

# THE BIOGEOGRAPHER

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Newsletter of the Biogeography Specialty Group of the Association of American Geographers  
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## President's Column

# Biogeography and the BSG: Opportunities and Growth

In the last two years I have had reason for lots of reflection on the state of biogeography, both within and outside of geography. I guess beyond being the President of our esteemed group, three factors have motivated this contemplation. First, I have been finishing an introductory textbook on biogeography. The book is pitched for undergrads at a level between Cox and Moore and Brown and Lomolino. In that effort, I have had the chance to read much of your work (thanks for the reprints!) and consider our place in a broader context. Second, I was honored to write a Millennium Editorial for Journal of Biogeography.. Putting my editorial aside, there are lots of interesting pieces in the Millennium Editorial series and I urge you to have a look at them if you have not done so already. My editorial was on preparing biogeographers for the third millennium. In it I considered the general skills we need to provide our students in order for them to meet the challenges of the future. Third, I was invited to participate in a very small meeting of biogeographers from biology, geology, museums, government and geography (Robert Whittaker of Oxford and I had the honors of representing geography). The meeting was organized by Jim Brown, Mark Lomolino and others. The purpose was to look at the future of biogeography and plan for an International Society of Biogeographers. Preparation for the meeting really caused me to consider the discipline at large and what place we, biogeographers in the BSG, should strive for. I present to you a few of my thoughts from all of this. In particular I consider an important direction for research opportunities and how we might grow the BSG.

The opportunities for biogeographers within geography departments have probably never been better. However, seizing them may take a little work. Spatially explicit analysis of plant and animal

distributions, both static and dynamic, has never been more important or more practical. We may think that analysis of mapped distributions is 'old school' biogeography, but it is coming back with a vengeance. In planning for conservation in fragmented and fragmenting environments the natural spatial distributions of species can provide invaluable clues to their resource requirements, population dynamics and metapopulation dynamics. Simply think about the work that Brown and colleagues have continued to do with mammal distributions on mountains - looking now at the impact of global climate change on species richness. Consider also the range collapse maps that Lomolino has produced. How about all the questions regarding the behavior of invasive species that are being addressed using more spatially explicit approaches. Analysis of the distributions of a wide variety of organisms is becoming easier as biological data bases become more complete and accessible. A wonderful example is the FAUNMAP data base that provides the location of vertebrate paleontological finds. It has already been used by biologists to look at the community mixing of temperate and arctic small mammal species that occurred during the Pleistocene. In addition, the tools of remote sensing, GIS, automated cartography and visualization provide us the means to gather, organize, analyze and present our data and findings with incredible efficiency. Biologists have discovered all of these tools and are applying them with great success. In the spatial analysis of biologic phenomena we geographers should strive to be at the lead. We should particularly be leading in integrating spatial data on the biota with data on the physical environment. The California GAP project, directed by Frank Davis when he was in the Department of Geography at Santa Barbara, is an example of how geographers can indeed lead in such efforts. The integration of the physical and biological in a spatial context is what geographers claim to do – so lets do it!

As I mentioned above, seizing some of the new opportunities may take a bit of work. Many of us biogeographers in mid- to senior level faculty positions were trained in the traditions of population ecology, stand-scale disturbance ecology, human land-use history, and paleoecology. Analysis of lines on maps may have seemed interesting, but in a quaint 19th century way. We were often most interested in understanding process at the small scale - and then, perhaps inferring larger spatial pattern. There is much excellent work still to be done in these areas, but we might also strive to move our own research into some of the new directions I have mentioned in the previous paragraph. At the least, we should try to see our students are prepared to use tools such as remote sensing, GIS, and spatial statistics.

Biogeography is on a growth trend in the wider world. The formation of the International Association of Biogeographers is a manifestation of this. I personally welcome this growth and the new organization as it will allow geographers to meet and learn with people from diverse backgrounds. The time I spent at the meeting for the formation of this new organization was one of the most stimulating I have experienced in some time. What of the BSG in this brave new world? it seems to me that the BSG and AAG offer an excellent venue for us to continue to build our awareness and expertise in spatial analysis of biota and environment. The Annual Meeting brings together world experts in climatology, pedology, geomorphology, remote sensing, GIS, and spatial statistics. It also brings together people interested in the conservation and policy aspects of our work. The International Biogeography Society will be more focused on biogeographers and not have this breadth. To get full value from the BSG and AAG we need to work on producing more sessions that bring together our members with others in the AAG. I could imagine sessions on new developments in spatial statistics and applications in biogeography, or cartography and the presentation of biogeographical data, there are huge areas we could also explore in remote sensing, GIS, climatology etc. – you get the picture.

Aside from providing information on research advances, the BSG has an important function in building a true community of biogeographers within geography. Such a community offers advice, support, collaborative opportunities, social interaction and strength within and outside the discipline. In order for the BSG reach its potential we also need to get all biogeographers in geography departments within North America to get involved with the BSG. I think that our awards and student grants are excellent inducements. Interesting special sessions with personal invitations to selected geographers and others

outside academic geography will also help. A bit of cajoling has never hurt! Let non-participating biogeographers know how good the last AAG was, how your student or someone else won an award or got research money for a project. Lets make the BSG listserver as useful as possible. Please post questions, job adverts, calls for proposals and grad opportunities on it. Let colleagues know they are missing out if they are not on the listserver.

We should also try to spend a bit more time together at the AAG as a community. The Business Meeting is a must, but it is short and packed with the affairs of the BSG. The AAG is so large we often miss seeing each other during the other sessions. By not interacting more we are missing out on much. Therefore, I call for a tradition of retiring for refreshments, informal discussions and good times after the business meeting (SO RESERVE FRIDAY NIGHT AT THE NEW YORK AAG!!!). We did this after the last Business Meeting and it was great.

In conclusion, I suppose my most important recommendations for growth of the BSG can be summarized as follows, from the now ancient, but immortal worlds of *Bill and Ted's Excellent Adventure*, "Be excellent to each other and party on dudes!" – see ya in the New York!

Glen MacDonald

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## Elections:

# BSG President and Board Members

That other election is finally over, but the New York AAG Meeting will mark the completion of Glen MacDonald's term as BSG president. Katrina Moser and Keith Hadley will also complete their terms as members of the BSG Board. And unlike that other election, every vote in the BSG really *will* be counted.

**To vote, send an email to Jim Dyer ([dyer@oak.cats.ohiou.edu](mailto:dyer@oak.cats.ohiou.edu)) with your choices. Please vote for one candidate for BSG President, and two candidates for the BSG board.**

## BSG President: Kam-biu Liu and Kenneth R. Young

**Kam-biu Liu.** B.S.Sc. (The Chinese University of Hong Kong, 1974); M.Sc. (University of Toronto, 1978); Ph.D. (University of Toronto, 1982). Liu is the James J. Parsons Professor of Geography in the Department of Geography and Anthropology, Louisiana State University. He has taught at LSU since 1984, from Assistant Professor (1984-89), Associate professor (1989-95), to Professor (1995-97) and Parson Professor (1997-present). **Research:** Liu's primary research interests are in Quaternary paleoecology, vegetation and climate change, and paleotempestology. His refereed research papers have appeared in journals like *Nature*, *Science*, *Ecological Monographs*, *Journal of Biogeography*, *Review of Palaeobotany and Palynology*, *Quaternary Research*, *Quaternary Science Reviews*, *Annals of AAG*, *Professional Geographer*, *Geographical Analysis*, *Geology*, *American Antiquity*, *Climatic Change*, *Journal of Climate*, and *Journal of AIDS*. Recent and current research projects include: paleo-records of monsoon climate changes in the Tibetan Plateau; pollen studies of Andean and Tibetan ice cores; tropical biodiversity and Quaternary history of Amazon rain forest; human impacts and vegetational history of the temperate and subtropical forests of China; Holocene vegetation dynamics of the boreal forest in Canada; millennial variability of hurricane activities in the U.S. Gulf coast and Atlantic coast; and historical

climatology of typhoon landfalls in China. He has been the PI of numerous research grants from NSF, NOAA, National Geographic Society, and the Bermuda Biological Station for Research. **Teaching:** At LSU, Liu teaches courses in Biogeography, Quaternary Paleoecology, Tropical and Subtropical Biogeography, Physical Geography, and graduate seminars on topics like Cultural Palynology, and Paleoecological Perspectives in Global Environmental Change. **Service:** Liu has attended every AAG annual meeting since 1979. He served as a member of the BSG Board of Directors (1991-93) and helped to launch the BSG student research grant program. He was a judge in BSG student paper competitions at several AAG meetings. He was a member of the U.S. National Committee for the International Union for Quaternary Research (USNC/INQUA) (1988-1996), and was the editor of *Geoscience and Man* (1988-93).

**Kenneth R. Young** received his doctoral degree from the Department of Geography of the University of Colorado at Boulder in 1990. His MS is in botany from the University of Florida (1984) and his BS is in ecology from the University of Illinois (1978). His research and teaching interests are in biogeography, landscape ecology, and environmental conservation. Almost all of his publications are based on extended fieldwork in South America, particularly in the forests, grasslands, deserts, and wetlands of Peru. Recently, he coedited with Karl Zimmerer the book *Nature's Geography: New Lessons for Conservation in Developing Countries*. His 50 or so articles and book chapters have appeared in a variety of outlets, including *Ambio*, *Biodiversity and Conservation*, *Biotropica*, *Conservation Biology*, *Environmental Conservation*, and *Landscape and Urban Planning*. He was the lead author (with Mark Blumler, Lori Daniels, Tom Veblen, and Suzy Ziegler) of a chapter providing an overview of the status and research directions of biogeography for the forthcoming book edited by Gaile & Willmot, *Geography in America at the Dawn of the 21<sup>st</sup> Century*. As of fall 2000, he is an associate professor in the Department of Geography of the University of Texas at Austin.

## **BSG Board**

**Mark A. Blumler** (Department of Geography, SUNY-Binghamton) received his B.S., M.A., and Ph. D. degrees from the University of California, Berkeley. His research interests include Mediterranean environments, succession theory, seed weight and environment, agricultural origins, genetics of plant domestication, invading species, and grassland conservation. His teaching interests are broader, including in addition to Biogeography, conservation, several areas of physical geography, environmental history, ethnicity, and music geography. Currently, he is involved in the attempt to create a Biogeography Group within the IGU. He has published papers in *Economic Botany* and *Current Anthropology*.

**David Cairns** has a B.A. in Genetics with a minor in Geography from the University of California, Berkeley (1989), a M.S. in Geography from the University of Florida (1991), and a Ph.D. in Geography (1995) from the University of Iowa. He taught for three years at the University of South Carolina and is in his third year of teaching at Texas A&M University. His research interests are primarily in the areas of ecotone dynamics and landscape ecology. He has employed simulation modeling and GIS to investigate questions of ecotone stability and form at the alpine treeline ecotone in Glacier National Park, Montana and at the deciduous-coniferous ecotone in Great Smoky Mountains National Park. He teaches courses in Earth System Science, Biogeography and Vegetation Response to Climate Change. He has served the BSG as the chair of the student research proposal competition and has been a reviewer in the student paper competition. He has published papers in *Physical Geography*, *Geographical and Environmental Modelling*, the *Journal of Vegetation Science*, *Plant Ecology* and *Ecoscience*.

**Mark Cowell.** Associate Professor, Department of Geography, University of Missouri. (PhD University of Georgia 1992; MS Penn State; BS Michigan State). A biogeographer with primary interests in analyzing the manner in which humans have altered disturbance regimes, and the resulting consequences for deciduous forests throughout eastern North America. His research has examined these issues in a

variety of settings, including secondary piedmont forests, riparian sites in Pennsylvania, and old-growth remnants in Indiana; it has been published in outlets such as the *Annals of the AAG*, *Physical Geography*, *American Midland Naturalist*, and *Environmental Ethics*. His teaching focuses on biogeography, field methods, GIS applications, and human relations with the environment. Current service to the discipline includes serving on the editorial board for the *Annals*.

**Deanna H. McCay** is an Assistant Professor in the Geography Department at Colgate University. Her research interests include invasive species, landscape ecology and human impacts on vegetation. She regularly teaches introduction to physical geography, biogeography and geographic information systems. Deanna received a PhD in geography in 1998 from the University of Georgia. She has recently published in *Ecosystems* and *Journal of the Torrey Botanical Society* and has articles forthcoming in *Landscape Ecology* and the *American Neptune*.

**Lesley Rigg**, Assistant Professor, Northern Illinois University (Ph.D. 1999 University of Melbourne, M.A. 1994 University of Colorado, B.A. 1992 York University). Research: The dynamics of the boreal forest/deciduous forest ecotone along the eastern shore of Lake Superior (funded by National Geographic). Araucarian forest/maquis dynamics in New Caledonia. The role of fog in the development of rainforest in New Caledonia. Regeneration and management of oak woodlands in Northern Illinois. Previous projects include: old field succession in upstate NY, and species diversity in riparian rainforest patches in Belize. Publications in the *Journal of Vegetation Science*, *Australian Journal of Ecology*, *Journal of Applied Ecology* and upcoming in *South African Journal of Science*. Teaching interests include: Physical Geography at both the undergraduate and graduate levels, geography of world plant communities, field methods in Physical Geography, Biogeography, forest ecology and management, plant/soil relationships and quantitative methods for Geographers.

**Peter Yaukey**. After completing his undergraduate work in Biology at the University of Virginia, Peter switched to Geography and obtained his M.A. at the University of Colorado working with Tom Veblen, and then his Ph.D. at the University of Georgia working with Kathy Parker. Peter's greatest interest has always been in zoogeography, especially birds, and he has for years organized or chairing zoogeography paper sessions at the AAG annual meeting. He is currently Associate Professor and Chair of the Department of Geography at the University of New Orleans. He has recently published papers in *Professional Geographer*, *Journal of Biogeography*, *Physical Geography*, and *Wilson Bulletin*.

**Steve Yool**, an applied biogeographer and remote sensing scientist, earned the Ph.D. in Geography from the University of California, Santa Barbara (1985). Dr. Yool joined The University of Arizona Department of Geography and Regional Development in 1992 after a decade of research in government laboratories, and has pursued an active teaching and research agenda in Biogeography. He developed and teaches a lower division general education course Our Diverse Biosphere, and has 4 current Ph.D. students conducting research in ecosystem sustainability, fire disturbance and pattern analysis. Recent and forthcoming papers appear in *GeoCarto International*, *Aerobiologia*, *Photogrammetric Engineering & Remote Sensing*, *Computers and Geosciences*, *Ecological Applications*.

**Susy Ziegler** earned a B.A. in Geography at Dartmouth College in 1990. She received her M.S. and Ph.D. degrees from the University of Wisconsin-Madison in 1993 and 1999, respectively. Ziegler is Assistant Professor in the Department of Geography at the University of Minnesota. She teaches *Biogeography of the Global Garden*, *Plant and Animal Geography*, and graduate seminars in physical geography. Her research focuses on the structure, dynamics, and disturbance regimes of forests in the Upper Midwest and the northeastern United States. Ziegler has published in *American Midland Naturalist* and *Global Ecology and Biogeography*.

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## Call for Nominations:

# Cowles and Parsons Awards

Please consider submitting nominations for the Henry Cowles Award for Excellence in Publication and the James J. Parsons Distinguished Career Award. A brief description of the awards is below with information on how to submit nominations.

In 1998, the Biogeography Specialty Group began awarding two new awards, the Henry Cowles Award for Excellence in Publication and the James J. Parsons Distinguished Career Award. The Cowles Award is to be given annually in recognition of the best biogeographical publication of the year. Nominations for this award can be either books or papers, and the award-winner will be selected by the Executive Board of the BSG.

Past Cowles awards include: Karl Zimmerer 1998 (University of Wisconsin) for his book "Changing Fortunes: Biodiversity and Peasant Livelihood in the Peruvian Andes;" Glen MacDonald 1999 (UCLA), and; Veblen, T.T, T. Kitzberger, R. Villalba, and J. Donnegan. 1999. Fire history in northern Patagonia: The roles of humans and climatic variation.

Ecological Monographs 69:47-67.

The Parsons Award, named in honor of long-time Univ. of California-Berkeley professor James J. Parsons, was created to recognize outstanding lifetime achievements in the field of biogeography. Criteria used to assess a candidate's merit for this award might include a distinguished research career, remarkable dedication to the development of undergraduate and graduate students in biogeography, or outstanding service to the discipline. Awardees include Clarissa Kimber - Texas A&M University (1998) and Tom Vale - University of Wisconsin - Madison (2000).

To submit your nomination for the Cowles Award, please send me the name of the person and the name of their paper/book. To nominate a person for the Parsons Award, I would request that you send a short letter of nomination stating some of the candidate's most significant achievements. Information can be submitted via snail mail, e-mail or fax to:

Joan M. Welch  
Department of Geography and Planning  
West Chester University  
West Chester, PA 19383

email: [jwelch@wcupa.edu](mailto:jwelch@wcupa.edu)  
telephone: 610-436-2940  
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## Award

# Biogeography Student Paper Competition 2000 Winner: Mike Pisaric.

By Katrina Moser.

Nine students from five institutions participated in the BSG Student Paper Competition in Pittsburgh. All of the presentations were first rate, and I would like to thank all the participants for contributing. I would also like to sincerely thank the judges, Kathy Hansen, Kam-biu Lui, Scott Mensing, Tom Vale, Kathy Parker, Chris Larsen and Mimi Fearn, for their help and input. The winner of the competition was Mike Pisaric (Queen's University, Kingston, ON, Canada) for his paper entitled, "Holocene treeline dynamics in northeastern British Columbia and southeastern Yukon Territory, Canada".

Mike Pisaric completed his B.Sc. at Brock University in 1994; his M.Sc. at McMaster University (supervisor: Glen MacDonald) in 1996, and is now completing his Ph.D. at Queen's University (supervisors: Julian Szeicz (deceased) and Robert Gilbert). To date, Mike's research has focussed on treeline dynamics. His M.Sc. research determined late-Quaternary vegetation history of Siberian treeline, whereas his Ph.D is a study of treeline dynamics in the northern Rocky mountains, British Columbia and the Yukon.

The paper Mike presented at the AAG 2000 demonstrated, using pollen and stomate analyses, that treeline in the northern Rocky mountains has existed at elevations higher than its present position. Mike has already published some of his research, including publications in *Quaternary Science Reviews* and *Arctic, Antarctic and Alpine Research*. As well, Mike has received several awards for his research, including an Ontario Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (NSERC) post graduate scholarship and several others. He was also winner of the Biogeography Specialty Group Student Grant Competition in 2000. After completing his Ph.D. Mike will be moving to Montana where he will begin a Post Doctorate Fellowship with Lisa Graumlich at the Mountain Research Center and the Department of Land Resources, Montana State University. In Montana, Mike will be reconstructing precipitation patterns in the Greater Yellowstone Region using long tree-ring records.

*Editor's note: I've been informed that Mike has successfully defended his Ph.D. dissertation. Congratulations Mike!*

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## News

### Biogeographers in New York

**Finally! A BSG-sponsored field trip!** Kimberly Medley and Joan Welch have put together a field trip for us: **Urban Forest Ecology And Restoration Management At Inwood Hill Park**. Here's the scoop:

"The trip explores Inwood Hill Park in north Manhattan. The 200-acre park contains a large remnant forest and now has portions overrun with invasive ornamental shrubs and tree vines. In 1991, the NYC Parks Natural Resources Group began restoration, planting to date over 20,000 trees and shrubs. We will join NRG for a survey of the resources and management

activities. The group will meet to take the 1,9 and A lines to Washington Heights. Shelter available at the Park Nature Center, but be prepared for the cold and wet weather."

Tim Wenskus (Natural Resources Group, City of New York Parks & Recreation) will be our host. The trip is scheduled for Thursday, March 1st, from 1:30-6:45 PM. The cost is \$15.

### **Other things to do in New York.**

New York is actually full of biogeographic interest, if you're interested in making your own field trips. Some highlights are the **New York Botanical Garden** ([www.nybg.org](http://www.nybg.org)), which includes the Enid A. Haupt Conservatory, a gorgeous Victorian glasshouse that houses a permanent exhibition called "A World of Plants" where you can flesh out your slide collection quite nicely. There's also the herbarium (6.5 million specimens) and library, now housed in the new International Plant Science Center. If you'd rather travel to Brooklyn, there's the **Brooklyn Botanic Garden** ([www.bbg.org](http://www.bbg.org)), which also has a conservatory, herbarium, and library. Staten Island is home to a third botanic garden (as well as the Fresh Kills landfill, supposedly the 2nd largest human-made structure on Earth, after the Great Wall of China).

New York is also home to one of the world's premier zoological parks, the **Bronx Zoo**. Over 6,000 animals call it home, making it the largest metropolitan zoo in the US. The Zoo is run by the Wildlife Conservation Society ([www.wcs.org](http://www.wcs.org)), which also operates three satellite Wildlife Centers (sort of "mini-zoos"), including the Central Park Wildlife Center (830 Fifth Avenue—walking distance from the conference). You can spend days here. The same is true of the **New York Aquarium**, also run by WCS. It's a hoof to get out to Coney Island, but worth the trip.

If you prefer your plants and animals stuffed and posed, or fossilized, try the **American Museum of Natural History** ([www.amnh.org](http://www.amnh.org)). AMNH recently added the spectacular Rose Center for Earth and Space. The Rose Center includes the new Hayden Planetarium and the Hall of Planet Earth, which has the Dynamic Globe, an eight-foot diameter globe with an internal projection system that, as their brochure describes it, "beams a digital film to render a stunning view of Earth from outer space. As the twelve-minute video loop progresses, visitors...are able to watch Earth make a full rotation as its cloud cover slowly disperses, revealing a surface of dark, deep oceans and lush green continents. All the vegetation and then the water slowly disappear, uncovering the Earth's rugged topography, and resulting in a final, haunting view of the Earth without atmosphere or water."

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### **Schedule**

## **Biogeography-Related Paper and Poster Sessions at the New York AAG Meeting.**

*Compiled from the AAG Meeting [Preliminary Program](#) by Mike Smith, Bucknell University Dept. of Geography.*

**Wednesday, February 28**

**8:00 am - 9:40 am**



**3.1.10 Long-Term Ecological Consequence of Disturbance and its Implication For Ecosystem Management, Session I** (Sponsored by Biogeography and Mountain Geography Specialty Groups). Organizers: Andrea Brunelle-Daines, University of Oregon, Kurt Kipfmüller, University of Arizona. Chair: Andrea Brunelle-Daines, University of Oregon

- 8:00 Chris Larsen, SUNY Buffalo, Has Fire Control Modified Fire Frequency and Forest Composition in Boreal Northern Alberta?
- 8:20 Charles W. Lafon, Texas A&M University, Patterns and Consequences of Ice Storms in Forested Appalachian Landscapes
- 8:40 Sarah L. Schafer, University of Oregon, Potential Future Changes in Pacific Northwest Vegetation Patterns and Fire Regimes: Implications for Ecosystem Management
- 9:00 Gabrielle L. Katz, University of Boulder, The Consequences of Historic Flood-Disturbance and Current Flood Control for Semi-Arid Riparian Forests
- 9:20 Andrea Brunelle-Daines, University of Oregon, Holocene Relationships Between Fire, Climate, and Vegetation as Recorded From Four Northern Rocky Mountain Sites

**3.1.25 Biogeography and Environmental Changes.** Chair: Donald G. Sullivan, University of Denver.

- 8:00 Stephen Podewell, Western Michigan University, Meghan Rogers, Western Michigan University, Field Analysis of the Physical Ecological Parameters of Jenny Lake, Wyoming: A Case Study on the Anthropogenic Effects on the Environment in Grand Teton National Park
- 8:15 Luke J. Marzen, Kansas State University, Human - Influences on Processes of Vegetation Recovery at Mount St. Helens
- 8:30 Miranda Lewitsky, Southwest Texas State University, Types and Utilization of Animal Highway Crossing Structures
- 8:45 Mary Ann Cunningham, University of Minnesota, Interpreting Landscape Conditions for Grassland Bird Communities Using Landsat-based Land-cover Data
- 9:00 Brian Witcher, National Park Service, Monitoring Missouri Bladderpod (*Lesquerella filiformis*) at Wilson's Creek National Battlefield
- 9:15 Donald G. Sullivan, University of Denver, Sedimentological Evidence of Late Quaternary Environmental Change

**3.1.37 Biogeography: Dynamics of Deciduous Forests** Chair: Lesley Rigg, Northern Illinois University.

- 8:00 James Dyer, Ohio University, Two Hundred Years of Forest Change in Southeastern Ohio
- 8:20 Linda Jines, Northern Illinois University, Composition, Structure, and Regeneration Dynamics of an Oak Woodland in Northern Illinois
- 8:40 David Goldblum, University of Wisconsin-Whitewater, Age Structure and Regeneration Dynamics of Sugar Maple in the Deciduous/Boreal Forest Ecotone, Ontario, Canada
- 9:00 Amanda Stan, Northern Illinois University, Factors Affecting White Oak (*Quercus alba*) Seedling Establishment and Growth in a Northern Illinois Woodland
- 9:20 Lesley S. Rigg, Northern Illinois University, Growth Rates of Competing Forest Species at the Deciduous/Boreal Ecotone, Ontario, Canada

**Wed. 10:00 am - 11:40 am**

**3.2.10 Long-Term Ecological Consequences of Disturbance and Its Implication For Ecosystem Management Session II** (Sponsored by: Biogeography and Mountain Geography Specialty Groups). Organizers: Andrea Brunelle-Daines, University of Oregon, Kurt Kipfmüller, University of Arizona. Chairs: Andrea Brunelle-Daines, University of Oregon, Kurt Kipfmüller, University of Arizona

- 10:00 Kurt Kipfmüller, University of Arizona, Subalpine Forest Structure, Composition and Time-Since-Disturbance in the Selway-Bitterroot Wilderness Area
- 10:20 Joseph A. Donnegan, U.S.D.A. Forest Service, Variability in Fire Regimes Through Time Along the Colorado Front Range
- 10:40 Dominik W. Kulakowski, University of Colorado Boulder, Influences of Fire History on the Effects of a Catastrophic Blowdown in a Subalpine Forest in Northwestern Colorado
- 11:00 Colin J. Long, University of Oregon, Holocene Fire and Vegetation History of the Oregon Coast Range

3.2.35 **Diversity and Disturbance.** Organizer: Carl Beierkuhnlein, University of Rostock. Chairs: Carl Beierkuhnlein, University of Rostock, Peter S. White, University of North Carolina.

- 10:00 Carl Beierkuhnlein, University of Rostock, Integrating Disturbances into a New Concept of Biodiversity
- 10:20 Peter S. White, University of North Carolina, The Search for Generality in Studies of Disturbance and Ecosystem Dynamics
- 10:40 Teresa Brennan, University of California-Los Angeles, Effect of Non-fire Disturbance Events on Habitat and Species Diversity in Insular and Continental California
- 11:00 Udo Schickhoff, University of Greifswald, Biodiversity Dynamics Along an Anthropogenic Disturbance Gradient in High Altitude Forests of Northern Pakistan
- 11:20 Sybille Haeussler, University of Quebec-Montreal, Disturbance and Diversity in Plant Communities of the Southern Boreal Forest of Canada

### Wed. 1:00 pm - 2:40 pm

3.3.02 **Dendrochronology.** Chair: John Rodgers, University of New Orleans.

- 1:00 Sigrid Rian, University of California Los Angeles, New Dendrochronological Reconstructions of Long-Term Variability in Drought and Precipitation in the Los Angeles Basin
- 1:20 Albert J. Parker, University of Georgia, Climate/Growth Relations Derived From Tree-Rings of Sand Pine in Florida
- 1:40 Malcolm K. Cleaveland, University of Arkansas, Tree-Ring Investigations in Mexico and Applications
- 2:00 Shelly A. Bayback, University of British Columbia, Reconstruction of Past Climate in the Canadian High Arctic Using *Cassipe Tetragona*
- 2:20 John Rodgers, University of New Orleans, The Use of Tree-Ring Chronologies to Determine the Effects of Tropical Cyclones on a Coastal Alabama Bottomland Forest

3.3.22 **Hurricanes I: Climatology and Biogeography** (Sponsored by Climate and Hazards Specialty Groups). Organizer: Kam-biu Liu, Louisiana State University. Chair: Kam-biu Liu, Louisiana State University.

- 1:00 Anthony J. Vega, Clarion University, North Atlantic Tropical Cyclone Intensities and Macro-scale Temperature Variations
- 1:20 James B. Elsner, Florida State University, Dynamic Probability Model for Hurricane Winds
- 1:40 Jay S. Hobgood, Ohio State University, Maximum Potential Intensities of Eastern North Pacific Tropical Cyclones from Reanalysis Data
- 2:00 Darrel L. McDonald, Stephen F. Austin State University, Historical Cultural Biogeography Landscape Impacts of the 1900 Hurricane on Galveston Island, Texas
- 2:20 Houyuan Lu, Louisiana State University, Phytolith Indicators of Hurricane Overwash and Coastal Environmental Changes

- 3.3.36 **Illustrated Paper Session: Applied Biogeography** (Sponsored by Biogeography Specialty Group). Organizer: Kenneth R. Young, University of Texas-Austin. Chair: Kenneth R. Young, University of Texas-Austin.
- 1:00 Eric G. Edlund, University of Montana, Paleoecology to the People: Linking Geographic Field Techniques Training with Online Geography Instruction
- 1:05 Nina Hewitt, DePaul University, Modeling Tree Colonization in Fragmented Forests: A Management Tool for Biodiversity Protection
- 1:10 Joy N. Mast, Northern Arizona University, Dendroecological Study of Black Cottonwood Dynamics Along Regulated and Unregulated Rivers in British Columbia
- 1:15 Joy J. Wolf, University of Wisconsin-Parkside, Exotic Invasion Control: Using Prescribed Fire and Nitrogen Fertilization in the Montane Grasslands of Rocky Mountain National Park
- 1:20 Beth E. Krisko, Miami University, Ecological Heterogeneity in a Complex Environment: Determining Community Resistance to Invasion by *Lonicera Maackii*)
- 1:25 Valery J. Terwilliger, University of Kansas, Information About Carbon Source-sink Relationships During Leaf Development in Panamanian Forests
- 1:30 Andrew Millington, University of Leicester, High-altitude Woodlands in Bolivia: Domestic Energy Demand and Biogeographical Impacts
- 1:35 Michael Batek, University of Wisconsin-Madison, Natural and Anthropogenic Influences on Native Andean Woodland Changes in the Department of Cochabamba, Bolivia
- 1:40 Kenneth R. Young, University of Texas, Landscape Controls on the Composition and Structure of Tropical Montane Forests

### **Wed. 3:00 pm - 4:40 pm**

3.4.37 **Biogeography and Ecology**. Chair: Thomas Gillespie, University of South Florida.

- 3:00 Tony Stallings, Florida State University, A Comparison of Two Diversity Models for Barrier Island Dune Vegetation
- 3:20 Walter Wehtje, University of California-Riverside, Determining the Origin of Brown-Headed Cowbirds to Maximize Trapping Efficiency
- 3:40 Taly D. Drezner, Arizona State University, The Geography of Saguaro Cacti and Their Nurses in Arizona
- 4:00 Thomas Gillespie, University of South Florida, Extinction and Conservation of Forest birds in Nicaragua
- 4:20 Daniel Falvo, Rutgers University, Biochemical Biogeography: An Example from an Upland Ricefield in the Philippines

3.4.38 **Aquatic Biogeography**. Chair: Chris Anderson, Florida Marine Research Institute.

- 3:00 Brian W. Okey, Indiana University of Pennsylvania, Fish Community Composition in Agricultural and Non-Agricultural Stream Sites of Southern Ontario
- 3:20 Lene Griego, Southwest Texas State University, Inter-Basin Water Transfers: Super Highways for Exotic Species
- 3:40 Gerald E. Bove, SUNY-Buffalo, Zooplankton, Migration and Distribution in Western New York's Frozen Lakes
- 4:00 Eric Forward, Western Michigan University, Development of a Habitat Index for Low-Gradient, Coldwater Streams in Southern Michigan
- 4:20 Chris Anderson, Florida Marine Research Institute, Mandates and Cold Water: A Trigger for Migration

### **Wed. 5:00 pm - 6:40 pm**

3.5.21 **Biogeography: Pollen Analysis.** Chair: Kenneth Orvis, University of Tennessee.

- 5:00 Katherine Budzinski, University of Tennessee, A 5000-yr. Pollen and Macroscopic Charcoal Record from the Highlands of the Dominican Republic
- 5:20 Lisa M. Kennedy, University of Tennessee, Modern Pollen Spectra from the Highlands of the Dominican Republic
- 5:40 Caroline P. Davies, University of Memphis, Modern Pollen Precipitation from and Elevational Transect in Central Jordan and Its Relationship to Vegetation
- 6:00 Catherine Yansa, University of Wisconsin-Madison, Early Holocene Vegetation History of the Southern Glacial Lake Agassiz Basin
- 6:20 Kenneth H. Orvis, University of Tennessee, Pollen in a Non-aggrading Tropical Soil: Vertical and Horizontal Variation at Local and Micro-scales

3.5.23 **Pyrogeography: The Geography of Fire** (Sponsored by Remote Sensing, Biogeography, and GIS Specialty Groups). Organizers: Stephen R. Yool, University of Arizona, Michael J. Medler, Rutgers University. Chair: Stephen R. Yool, University of Arizona, Michael Medler, Rutgers University.

- 5:00 Calvin Farris, University of Arizona, A Comparison of Grid-based GIS Modeling Approaches for Predicting Potential Fire Occurrence
- 5:20 Dar A. Roberts, University of California-Santa Barbara, Integrated Assessment of Fire Hazard in Southern California Using Remote Sensing, GIS, and Wind Models
- 5:40 Michael J. Medler, Rutgers University, A Remote Sensing Approach Using Historical Analogue Fires to Model Spatial Patterns of Future Wildfire Severity
- 6:00 John Rogan, San Diego State University, Mapping Fire Severity in Southern California Using Spectral Mixture Analysis Techniques
- 6:20 Stephen R. Yool, University of Arizona, Mapping the Cerro Grande (Los Alamos) Fire

## Thursday, March 1

**8:00 am - 9:40 am**

4.1.03 **Ecosystem Response to Climatic Variability: Past and Present I** (Sponsored by: Biogeography and Climatology Specialty Groups). Organizers: Amy Hessel, University of Washington, Michael Pisaric, Queen's University. Chairs: Amy Hessel, University of Washington, Michael Pisaric, Queen's University.

- 8:00 W. Wyatt Oswald, University of Washington, Climatic and Geomorphic Controls on Holocene Ecosystem Changes in the Arctic Foothills of Alaska
- 8:20 Michael Pisaric, Queen's University, Recent Environmental Change and its Impact on High Elevation Treeline in Northwestern Canada
- 8:40 Amy Hessel, University of Washington, Climatic Variability and Coniferous Forests of the Pacific Northwest
- 9:00 Matthew F. Bekker, The University of Iowa, Trees Helping Trees: Simulation of the effects of Biotic Feedback on Subalpine Forest Advancement

4.1.37 **Topics in Biogeography.** Chair: Recep Efe, Fatih University.

- 8:00 Dianna Gielstra, Texas A&M University, John D. Waldron, Texas A&M University, Dispersal Pattern Analysis of Woody Species in Abandoned Rice Fields, Georgetown County, South Carolina
- 8:20 Jason Kenna Blackburn, Louisiana State University, Biogeography and Coastal

Environmental Changes on Cumberland Island, Georgia, USA

- 8:40 Bonnie C.S. Hung, University of Hong Kong, Human Impact on the Soil Structure and Water Relations in Urban Park Soils in Hong Kong
- 9:00 Denise M.Y. Pang, University of Hong Kong, Soil Compaction in Different Human Modified Habitats in Hong Kong
- 9:20 Recep Efe, Fatih University, Primary Attributes of the Phytogeographic Regions of Turkey

#### **Thur. 10:00 am - 11:40 am**

**4.2.03 Ecosystem Response to Climate Variability: Past and Present II** (Sponsored by: Biogeography and Climatology Specialty Groups). Organizers: Amy Hessler, University of Washington, Michael Pisaric, Queen's University. Chair: Amy Hessler, University of Washington, Michael Pisaric, Queen's University.

- 10:00 Lisa J. Graumlich, Montana State University, Millennial-Length Records of Climate Variability and Its Impacts On the Greater Yellowstone Ecosystem
- 10:20 Amy M. Bloom, University of Utah, Diatoms in Eastern Sierra Nevada Lake Sediments: Indicators of Past Climates and Environmental Change
- 10:40 David Porinchu, University of California Los Angeles, The Use of Chironomidae (Insecta: Diptera) in Paleolimnology , Paleoecology and Paleoclimatology
- 11:00 Daniel B. Fagre, U.S. Geological Survey, Taking the Pulse of Mountains: Ecosystem Responses to Climatic Variability

#### **Thur. 1:00 pm - 2:40 pm**

**4.3.03 Positions in Dendroclimatology and Dendroecology (1)** (Sponsored by: Biogeography Specialty Group). Organizer: Mary Gagen, University of Wales Swansea, Kurt F. Kipfmüller, University of Arizona. Chair: Mary Gagen, University of Wales Swansea, Kurt F. Kipfmüller, University of Arizona

- 1:00 Henri D. Grissino-Mayer, University of Tennessee, The Significance of Dendrochronology Research in Earth Sciences
- 1:20 Mary Gagen, University of Wales Swansea, The Dendrochronological Potential of native South African Cedars with Reference to *Widdringtonia Swartzii*
- 1:40 David Harms Holt, University of Arkansas, Using Historical Perspectives in Drought Reconstructions to Determine Anthropogenic Responses and Evaluate if the Relationship Between Climate Change and Human Migration is Cause-Effect or Simply a Correlation of Events
- 2:00 Matthew W. Salzer, University of Minnesota-Duluth, Reconstructed Temperature and Precipitation on Millennial Timescales From Tree-Rings in the San Francisco Peaks Area of Northern Arizona
- 2:20 Yves Jardon, University of Quebec at Montreal, Spatio-Temporal Analysis of the Last Four Spruce Budworm Outbreaks From Dendrochronological Data, Quebec, Canada

**4.3.36 Illustrated Paper Session: Biogeography.** Chair: Duane A. Griffin.

- 1:00 R. Matthew Beaty, The Pennsylvania State University, Composition and Structural Changes in Sierra Nevada Mixed Conifer Forests Since Fire Suppression
- 1:04 Timothy J. Wenskus and Paul A. Kortebein, City of New York Parks & Recreation, Preliminary Restoration Results for a Mugwort Dominated Fill Site in the Bronx
- 1:08 Emily Prud'homme, Arizona State University, Holocene Changes in the Level of the Dead Sea
- 1:12 Jonathan Price, University of California Davis, The Hawaiian Flora as a Model for Relating Evolutionary Processes with Spatial Patterns of Biodiversity
- 1:16 Patricia Fall, Arizona State University, Dispersal Ecology in the Southern Pacific Islands of

## Tonga

- 1:20 Peter T. Soule, Appalachian State University, Comparative Rates of Western Juniper Afforestation and the Role of Anthropogenic Disturbance
- 1:24 Duane A. Griffin, Bucknell University, Rattlesnake Species Areography and Macroecology
- 1:28 Charles R. Colvard, Jr., Rutgers University, Whither Bambi: A GIS Analysis of Deer Density in New Jersey
- 1:32 Martin R. Arford, University of Tennessee, Tephrostratigraphy at Lago Cote, Costa Rica: Intrabasin and Extrabasin Comparisons

### 4.4.03 **Positions in Dendroclimatology and Dendroecology (2)** (Sponsored by: Biogeography Specialty Group)

Organizer: Mary Gagen, University of Wales Swansea, Kurt F. Kipfmüller, University of Arizona.

Chair: Henri Grissino-Mayer, University of Tennessee, James H. Speer, University of Tennessee

- 3:00 James H. Speer, University of Tennessee, Reconstructing Southern Appalachian Oak-Mast History Using Dendrochronology
- 3:20 Neil Pederson, Columbia University, Dendrochronological Investigations of Boreal and Temperate Tree Species in the Hudson Valley, NY
- 3:40 Franco Biondi, University of Nevada Reno, Rebecca Van Lieshout, University of Nevada Reno, Tropical Treeline Dendrochronology of North America: A Progress Report
- 4:00 David M. Lawrence, University of Virginia, Tree Rings, Ecological Theory and the Distribution of Engelmann Spruce
- 4:20 Matthew Wooller, Carnegie Institute of Washington D.C., The Recent, Human-influenced Environment of Western
- Australia: Evidence From An Exploratory Survey of  $\delta^{13}C$  Trends in Acacia Wood

## **Thur. 5:00 pm - 6:40 pm**

### 4.5.03 **Panel Discussion: New Directions in Biogeography: Theory and Methodology**

(Sponsored by: Biogeography Specialty Group) Organizers: Keith Hadley, Portland State University, Duane A. Griffin, Bucknell University. Chairs: Duane A. Griffin, Bucknell University, Glen MacDonald, University of California Los Angeles. Panelists: Ken Young, University of Texas Austin, George Malanson, Southwest Texas State University, Kathy Parker, University of Georgia, Glen MacDonald, University of California Los Angeles, Duane A. Griffin, Bucknell University.

## **Friday, March 2**

### **8:00 am - 9:40 am**

5.1.09 **Historical Ecology--Methods and Applications** (Sponsored by Biogeography and Cultural Ecology Specialty Groups) Organizer: Steven P. Norman, Pennsylvania State University. Chair: Steven P. Norman, Pennsylvania State University

- 8:00 Jeane Kay Guelke, University of Waterloo, Traps and Treasures: Methodological Issues in Using Eye-Witness Narratives for Historical Ecological Reconstructions
- 8:20 Mark Blumler, SUNY-Binghamton, Invading California
- 8:40 Steven P. Norman, Pennsylvania State University, The Influence of Land Use History on Forest Spatial Structure Along a Topographic Gradient
- 9:00 Sara A. O. Cousins, Stockholm University, Plant Species, Diversity, and the Relationship to

#### Land Use History and Physical Conditions

- 9:20 Michelle F. Goman, Rutgers University, Historical Changes in Vegetation and Water Quality in the Everglades as Determined by Paleoecological Analysis

#### **Fri. 10:00 am - 11:40 am**

5.2.03 **Biogeography and Conservation** (Sponsored by Biogeography Specialty Group) Organizer: Kimberly E. Medley, Miami University. Chair: Kimberly E. Medley Miami University

- 10:00 Stacy M. Jorgensen, University of Georgia, Geographic Genetic Diversity and Conservation
- 10:20 Deanna H. McCay, Colgate University, Changes in Tree Canopy Cover in Alvars in Northern New York
- 10:40 Philip L. Keating, University of Miami, The Biogeography and Conservation of Ecuador's Upper Montane Ecosystems: Recent Trends and Advances
- 11:00 Joan M. Welch, West Chester University, Landscape Homogenization and Habitat Conservation in Cataluna
- 11:20 Kimberly E. Medley, Miami University, Site and Setting in Land Patterns for Protection, Southwestern Ohio

5.2.32 **Changing Landscapes and Landscapes of Change: Conservation and Development Implications of the Anthropogenic Amazon** (Sponsored by Cultural Ecology and Latin American Specialty Groups). Organizer: Antoinette WinklerPrins, Michigan State University. Chair: Antoinette WinklerPrins, Michigan State University

- 10:00 Lisa Naughton, University of Wisconsin-Madison, Garden Hunting in Madre-de-Dios, Peru: A Study of Wildlife in Amazonian Agroforest Ecosystems
- 10:15 Oliver T. Coomes, McGill University, Agricultural Planting Stock Exchange Among Traditional Amazonian Farmers: 'Source-Sink' Dynamics in Northeastern Peru
- 10:30 Cynthia S. Simmons, Michigan State University, Anthropogenic Fires in Amazonia: The Role of Community and Farming System of Choice
- 10:45 Joseph M. McCann, The New School University, "Extinct" Cultures and Persistent Landscapes of Lower Tapajos Region, Brazilian Amazonia
- 11:00 Rui S.S. Murrieta, Museu Goedli, "I Love Flowers!" Aesthetic, Agricultural Experimentation and Symbolic Capital in Women's Household Gardens in the Amazonian Floodplains, Brazil
- 11:15 Antoinette WinklerPrins, Michigan State University, Landscape Change in the Amazon Basin: Fluvial Anthropogenesis and Its Implications for Conservation

#### **Fri. 3:00 pm - 4:40 pm**

5.4.27 **Mountains II: Interactions of Earth, Atmosphere, and Biota** (Sponsored by Mountain Geography, Biogeography, Climate, and Geomorphology Specialty Groups) Organizer: Donald A. Friend, Minnesota State University-Mankato. Chair: David Butler, Southwest Texas State University

- 3:00 Mark Welford, Georgia State University, Landslides, Earthquakes, and Tropical Montane Trees - a Possible Connection
- 3:15 David R. Butler, Southwest Texas State University, Exposed Solifluction Risers at Alpine Treeline and Possible Effects on Tree Advance
- 3:30 George P. Malanson, Southwest Texas State University, Variability of Soil Depth in Alpine Tundra and Possible Effects on Tree Advance
- 3:45 Carmen de Jong, Free University of Berlin, Dynamics of Evaporation and Transpiration in the High Alpine Tundra - an Example from the Dischma Valley, Switzerland

- 4:00 Ian McKendry, University of British Columbia, Interception of Trans-Pacific Air Pollution by the Western Cordillera: A Modeled Example
- 4:15 Alton Byers, The Mountain Institute, Historical and Contemporary Landscape Change in the Sagarmatha (Mt. Everest) National Park, Khumbu, Nepal

**Fri. 7:00 pm - 8:00 pm**

### **5.6.12 Biogeography Specialty Group Business Meeting**

**(followed by an informal social hour!)**

## **Saturday, March 3**

**8:00 am - 9:40 am**

### **6.1.13 Biogeography: The Role of Disturbance.** Chair: Ross Meentemeyer, Sonoma State University.

- 8:00 Alan Taylor, The Pennsylvania State University, Patterns of Tree and Bamboo Regeneration Eleven Years After a Bamboo Die-Off in a Chinese Subalpine Forest, Wolong Natural Reserve, China
- 8:20 Joseph Donnegan, USDA Forest Service, Variability in Fire Regimes Through Time Along the Colorado Front Range
- 8:40 Roger W. Brown, University of Tennessee, Paleoecological Evidence For Intermediate Landscape Disturbance By Pre-Contact Iroquoian Populations In Northern New York State
- 9:00 Aaron Moody, University of North Carolina, Soil Response to Canopy Position, Feral Pig Disturbance, and Climate Variability Beneath Quercus Agrifolia on Santa Cruz Island, California
- 9:20 Ross Meentemeyer, Sonoma State University, The Roles of Drought Severity & Plant Life Histories in Structuring Demographic Patterns in Chaparral

### **6.1.19 Topics in Biogeography and Climatology.** Chair: Recep Efe, Fatih University.

- 8:00 Kevin J. Anchukaitis, University of Tennessee, A 2000-Year History of Anthropogenic Forest Disturbance in Southwestern Costa Rica
- 8:15 J. Christopher Brown, University of California Los Angeles, The Effect of Deforestation on Bees of the Genus Melipona in Central Rondonia, Brazil
- 8:30 Recep Efe, Fatih University, Primary Attributes of the Phytogeographic Regions of Turkey
- 8:45 Arthur Samel, Bowling Green State University, China Rainfall Interannual Variations: Dependence on the Annual Cycle and Surface Anomalies
- 9:00 Matthew Menne, National Climatic Data Center, A New U.S. Climate Atlas
- 9:15 Matthew Menne, National Climatic Data Center, The Climate Database Modernization Program at the National Climatic Data Center

**6.1.40 GIS for Environmental Modeling I** (Sponsored by: GIS, Spatial Analysis of Modeling, Biogeography, and Water Resources Specialty Groups). Organizer: Ling Biam, University at Buffalo. Chair: David Mark, University of Buffalo.



- 8:00 David Mark, University of Buffalo, Do Mountains Exist? Ontology of Landforms and Topography
- 8:20 Barry Kronenfeld, SUNY-Buffalo, Visualizing Fuzzy Vegetation Regions in the Eastern U.S.: A Prototype GUI
- 8:40 Jeremy L. Mennis, The Pennsylvania State University, Prototype Implementation of a Semantic GIS Database Model
- 9:00 Jeffrey C. Brunskill, University of Buffalo, Subject Perception of Meteorological Map Representations: Presence of a North-South Temperature Gradient

Discussant: Helen Conclelis, University of California Santa Barbara

### **Sat 10:00 am - 11:20 am**

**6.2.40 GIS For Environmental Modeling II** (Sponsored by: GIS, Spatial Analysis and Modeling, Biogeography, and Water Resources Specialty Groups). Organizer: Ling Bian, SUNY-Buffalo. Chair: Scott J. Crosier, University of California at Santa Barbara

- 10:00 Helen Couclelis, University of California Santa Barbara, Dynamics and Uncertainty in Integrated Urban-Environmental Models
- 10:20 Scott J. Crosier, University of California at Santa Barbara, Developing an Infrastructure for Sharing Environmental Models
- 10:40 Chen-Chieh Feng, SUNY-Buffalo, Designing a Specification for Semantic Interoperability Between GIS and Hydrologic Model
- 11:00 Alexandre Sorokine, SUNY-Buffalo, Spatial Data Representations in Environmental Models in The Context of GIS Interoperability
- Discussant: Mark Gahegan, The Pennsylvania State University

**6.2.20 Regional Planning and the Endangered Species Act** Organizer: James E. Sullivan, University of California Riverside, Thomas A. Scott, University of California Riverside, Andrew E.G. Jonas, University of Hull. Chair: Walter Wehjte, University of California Riverside

- 10:00 James E. Sullivan, University of California Riverside, Regional Planning and the Endangered Species Act
- 10:20 Laura H. Watchman, Defenders of Wildlife, Trends and Issues for Regional Habitat Conservation Plans Under the Endangered Species Act
- 10:40 Thomas A. Scott, University of California Riverside, The Use of Biological Science in Habitat Conservation Plans: Conservation Biology Meets Land-Use Planning
- 11:00 William W. Shaw, University of Arizona, Sonoran Desert Plan: Science, Economics and Politics of a Comprehensive Land-Use Plan
- 11:20 Hartmut S. Walter, University of California Los Angeles, Conservation Planning Today: A Biogeographic Straitjacket for Long-Term Biodiversity Persistence?

### **Sat. 2:00 pm - 3:40 pm**

**6.3.23 Biogeography: Pollen and Climate.** Chair: Bruce Gervais, University of California Los Angeles.

- 2:00 Caiming Shen, Louisiana State University, A 14,000-Year Pollen Record of Southwest Indian Monsoon Oscillations From the Tibetan Plateau
- 2:20 Carl A. Reese, Louisiana State University, Seasonal Analysis of Ice-Core Pollen Records from the Sajama Ice Cap, Bolivia

- 2:40 Sally P. Horn, University of Tennessee, Pleistocene Pollen and Macrofossils from Lowland Costa Rica and Ecuador
- 3:00 Scott Mensing, University of Nevada Reno, Holocene Vegetation and Climate Reconstruction From Fossil Pollen in the Tahoe and Pyramid Lake Watershed, California/Nevada
- 3:20 Bruce Gervais, University of California Los Angeles, Postglacial Pine Treeline Movement in Northeastern Fennoscandia: Pollen and Stomate Evidence

**6.3.40 GIS For Environmental Modeling III** (Sponsored by: GIS, Spatial Analysis and Modeling, Biogeography, and Water Resources Specialty Groups) Organizer: Ling Bian, SUNY-Buffalo. Chair: Charles W. Emerson, Western Michigan University

- 2:00 Charles W. Emerson, Western Michigan University, Fractal Simulation of Volatile Organic Compound Emissions From Landfills
- 2:20 Min Ouyang, University of Nebraska Lincoln, Modeling GIS Time Series Data with Piecewise Linear Function
- 2:40 Martin J. Bunch, McMaster University, A GIS Based DSS for Environmental Management: Linking Conceptual and Simulation Models of the Cooum River
- 3:00 Lin Wu, California State Polytechnic University Pomona, Bridging Theories and Technology: Lesson Learned in Teaching Environmental Modeling With GIS
- 3:20 David E. Tenenbaum, University of North Carolina Chapel Hill, ArcTrCS-ArcView Transect Characterization System

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## Internet Resources

Dwight Brown (Univ. of Minnesota) has put together a web site full of information on grasslands, especially those of the midcontinent plains accessible at <http://cla.umn.edu/grasslands>. Among the topics he lists as keywords are: biome models, photosynthetic types, grassland region maps, climate change, opal phytoliths, and grass seedling roots.

I came across two other internet resources specific to biogeography came last month. The first is the GIS in Biogeography list at [http://biogeo\\_gis.listbot.com/](http://biogeo_gis.listbot.com/) I couldn't find any information about this list, other than the fact that it exists and hardly anybody uses it. The other is **Biogeography.com** (<http://www.biogeography.com/>), one of three sites maintained by an ambitious group of geography students from the University of Victoria. It's a little uneven, unfinished, and dated, but perhaps with a little encouragement it will develop and even be around for awhile?

Another site of note is **Resources For Earth Science And Geography Instruction** (<http://www.cmich.edu/~franc1m/homepage.htm>), an extensive source of links created by Mark Francek ([Mark.Francek@cmich.edu](mailto:Mark.Francek@cmich.edu)) at Central Michigan University. Write to Professor Francek and ask to be added to his "Earth Science Site of the Week" listserv and you'll get a "weekly e-mail featuring reviews of some of the best sites in earth science, environmental science, and geography"

Most of the rest of the links have been culled from the archives of The Internet Scout Project (<http://scout.cs.wisc.edu/index.html>), which I described in the last issue of *The Biogeographer*.

*The (unintentional) theme for this issue seems to be "up north, up high, and down below."*

## **Aquatic Ecology**

<http://www.nysfola.org/alinks/>

Links from the New York State Federation of Lake Associations (NYSFLA).

## **Boreal Ecology**

<http://www.biology.ualberta.ca/courses.hp/bio366/>

A course web site from the University of Alberta.

## **NORTHWOODS Wildlife Habitat Database**

<http://www.ncrs.fs.fed.us/northwoods/index.html>

"information about the habitat needs of 389 species of reptiles, amphibians, birds, and mammals in the Upper Great Lakes Region." (tab-delimited ASCII file format)

## **Annotated Bibliography of Fire Literature Relative to Northern Grasslands in South-Central Canada and North-Central United States**

<http://www.npwrc.usgs.gov/resource/2000/firebib/firebib.htm>

Originally published in 1989 as a US Fish and Wildlife Service bibliography on fire literature.

## **Beetles of Canada and Alaska**

[http://res.agr.ca/brd/beetles/english/html/bhome\\_e.html](http://res.agr.ca/brd/beetles/english/html/bhome_e.html)

Current nomenclature and distribution maps of "all the beetles known to occur in Canada and Alaska."

## **Tundra-Cam [Java]**

<http://tundracam.colorado.edu/>

University of Colorado's Institute of Arctic and Alpine Research (INSTAAR) makes it possible to visit the Front Range at 11,600 ft. from the comfort of your desk. You can pan and zoom the camera as you please, as well adjust the picture size, quality, and brightness. Great fun; probably has some educational value as well.

## **The Ancient Bristlecone Pine**

<http://www.sonic.net/bristlecone/home.html>

This is a great site. Here's what the Scout Report had to say about it: "Written by tree enthusiast Leonard Miller with additional input from expert dendrochronologists (including Dr. Henri Grissino-Mayer), this interesting and beautifully illustrated Website gives the reader insights about the oldest tree on earth: the Ancient Bristlecone Pine. The resource provides background information on the discovery of these ancient trees, the geographic setting of the westernmost trees in the US, growth (and other) characteristics

of Bristlecone Pines, dendrochronology...and a select bibliography on Bristlecone Pines, among other topics. An internal search feature (keyword) streamlines the information mining process. [LXP]"

### **Geomatics Canada**

<http://www.geocan.nrcan.gc.ca/>

"...a reliable system of surveys, maps, remotely sensed data and geographically referenced information describing the Canadian landmass."

### **Canada National Soil DataBase**

[http://res.agr.ca/CANSIS/NSDB/\\_overview.html](http://res.agr.ca/CANSIS/NSDB/_overview.html)

Data files (ARC/INFO Export format) for soil, landscape, ecological and climatic variables for all of Canada

### **A Compendium of On-Line Soil Survey Information**

[http://www.itc.nl/~rossiter/research/rsrch\\_ss.html](http://www.itc.nl/~rossiter/research/rsrch_ss.html)

Lists research institutions, databases, journals, and classification schemes and models dealing with soil science. Impressive international scope. While we're at it, the USDA's latest *Soil Taxonomy* is available online at <http://www.statlab.iastate.edu/soils/soiltax/>

### ***Some other stuff:***

#### **The Carbon Cycle Science Program [.pdf]**

<http://www.carboncyclescience.gov/>

The US Global Change Research Program (USGCRP) provides this to supply "critical unbiased scientific information on the fate of carbon dioxide in the environment to contribute to the ongoing public dialogue."

#### **Atmospheric Disturbance Climatology--USFS**

<http://climate.usfs.msu.edu/Climatology/>

"multiple series of spectacular color figures depicting geographic distributions of the major abiotic factors influencing biota in the north central and northeastern US."

#### **Cliff Ecology Research Group**

<http://www.uoguelph.ca/botany/cecg/index.html>

Fascinating research program from the University of Guelph. An great example of Zimmerman and Thom's "physiographic plant geography," and they probably don't even realize it.

#### **Mojave Desert Ecosystem Project**

<http://www.mojavedata.gov/>

The Department of Defense's "first attempt to meld together a shared scientific database that can be used to affect dynamic sustainable land management decisions." Information about and/or access to Geospatial Data, Metadata, Geomorphic Landform Data, a Spatial Bibliography, etc.

### **Access USGS: San Francisco Bay and Delta**

<http://sfbay.wr.usgs.gov/>

### **Ordination Methods for Ecologists**

<http://www.okstate.edu/artsci/botany/ordinate/>

Created and maintained by Mike Palmer, at Oklahoma State University. A great resource for ordination methods, software, etc.

### **Palynology**

<http://www.geo.arizona.edu/palynology/>

A nice compendium of pollen-related information and links maintained by Owen Davis of the University of Arizona Department of Geosciences.

### **World Data Center-A for Paleoclimatology**

<http://www.ngdc.noaa.gov/paleo/pollen.html>

If you haven't visited the WDC-A pollen site lately, take a look. Using the pollen search engine, you can now search for pollen data by site, area, or investigator. Once you've identified a site, you can download the data or produce a pollen diagram for the site. Unfortunately, the diagrams are drawn in a java applet window that doesn't allow printing, so you have to perform a screen capture if you want hardcopies.

### **The Museum of Natural History (London) Historical Collections**

<http://www.nhm.ac.uk/botany/historical/index.html>

A fascinating database of historically significant plant collections that make up part of the Museum's holdings. Collections include those of Sir Joseph Banks and John Clayton, among others, and include many important type specimens.

### **Discussion List: Migration**

<http://www.eelink.net/~asilwildlife/discussion.html>

From the Zoological Research Institute and Museum Alexander Koenig (ZFMK) and the American Society of International Law/ Wildlife Interest Group.

### **The Global Biosphere (September 1997-August 2000)**

[http://seawifs.gsfc.nasa.gov/SEAWIFS/IMAGES/SEAWIFS\\_GALLERY.html](http://seawifs.gsfc.nasa.gov/SEAWIFS/IMAGES/SEAWIFS_GALLERY.html)

NASA's SeaWiFS map of global chlorophyll density derived from satellite imaging. It's big (a 4096x2048 pixel jpg file, 1.2Mb) and spectacular.

*And finally, a group of sites on threatened and endangered species and species invasions.*

### **The Problem of Species Extinction**

<http://www.worldbook.com/fun/wbla/earth/html/ed03.htm>

An educational resource from World Book, Inc. with text by Peter Raven, Thomas Lovejoy, Norman Myers, Stuart Pimm, and others.

### **2000 IUCN Red List of Threatened Species**

<http://www.iucn.org/redlist/2000/index.html>

### **Weeds Gone Wild: Alien Plant Invaders of Natural Areas**

<http://www.nps.gov/plants/alien/>

### **Invasivespecies.gov: The Nation's Invasive Species Information System**

<http://192.54.138.66/index.shtml>

"a comprehensive, online information system that facilitates access to and exchange of invasive species data and resources by researchers, scientists, land and resource managers, public and private sector agencies, and concerned citizens."

### **Global Invasive Species Program**

<http://jasper.stanford.edu/GISP/north.htm>

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## Editor's Note

Thanks to all of you who sent comments on the last edition of the newsletter. The experiment in electronic publishing continues, so please send any suggestions and any material you'd like to see published. I'm especially curious whether or not more than a handful of people are reading this, and whether you think we should move back to a hardcopy format.

There's still a surprising lack of overlap between the Biogeography Specialty Group membership list and the BSG Listserver. At the moment, the mailing list for the newsletter is an amalgam of both lists, though I don't know how long I'll be able to maintain it as such. If you're a member of the BSG, please sign up for the BSG listserver. It will only add a couple of e-mails a month to your mailbox. Likewise, if you're on the BSG listserver, but not a member of the BSG, Please sign up! We need you!

The next issue of *The Biogeographer* will include the **Recent Member Publications** section, so please send references you'd like included.

Send your comments, suggestions, and material for inclusion for the next newsletter to

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