



Environmental Studies

FOR OUR SHARED FUTURE

UC SANTA BARBARA

FALL 2011 NEWSLETTER

A MESSAGE FROM THE CHAIR

ES: The Thin Green Line

This year, the world reached 7 Billion people, but also \$1 Trillion in damage from environmental disasters, including many billions in the U.S. from



both massive floods and droughts that may permanently transform communities from Texas to the Dakotas. We've never needed Environmental Studies graduates more than today—managing the future is a balancing act to ensure quality life on a crowded, resource-challenged

planet. Achieving this requires a balance of technological tools and societal choices.

This, our 42nd year, has been one of both loss and gain for ES. We lost both Bill Freudenburg and Barry Schuyler last year. Bill was a stellar scholar, an inspiring teacher, and a core of the

Program; Barry was a lecturer emeritus, former Chair, and mentor to all of us in the Environmental Studies Program; we miss them both. We gained majors and now have over 800, a new milestone that speaks loudly for both student interest and our success.

Hence the title of this piece: The thin green line. Our faculty and staff are excellent, committed, and creative; they are teaching terrific classes and doing wonderful things, a few of which are noted in the Newsletter; Oliver Chadwick being named a Fellow in the American Geophysical Union and David Cleveland serving as Campus' first *Sustainability Champion*, are notable. But, they are all increasingly stretched to maintain the availability and quality of our classes. We need your help in these challenging times and to take us to a new level of excellence in offering the best environmental education in the world. Details on the Campaign for Environmental Studies are found on the last page of the Newsletter. I ask for your support.

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In Memoriam: Arent H. "Barry" Schuyler 1923 – 2011

**Adapted from:
*Reflections on a Remarkable Man***

By Robert Wilkinson

Barry Schuyler was a navigator, a skill that involves vision, judgment, and the ability to sort important information from noise. In a conversation in the 1970s, reflecting on the challenges of our time, he said "the problem your generation will face is how to deal with too much information." How prescient he was.



As chair of Environmental Studies in the 1970s, Barry led the program at a critical time. Garrett Hardin had just penned "Tragedy of the Commons" and the Santa Barbara oil blowout was still fresh in our minds (and noses). The laws and policies we now take for granted were just being crafted—NEPA, CEQA, the Clean Air and Water Acts, and the Endangered Species Act. Yet while navigating the imminent threats of rough academic cross-currents and sharp disciplines, he never lost his ability to look beyond the horizon to far-off goal.

For example, Barry brought a young Amory Lovins to UCSB to talk about a book he had just written, *Soft Energy Paths*, which launched him toward becoming one of the world's most influential voices on energy. Barry also understood the importance of integrating systems dynamics, environmental issues, and the human prospect. Though the

jargon "coupled human-environmental systems" wouldn't be coined for decades, Barry ingrained the concept into soul of the ES program.

He was famous for advising students "never let the University get in the way of your Education." His point was that life is an ongoing education and the University is just one part of the journey; others were to spend time in the mountains, on the sea, and in rich conversation with friends. One legacy of Barry Schuyler is his mastery of *teaching* at all levels—including the teachers.

We celebrate the wisdom Barry provided, the lessons, and the aspirations for the earth and humanity. In the spirit of celebrating life, and particularly *his* life, let me say as he would: CHEERS!



(See Bob's full comments at <http://www.es.ucsb.edu/news/announcement/163-081511>)

A Tribute to Professor William R. Freudenburg; 1951 - 2010

Environmental Studies Professor and Dehlsen Endowed Chair, William Robert Freudenburg, died last December. Bill was a most beloved teacher, valued colleague and respected scholar, and is sorely missed.

Below are stories from a couple of his last activities. For a glimpse of the man and his legacy you may view some of Bill's recorded lectures as well as remarks recorded during Freudenfest at <http://vimeo.com/channels/186979>.

A tribute page in his honor can be viewed at <http://billfreudenburg.forevermissed.com>.



Freudenfest 2010: A Symposium to Honor William R. Freudenburg's Scholarly Contributions

A day long collaborative discussion and celebration of Dr. William Freudenburg's career contributions to sociology, environmental studies, and society was held November 6, 2010, at UCSB.



There is a tremendous need to forge new directions in scholarship on environment and society that can ensure meaningful contributions to academia and civil society alike. There is perhaps no other contributor who has offered a larger trove of concepts and insights to direct such an endeavor than William R. Freudenburg. Over the past several decades, his work in the areas of risk, disaster, and natural resource development, and most critically the political forces that define such events, offered multiple seeds that warrant further development by others in the sub-discipline.

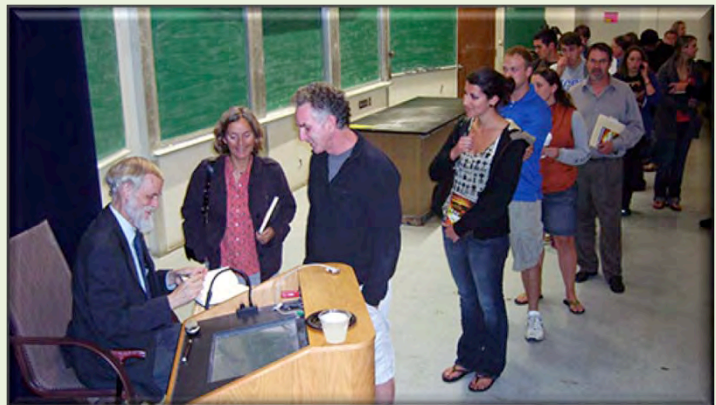
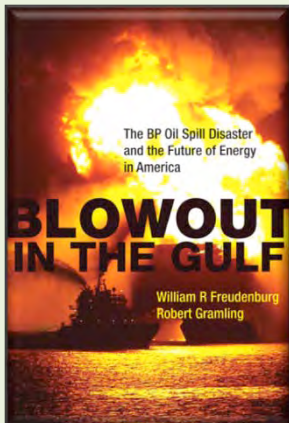
Bill, who received his Ph.D. from Yale in Sociology in 1979, was on the faculty in the Department of Rural Sociology and, later the Institute of Environmental Studies, at the University of Wisconsin, Madison from 1978 until his arrival in the UCSB Environmental Studies Program as the Dehlsen Professor in Environment and Society in 2002. He produced over 250 publications, including 5 books and was a member of numerous professional organizations. Bill led the movement to establish the first international society of its kind - the Association for Environmental Studies and Sciences.

Speakers at Freudenfest included Raymond Murphy (University of Ottawa), Riley Dunlap (Oklahoma State University), Richard Krannich (Utah State University), Eugene Rosa (Washington State University), Tony Rosenbaum (University of Florida), Robert Gramling (University of Louisiana, Lafayette), Dana Fisher (Columbia University), Lee Clarke (Rutgers University), Debra Davidson (University of Alberta), and Kathleen Tierney (University of Colorado, Boulder). Remarks were offered by Joshua Schimel, ES Chair, Pierre Wiltzius, Dean, Mathematical, Life and Physical Sciences Division of the College of L&S. Dilling Yang, wife of UCSB Chancellor Henry Yang, presented Bill with an achievement plaque. The evening ended with a dinner at the UCSB Faculty Club during which many shared stories and recollections.



Learning Lessons from Disaster? The BP Oil Spill and the Future of Energy in America was the title of a lecture given by Professor William Freudenburg on November 15, 2010. Open to the local and campus communities, the talk was based on work highlighted in his last book, "Blowout in the Gulf - The BP Oil Spill Disaster and the Future of Energy in America" co-authored with Robert Gramling (The MIT Press, October, 2010).

Over the past several decades Professor William Freudenburg's research in the areas of risk, disaster, and natural resource development, and most critically the political forces that define such events, offered multiple seeds that served as a catalyst for others to investigate such critical social, human and natural system studies across the world.



The oil spill in the Gulf of Mexico earlier this year proved to be the worst offshore oil disaster in history. In his lecture he examined the factors — political and otherwise — that contributed to the environmental and economic catastrophe.

Bill Freudenburg signed copies of his book following the lecture.

And Speaking of Faculty...



UCSB Historian Peter Alagona receives NSF CAREER Award

Peter Alagona, Assistant Professor in History and Environmental Studies, has been awarded a CAREER Award by the National Science Foundation (NSF) for his research on the University of California's Natural Reserve System and the role of biological field stations in American environmental history.

The Faculty Early Career Development Program offers the NSF's most prestigious awards in support of the activities of those teacher-scholars most likely to become the academic leaders of the 21st century. The awards provide a financial stipend to support research activity for a period of five years.

The NSF promotes and advances scientific progress in the United States by competitively awarding grants and cooperative agreements for research and education in the sciences, mathematics, and engineering. "Every year the NSF makes five-year CAREER awards to some of the best and brightest researchers in the country

early in their academic career," said Michael Witherell, UCSB's vice chancellor for research. "It gives the recipients a chance to concentrate more on doing great research and less on writing proposals.

According to the NSF, CAREER awardees are selected on the basis of creative proposals that effectively integrate research and education. The plans are expected to build a firm foundation for a lifetime of integrated contributions to research and education.

Dr. Oliver Chadwick has been elected Fellow of the American Geophysical Union (AGU).

Election as a Fellow in the AGU is a special tribute to those who have made exceptional scientific contributions. Nominated Fellows must have attained acknowledged eminence in the Earth and Space sciences. This designation is conferred upon not more than 0.1 percent of all AGU members in any given year. A committee of current Fellows chooses new Fellows.

Dr. Chadwick was quoted in the UCSB 93106 publication stating, "The AGU is the best home for broad interdisciplinary research in the Earth sciences. My research encompasses a number of Earth surface disciplines ranging from ecology to geomorphology and geochemistry. Typically, I present papers in the Biogeoscience section as well as in the Earth and Planetary Surface Processes Interdisciplinary Focus Group. I am truly honored that my colleagues here at UCSB and elsewhere found it appropriate to nominate me and select me for this honor."



Kryder Wins 2011 CBIS Legacy Award

LeeAnne Kryder, a long-time faculty member in the UCSB Environmental Studies and Writing Programs, has been awarded the Clean Business Investment Summit's Legacy Award for 2011. The award honors educators who "actively educate, engage, and empower young entrepreneurs and future business leaders, helping them to realize their potential to affect change through ethical, clean businesses."

Kryder's innovations within the Writing Program and at UCSB were singled out for special praise in conjunction with the award. Her "courage, perseverance, and success" in mentoring students was given special attention. Kryder created several "Sustainability through Writing" awards that are given to UCSB undergraduates each year. The awards are given to students who produce outstanding business or marketing plans or other communication pieces that demonstrate a commitment to sustainability. At the event, Kryder was recognized for creating a "sustainability legacy within the UC system."

The CBIS is an organization dedicated to aligning the power of capital and clean business principles to build viable, sustainable enterprises while promoting economic development based on ethics.



Dr. David Cleveland's Santa Barbara County Agrifood Systems research group hosted a workshop at UCSB May 20-21: *Localizing Santa Barbara County agrifood systems—research, action and policy*. The workshop brought together over 200 people from throughout the Santa Barbara County agrifood system in visioning a future that is more locally oriented, and more environmentally, socially and economically sustainable. There was a high level of community commitment to working collaboratively to improve our agrifood system.



The sessions were organized around three major parts of the agrifood system (production, distribution-processing, and food preparation and eating). Each session included discussion of how to improve the system in terms of the environment, nutrition and community.

Participants shared a vision for a food system that reduces control by large agribusiness, minimizes the use of toxic substances, empowers local farmers, eaters and those in between, provides living wages and healthy working conditions to farm workers, reduces greenhouse gas emissions, conserves water, and makes nutritious, healthy local food available to all residents. The workshop was sponsored by the UCSB Academic Senate Sustainability Champion Program, Interdisciplinary Humanities Center, and the Environmental Studies Program.





Dr. Carla D'Antonio launched a new NSF-funded research project in Hawaii where she had previously studied degradation of dry forest ecosystems by invasive species and fire. She is evaluating how these ecosystems have continued to change and whether there are new opportunities for restoration. She is pictured here in Hawaii Volcanoes National Park standing in patch of invasive African grasses with an invasive introduced tree from the Canary Islands in the background.

'Take it to the limit'... Carla's ES 119 at top of the White Mountains with Sierra Nevada in background. Here students learned about the ecology and management of montane ecosystems including Pinyon & Juniper woodland, ancient bristlecone pines, and Sierran and high desert ecosystems.

Photo by Dr. D'Antonio.



Association for Environmental Studies and Sciences (AEISS) 2012 Annual Conference

The next AEISS conference will take place at Santa Clara University on June 21-24, 2012. It's easy travel distance from Santa Barbara and a great opportunity to present a paper, organize a group session, and/or sponsor a student paper or poster presentation. The theme is "Preparing for Our Environmental Future," which is loaded with opportunity for everyone involved with UCSB's ES Program. For full details please check out the conference website:

http://aess.clubexpress.com/content.aspx?page_id=22&club_id=939971&module_id=105521

Best regards, Greg Mohr, AEISS Treasurer

Faculty Research Spotlight:

A Story From Abroad: Dr. Simone Pulver's recent trip to Brazil and India

During the next quarter-century, over 95% of the growth in global greenhouse gas emissions is expected to occur in the non-industrialized economies. A global response to climate change will require emerging economies to limit per capita emissions and likely even their absolute emissions. To date, the primary approach to clean energy governance in the



Simone Pulver and Nathan Hultman at the Usina Colombo sugar mill in Sao Paulo, Brazil.

global South has been the Clean Development Mechanism (CDM) negotiated under the United Nations Framework Convention on Climate Change. The CDM stimulates the spread of clean energy technology by creating a market where firms that invest in greenhouse gas reduction can sell their emissions reductions. Such markets for environmental services are being advocated as solutions to local and global environmental problems. The most ambitious market is for carbon emissions, which seeks to reduce emissions of greenhouse gases linked to climate change. My research examines why and how sugar and cement firms in Brazil and India decide to participate in the CDM. Between 2008 and 2011, my research team and I conducted over 200 on-site interviews with corporate managers and other decision makers in both countries. Our goal was to understand the regulatory, economic, and

informational context in which they make decisions about low-carbon investments.

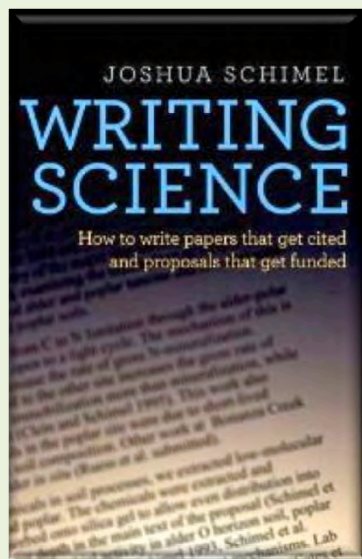
Four key insights emerged. First, despite national policies that favor action on climate change, CDM participation in Brazil and India is relatively low. Second, firms in both nations experience the CDM as highly regulated with a real risk of failing at the registration stage of the approval process. Changes in CDM rules intended to strengthen the environmental integrity of CDM projects had the unintended effect of increasing uncertainty and making firms less like to invest in low-carbon technologies. Third, revenue and reputation were ranked equally by firms as drivers to participate in the CDM. Finally, firms had to be led to the carbon market, a role filled by consultancies. These succeeded or failed based on their ability to establish themselves as trusted sources of information in what firms saw to be an uncertain market. The research comes at a critical juncture in the evolution of US and international climate policy. Developing nations will play increasing roles in shaping international environmental treaties and determining global environmental quality. Understanding decision and risk management strategies firms in developing countries use to make emissions-reducing investments can private sector support in these countries for international action on climate change.



Simone Pulver and Ashvin Chhatbar at the Bagalkot Cement facility in Karnataka, India.

Books, Books, and More Books...

New Book by Dr. Joshua Schimel: ***“Writing Science: How to Write Papers That Get Cited and Proposals That Get Funded”***

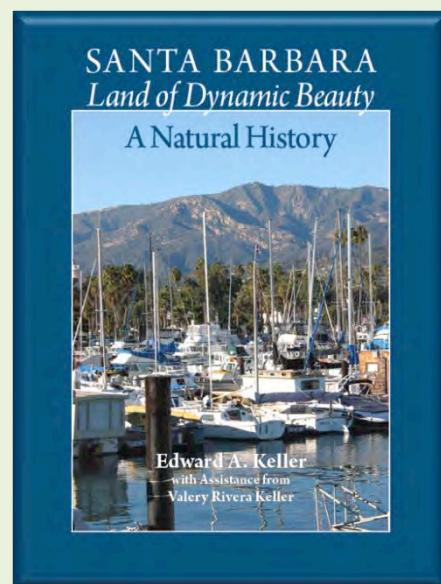


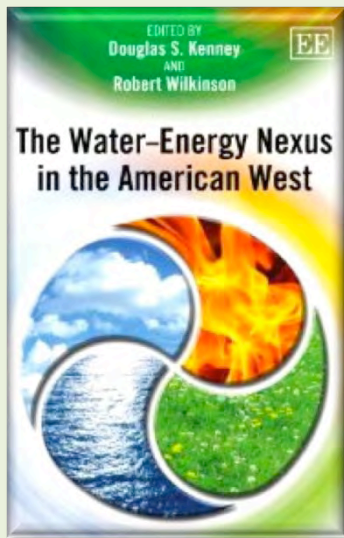
Dr. Josh Schimel's recently published book, ***Writing Science: How to Write Papers That Get Cited and Proposals That Get Funded*** takes an integrated approach, using the principles of story structure to discuss every aspect of successful science writing, from the overall structure of a paper or proposal to individual sections, paragraphs, sentences, and words. It begins by building core arguments, analyzing why some stories are engaging and memorable while others are quickly forgotten, and proceeds to the elements of story structure, showing how the structures scientists and researchers use in papers and proposals fit into classical models. The book targets the internal structure of a paper, explaining how to write clear and professional sections, paragraphs, and sentences in a way that is clear and compelling. The ideas within a paper should flow seamlessly, drawing readers along. The final section of the book deals with special challenges, such as how to discuss research limitations and how to write for the public.

Amazon.com states, *“Writing Science is a much-needed guide to succeeding in modern science. Its insights and strategies will equip science students, scientists, and professionals across a wide range of scientific and technical fields with the tools needed to communicate effectively.”*

New book by Dr. Ed Keller: ***“Santa Barbara, Land of Dynamic Beauty: A Natural History.”***

Dr. Keller states, *“The stories are an extension of my imagination, training, and wish to communicate the natural history of Santa Barbara where I have lived and worked for over 40 years. The purpose of the stories are to present the complex natural history and environment of Santa Barbara within a framework of sustainability. I discuss some of the interesting aspects of our landscape, including: the “Big Picture” of the Santa Barbara landscape; the history of Mission Creek; the origin of Skofield and Rocky Nook Parks; the origin of our coastal lagoons and salt marshes; our natural hazards, especially earthquakes, landslides, and wildfire; and long-term management of land and water resources, such as Goleta Beach and Shoreline park, among others.”*





THE WATER-ENERGY NEXUS IN THE AMERICAN WEST

Edited by Douglas S. Kenney, University of Colorado School of Law and
Robert Wilkinson, University of California, Santa Barbara, US
New From Edward Elgar Publishing

The nexus between water and energy raises public policy questions that go far beyond water and energy. Economic vitality and management of scarce and precious resources are at stake. This book contributes to the body of knowledge and understanding regarding water, energy, and the links between them in the American West and beyond. The research and analyses shed new light on the choices that must be made in order to avoid unnecessary harm as we develop and manage water and energy systems to meet public needs in an ever changing environmental and economic climate.

Indeed, the book shows that thoughtfully designed new technologies and approaches can help restore damaged environments and provide a range of benefits. The focus is the American West, but many of the lessons are global in their applicability. After a broad, stage-setting introductory section, the volume looks first at the use of water for energy production and then follows with chapters on the role of energy in water projects. The final section looks at the way forward, providing cases and recommendations for better, more efficient linkages in the water-energy nexus. Students and researchers in economics, public policy, environmental studies and law along with planners and policymakers will find this accessible and very current volume invaluable.

The **30th Annual Manley Memorial Lecture**, titled "A Path Forward on Climate and Energy", was given by Daniel P. Schrag last May 9. He is the Director of the Harvard University Center for the Environment and Professor of Earth and Planetary Sciences and Environmental Science and Engineering. Dr. Schrag studies climate and climate change over the broadest range of Earth's history. Among various honors, he was named a MacArthur Fellow in 2000. He currently serves on President Obama's Council of Advisors for Science and Technology (PCAST).

Dr. Schrag's lecturer was based on geologic records of climate change, as well as observations of neighboring planets, which provide a variety of important lessons that can assist in evaluating the risks of future climate change. In general, the uncertainties in our understanding of the climate system are biased towards lack of knowledge about catastrophic events. In this context, a variety of strategies will be explored toward meeting the world's energy needs, preserving economic prosperity and security, with the smallest possible impact on our atmosphere, as well as considering what strategies we might require if climate change is more dramatic than we expect. In particular, the hard choices that confront U.S. climate policy will be considered in the context of the political battles shaping up between coal and natural gas interests.



2011 CHANCELLOR'S AWARD FOR UNDERGRADUATE RESEARCH

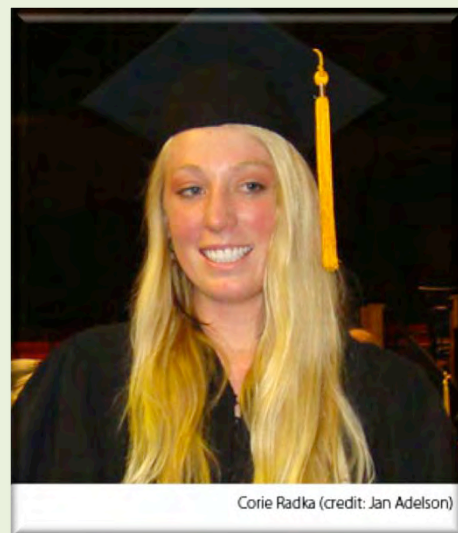
Established by the Office of the President of the University of California, these awards provide recognition to graduating seniors and a faculty member who have distinguished themselves through their excellence in and contribution to undergraduate research.

Corie Radka is the recipient of the Chancellor's Award for Excellence in Undergraduate Research. Corie, who received a B.S. degree last December with a double major in Environmental Studies and Zoology, has worked on Professor Cleveland's Santa Barbara County Agrifoods Systems project since 2009.

Corie's collaboration with Professor Cleveland resulted in her co-authoring an article published in *Environmental Science & Technology*, titled "Effect of Localizing Fruit and Vegetable Consumption on Greenhouse Gas Emissions and Nutrition, Santa Barbara County." They found that more than 99% of the produce grown in Santa Barbara County is exported and more than 95% of the produce consumed in the county is imported. The research shows that a large amount of locally grown produce does not necessarily translate into decreased greenhouse gas emissions, or into local access to the locally grown food.

Professor Cleveland says that Corie's skills, enthusiasm, and willingness to learn were critical to the success of the project. She focused on the environmental impact of the Santa Barbara County agrifood system, especially greenhouse gas emissions and the effects of diet choice. Corie spent three quarters conducting the research, becoming familiar with the subject area and current literature, contacting experts in the field, devising a method to calculate emissions, and reviewing the manuscript before it was submitted for publication. Professor Josh Schimel, the chair of the Environmental Studies Program said "Corie has done important work that makes a substantial contribution to environmental scholarship at a national and international level."

Corie says that the work has prepared her for research, public speaking and general decision-making. Her plans are to attend graduate school and study the impact of agriculture on wildlife habitat.



To find out more about the UCSB Environmental Studies Program, its students and faculty, news and upcoming events, visit the ES web site: <http://www.es.ucsb.edu/>

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Commencement 2011



The 2011 ES Commencement Reception and Award Ceremony was held under sunny skies on June 11 in the UCSB Music Bowl with ES Professor and Chair, Joshua Schimel, and Professor Carla D'Antonio presiding. Eric Zimmerman, ES Academic Coordinator and class of '94, rounded out the event with remarks about the class which included these facts: The official tally of 2011 graduates with a major in Environmental Studies or Hydrologic Sciences the largest ever in our 42 year history. With 251 graduates, the total number of ES Program alumni is now 5,030. The majority of graduates are from California, but there

was a strong contingency of out of state students this year, including residents from: NM, CO, NY, MN, VA, PA ID, MD, CT, HI, UT, and ME. We also had a few internationally graduates representing Ecuador and Switzerland.

2011 AWARDS

Outstanding Senior • Jennifer L. Verhines

Awarded to top graduating student(s) who have demonstrated extraordinary academic excellence and a high level of extracurricular service

Additionally eight students were presented with the **Outstanding Service Award** (ES students who have demonstrated exemplary environmental service within the ES Program and/or the campus and local community), and 52 received **Outstanding Academic Achievement** awards (GPA of 3.5 or higher)!



More 2011 Accolades

Barker Scholarship • Matthew T. Rindermann

Awarded to help support unpaid environmental internships of those students who demonstrate exceptional motivation

Marc McGinnes Law and Advocacy Scholarship • Christina S. Tobacco

In recognition of outstanding academic achievement in environmental law courses and outstanding environmental service and leadership

Tom Rogers Scholarship • Katie Kasatkina

Awarded to continuing ES students based on personal efforts that embody the ideals of civic responsibility and environmental stewardship

Charles Decker Memorial Scholarship • Alexandra D. Yang

Provided to enable student's participation in wilderness field study in the area of wildlife management or environmental conservation

Phi Beta Kappa Nominations, ES Majors • Jeannette Smith and Jake Young

Recognizes and encourages commitment to excellence in the liberal arts and sciences

Below, ES award recipients pose, certificates in hand, with Professor Schimel, E.S. Chair (center).



The ES Program is most grateful for the following award and scholarship support:

- Outstanding Senior Award: Tim Olson, ES '88
- Barker Scholarship: The Coeta and Donald R. Barker Foundation
- Decker Scholarship: The Decker Family and Friends
- McGinnes Law & Advocacy Scholarship: Greg Mohr, ES '76
- Tom Rogers Scholarship: Alumni and Community Supporters



Environmental Studies 40th Anniversary

On April 23 and 24, 2010, the UCSB Environmental Studies Program celebrated 40 years and 4800 graduates. The notable event began with an opening reception on the Bren Hall terrace with remarks by UCSB Chancellor Henry Yang, MLPS Dean Pierre Wiltzius, ES



Chair Joshua Schimel, and Santa Barbara County Supervisor Doreen Farr. The next day included a welcome by Congresswoman Lois Capps, panels, a featured talk, *Eaarth: Making a Life on a Tough New Planet* by Bill McKibben, Environmentalist and Author. The day culminated with a dinner and the annual Manley Memorial Lecture, *The Ideal of Environmentalism: The Next Forty Years*, given by Deb Calahan, '81 ES alumna and President of the Heinz Center for Science, Economics and the Environment. More than 200 alumni and friends were at hand to commemorate the occasion. Retired faculty Barry Schuyler, Orin Sage, Rod Nash and Marc McGinnes were among those present. To view videos of talks from the day, go to: <http://vimeo.com/channels/esucsb>

Opening Remarks

ES Chair Josh Schimel introduced Congresswoman Lois Capps who welcomed the symposium



ES PROGRAM AWARDS

2011 Outstanding ES Alumnus Award

Merrilee Fellows, '73 was presented the **2011 Outstanding ES Alumnus Award** this past June.

Merrilee specializes in risk communication for NASA in the field of environmental remediation.

She has a B.A. in Environmental Studies, an M.A. in Environmental Planning and a J.D. with an emphasis on environmental law. Her primary roles focus on communication for JPL's CERCLA project and NASA's Santa Susana Field Lab cleanup, and on Headquarters' activities on climate change adaptation and sustainability. She has served in a number of other environmental positions. She was the Southern California Field Representative for The Nature Conservancy. In that role she acquired thousands of acres to protect endangered species to retain biodiversity. She also served as Director of Regulatory Affairs for Luz, a company that at the time was the world's largest producer of solar thermal electricity. Immediately prior to coming to NASA, Merrilee was a lawyer emphasizing public law, including work on a variety of water law issues.

In earlier jobs, Merrilee taught environmental assessment at the University of Cape Town, South Africa. While with the California Energy Commission she worked on the first successful California State legislation to provide for solar tax credits. And it was more than two decades ago that she was first hired into JPL's then-robust solar program.



2011 ES Outstanding Community Service Award

Darlene Chirman, President of the Board of Santa Barbara Audubon, received the **2011 ES Outstanding Community Service Award**.



Darlene is a habitat restoration biologist, restoring natural areas in the Santa Barbara area since 1996.

Formerly a nurse, Darlene became interested in field biology volunteering with bat biologists while living in American Samoa. She received a Master's degree in Ecology from UC Davis in 1994; her thesis work was in establishment of riparian plant species. Since returning home to Santa Barbara with her husband and daughter, Darlene has managed habitat restoration projects in the area, including Coal Oil Point Reserve and Arroyo Hondo Preserve. She is President of the local Audubon chapter. Darlene serves as Co-chair of the Santa Barbara Task Force of the Wetland Recovery Project, and on the Santa Barbara County Parks Commission.

As President of the Board of Santa Barbara Audubon, Darlene has overseen the partnership with Coal Oil Point Reserve on several habitat restoration projects and the Snowy Plover Docent Program. She has worked with hundreds of UCSB students as restoration interns in projects around Santa Barbara. Many of these are Environmental Studies students.

What Alumni had to say. . .

Some comments from the 40th ES Anniversary Survey

Jonathan Appelbaum, '01

(MES, UCSB, '10: I'm in Bren, so chances are I'll be around for the alumni weekend. (And he was - helped man the sales tables, among other contributions to the event!))



Jacqueline Bolbat, '07: Wildlands Studies Program, Thailand Winter quarter 2007

Samuel Brockway, '09: My experience with the UCSB Environmental Studies Program shaped and refined my academic passion and philosophical beliefs. It also exposed me to an array of professors from an array of fields that I idolized and got to know on a personal level. It is extremely rare to find a major at any school with the vast resources of a large program, while retaining an intimate learning environment as the ES department at UCSB has done over the past 40 years.

Greg Cahill, '07: Loved my time with the folks in UCSB Envi Studies. Learned a hell of a lot and made some amazing friends.

Fran (Fetzer) Harvey, '81: ... The work I am currently doing is straight out of my UCSB degree! I love it and everything I learned is still very pertinent. I am on contract to Dewberry, who is on contract to FEMA, working on Hurricane Ike recovery. My section is processing the 11,000+ Projects in the Galveston Island, Bolivar Peninsula and Houston, TX area. FEMA is a funding agency so all projects at a minimum receive an Environmental, Historic and Floodplain Review.

Wendy (Rockwell) Irminger, '77: Now I wish I'd paid more attention to the last names of my friends in the Environmental Studies Program. My 17 year old has UCSB on her college list (too bad we are out-of-state.) I wonder how many alums have had children attend UCSB.

Tiana Kamen, '08: Viva la ES!! ;)

Maia Kazaks, '08: Thanks for recognizing me with the Outstanding Service award at graduation. I continue to hustle my buns and push for a better world through engaging the populace and energizing my surroundings to be aware of our environment. Currently working half time at a UC Davis botany lab and greenhouse with drought resistant rice, tomato and wheat varieties (and at a gymnastics place, too).

Jeff Loux, '78: I live in Davis with my wife Kerry and three daughters, Kati, Becca and Allie. I am an administrator and professor at UC Davis in Land Use and Natural Resources/Environmental Design. I teach courses including a summer touring class on sustainable cities of northern Europe. My books and research are mostly around water in the urban environmental and sustainable community design.

Kelley Neumann, '06: ES Program ROCKS! ;)

Susanna (McMahon) Shaw, '95: Willing to help volunteer with Environmental Studies program. I am currently the Director of Environmental Safety and Security for Cottage Health System (Santa Barbara, Goleta, & Santa Ynez). I am responsible for environmental regulatory compliance (hazardous materials and waste, medical waste, OSHA, fire department requirements, etc.), disaster planning, and more recently security for all 3 hospitals.

Dave Skjeie, '74: Minored in economics. Now an attorney for Los Angeles County Counsel. Got wife, teenager, dog and season tickets to UCSB MBB.

Kirstyn Werner, '05: I am currently in Grand Cayman working for Ambassadors of the Environment by Jean Michel Cousteau at the Ritz-Carlton, ... Thanks for keeping track of all of us and keeping us informed on the latest news.

Jeff Wilson, '76: congrats on turning 40! and to another 40 and beyond...

Westley Yoshimura, '09: Mr. Zimmerman does a great job running the ES program

Brian Kelley, '75: Great program! Congratulations!

Janice Jagelski, '87: CHEERS to Barry Schuyler, Bob Wilkinson, Paul Wack, Josh Schimel, Bill Freudenburg, Mel Mandalis, Marc McGinnes, Carla D'Antonio, Ed Keller, Rod Nash, Garret Hardin, Jo Little, Eric Zimmerman and all the other outstanding ES Faculty, Lecturers and Staff - YOU'RE THE BEST ES PROGRAM IN AND FOR THE WORLD!

Russell Levan, '84: This really makes me feel old! However, I'm hoping I'm just a tiny bit wiser too!!!

David Livengood, '88: Thank you folks for putting this together for all ES grads! Wow, 40 years! This is a testament to the outstanding Program. I gave a talk recently, and I can hardly believe that I've been in the environmental field for 27+ years. Time flies when you're having fun. Best, David.

David Revell, '96: Still missing Matt Decker, rest his soul. Named my son in his honor!

Leila Salazar-Lopez, '98: Hi Eric and the ES Department at UCSB! After UCSB, I participated in Green Corps and worked at Global Exchange, Amazon Watch and now work at the Rainforest Action Network. I married Ariel Lopez from Chile in September 2003. We just had our first child, Marina Carmen Lopez-Salazar, on April 5, 2009.

Carrie Sandstedt, '96: I am currently working as the National Field Director for the Campaign for America's Wilderness. We work with grassroot

organizations around the country to protect the nation's remaining wild lands as wilderness. Our work includes campaign planning and implementation, communications, grassroots organizing, leadership training, and advocacy. I would be happy to talk with any ES students interested in wilderness or other advocacy work. I can be reached at csandstedt@leaveitwild.org.

Kimberly (Pritchard) True, '99: Wow - I'm 40 too! Congrats to the ES department!

I think it would be fun to know how many ES grads married another ES grad, and what people ended up doing with their degree (or not). Is a Barry Schuyler sailing trip in the works?

Howard "Howie" Usher, '77: I am a whitewater guide on the Colorado River through Grand Canyon (32 years now) during the summer and during the off-season I am a high school biology teacher. I will look forward to the 40th reunion.



ABOVE - ES field trip (Orrin Sage's class?) to Mt. Pinos on top of Mt. Abel, May 29, 1977. In the photo is "Group 5", Tim, Steve, Jim, Dave, Linda, Stephanie and Monica. Photo provided by Monica Smith.

Have something to share? We'd love to include your information in the next newsletter. Send information and photos via email to Eric at zimmerman@es.ucsb.edu or esprogram@es.ucsb.edu.

The Campaign for Environmental Studies

The next Century will be dominated by humanity's need to provide food and resources to a population that and may top 9 Billion. We will need intelligent, thoughtful management of our natural resources and environment: the planets life support system. Students recognize this, which is why ES has more majors now than ever before—over 800. To produce these leaders, ES needs resources, resources that are hard to come by at a time when the State and University are deeply constrained. I therefore ask now for your support for our priority areas:

The Freudenburg Fund: This fund was established to enhance undergraduate education, including field trips and classroom technology. It is named for Bill Freudenburg because he was a model of the ES Professor. Bill was the Dehlesen Chair; both a world-class scholar and teacher committed to using his work to make the world a better place for all people.

The Schuyler Lecturer Fund: It is essential to bring in working practitioners to teach practical skills and to give a perspective on how environmental policy, government and private industry interact; for example Sarah Wan, Chair of the California Coastal Commission taught a class on coastal policy and development. The Schuyler Fund allows us to offer such unique opportunities. This is named after Barry Schuyler, a long-time lecturer in ES.

Endowed Chairs: Chairs allow us to recruit the best faculty in the world, world-class scholars and skilled, dedicated teachers. We will target interdisciplinary thinkers who strengthen the campus as a whole.

We ask for your generous support for our development campaign, to help Environmental Studies reach yet new heights of excellence. For information on how to support ES, go to:

<http://es.ucsb.edu/giving>

or call me - 805/893-7688.

Thank you,
Josh Schimel, Chair

We wish to acknowledge and offer a sincere **THANK YOU** to the following individuals and businesses for their support of various ES efforts in recent years:

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