington, DC on April 24. Network status, future plans, data availability, and research were discussed.

**Tim Kittel** and **Dave Schimel** took part in the Department of Energy National Institute of Global Environmental Changes (NIGEC) National Technical Advisory Committee Panel, April 20-21, in Gaithersburg, MD. **Dave Schimel** also attended the U.S. National Assessment Synthesis Team in Washington, DC and the Gulf Coast Regional Assessment Workshop.

**Keith Paustian** was invited to participate in a planning workshop on "Carbon Seuestration in Managed Terrestrial Ecosystems," organized by Pacific Northwest and Oakridge National Laboratories in Washington, DC April 23-24. The workshop participants sent a letter to the Council of Economic Advisors with current information on C seuestration in soils with respect to mitigation of CO<sub>2</sub> emissions.

**Diana Wall** attended a Science Advisory Board meeting at the National Center for Ecological Analysis and Synthesis March 3- in Santa Barbara, CA. She returned to California for the April 1 -3 meeting of the National Research Council (NRC) Board on Environmental Studies and Toxicology in Irvine. On the <sup>th</sup>, she was invited to Stanford University to participate in "A Report Card on the ealth of the Nations Ecosystems" review sponsored by the einz Center for Science, Policy and the Environment.

### *International*

**Dan Binley** and **Keith Paustian** were "opponents" on Ph.D. defenses at the Swedish University of Agricultural Sciences, Uppsala, Sweden, on April 3. In the Swedish system, the external examiner is responsible for presenting a summary of the students work, and then grilling the student with

insightful questions for 2 hours. In addition, **Keith Paustian** presented a seminar at the Department of Soil Sciences on "Modeling Regional Soil C Dynamics."

**Kathy alvin** met with Tanzanian government officials, University of Dar es Salaam faculty, and non-government stakeholders regarding the logistics of research for her U.S. AID Global Livestock-Collaborative Research Support Program funded project entitled "Integrated Modeling and Assessment Project (IMAP)" in Tanzania March 3 -April 1.

**Dan Milchunas** was in Israel working on a US-Israel Binational Science Foundation (BSF) grant with **Immanuel Noy Meir** in northern Galilee. He was also hosted by **Deborah Oldberg** at the Desert Research Institute and **Noam Seligman** at the Volcani Center. On the return trip he visited with **Salvador ebollo** and **Antonio ome Sal** at Alcala University in Spain. Dr. Rebollo will be returning to CSU this year to complete his research associated with the BSF grant.

The 2<sup>nd</sup> Land Use in Temperate East Asia (LUTEA) meeting was held in Beijing, China, March 2 - 1998, hosted by **Dennis Oima** at NREL and **hao Shidong** of the CERN Commission for Integrated Survey of Natural Resources (CISNAR) of the Chinese Academy of Sciences. **Jim Ellis** and graduate students **Indsey Christensen** and **Meg Walsh** presented posters on research in China and Mongolia. Dennis, as chair, presented the current status of LUTEA.

**Keith Paustian** attended a planning workshop in Nairobi, Kenya on April 14-15 to develop a proposal to the U.N. Global Environmental Facility (GEF) on "Assessment of Soil Carbon Stocks and Change at Regional Scale." The proposal is a collaborative effort with scientists from Brazil, India, Kenya, and the United Kingdom.

**Dave Schimel** attended a workshop on inverse methods in biogeochemistry in Iraklion, Crete, Greece.

**Diana Wall** was invited to Mexico City to serve on the Scientific Committee to assess the quality of the articles of the Convention on Biological Diversity and to attend the DIVERSITAS meeting entitled "Biodiversity Dynamics: Challenges for the Future" March 23-29.

## PAPERS PRESENTED AND SEMINARS

**Bill Baron** presented the CSU Department of Earth Resources seminar "Water quality of the Rocky Mountains" on April 1.

**Ted Elliott** presented information pertaining to C storage in soils as an invited speaker at the USDA Air quality Task Force meetings April 6 -9 in Amarillo, T. April 28 -30 saw Ted and **Dennis Oima** at the NIGEC annual Principal Investigators meeting in Lincoln, NE.

**Tom obbs** gave demonstrations of the Natural Diversity Information Source to the Department of Natural Resources Information Summit in Denver on April 14, the Thorne Ecological Institute in Glenwood Springs on April 20, the Colorado Mountain Backdrop Conference in Denver on April 24, and the Colorado Realtors Land Institute in Breckenridge on April 30.

**Mohammed Kalhan** gave a presentation at the Annual Meeting of American Society for Photogrammetry and Remote Sensing-Resource Technology Institute (ASPRS-RTI) entitled "Assessing the Accuracy of Vegetation Diversity Map Classification Using Double Sampling" March 31-April 3 in Tampa, FL.

**Dennis Oima** attended the 2<sup>nd</sup> NASA Land Cover Land Use Change (LCLUC) Science Team meeting in Airlie, VA, March 30-April 2. The title of his presentation was "The Current Status of the

Great Plains Assessment."

**Dennis Oima** , **Diana Wall** and **Indy Bure** attended the Open Science meeting for IGBP GCTE/LUCC on the theme: "The Earths Changing Land" in Barcelona, Spain March 14 -18. Dennis presented a plenary paper on "The Role of the SysTEm for Analysis, Research, and Training (START) Program in Global Change Research" with **oland uchs** , and a paper on "The Regional Study on Land Use in Temperate East Asia (LUTEA)." e also presented two posters, on "Land Use Change Impacts on Biosphere-Atmosphere Exchange and Regional Climate: Terrestrial Ecosystem Feed Back to Regional Climate in Central United States," and on "Integrated Analysis of Climate Change Impacts on Agroecosystems of the Great Plains: Integration of Ecosystem and Economic Factors Determining Land Use Under Climate Change." Diana presented an invited paper "Biodiversity in Sediments and the Effects on Ecosystem Functions." The paper was co-authored with **Margaret Palmer** of the University of Maryland and **P.. Snelgrove** of the Memorial University of Newfoundland. Indy, a GCTE steering committee member, presented a talk entitled "Landscape to Regional Scale Complexity and Ecosystem Functioning."

**Dave Theobald** presented a talk entitled "Using GIS to Support Conservation Planning" to the Department of Natural Resource Planning and Interpretation, umboldt State University, on March 2.

**Dave Theobald** and **Tom obbs** (with **D. Schrupp** and **. OBrien** ) presented a poster entitled "An Assessment of Imperiled abitat in Colorado" at the U.S. meeting of the International Association for Landscape Ecology in East Lansing, MI, March 1 -21.

**Diana Wall** presented an invited lecture at the Smithsonian Institute in Washington, DC entitled "Laboratory on Ice: Polar Connections" as part of the NSF-managed National Science and Technology week April 1 -18.

## ISITOS TO NE

**Dr. Norman Myers**, consultant in environment and development from Oxford, UK, visited NREL March 11-12. is visit was ointly sponsored by Agricultural and Resource Economics, Philosophy, Economics, the Graduate School and NREL. Dr. Meyers is an internationally renowned environmentalist who has advised governments, development organizations and scientific bodies on issues from global warming and the population explosion to the future of our economies and the overall theme of one-world living. e has lectured at over 100 universities across North America and currently holds several appointments as visiting professor at U.S. and European universities. e has published ten books, written hundreds of articles for magazines such as *Scientific American*, *New Scientist*, and *National Geographic*, and in 1992 won the Volvo Environment Prize. While here, he gave two talks: "The U.S. Stake in the Global Environment" and "The Environmental Exodus: An Emerging Crisis in the Global Arena."

April 20-22, **Dr. iu Chuang** of the Consortium for International Earth Science Information Network (CIESIN) and a Global Change SysTEm for Analysis, Research and Training (START) visiting research scholar worked with **Dennis Oima** , **Steve Kno** , and **aura Stretch** in developing a Chinese data base for land use studies. This research supports the LUTEA study, in association with IGBP core proects, GCTE and LUCC. Dr. Chuang returned to NREL May 11 -1.

NREL will have three START visiting scholars this year working with **Dennis Oima** : **Dr. iu Chuang** from CIESIN, **Dr. Chuluun Togtohy**n, NREL, and **Dr. iong ia** from Beiing Normal University. The fellows will pursue research on land use dynamics in the Temperate East Asian region.









*May*

*Graduate Students:*

*June*

*Graduate students:*

*July*

*Graduate students:*

*August*

*Graduate students:*



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