

Environmental Studies Program
University of California,
Santa Barbara
Volume 3
Issue 1
Fall 2007

ES NEWS



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We'd like to hear from you!

*Please send your news, photos, etc.
for the next ES Newsletter to:
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A Message from Josh Schimel, Program Chair

It has been a busy and successful year for the Environmental Studies Program. Our program grew by almost 100 majors over the last year (to 374 majors). ES is now the largest it has been in a decade and over 100 students graduated last year. We continue to develop the discipline, integrating natural sciences, social sciences, and the humanities into a coherent study of environmental problems and solutions. We have developed new classes to better serve our students: Mel Mandalis created a "quantitative tools" class to incorporate basic math skills training with environmental topics, while Jordan Clark developed a class to focus on the sometimes challenging field of environmental chemistry. Our faculty are leaders on Campus: Carla D'Antonio is the Faculty Director of the Cheadle Center for Biodiversity and Ecological Restoration, while Oliver Chadwick is Chair of the Geography Department. Our faculty are also national leaders: Bill Freudenburg is President of the Rural Sociology Society and led the charge to develop an International Environmental Studies Society to support scholarship and help ES programs around the country interact and trade ideas on how to improve environmental education; Josh Schimel was elected to the Governing Board of the Ecological Society of America. Perhaps the most exciting thing to happen this year, though, is that we are recruiting a new Assistant Professor in "Environmental Politics, Policy, Society, and the Law." This position is the long awaited replacement to fill the gaping void that was left when Marc McGinnes retired.

So, good things are happening in ES, and we are proud of our accomplishments, but we still face challenges. We are working to make our new "Student Resources Hall" into a center for ES activity. Another goal is to increase the number of field trips and hands-on experiences that bring life to ES classes.

We thank you all for your support in making UCSB's Environmental Studies Program a leader that provides the best environmental education in the United States.

- Josh Schimel

Commencement 2007



Prof. D'Antonio and
Frankie Burton

Outstanding Senior Award Costanza Rampini

Outstanding Service Awards

Kristina Faye Boyer
Frankie Lorraine Burton
Amy Jae Sun Lee
Thomas George Minter

Outstanding Academic Achievement

**with Distinction in the Major*

Meredith Mallie Baker
Katia Baumgartner
Kristina Faye Boyer*
Aaron Dean Burdick*
Isabel Alison Kyle Dennis
Alexis Rae Hamilton
Sean Michael Herron
Jenny Louise King
Amy Jae Sun Lee
Megan C. McQueeney*
Thomas George Minter
Sara Louise Nichols
Jennifer Lindsey Pace
Drew Spencer Pekarek
Sarah Dacia Pellkofer*
Casey Brendan Peters
Costanza Rampini*
Lincoln Rideout
Daniel James Rubin*
Polly Uttayaya
Jacquelynn Bree Ybarra
Robert Bobak Waltman*

Barker Scholarship

Coryl N. Dolfen
Julie L. Powell

Phi Beta Kappa Initiate

Isabel A. K. Dennis

This year's ES commencement reception featured addresses by Program Chair Josh Schimel, ESA representative Greg Mohr, Professor Anita Guerrini, Community Service Award winner Linda Krop, alumnus and donor Tim Olson, Outstanding Senior Costanza Rampini, and Academic Advisor Eric Zimmerman. The Program was pleased to provide a rousing sendoff honoring the class of 2007 and their multitudinous achievements.



ES Chair Joshua Schimel addresses graduates and their supporters.

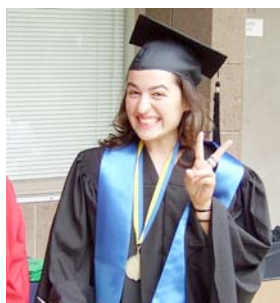
Matthew Decker Memorial Scholarship Amber Conway

Marc McGinnes Law & Advocacy Scholarship Alexis R. Hamilton

Tom Rogers Scholarship Sarah K. Lang

2007 Community Service Award Linda J. Krop, Chief Counsel Environmental Defense Center

2007 Outstanding Alumni Award Susan L. Becker, Class of 1979 Environmental Studies & Political Science



Costanza Rampini
2007 Outstanding Senior



2007 ES Outstanding Achievement Award Recipients

2007 Awards

Outstanding Alumni Award

Congratulations to **Susan Becker, '79**, who was named the 2007 UCSB ES Outstanding Alum. Her exposure to international issues and the environment as a UCSB student provided the educational platform for her multiple, intercontinental contributions to the environmental field.

Susan earned a Masters degree in Environmental Studies, with emphasis in international ecosystem management, from the Yale School of Forestry and Environmental Studies. From 1986 through 1989 she was the Project Manager of Tree People, a California based NGO. She then began a fourteen-year long career with the United Nations Development Program (UNDP), serving first as a consultant and then as the first UNDP Specialist on the Environment. Susan made many relevant contributions to the global environmental community, including organizing workshops on environment and sustainable development in all 120 UNDP countries and implementing the first UNDP internal "greening" initiative.

Outstanding Community Service Award

This past June the ES Program honored **Linda Krop**, Chief Counsel for Santa Barbara's Environmental Defense Center and ES lecturer, with this year's Outstanding Community Service Award. The award formally recognizes



Josh Schimel and Anita Guerrini present Linda Krop with the Outstanding Community Service Award. June 2007

significant efforts in support of our natural environment.

Linda received a BA in Psychology from UCSB in 1979, and a law degree from the Santa Barbara College of Law in 1984. She began her legal career as a staff attorney with the Legal Aid Foundation and joined Santa Barbara's Environmental Defense Center in 1989.

Her past accolades include Sierra Club's Award of Appreciation for Outstanding Achievement, Citizens Planning Association's Community Service Award, Santa Barbara Independent's Local Hero award, Environment Now's Wells Family Award, and she was presented the Conservation Champion Award by U.S. Senator Barbara Boxer in 2005.

~~~~~  
The Residence Halls Association and the Office of Residential Life presented to Professor **William Freudenburg** the **OUTSTANDING PROFESSOR, 2006-2007** award in appreciation of his dedication and contribution to the education of UCSB students from. Congratulations, Bill!

~~~~~  
Professor **David Cleveland** was recently awarded a research grant for a project entitled, "The Value of Land: Agriculture, Food, and Urbanization in the Goleta Valley." The project seeks to develop a methodology for estimating the value of small-scale urban (and peri-urban) agriculture. It also aims to facilitate discussion about the future of food and agriculture in the Goleta Valley. On June 7th, his Small Scale Food Production class hosted its sixth annual "Garden Gathering." Students demonstrated the practical skills they learned in the garden, and of course shared their delicious homegrown dishes.



ES Folk: Taking it Global



Carla D'Antonio went to **Australia** in September as the invited Plenary Speaker at a conference on invasive grasses, sponsored by the Weed Society of Western Australia. She also went to **India** to attend the INDO-US Science Forum, a full week workshop with Indian and international

participants comparing ecological and cultural concerns about non-indigenous invasive species.

Josh Schimel's research and travels took him to **Scotland, Austria,** and Washington DC. There he participated in international science planning activities in microbial ecology and arctic science.

Gail Osherenko was in **Bali** for a Synthesis Symposium on the International Dimensions of Global Environmental Change, where she presented a paper on Rethinking Ocean Governance.

David Cleveland and **Daniela Soleri** have been conducting research on trans-gene corn in Oaxaca, **Mexico**. Daniela also traveled to **Italy** for the Slow Food Conference in October.

Mike Osborne, Anita Guerrini, and their son **Henry** went to the **Netherlands** to take part in a conference on "New Visions of Nature" in Wageningen. Earlier in the year, Mike spent a quarter in Cassis, **France** on a residential fellowship at the Camargo Foundation. Anita spent a week doing research in Glasgow, **Scotland**.

This past spring **Eric Zimmerman** embarked on a five day adventure to the warm water lagoons of Baja to visit with, and even touch, mother Gray whales and their newborn calves.



Paul Wack participated in the United Nations World Urban Forum held in Vancouver, **Canada**. He

represented the International Division of the American Planning Association.

Bob Wilkinson spent two weeks in **Spain**, invited by the Spanish government to speak on climate change and water management. In December, 2007, Bob was an invited, participating member of the California delegation to the **U.N. Conference on Climate Change in Bali**.

Conferences took **Susan Stonich** to **Italy** and Victoria, **Canada** this year.

Michael McGinnis has been awarded a Fulbright Scholar Award to teach at the University of **Montenegro's** Institute of Marine Studies in 2008.

Environmental conferences took **Bill Freudenburg** to **South Africa** and **Sweden**. In June he attended the "Beijing Conference on Environmental Sociology" in **China**,

participating as one of ten "Main Invited Speakers." He also visited New Orleans in the



aftermath of Hurricane Katrina, and returned with plenty of data and many incredible photos.



Oliver Chadwick's soil research called for trips to **Easter Island, New Zealand,** and **South Africa** this year.

Kristen Galbreath went to Guanajuato, **Mexico**, to participate in a convergence of North and South American indigenous/folk healers.

Jenny Dugan traveled to the Galician region of **Spain** for an international conference on the ecology of sandy beaches. Despite the beautiful locale, the international group produced two research papers on the global crisis.

Special Travel Report

by **Bridget Lewin**, E.S. Lecturer and Science Education Consultant

My Environmentally Educational Trip to Africa

I traveled to Africa last February with the Jane Goodall Institute (JGI). For two weeks I traveled with a small group of benefactors (Jane's Peak Society) to see the success that the JGI Roots & Shoots program is having in Tanzania. We visited 3 schools (two elementary and one secondary) in which the students had organized "Roots & Shoots" Environmental Clubs on their school campuses. All of the students spoke English and presented articulate and well-organized speeches explaining their visions, beliefs, and their actions to improve local environmental conditions. They saw their actions as a way to positively affect their climate to reduce drought conditions. It was incredibly inspiring to hear about and see all that they are accomplishing.

The Roots & Shoots program is a global project that involves students choosing three local environmental issues to work toward improving. Dr. Jane Goodall and others are finding that this program is producing young people with the leadership skills to make positive changes in their own lives and in their communities. Long-term benefits include students pursuing university degrees and then advocating for the environment through their chosen professions.

More information about Roots & Shoots can be found at: **www.rootsandshoots.org**.

On this JGI trip we were treated to an incredible safari experience in Tanzania that included the Serengeti Plains, the Ngorongoro Crater, and Gombe National Park. In Kigoma (near Gombe) we met with Dr. Goodall and visited the chimpanzees she has dedicated her life to studying and protecting for over forty years.

As an extra benefit, I was invited by the JGI trip leader, Santa Barbara native Ms. Lori Robinson, to participate in an incredible grassroots environmental project that she has co-organized with a Tanzanian woman from Arusha, Anna Masoud. They originated and maintain a project in which Lori organizes the delivery of hundreds of canvas tote bags (all donated by American citizens) to exchange for thousands of plastic bags that have



Bridget Lewin traveled to Tanzania, met Jane Goodall, and visited schools where Goodall's "Roots & Shoots" environmental education program is experiencing great success.

littered the countryside. Anna organizes activities on market days when the community members are given one American tote bag in exchange for every twenty-five plastic bags they turn in.

It is a simple solution to a problem that at one time seemed insurmountable. In the two days we went to the local market to distribute bags, we gave away over a thousand tote bags and collected over 20,000 plastic bags. It was an incredible demonstration of how a few people with ingenious ideas can truly make a difference. As a follow-up, upon returning to Santa Barbara, I learned that the government of Tanzania was planning to ban all plastic bags.



Anna Masoud distributing tote bags on market day.

Environmental Studies Field Trips



Professor D'Antonio's
Fall 2007 ES 119 class.

To experience California's natural splendor outside the classroom, look no further than the enticing course offerings in the Environmental Studies Program! From Sierra Nevada to Pacific Ocean, ES professors integrate field trips into class curricula, introducing students to fascinating ecosystems, flora, and fauna.

* * *

Professor Carla D'Antonio's "Resource Ecology and Management" class traversed California's ecosystems during their Friday field trips. They visited beach, marsh, grassland, oak woodland and chaparral communities to learn about the valued services of ecosystems. They met with resource managers to find out how agencies and private ranchers manage their lands for biological diversity. The class spent a three-day weekend visiting the Mojave and Great Basin deserts and the eastern Sierra Nevada. They examined the impacts of land uses on desert environments, and spoke with Forest Service employees about the challenges of managing arid landscapes and the mountains for multiple uses.

Highlights of the trip included a visit to see the oldest trees on earth, the Bristlecone pines.

* * *

For students craving local exploration, Professor David Cleveland teaches "Small-Scale Food Production." This course combines classroom theory with hands-on work in UCSB organic community garden, run by the UCSB Greenhouse and Garden Project. The class also takes field trips to local farms to compare the ways farmers apply the principles studied, and to better understand the challenges of small-scale agriculture. Visiting local farms, and even helping with some of the work, provides unique insights into food production.



Shu Takikawa (far left) and Noey Turk (kneeling far right) of Garden of....?/Yes Yes Nursery give SSFP students some advice for

The ES 166FP students visited four farms: Chris Thompson's farm and Fairview Gardens in Goleta, The Garden of....?/Yes Yes Nursery (yep – that's the name!) in Los Olivos, and Tom Shepherd's farm on the UC Sedgwick Reserve. Topics discussed with farmers covered managing soil carbon and

plant nutrients by composting and adding amendments; optimizing water use with mulches, cropping patterns and irrigation; managing pests by using intercropping, crop selection, organic pesticides, and biological control; marketing to optimize income, including using farmers' markets, institutional sales, and wholesale distributors; balancing the market prices for produce with the desire to pay farm labor fair wages; and the conflict between agriculture and urban growth over water and land, considering its implications for the future of small-scale farming.

* * *

Professor Mel Manalis' ES 2 honors section visited Platform Irene off the coast of Pt. Pedernales. The class learned about the oil industry, energy harvest, production, and use. An important consideration is balancing the Nation's energy needs with the environmental impacts of energy production.



ES 2 honors section at Platform Irene.



Student Affairs Corner

Meet the Peers

Sarah Bresko and Jamie Jones are seasoned Peer Advisors equipped and eager to assist prospective and declared Environmental Studies majors with virtually all aspects of a students' ES career. Working closely with Academic Advisor Eric Zimmerman, the Peers are well qualified to assist students with declaring ES as their major, planning course schedules, preparing petitions for degree requirements, filling out change of major and double major petitions, reading New Student Profiles, and coordinating outside concentrations. They also help with general questions about ES requirements, Study Abroad opportunities, graduate school information, and understanding the difference between the BA and the BS degrees.

The ES Peers host weekly mixers for all ES and prospective students. These gatherings, in Bren 4016, provide a wonderful opportunity to mingle with other students, interact with professors, enjoy tasty snacks and have the knowledgeable peers answer questions about the ES Program at UCSB.

Sounding off about the Class of '07

Another successful year has passed, our 37th as an academic program at UCSB. I'd like to to share some facts about the graduating ES class of 2007:

- There were 107 graduates in 2007, increasing our total number of Program Alumni to 4,361 - Way to go!
- Of these 107 students: 87 received Bachelor of Arts degrees, 13 earned Bachelor of Science degrees, and 8 received the B.S. degree in Hydrologic Sciences.
- 14 students graduated with a double major from disciplines including: Geography and Physical Geography, Political Science, Aquatic Biology, Bio-Chemistry, Anthropology, History, Art History, Sociology, and English.
- In addition to Californians, we had graduates hailing from Connecticut, Hawaii, and two from Ohio. Three students left their homes in Switzerland, Italy and France to join the ES family.

As usual, our students were active participants in the I.V. Chapter of Surfrider, CalPirg, A.S. Recycling Program, Shoreline Preservation Fund, and Environmental Affairs Board (EAB). ES students were also instrumental in passing The Green Initiative Fund (TGIF), which will apply a \$2.60 fee per student per quarter to raise funds for projects that reduce the University's impact on the environment. Way to go Class of 2007!

-- Eric Zimmerman, ES Student Affairs Officer,
Class of '94



ES 194GB: The Santa Barbara Green Business Program

Students enrolled in Environmental Studies 194GB are applying their UCSB education to countywide environmental issues with their project, the Santa Barbara Green Business Program. This cross-disciplinary group is working on a project spawned by Alyssa Go's ('06) ES senior thesis. Nahmyo Thomas, Monica Altmaier, Stacy Motenko, Kevin O'Donnell, Rachel Roesch, Chelsea Sauer, and Scott Stenovich are collaborating with Santa Barbara County and the Community Environmental Council to develop energy- and money-saving strategies for businesses in Santa Barbara County cities. The project targets office/retail, hotel, restaurant and automotive segments of the regional economy.

The 194GB group has been working with a steering committee of five county representatives to launch the Santa Barbara Green Business plan, which is targeted for full operation in January 2008. This team has currently secured 75% of the \$40,000 required for the first year of operation. The members have also compiled a reference guide businesses can use when buying from green product vendors.



Supporting ES. . .

The Environmental Studies Program has been most fortunate to receive generous and regular support from alumni, friends and community and campus members who recognize the value of the Program.

The goal of ES has always been to provide our students with the best possible opportunities to learn and develop. We have an outstanding faculty and staff; people who are talented, dedicated, and effective. There are goals, however, that we are struggling to accomplish in a time of tight resources. Your support will ensure that we provide our students the enhanced education they deserve.

Interested In giving to E.S.? Your tax-deductible donation (payable to UC Regents) will support projects and activities such as:

- **Schuyler Lecturer Fund** - This fund was created to honor Environmental Studies Lecturer Emeritus Barry Schuyler, and through him to honor and support Lecturers in the ES Program.
- **Marc McGinnes Environmental Law and Advocacy Scholarship Fund** - To honor Marc on his retirement, and to support talented students who are interested in careers in environmental law, we established the Marc McGinnes Environmental Law and Advocacy Scholarship Fund to support one aspiring environmental law student each year.
- **Student Resource Hall** - With our move to the Bren Building, we acquired a wonderful, large, open hall to use as a student resource room and lounge. We want to turn it into a high quality assembly room that will allow students to work and study effectively as well as build interactions among fellow students and with faculty.
- **Field Trips and Outside Activities Fund** - Nothing can replace going into the field and getting your "hands dirty" for really learning about the environment. If a picture is worth 1,000 words, then an experience is worth 1,000 pictures. For a student, spending time in the field is an opportunity to interact with, and get to know, faculty that can never be matched in the classroom.
- **Student Development Functions** - ES provides regular activities to help student interactions and growth, and depend on outside funding to be able to offer these event
- **Endowed Chair in Environmental Studies** - An Endowed Chair provides a spectacular opportunity for Environmental Studies to recruit world class faculty to campus and thus to enhance environmental scholarship on campus and to provide extraordinary opportunities to our students.
- **Unrestricted Funds** - An 'unrestricted' gift helps to cover the important aspects of the ES academic mission for which there are not other sources of funding.

To find out more about each, visit the ES web site: http://www.es.ucsb.edu/general_info/giving.php

For unrestricted giving or donations to any of the target areas listed above you may send a check payable to "UC Regents". Please make sure you indicate clearly which area you wish to support or note "unrestricted." Send your check to:

Josh Schimel, Chair

Environmental Studies Program - MC 4160,
University of California Santa Barbara, CA
93106-4160
(805) 893-4505

OR contact **Dan Oh**

Director of Development and Alumni
Relations Engineering & the Sciences
(805) 451-4875 or (805) 893-7223
dan.oh@ia.ucsb.edu

Thank you for your support and consideration! Please do not hesitate to contact ES Program Chair, Josh Schimel, or Program Manager, Jo Little, if you have any questions about giving to the Environmental Studies Program at UCSB.

Thank you to our Donors!

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

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Mr. and Mrs. David Abramson
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Ms. Kara M. Wooldrik
Mr. Eric D. Zimmerman
Ms. Seyburn Zorthian

Distinguished Guests

Manley Memorial Lecture



The 26th Annual Manley Memorial Lecture was presented by John W. Day, Jr., Distinguished Professor Emeritus, from the Dept. of Oceanography and Coastal Sciences at Louisiana State University. His talk, "Lessons from the Mississippi delta about ecosystem restoration, hurricanes, civilization, and ecology in times of scarcity" was an overview of energy issues as they relate to coastal wetlands ecosystem functions. The audience included the Environmental Studies 190 course, ES faculty and staff, and guests from the UCSB Campus and Santa Barbara community. Dr. Day addressed an array of issues including global climate change, wetlands

productivity, implications of wetlands loss, the efficiency of alternative energy sources, and rebuilding the New Orleans levee and canal systems after Hurricane Katrina.

Following the well-received lecture, the Program hosted a dinner at the UCSB Faculty Club to honor the distinguished speaker, as well as the long-time tradition of offering the Lecture. The Steven Manley Memorial Lecture series was established 26 years ago by the family of Steven Manley, a 21 year old ES major who died in 1979 while battling a brush wildfire near Santa Maria.



Jerry Honawa, Hopi Tribal Elder, visits ES



Mr. Jerry Honawa, a Hopi tribal elder, farmer and educator visited the ES Program from his village in Hotevilla, Arizona on May 21, 2007. In a noontime talk, "Hopi farming for the Future," Mr. Honawa described traditional Hopi farming methods and how the life cycle of the maize plant relates to human development.

Mr. Honawa also spoke to the ES 190 class in a talk titled "Native American Rights: Coal, Water, and the Environment." He opened his discussion of the Black Mesa mining ssue with Pai Yee Siw Ni, the Hopi Declaration of Water. The spirit of this declaration that "water is the sustainer of all life," to be honored and respected as a "sacred and life-giving gift from the Creator of Life," framed Mr. Honawa's discussion of why and how the Black Mesa Trust, a Hopi organization founded in 1998, has been fighting Peabody Energy's mining operation on Black Mesa. Peabody, the world's largest private coal mining company, used 3.3 million gallons of potable ground water a day from below Hopi lands to move coal to Southern California Edison's Mohave Generating Station until December 2005, when it suspended operations due to the closure

of the Mohave Station. Peabody paid \$0.79 per acre-foot for this water. Currently, Peabody is seeking ways to reopen the mine at Black Mesa, while many Hopi are looking for more sustainable ways to produce energy. One of Mr. Honawa's key messages is, "We need to slow down and be careful of our resources. We need to respect water. Water will give you life, but will also take your life. You need to respect, honor and treat it as you would your life."

To top off the day, a dinner for Mr. Honawa and guests was given by Professor Thea Cremers at her home.