



## **ESWN Events during the Fall 2009 AGU Meeting**

### **The 5<sup>th</sup> Annual ESWN AGU Reception**

**Monday, 14 December 2009, 6-8:30PM**

**Jillian's at the Metreon (101 4<sup>th</sup> St., Suite 170)**

Please join us for the 5th Annual ESWN Reception at the AGU Fall Meeting! The reception will be held at Jillian's (a restaurant/bar in the Metreon, 101 Fourth Street, directly across from the Moscone West Conference Center and the Marriott) on Monday, December 14, 2009 from 7:00 - 9:30pm. Light appetizers will be served with a cash bar. Funding for this year's reception is from the generous support of the National Center for Atmospheric Research (NCAR). This reception is a great opportunity to meet other ESWN members, learn about ESWN and other programs, and ask any questions that you might have. This has been a great social networking event and we hope to you will be able to drop by. Feel free to bring along other women who you think would like to join ESWN! If you have any questions, please contact Christine Wiedinmyer ([christin@ucar.edu](mailto:christin@ucar.edu)) or Erika Marin-Spiotta ([marinspiotta@wisc.edu](mailto:marinspiotta@wisc.edu))

### **ESWN Focus Groups and NSF Info Sessions**

**Tuesday, December 15, Times below**

**Hotel Milano (near Moscone, 55 5th Street)**

ESWN will host two information sessions with program officers from the U. S. National Science Foundation (NSF), convened by Marilyn Fogel (NSF/Carnegie Institution of Washington).

1. "**Writing NSF Proposals**" runs from 10:30 AM-Noon. This session covers how to prepare NSF proposals (including postdoc proposals) and visit your program officer.

2. "**Working the NSF System**" runs from 3:30-5 PM. This session will feature how to review a proposal effectively, how to get into the NSF "system," and general Q&A.

Before or after you attend an NSF session, please join a focus group discussion to inform ESWN's future activities and directions. What issues interest

you about women, geoscience, and your career? How can ESWN work for you? Join a lively, informal conversation with 3-6 other ESWN members, facilitated by external evaluator Sandra Laursen. Focus groups will be held 9-10 AM, 12:30-1:30 PM, 2-3 PM, and 5-6 PM on Tuesday, 12/15/09. Space is available on a first-come, first-served basis. **To register please visit:**

<http://www.surveymonkey.com/s/CQ9G6QK>

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## ESWN wins NSF support!

In September 2009, five of the ESWN Leadership Board members were awarded a National Science Foundation ADVANCE program PAID grant (Partnership in Adaptation, Implementation and Dissemination). Meredith Hastings (Brown Univ.) is serving as lead PI, with co-PIs Christine Wiedinmyer (NCAR), Tracey Holloway (Univ. Wisc-Madison), Erika Marin-Spiotta (Univ. Wisc-Madison), and Allison Steiner (Univ. Michigan). Others on the Leadership Board will serve as advisors, including Agatha De Boer (Univ. East Anglia), Arlene Fiore (NOAA/GFDL), and Amanda Staudt (National Wildlife Federation). Sandra Laursen (Univ. of Colorado-Boulder) is also a part of the team of co-PIs to conduct independent evaluation and help develop surveys so we can track our progress during the grant.

The funding will support the following initiatives over 4 years:

- Continue to **grow ESWN** and increase the diversity of our membership.
- Create a **web-center** with a searchable database of our membership; a private interface to share resources; a public interface to promote the “face” of all of you fabulous women scientists out there; a way to share useful resources; as well as other tools to help our membership connect and promote collaborations.
- **Career development workshops** with the first to take place in 2010-2011 in Madison, WI. Two other workshops will be planned, one each in 2011-2012 and 2012-2013. Look for forthcoming announcements on these as they get closer!
- Professional **networking events** at major scientific conferences

- We are in the process of hiring an **ESWN Coordinator** to be employed at Brown Univ. under the supervision of Meredith. The ESWN Coordinator will be tasked with logistics and planning for the workshops, helping to develop the web-center, organizing a regular ESWN newsletter, and generally taking care of many tasks that the ESWN Board members have done to date on a volunteer basis.

The overarching goal in applying for this funding was to help make ESWN sustainable for the foreseeable future. Hopefully this will make it easier for ESWN members to launch other great initiatives. More details will be forthcoming, and we will certainly be polling all of you in various capacities for input, support and involvement as we go along. Speaking of which...

### Evaluating ESWN's progress

Dr. Sandra Laursen is co-director of the Evaluation and Ethnography Research Center at CU-Boulder and is co-PI on the ESWN NSF award. Sandra and her team will lead the assessment portion of the NSF award. These evaluations not only meet requirements set forth by NSF for a project of this magnitude, but also importantly provide feedback to ESWN's leaders and members about the value of the network's activities and how to refine and prioritize them. As evaluators, Sandra's team will help the network discover “what works?” and “how does it work?” and help us use this information to improve its success, expand its impact, and provide useful lessons to others engaged in similar work. These data will also provide evidence that

helps NSF to assess the overall impact of the ADVANCE program—important information that enables this program to survive and thrive as a part of NSF’s portfolio. Some of what we learn will be specific to ESWN’s design and membership; other findings may provide broader information about the career paths of early-career women geoscientists. Over the next four years, members will have several opportunities to contribute to the evaluation, primarily through surveys, focus groups and interviews.

As Sandra recently commented, “my colleagues and I are a multidisciplinary team specializing in evaluation and research studies of STEM education and career paths, especially at the undergraduate, graduate and career levels. We have expertise on issues of underrepresentation

in science and have done previous work on ADVANCE projects. As someone who has worked in geoscience research and education myself, I feel much resonance with ESWN members and the network’s goals.”

**Your first opportunity to participate in the evaluation will be at the AGU meeting in San Francisco, on Tuesday December 15, 2009.** Sandra will convene focus groups and gather input from members about the benefits of belonging to ESWN and their priorities and ideas for ESWN’s work in the coming years. These will be informal small-group conversations that will directly inform the leadership team as they ramp up planning. If you are attending AGU, see the details on page 1 of the newsletter for registration information.

## 2008-9 Member Get-togethers

As our membership continues to grow, the ESWN email list has been a way for members to connect and plan get-togethers at national and international workshops, meetings, and conferences. Feel free to organize an informal gathering at your next conference!

### **AGU Fall Meeting**

#### **San Francisco, CA December 2008**

With support from the National Center for Atmospheric Research (NCAR), the ASCENT Program via the Division of Atmospheric Science at Desert Research Institute, the Centers for Sustainability and the Global Environment and for Climatic Research in the Nelson Institute for Environmental Studies at Univ. Wisc-Madison, and the National Wildlife Federation, ESWN hosted a reception during the Fall American

Geophysical Union Meeting in San Francisco. We lost count of the total number of women there, but we estimate around 200 attendees. Many thanks to Erika Marin-Spiotta and Christine Wiedinmyer for organizing our biggest annual event!

### **AMS National Meeting**

#### **Phoenix, AZ January 2009**

A group of about fifteen ESWN members participated in ESWN events at the AMS national meeting. Several members met at the AMS-sponsored women’s luncheon, and in the evening a few attended one of the many AMS receptions together. Thanks to Shelley Pressley (WSU) for organizing!

### **EGU: Vienna, Austria April 2009**

In April we had a sequel to last year’s successful reception at the European

Geophysical Union meeting. New and old ESWNers met each other over a glass of wine and some nibbles. Thanks to Parv Suntharalingam, Helen Johnson, Liz Petrie, Elena Tarnavsky and Agatha de Boer for organizing, and to the University of East Anglia for their generous financial support.



ESWNers chatting at the ESWN reception at the 2009 EGU conference in Vienna

**IUGG Meeting: Montreal, July 2009**

Four ESWNers had a delicious dinner, drinks and good conversation in Old Montreal.



From L-R: Renske, Becca, Sonya & Agatha enjoying French-Canadian life.

**Goldschmidt Conference  
Davos, Switzerland, June 2009**

An ESWN lunch took place at the Goldschmidt Conference this past summer, which provided a great mix of junior and senior members, including Alicia Cruz-Urbe (PSU), Rachel Stanley (WHOI), Jennifer

Herbert Fehrenbacher (UChicago) - PhD student, and Mary Reid. The group even did some hiking around Davos! Thanks to Alicia (Cici) for organizing!

**NCAR CCSM Meeting  
Breckenridge, CO, July 2009**

Alex Jonco organized a get-together of about eight ESWN members at the annual National Center for Atmospheric Research (NCAR) Community Climate System Model (CCSM) workshop. They met at the Breckenridge Brew Pub for food and beer.

**Ecological Society of America Meeting  
Albuquerque, NM, August 2009**

Ten ESWNers met for a meal in Old Town Albuquerque for dinner and good conversation. Thanks to Susanna Ehlers for organizing and for her local expertise!

**GSA: Portland, OR, October 2009**

Sarah Derouin organized a lunch with six ESWN members at GSA this fall. It was an informal get-together and was a great way for new members to get to know each other and their research!

**American Association for Aerosol Research (AAAR): Minneapolis, MI October 2009**

Thirty-four female scientists (the “Aerodols” of AAAR 2009) got together for dinner at the AAAR meeting this fall- it included many existing ESWN members and hopefully many new ones. Thanks to Anne Marie Carlton for forwarding the photo!



## Report from the 2008 ESWN Leadership Training Workshop: *Building Leadership Skills for Success in Scientific Organizations* December 13-14 2008 in San Francisco, CA

On December 13-14, 2008, ESWN organized a workshop “Building Leadership Skills for Success in Scientific Organizations,” sponsored by the National Oceanic and Atmospheric Administration (NOAA) with additional support from UCAR JOSS and the ADVANCE program at Brown University. Forty-one women, from academic (25), public (9) and private (7) institutions attended the workshop. The workshop opened with the history and chemistry of leadership, facilitated by Sandy Shullman of the Committee On the Advancement of women in Chemistry (COACH). Sandy then discussed the importance of developing leadership skills among female scientists, and outlined and demonstrated several strategies to become an effective leader. The first day concluded with a panel of four senior scientists—Tim Killeen (NSF), Margaret Leinen (Climos), Pamela Matson (Stanford University), and Susan Solomon (NOAA)—who shared insights from their own career paths and observations about the role of women scientists in future leadership positions. On the second day of the workshop, Christina Olex, a corporate trainer and facilitator, led discussions on how to develop one’s personal leadership style, starting from an understanding of emotional intelligence and ending with specific strategies for identifying and overcoming challenges to becoming more effective leaders.

The workshop concluded with an opportunity for participants to reflect on what they had learned. Overall, the participants found that it was helpful to

network with other early career women and discuss long-term career development strategies. Many thought that the information on leadership styles and tools to become an effective communicator and leader would be helpful as they navigated their own career path. The perspectives and the forthright presentations of the panelists were also appreciated by participants.

A post-workshop survey of the participants (90% response rate) revealed an overwhelmingly enthusiastic response, with nearly all participants stating that the workshop was highly valuable to their careers and happiness (rank of 8.7 on a scale from 1 to 10, where 1 = not valuable and 10 = extremely valuable) and that they would recommend others to attend the workshop if offered again (rank of 9.5). The strong ratings of the workshop value reflect the participants’ perception that it addressed content not available elsewhere. For example, when asked how much of the content of the workshop is available at their home institutions, the participants response average was 3.7, on a scale from 1 to 10, where 1 = no content available and 10 = all content is available). Overall, participants felt that the workshop was extremely valuable to their professional development.

Special thanks to our panel members, coordinators, and organizers for putting together such a great program! Our NSF ADVANCE grant will allow us to host similar workshops over the next few years. Keep your eyes posted for similar upcoming events over the next few years!

## ASCENT Workshop Report, Year 1

### *Gannet Hallar, Storm Peak Laboratory*

ASCENT is a NSF ADVANCE program, led by Gannet Hallar (DRI) and Linea Avellone (CU-Boulder), that focuses on women in atmospheric science/meteorology and is designed to initiate positive professional relationships among female faculty of different ranks and postdoctoral researchers. To date, the program consists of a three-day summer workshop. ASCENT has an upcoming reunion event in December. By fostering relationships among women faculty and researchers, ASCENT intends to develop research opportunities for participants. ASCENT was oversubscribed this year, and we were unable to accept all of the very qualified applicants. A total of 22 junior scientists and 7 senior scientists participated. These women were from 27 different universities and research facilities, representing 19 states and 3 foreign countries.

**Recruitment:** Marketing materials, including brochures and a web site ([www.ascent.dri.edu](http://www.ascent.dri.edu)), were created to advertise availability of the ASCENT program. The department chair of each academic program in atmospheric science and meteorology was contacted, both via email and a mailing. The program was also advertised via the Earth Science Women's Network (ESWN) list serve, EOS and the Bulletin of the American Meteorological Society, and the Association for Women Geoscientists website and newsletter. ASCENT assisted ESWN in hosting a networking event at the 2008 AGU meeting, which was used to recruit participants.

**Workshop:** The first ASCENT Summer Workshop was held in Steamboat Springs, CO from June 15 - 17, 2009. The keynote speaker for this workshop was Dr. Kimberly Sullivan, Utah State University. The program involves a mix of activities to help women form professional networks, identify research

partners, and establish mentoring relationships. Activities include break-out sessions, a poster session, a keynote address, talks by senior scientists, and opportunities for informal socializing, dinners, and field trips. The participants visited Storm Peak Laboratory, a high elevation atmospheric science facility, together as a field trip.

**Research Activities and Findings:** Twenty-five participants completed the post-conference survey, 20 junior scientists and five senior



scientists. Work-life balance and family issues were the most frequently cited career obstacles. Postdoctoral researchers, in particular, faced acute obstacles, describing a lack of access to resources and support, and the transient nature of postdoctoral positions was difficult for dual-career couples. Some women reported delaying childrearing decisions during the postdoctoral phase. Women reported gains from participation in the ASCENT conference. The most frequent gain was enhancing their professional network. The majority of ASCENT participants anticipate that they will collaborate with someone that they met at ASCENT.

**Outreach:** To reach a larger audience and for recruitment purposes, we decided to create a short film about ASCENT. This film has been an overwhelming success. The film is available at: <http://www.youtube.com/adhocprod>

## 2009 ESWN Listserv Highlights

Allison Steiner, University of Michigan

We are all swamped by too much email, and adding yourself to the ESWN list will certainly increase the number of incoming messages in your inbox. Here is a quick summary of the “hot topics” listserv topics in 2009 and some of my personal favorites! All threads are still available in the archive if you are interested in reading more.

### **January 2009: Motherhood and Breastfeeding:**

Two articles in the popular literature (one in the New Yorker and another in the Atlantic Monthly) triggered a lot of listserv discussion on working, breast feeding and pumping. One is in the New Yorker and one in the Atlantic Monthly (please check the archive for still active links). If you are a new mom, you might find these point-of-views either liberating or infuriating!

### **January 2009: Women and Professional Awards**

This thread was started by Marilyn Fogel, an ESWN member who serves on several Boards and reviews nominations for various professional awards. She noticed that very few women were nominated for national awards, leading to fewer women receiving awards. A discussion followed about how to increase these nominations and the role that ESWN can play. This discussion cropped up again in June 2009 when the nominations for AGU fellows were announced. At ESWN, we are working to create an awards committee that can provide a set of guidelines for those interested in nominating fellow scientists.

### **March/April 2009: Women Scientist Calendar:**

Sue Weiler started a thread about a popular article in the Chicago Tribune about stereotypes about what women in science “look” like. A lively thread followed, and Claudia Benitez-Nelson suggested a “Women in Science” calendar to help promote the range of women in science. She collected photos from members of women scientists in action, which can be

seen on our Facebook page. There was a lot of reaction to this idea— some loved it, some hated it, some had their own ideas to promote it.

### **April, June & October 2009: Work/Life Balance:**

As always, a big question for ESWN members is how to balance work life and personal life. This question came up several times in 2009. In April, one graduate student asked about if it was possible to have a “40-hour academic work week.” There were many interesting comments on this from our ESWN members with experience: one of my all-time-favorites is a post by Marilyn Fogel. It is too lengthy to reprint, but I feel it perfectly encapsulates the life of the a female scientist (and in only five paragraphs!). For those of you interested, this topic cropped up again in June titled “lifestyle question” and again in October in a series of posts titled “doing it all.”

### **July 2009: Citation websites**

Katharine Hayhoe started a thread on the development of new, fee-based citation databases to increase your citation numbers. This incited an interesting discussion amongst ESWN members about the fairness of for-fee services such as this one, and the role of social networking in increasing your citations. This is one of the reasons that we include a “Publications by Members” section of our newsletter – it helps to promote scientific collaboration & increase publication visibility!

### **October 2009: Jennifer Glass’s nerdy hobby!**

New member Jennifer Glass shared a spreadsheet that she had created investigating the number of women faculty in US institution Geosciences departments. This spreadsheet fostered a lot of discussion and suggestions for inclusions of other departments, national labs, and alternative careers in science.

### **November 2009: Resources on women in science**

Several members were interested in finding resources for “women in science” topics (e.g., numbers of women in STEM fields). In this thread, you will find many sources if you are ever looking!

## News from the Group

In May 2009, **Manda Adams** finished her first half marathon, with a time of 2 hours and 8 minutes. In August 2009, she started a new position as an assistant professor at the University of North Carolina-Charlotte where she gets to interact on a daily basis with fellow ESWNer, Anne Jefferson!

**Anna Åkesson** (née Gustafsson) is approaching the middle of her PhD studies in hydrology (on extreme flow modelling in rivers), moving forwards pace by pace. On June 20 this summer she got married and thus changed her surname from Gustafsson to Åkesson - one of the few moments in life where she was glad that she doesn't have a long list of publications!

**Nicole Bouvier-Brown** completed her dissertation this past December at UC Berkeley in Environmental Science, Policy, and Management, and landed a tenure-track faculty position the very next day! Nicole and her husband moved back to Los Angeles in July to begin her job as an Assistant Professor in the Chemistry and Biochemistry Department at Loyola Marymount University. This job is perfect for her because she will be teaching in the Chemistry & Natural Science Departments, but can still dabble in research and use it as a teaching tool for undergrad education.

**Kristine DeLong** graduated from University of South Florida in December 2008, and completed a Post doc at the USGS in St. Petersburg, FL under Dick Poore. She is now an Assistant Professor in the Department of Geography and Anthropology at Louisiana State University in Baton Rouge as the paleoclimatologist in Atlantic Studies multidisciplinary program at LSU.

**Arlene Fiore** welcomed a second little girl, Serena, born May 8, 2009 – she can now giggle together with her big sister Clarissa!

**Jennifer Glass**, Ph.D. candidate in the School of Earth and Space Exploration at Arizona State

University, was awarded an APS/NAI Lewis & Clark Astrobiology Field Research Fellowship to study diagenesis and metal cycling in the sediments of Castle Lake, California during the summer of 2009. She also finished her first year in ASU's Preparing Future Faculty program and attended the NSF/NAGT On the Cutting Edge Workshop "Preparing for an Academic Career in the Geosciences".

**Elaine Godfrey** and her husband Christopher welcomed their first child, Kathleen Elizabeth, into their family on October 3, 2008.

**Liz Morris Griffith** will be joining the faculty in the Department of Geology at Kent State University as an assistant professor in January and her husband will be close by at the University of Akron also starting as an assistant professor in geology.



**Gayle Hagler** recently accepted a permanent position as an Environmental Engineer in EPA's National Risk Management Research Laboratory in Research Triangle Park, NC. Gayle and her husband, Ty, also want to share the joyful news of her baby boy, Graham Otis Hagler, born on September 12, 2009.

**Meredith Hastings** is enjoying life in Providence, RI as a 2<sup>nd</sup> year assistant professor at Brown University. She is keeping busy with starting a lab, running a research group, writing grants, teaching new courses, settling into a new city, and trying to stay healthy! She is excited and proud to have helped gain support for ESWN through a new NSF ADVANCE grant.

**Katharine Hayhoe** has two new interesting

publications: (1) The federal report, "Global Climate Change Impacts in the United States," released by the US Global Change Research Program, provides a comprehensive assessment of how climate change is affecting human society, natural resources, and the environment across the United States. It's a report written for everyone, not just for fellow scientists and policy-makers. The goal was to provide everyone with the information they need to figure out how climate change is affecting the places they live and care about. [Along those lines: One of her co-authors brought her 80-year-old mother with her to several meetings, which was a tremendous help. If there were concerns about a particular section being readable, they would ask Eileen's mother if she understood what we were trying to say. If she said "no," they would re-write!] (2) A book titled: "A Climate for Change: Global Warming Facts for Faith-Based Decisions," and is an attempt to tackle many of the long-held misconceptions about global warming that most of us hear about every time we get into a conversation with our neighbors or our relatives about climate change. Polls consistently show how a great deal of the denialism we confront as scientists tends to run along political and religious lines. So they used a faith-based perspective to show how human-induced climate change is in no way incompatible with belief in God or even, for that matter, creationism. They argued that reality of climate change is about thermometers and measurements over the last few hundred years, not about blue, or red, or any shade of politics at all.

In August 2008 **Tracey Holloway** was appointed as Director of SAGE, the Nelson Institute Center for Sustainability and the Global Environment at the University of Wisconsin-Madison ([www.sage.wisc.edu](http://www.sage.wisc.edu)), in February 2009 she got tenure, and in August 2009 gave birth to an adorable little boy -- Peter Holloway Schilling.

**Lekelia "Kiki" Jenkins** was featured in an AWIS magazine article about science policy and

globalizations: you can find the article here: Martinez., L. A., 2008. Science and Technology Policy, transcript of interview about globalization and science policy, *AWIS Magazine*, 37(4):20.

**Sonya Legg** is about to complete her term as co-chair of the USCLIVAR Process Studies and Model Improvement panel. One highlight of her panel contributions is the short news item in BAMS: Cronin, M.F., S. Legg and P. Zuidema, 2009: "Climate research: Best Practices for Process Studies", v90, p917-918. Additionally, she has just been appointed Director of Graduate Studies for the AOS Program at Princeton, and is a mentor and steering committee member for MPOWIR.

**Maureen Long** started as an assistant professor in the Department of Geology and Geophysics at Yale University in Jan. 2009.

**Erika Marín-Spiotta** said "hasta la vista" to California and started as a new Assistant Professor in Geography at Univ. Wisc.-Madison. She is enjoying setting up her new lab, starting new research projects, teaching, and exploring a new city. She and ESWN were recently featured on the Sciencewomen blog: <http://scienceblogs.com/sciencewoman/>



**Galen McKinley** had a little boy on February 9. Congratulations!

**Gretchen Mullendore** received a 3-year NSF (PDM) grant titled "Deep convective transport to the upper-troposphere/lower-stratosphere."

**Kerri Pratt** graduated with a Ph.D. in Chemistry with focuses in analytical and atmospheric chemistry from the University of California, San Diego in June 2009. She also received a 2009 NOAA Climate and Global Change Postdoctoral Fellowship for her current postdoctoral research with Dr. Daniel Cziczo and Dr. Jennifer Comstock at the Pacific Northwest National Laboratory, where she is using field measurements and modeling to study cloud ice nucleation.

**Patricia Durance-Sie** submitted her PhD thesis in December 2008 and three weeks later gave birth to her second son, Oscar. Her thesis passed with no corrections and while officially

on (unpaid) maternity leave she took up a postgraduate publication award, was a tutor for a science communications course and was given a one-term appointment as a lecturer. Now the year is coming to an end and she's marking exams and looking for a postdoc or lecturing position.

**Noelle Eckley Selin** will join the MIT faculty as Assistant Professor of Engineering Systems in January, 2010. She will also have a joint appointment in the Earth, Atmospheric and Planetary Sciences department. For the past two years, she has been a postdoc and research scientist at MIT's Joint Program on the Science and Policy of Global Change.

## Publications by Members

**Alexander, B.,** M. G. Hastings, D. J. Allman, J. Dachs, J. A. Thornton, and S. A. Kunasek (2009), Quantifying atmospheric nitrate formation pathways based on a global model of the oxygen isotopic composition (D17O) of atmospheric nitrate, *Atmos. Chem. Phys.*, 9, 5043-5056.

**Alexander, B.,** R. J. Park, D. J. Jacob, and S. L. Gong (2009), Transition metal catalyzed oxidation of atmospheric sulfur: Global implications for the sulfur budget, *J. Geophys. Res.*, 114, D02309.

**Barnes, R. T.,** P.A. Raymond, K.L. Casciotti. 2008. Dual isotope analyses indicate efficient processing of atmospheric nitrate by forested watersheds in the northeastern U.S. *Biogeochemistry*, DOI: 10.1007/s10533-008-9227-2.

**Barnes, R.T.** and P.A. Raymond. 2009. The contribution of urban and agricultural activities to inorganic carbon fluxes in Southern New England. *Chemical Geology*, 266: 327-336.

Bennington, V, **G.A. McKinley**, S. Dutkiewicz, D.

Ullman (2009) What does chlorophyll variability tell us about export and air-sea CO<sub>2</sub> flux variability in the North Atlantic? *Global Biogeochem. Cycles.*, 23, GB3002, doi:10.1029/2008GB00341.

**Carlton, A.M., C. Wiedinmyer,** J. Kroll. (2009) Secondary organic aerosol from isoprene: A review. *Atmos. Chem. Phys.*, 9, 4987–5005.

**Clements, A.L.,** et al., 2009, Air pollutant concentrations near three Texas roadways, Part II: Chemical characterization and transformation of pollutants, *Atmospheric Environment*, 43 (30), 4513-4522, doi:10.1016/j.atmosenv.2009.06.044

**DeLong, Kristine L.,** Terrence M. Quinn, Gary T. Mitchum, Richard Z. Poore, Evaluating highly resolved paleoclimate records in the frequency domain for multidecadal-scale climate variability, *Geophysical Research Letters*, doi:10.1029/2009GL039742, In press.

Desai, A., J. Austin, V. Bennington and **G.A. McKinley** (2009) Stronger winds over a large lake in response to a weakening air to lake

temperature gradient. *Nature Geoscience*, in press.

**Fiore, A.M.**, et al., Multi-model Estimates of Intercontinental Source-Receptor Relationships for Ozone Pollution, *J. Geophys. Res.*, 114, D04301, doi:10.1029/2008jd010816, 2009.

**Fortner, S. K.** (2009) Fourth and fifth grade students learn about renewable and nonrenewable energy through inquiry, *J. Geoscience Ed.*, 57(2), 1-10.

**Fortner, S. K.**, W. B. Lyons, A. G. Fountain, K. A. Welch, N. M. Kehrwald (2009) Trace element and major ion concentrations and dynamics in glacier snow and melt: Eliot Glacier, Oregon Cascades, *Hydrological Processes*, 23(21), 2987-2996

**Gill, J.L.**, J.W. Williams, S.T. Jackson, K.B. Lininger, and G.S. Robinson. 2009. Pleistocene megafaunal collapse, novel plant communities, and enhanced fire regimes in North America. *Science* 326: 1100-1103.

**JB Glass**, F Wolfe-Simon & AD Anbar. 2009. Coevolution of metal availability and nitrogen assimilation in cyanobacteria and algae. *Geobiology* 7: 100-123.

**Griffith, E.M.**, A. Paytan, K. Caldeira, T.D. Bullen, E. Thomas. 2008. A dynamic marine calcium cycle during the past 28 million years. *Science*, 322: 1671. DOI: 10.1126/science.1163614.

Griffith, D.R., **R.T. Barnes**, P.A. Raymond. 2009. Inputs of fossil carbon from wastewater treatment plants to U.S. rivers and oceans. *Environmental Science & Technology*, 43(15): 5647-5651.

**Hagler, G.S.W.**, Bergin, M.H., Smith, E.A., Dibb, J.E. (2008). Local anthropogenic impact on particulate elemental carbon concentrations at Summit, Greenland, *Atmospheric Chemistry and Physics*, 8, 2485–2491.

**Hagler, G.S.W.**, Baldauf, R.W., Thoma, E.D., Long, T.R., Snow, R.F., Kinsey, J.S., Oudejans, L., Gullett, B.K. (2009). Ultrafine particles near a major roadway in Raleigh, North Carolina: downwind attenuation and correlation with traffic-related pollutants, *Atmospheric Environment* 43, 1229–1234.

**Hastings, M.G.**, J.C. Jarvis, and E.J. Steig (2009), Anthropogenic impacts on the isotopes of ice-core nitrate, *Science*, 324, doi:10.1126/science.1170510.

**Henderson, G. R.** and D. J. Leathers: European snow cover extent variability and associations with atmospheric forcings. *International Journal of Climatology*, in press (2009) but available online, DOI: 10.1002/joc.1990

**Holloway T.**, and C. Littlefield. *Environmental Health – Links with Intercontinental Air Pollution Transport*, Encyclopedia of Environmental Health, published by Elsevier, Amsterdam, The Netherlands, in press

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***A special thank you to the ESWN Welcoming Committee, including Becca Barnes, Sarah Derouin and Asmeret Berhe. The Welcoming Committee is the first point of contact to new members and introduces them to ESWN's growing resources. Thank you!***

## ESWN Resources

Here is a summary of ways to connect with ESWN. We are hoping to integrate and streamline these resources over the next few years with the funding of the ESWN ADVANCE grant. Please keep your comments coming, and stay posted for more changes to come!

**The ESWN website:**

<http://www.sage.wisc.edu/eswn>

**Email lists:****ESWN listserv**

This email list is to communicate information between members, including member introductions, upcoming conferences and ESWN get-togethers, and other topics of interest to the group at large. To email this list, please send mail to: [eswn@web2.acd.ucar.edu](mailto:eswn@web2.acd.ucar.edu). You can change your list settings (including switching digest format off or on!) by logging on at: <http://mailman.acd.ucar.edu/mailman/options/eswn/>. If friends or colleagues would like to join, direct them to:

<http://mailman.acd.ucar.edu/mainman/listinfo/eswn>

**ES Jobs list:**

Due to the large number of job postings on the original ESWN list, we have created a separate Earth Science Jobs List open to the public. You can join, change your settings, or unsubscribe at: [http://mailman.acd.ucar.edu/mailman/listinfo/es\\_jobs\\_net](http://mailman.acd.ucar.edu/mailman/listinfo/es_jobs_net)

To email this list, please send mail to:

[Es\\_jobs\\_net@mailman.acd.ucar.edu](mailto:Es_jobs_net@mailman.acd.ucar.edu)

**Discussion board:**

Members can visit the discussion board for in-depth conversations on a particular topic, or look up archived discussions or information. Our general policy is that active email discussions are moved to the discussion board after five posts. Check it out at <http://eswn.aos.wisc.edu/>

**Facebook group:**

Join ESWN on Facebook!

**Please continue to personally invite friends and colleagues to join the group!**

### ESWN Earth Sciences Women's Network

**Leadership Board Members:**

Agatha De Boer, University of East Anglia  
Arlene Fiore, NOAA GFDL  
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Tracey Holloway, University of Wisconsin  
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Allison Steiner, University of Michigan  
Christine Wiedinmyer, NCAR

**Web address:**

<http://www.sage.wisc.edu/eswn>

**Mission:**

To promote career development, build community, provide informal mentoring and support, and facilitate professional collaborations.