

## 2008 DISCCRS IV Symposium

### Participant Directory

### PhD Citaton, Interests

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**Bancroft, Betsy A**

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USA

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Bio/Ecol  
ecol



**Bancroft, Betsy A.** 2007. Ultraviolet-B radiation as an environmental stressor of amphibians.  
Oregon State University (USA)

*I am interested in the effects of stressors in natural and human-dominated ecosystems. Organisms within these ecosystems frequently encounter several different stressors over days, months, or a lifetime. My work centers on understanding how these stressors may interact and the resulting effects of these stressors on population dynamics.*

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**Bergin, Michelle S**

Air Protection Branch  
Georgia Environmental Protection Division  
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USA

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Web:

E-m: [michelle.bergin@dnr.state.ga.us](mailto:michelle.bergin@dnr.state.ga.us)

Atmos  
eng



**Bergin, Michelle S.** 2006. Regional air quality: Photochemical modeling for policy development and regulatory support.  
Georgia Institute of Technology (USA)

*I apply science and engineering tools in control strategy analysis to develop and implement effective approaches to reduce anthropogenic impacts on the atmosphere. My past research includes the use of computational models with uncertainty and sensitivity analysis to reduce ozone and aerosol pollution and to guide transboundary atmospheric policy development.*

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**Bert, Federico E**

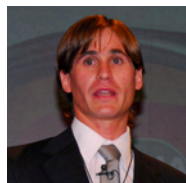
Agronomy  
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Soc  
ecol



**Bert, Federico E.** 2007. An assessment of opportunities and impediments for the use of climate information in agricultural systems of the pampas.  
University of Buenos Aires (Argentina)

*I am interested in the implications of interactions between uncertain future climate trajectories, awaited technological developments and individual decision-making in agricultural systems: emerging patterns of land use, land tenure and sustainability of product. Interdisciplinary research as a way to cope with complex problems of complex systems.*

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**Block, Paul J**

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Ear/Hydro/Paleo  
eng



**Block, Paul J.** 2006. Integrated management of the Blue Nile basin in Ethiopia: Precipitation forecast, hydropower, and irrigation modeling.  
University of Colorado at Boulder (USA)

*My primary research interests lie at the nexus of climate and hydrology/water systems, addressed through a climate risk-management framework. Additionally, filling the void between recognition and incorporation of climate change issues by translating information into a serviceable format for non-climate scientists is also of interest.*

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**BurnSilver, Shauna B**

School of Natural Resources & Agricultural Sciences, Institute of Arctic Biology  
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USA

Tel: 907-474-1501

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Soc  
anthro



**BurnSilver, Shauna B.** 2007. Pathways of continuity and change: Diversification, intensification and mobility in Maasailand, Kenya.  
Colorado State University (USA)

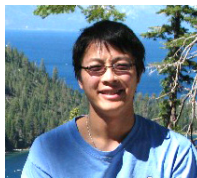
*My PhD work on land tenure and pastoral livelihoods in East African rangelands led to research with the goal of quantifying the effects of climatic and economic drivers on sharing networks (i.e. social capital mechanisms) and livelihoods in Arctic communities. The link is an interdisciplinary focus on human ecological responses to drivers of change.*

**Participant Directory**

**PhD Citaton, Interests**

**Chen, Yihsu**  
 Sierra Nevada Research Inst., Sch. of  
 Social Sci., Humanities & Arts and Sch. of  
 Environ.  
 University of California at Merced  
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Soc  
econ



**Chen, Yihsu.** 2006. Analyzing interaction of electricity markets and environmental policies using equilibrium models. Johns Hopkins University (USA)

*I'm interested in studying the economic, environmental and public health implications of air pollution policies. My recent work involves examining pollution leakage, emissions spillover, and contract shuffling under AB32 and RGGI emission trading policies as well as implications of recharging PHEVs on electricity prices and regional air pollution.*

**Gutierrez, Maria**  
 IISD Reporting Services – United Nations  
 Office  
 International Institute for Sustainable Development  
 300 East 56th St. Apt. 11A  
 New York, NY 10022  
 USA  
 Tel: 212-995-0107  
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Soc  
anthro



**Gutierrez, Maria.** 2007. All that is air turns solid: The creation of a market for sinks under the Kyoto Protocol on climate change. City University of New York (USA)

*I am interested in the production of nature - in particular how land and trees are conceptualized and commoditized to enter the climate change regime and the implications of such process on the ground. I am also interested in the application of an eco-system approach to adaptation.*

**Hastings, Meredith G**  
 Department of Geological Sciences  
 Brown University  
 324 Brook Street, Box 1846  
 Providence, RI 02906  
 USA  
 Tel: 401-863-3658  
 Web: <http://www.geo.brown.edu/Faculty/MGH.htm>  
 E-m: [Meredith\\_Hastings@brown.edu](mailto:Meredith_Hastings@brown.edu)

Atmos  
biogeochem



**Hastings, Meredith G.** 2004. Studies of reactive nitrogen in the atmosphere using global modeling and stable isotope measurements. Princeton University (USA)

*My research aims to elucidate connections between air quality, climate and changes in the biosphere. My tools include isotopic measurements and global modeling, currently centered on the impacts, sources and chemistry of nitric acid deposition. My research involves expertise in atmospheric sciences and biogeochemistry.*

**Hurteau, Matthew D**  
 National Institute for Climatic Change  
 Research, Western Region  
 Northern Arizona University  
 Box 6077  
 Flagstaff, AZ 86011  
 USA  
 Tel: 928-523-0497  
 Web: <http://oak.ucc.nau.edu/mdh22/>  
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Bio/Ecol  
ecol



**Hurteau, Matthew D.** 2007. The effects of climate change and nitrogen deposition on the Sierran mixed-conifer understory plant community. University of California at Davis (USA)

*My research focus is on the impacts of climate change on fire prone forested systems. I utilize field and modeling studies to identify diversity, productivity, and carbon cycle responses to changing climatic conditions and fire regimes.*

**Hutyra, Lucy R**  
 Department of Urban Design and Planning  
 University of Washington  
 3949 15th Ave. NE  
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 Seattle, WA 98105  
 USA  
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Ear/Hydro/Paleo  
ecol



**Hutyra, Lucy R.** 2007. Carbon and water exchange in Amazonian rainforests. Harvard University (USA)

*My dissertation research looked at carbon and water exchange dynamics in the Amazonian rainforest. My current research interests focuses on the other end of the development spectrum looking at urban carbon dynamics and patterns of land cover change.*

## 2008 DISCCRS IV Symposium

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### PhD Citaton, Interests

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**Jessup, Christine M**

Division of Epidemiology and Population Studies  
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Bio/Ecol  
ecol



**Jessup, Christine M.** 2006. Asking big questions of small worlds: The ecology and evolution of microbial host-parasitoid interactions.  
Stanford University (USA)

*I am interested in effects of environment on microbial interactions. I currently combine evolutionary ecology, mathematical modeling and epidemiology to investigate the effects of environment on microbial diseases. I am also engaged in policy-related work that aims to advance the research agenda associated with the health impacts of climate change.*

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**Kardol, Paul**

Environmental Sciences Division  
Oak Ridge National Laboratory  
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Web: <http://www.nioo.knaw.nl/PPAGES/pkardol/#sp>

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Bio/Ecol  
ecol



**Kardol, Paul.** 2007. Plant and soil community assembly in secondary succession on ex-arable land: Fundamental and applied approaches.  
Wageningen University / Netherlands Institute of Ecology (NIOO-KNAW) (Netherlands)

*My research focuses on 1) the role of soil organisms, particularly micro-organisms and nematodes, in spatio-temporal plant community dynamics and ecosystem functioning, and 2) the effect of environmental and climatic changes, such as elevated levels of atmospheric CO<sub>2</sub>, warming, and altered patterns of precipitation, on biotic and abiotic plant-soil feedbacks.*

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**Landerer, Felix W**

NASA Jet Propulsion Laboratory  
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USA

Tel: 818-354-2242

Web: [www.mpimet.mpg.de/~landerer.felix](http://www.mpimet.mpg.de/~landerer.felix)

E-m: Felix.W.Landerer@jpl.nasa.gov

Ear/Hydro/Paleo  
geophys



**Landerer, Felix W.** 2007. Sea level and hydrological mass redistribution in the Earth system: Variability and anthropogenic change.  
University of Hamburg (Germany)

*My research centers around sea level change, its variability on short and longer time scales, its physical mechanisms, its relation to ocean circulation changes as well as its impact on Earth rotational parameters. As a tool, I have been using coupled atmosphere-ocean general circulation models extensively.*

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**Littell, Jeremy S**

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Bio/Ecol  
ecol



**Littell, Jeremy S.** 2006. Climate impacts to forest ecosystem processes: Douglas-fir growth in northwestern U.S. mountain landscapes and area burned by wildfire in Western U.S. ecoprovinces.  
University of Washington (USA)

*I study the impacts of climate change and variability on forest and mountain ecosystems. Specifically, I am interested in the biophysical mechanisms relating climate to ecohydrology, wildfire, tree establishment (especially at upper treeline), plant growth, and biogeography. I am also interested in paleoecology, ecological complexity, and theoretical ecology.*

## 2008 DISCCRS IV Symposium

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### PhD Citaton, Interests

**Lucas, Lisanne (Sandy) E** Ear/Hydro/Paleo  
Climate Program Office phys  
NOAA - National Oceanic and Atmospheric  
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**Lucas, Lisanne (Sandy) E.** 2007. Mechanisms governing sea surface temperature anomalies in the eastern tropical Pacific Ocean associated with atmospheric intraseasonal variability. Stony Brook University (USA)

*My current interest is climate science, policy and the public including the transformation of climate research to relevant information for use by society to better plan, prepare and respond. My dissertation deals with atmosphere-ocean interaction, short-term climate variability (Madden-Julian Oscillation), and how it might influence the initiation of El Niño.*

**Maraseni, Tek N** Soc  
Australian Centre for Sustainable econ  
Catchment-Condamine Alliance  
University of Southern Queensland  
Toowoomba  
Queensland 4350  
Australia

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E-m: [maraseni@usq.edu.au](mailto:maraseni@usq.edu.au)



**Maraseni, Tek N.** 2007. Re-evaluating land use choices to incorporate carbon values: A case study in the South Burnett region of Queensland, Australia. University of Southern Queensland (Australia)

*My interests are assessing soil carbon benefits with respect to: (1) soil health; (2) water holding capacity and plant available water capacity; (3) soil erosion control; (4) soil workability (cultivation cost); and (5) productivity, individually, and collectively to the gross margin. Other interests are assessing and recommending better land use system by incorporating greenhouse gases and traditional benefits with respect to changing climate.*

**Marin-Spiotta, Erika** Ear/Hydro/Paleo  
Geography ecol  
University of California at Santa Barbara  
1832 Ellison Hall  
Santa Barbara, CA 93106-4060  
USA

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E-m: [ems@geog.ucsb.edu](mailto:ems@geog.ucsb.edu)



**Marin-Spiotta, Erika.** 2006. Controls on above and belowground carbon storage during tropical reforestation. University of California at Berkeley (USA)

*I am interested in how changes in climate, land-use, and land-cover alter the timing and magnitude of carbon and nutrient fluxes between soils, the biosphere, atmosphere, and hydrosphere. My research also addresses legacies of human disturbance on ecosystem structure and function, through changes in species composition and biogeochemical cycling.*

**McKinley, Duncan C** Bio/Ecol  
Smithsonian Environmental Reseach bio  
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Smithsonian Institution  
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**McKinley, Duncan C.** 2006. Consequences of conversion of native mesic grassland to coniferous forest on soil processes and ecosystem C and N storage. Kansas State University (USA)

*I am interested in linkages between nutrient cycling and plant productivity in response to various forms of global environmental change. I currently study the long-term effects of elevated atmospheric CO<sub>2</sub> on soil carbon and nitrogen cycling, with a focus on nutrient constraints on whole ecosystem responses to elevated CO<sub>2</sub>.*

Participant Directory

PhD Citaton, Interests

Medina-Elizalde, Martin A  
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611 North Pleasant St.  
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Amherst, MA 01003  
USA

Ear/Hydro/Paleo  
geophys



Medina-Elizalde, Martin A. 2007. The thermal evolution of the western equatorial Pacific warm pool during the Pleistocene and late Pliocene epochs. University of California at Santa Barbara (USA)

*I am interested in the fields of Paleoclimatology and Paleoceanography. I utilize geochemical tools (proxies) on various archives (e.g. stalagmites and ocean sediments) to reconstruct past climates. The goal of my research is to understand how different factors (e.g. greenhouse gases) have driven climate variability on various time scales.*

Tel: 413-658-8105  
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E-m: mmedina@geo.umass.edu

Melamed, Megan L  
Centro de Ciencias de la Atmosfera  
Universidad Nacional Autónoma de México  
Circuito Exterior s/n, Ciudad Universitaria  
Mexico, DF 04510  
Mexico

Atmos  
chem



Melamed, Megan L. 2006. Aircraft based ultraviolet spectroscopy measurements of sulfur dioxide emissions from point sources. University of Colorado at Boulder (USA)

*Currently I research emission sources and transport of air pollution in the Mexico City Metropolitan Area. In the future, I hope to work within an interdisciplinary group researching and implementing effective air pollution and climate change mitigation protocols in Latin America.*

Tel: 303-242-5436 (US)  
Web:  
E-m: Megan.Melamed@gmail.com

Michaud, Kristy E. H  
Political Science  
California State University at Northridge  
18111 Nordhoff Street  
Northridge, CA 91330-8254  
USA

Soc  
pol



Michaud, Kristy E. H. 2007. Climate change beliefs and energy policy preferences among Californians: The role of trust. University of California at Santa Barbara (USA)

*My research focuses on the politics and policy of climate change and energy. Specifically, I study public opinion on climate change and the way that values and trust influence the public's understanding of and beliefs about climate change. I also examine public support for climate change and energy policies.*

Tel: 818-677-4773  
Web: <http://www.csun.edu/~kmichaud/>  
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Mignone, Bryan K  
Energy Security Initiative  
Brookings Institution  
1775 Massachusetts Avenue NW  
Washington, DC 20036  
USA

Soc  
biogeochem



Mignone, Bryan K. 2006. Scientific and political economic constraints on the solution to the global warming problem. Princeton University (USA)

*As a former staffer on the Senate Energy Committee and as current Research Director for the Brookings Energy Security Initiative, I am interested in translating knowledge about the energy and climate system into policy-relevant conclusions. My own research currently focuses on the design of domestic regulatory responses to the climate problem.*

Tel: 609-240-6287  
Web: <http://www.brookings.edu/experts/m/mignoneb.aspx>  
E-m: bmignone@brookings.edu

Misarti, Nicole  
Center for Archaeological Materials and Applied Science  
Idaho State University  
PO Box 85096  
Fairbanks, AK 99708  
USA

Ear/Hydro/Paleo  
ecol



Misarti, Nicole. 2007. Six thousand years of change in the Northeast Pacific: An interdisciplinary view of maritime ecosystems. University of Alaska at Fairbanks (USA)

*Research Interests: How disciplines such as marine science, limnology and archaeology can tell us how the North Pacific marine ecosystem and climate changed over the Holocene and how that affected humans and how humans affected climate and ecosystem change throughout the same time period.*

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## 2008 DISCCRS IV Symposium

### Participant Directory

### PhD Citaton, Interests

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**Olabisi, Laura Schmitt**

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Bio/Ecol  
ecol



**Olabisi, Laura Schmitt.** 2006. Soil erosion, poverty and sustainability: A biophysical model of a rural Philippine economy.  
State University of New York (USA)

*My research has two foci: one concerns the dependence of human economies and societies on material and energy flows provided by 'natural' systems, while the other involves integrating different forms of knowledge for enhancing societal capacity to develop sustainably and to adapt to change.*

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**Peltier, Richard E**

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USA

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Atmos  
chem



**Peltier, Richard E.** 2007. Ambient submicron particle composition in North America: Their sources, fate, and impact.  
Georgia Institute of Technology (USA)

*I specialize in measuring the specific chemical components of aerosols in the atmosphere. My interests are in applying new measurement technologies to broaden our understanding of which chemical components are most responsible for causing human morbidity and mortality, ideally leading to efficient, and effective, mitigation strategies*

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**Petes, Laura E**

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Bio/Ecol  
ecol



**Petes, Laura E.** 2007. Effects of environmental stress on intertidal mussel reproduction.  
Oregon State University (USA)

*My approach merges the fields of physiology and ecology to determine the sublethal effects of stress on marine organisms at multiple scales, from the individual to the community. Currently, I am investigating the effects of upstream drought-related water shortages on downstream estuarine oyster health.*

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**Randles, Cynthia A**

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NASA Goddard Space Flight Center  
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Greenbelt, MD 20771  
USA

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Web:  
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Atmos  
radiation/cli



**Randles, Cynthia A.** 2007. Impacts of carbonaceous aerosols on climate: Examination of the sensitivity of simulated regional climates to absorbing and scattering aerosols.  
Princeton University (USA)

*My modeling research focuses on understanding the impacts of human-emitted, light absorbing particles (aerosols) from both fossil and biofuel sources. These particles can impact the Earth's climate, air quality, human, health, agricultural production, and may also be altering important large-scale precipitation patterns such as the southeast Asian monsoon.*

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**Sato, Noriyuki**

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California State University at Chico  
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USA

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Soc  
geog



**Sato, Noriyuki.** 2008. Impacts of climatic change and variability on winter-road maintenance in North America.  
Indiana University Bloomington (USA)

*My research focuses on interactions between changing climate and transportation systems. Particular attention goes to the subject of winter-road maintenance. I investigate how any change in the probability distribution of climate variables would affect both road users' adjustments to and maintenance providers' preparedness for changing winter-weather events.*

### Participant Directory

### PhD Citaton, Interests

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**Saulnier-Talbot, Emilie G**

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Canada

Ear/Hydro/Paleo  
geog



**Saulnier-Talbot, Emilie G.** 2007. Impacts of postglacial climate evolution on the the lakes of northernmost Ungava, Québec (Canada).  
Université Laval (Canada)

Tel: 514-398-4117  
Web: [http://biology.mcgill.ca/faculty/gregory\\_eaves/](http://biology.mcgill.ca/faculty/gregory_eaves/);  
<http://biology.mcgill.ca/faculty/chapman/members.html>  
E-m: emilie.saulnier-talbot@mcgill.ca

*In the aim of developing sustainable strategies for conservation, I use a multi-proxy paleolimnological approach to define the long-term effects of environmental variability and anthropogenic activities, including climate change, on the structure and evolution of in-land aquatic ecosystems. My study sites range from high latitude to tropical settings.*

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**Schwartz, Miguel J**

Department of Plant Sciences  
Tel Aviv University  
Britannia 612  
Tel Aviv 69978  
Israel

Bio/Ecol  
ecol



**Schwartz, Miguel J.** 2007. Vegetation community change over decadal and century scales in the North Carolina piedmont.  
Duke University (USA)

Tel: 919-416-3333 (VOIP, US line)  
Web:  
E-m: mjs21@duke.edu

*My research aims to better understand the effect of changing precipitation regimes on natural systems. Currently I am focusing on natural plant communities in Israel, where we are manipulating rainfall and species composition in order to help anticipate what the future may bring in this water controlled and highly biodiverse region.*

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**Selin, Noelle Eckley**

Earth, Atmospheric and Planetary Sciences  
Massachusetts Institute of Technology  
77 Massachusetts Avenue, Building 54-1715  
Cambridge, MA 02139  
USA

Atmos  
chem



**Selin, Noelle Eckley.** 2007. Mercury in the global atmosphere: Chemistry, deposition, and land-atmosphere interactions.  
Harvard University (USA)

Tel: 617-324-2592  
Web: <http://web.mit.edu/selin/www>  
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*My research focuses on atmospheric pollution issues such as climate change, mercury pollution, chemicals, and air pollution-climate interactions. Specific topics include: biogeochemical mercury cycling; urban impacts of ozone and particulates; and persistent organic pollutants. I combine research approaches from natural and social sciences (atmospheric modeling, economic modeling and policy analysis).*

---

**Sharma, Sapna**

Département de sciences biologiques  
Université de Montréal  
C.P. 6128, succursale Centre-ville  
Montréal, Québec H3C 3J7  
Canada

Bio/Ecol  
ecol



**Sharma, Sapna.** 2007. The effects of climate change on the northward range expansion of the smallmouth bass (*Micropterus dolomieu*) and the consequential impacts on native fish populations.  
University of Toronto (Canada)

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*My research interests entail effectively predicting the effects of climate change and other environmental stressors on ecological processes to elucidate how ecological systems and species will respond to changing abiotic and biotic stressors, particularly in vulnerable northern environments. I am also interested in environmental public outreach.*

## 2008 DISCCRS IV Symposium

### Participant Directory

### PhD Citaton, Interests

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**Stearns, Leigh A**

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USA

Ear/Hydro/Paleo  
geol



**Stearns, Leigh A.** 2007. Outlet glacier dynamics in East Greenland and East Antarctica.  
University of Maine (USA)

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E-m: [leigh.stearns@maine.edu](mailto:leigh.stearns@maine.edu)

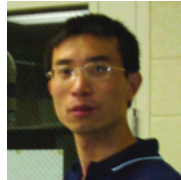
*My research interest is in glaciers and ice sheets and their response to current and past climate change. The role that ice sheets play in modulating global sea level rise depends largely on the dynamics of large outlet glaciers. I use field methods and satellite imagery to study the dynamics of these large glaciers in both Greenland and Antarctica.*

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**Wang, Xianfeng**

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USA

Ear/Hydro/Paleo  
geol



**Wang, Xianfeng.** 2006. Late Quaternary climate changes in Brazil recorded by speleothems.  
University of Minnesota at Twin Cities (USA)

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*My research focuses on late Quaternary climate reconstruction through cave calcite deposits, with particular interest in abrupt climate change that occurs on decadal-to-millennial timescales, and the timing and relationship between the tropical and the high-latitude abrupt climate events.*