

Environmental Studies

UNIVERSITY OF CALIFORNIA, SANTA BARBARA



MESSAGE FROM THE CHAIR



Last year was extraordinary for the Environmental Studies Program. We grew to over 500 majors and are excited so many students are choosing ES. We recruited three wonderful new faculty members. Simone Pulver from Brown University has degrees in Physics, Energy and Resources, and Sociology, from Princeton and Berkeley. She studies how non-governmental organizations interact with industry to affect environmental policy. Peter Alagona has degrees in History and Geography from Northwestern, UCSB, and UCLA. He studies endangered species and water policy in the US West. Peter replaces Anita Guerrini who took an Endowed Chairship at Oregon State — we were sad to lose her, but proud of her. Finally, many

of you know Bob Wilkinson; he has become a permanent ES faculty member after teaching for us for years. Bob is influential in California environmental policy and is an outstanding teacher.

ES faculty were also instrumental in founding a new organization, The Association for Environmental Studies and Sciences, which will foster interdisciplinary education and scholarship nationally. Launching a new Society highlights how far we've come and how far we will go.

We are proud of the year's accomplishments, but we face great challenges from growing interest in the environment during an economic crisis. We are trying to keep classes open to all who want to take them, to keep enough small classes so that students can get to know their faculty, and to increase field trips and hands-on experiences that bring life to ES classes.

We thank you all for your past support, and hope we can count on future support in keeping the UCSB Environmental Studies Program a leader that provides the best environmental education in the United States.

- Josh Schimel, Chair
Environmental Studies Program

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COMMENCEMENT 2008

The 2008 ES Commencement Reception, held on June 14 in the UCSB Music Bowl, was attended by a record number of students, family members and friends. Professors D'Antonio and Guerrini hosted the event; Greg Mohr ('76) addressed the crowd on behalf of the Environmental Studies Associates (ESA); and Eric Zimmerman ('94), Student Affairs Officer and Internship Director, provided a multitude of facts regarding the honored seniors.

- There were 107 ES graduates
- 77 B.A. degrees
- 22 B.S. degrees
- 8 B.S. Hydrologic Sciences degrees
- 10 graduates had a double major
- 20 graduates had official minors

The ES Program is experiencing a boom in popularity among the UCSB student body. According to the 2008 Fall quarter census, the ES Program has 461 declared majors, and the current number of ES alumni is now 4,424.





2008 ES SCHOLARSHIP AWARD DESCRIPTIONS AND RECIPIENTS

Outstanding Senior Award

Awarded to the top graduating student who has achieved academic excellence within the Environmental Studies major, and who demonstrates a high level of extracurricular service.

Melinda A. Clark

Outstanding Service Award

ES students who have demonstrated exemplary environmental service within the Environmental Studies Program, the University community, and/or the community at large.

*Sarah A. Bresko
Kristen A. Gravelle
Maia H. Kazaks
Ryan A. Kintz
Nina V. Salvador
Juliette A. Wigley*

Phi Beta Kappa Initiates - ES Majors

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

*Christina Simmons, Lauren
Broudy, Amy Stonestreet*

J. Marc McGinnes Law and Advocacy Scholarship

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

Jill Jaffe

Tom Rogers Scholarship

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

Christina Elles, James Mrohs

Coeta and Donald Barker Scholarship

This scholarship is awarded to qualified UCSB undergraduates majoring in the area of environmental studies who demonstrate exceptional motivation, and is intended to assist those who choose to enroll in unpaid environmental internships.

Jenna Driscoll, Stephanie Timm

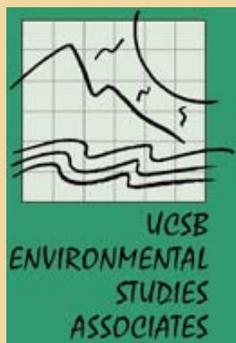
Outstanding Academic Achievement

ES and Hydrologic Science seniors who have completed their major and college requirements with an outstanding overall GPA of 3.5 or higher.

*Carlos D. Barragan
Nicole T. Behesnilian
Elyse A. Bekins
Charles B. Botkin *
Sarah A. Bresko *
Lauren A. Broudy
Kelsey L. Catlin
Elliott J. Deal
Coryl N. Dolfen
Sarah E. Finstad
Brian W. Graham *
Jill N. Jaffe
Jamie L. Jones *
Joey H. Lecky
Dean W. Levy
Scott W. McGaw
Lauren A. Pilholski
Julie L. Powell
Justin H. Reed
Andrea R. Romano
Emily A. Ruby **

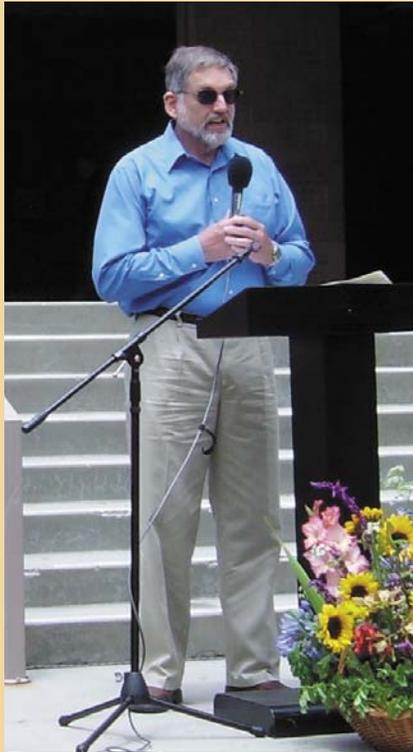
* - with distinction in the major

MARK YOUR CALENDAR!



The ES Program will be celebrating its **40th ANNIVERSARY** in April 2010, in conjunction with the UCSB All Gaucho Reunion. The ES Program and the ESA have begun planning a series of events which will include notable guest speakers, gatherings, and an opportunity to see how the field is developing. More information will be distributed closer to the date . . .





Steve Oliva speaks before the 2008 ES graduating class.

2008 ES OUTSTANDING ALUMNUS AWARD

After graduating in 1972 with honors from UCSB, with degrees in Environmental Studies and Geography, **STEPHEN E. OLIVA** began his career with the State of California. He held a variety of positions in environmental and natural resources conservation with Caltrans, the Energy Commission and the Air Resources Board. He subsequently served as a Special Assistant to the Secretary for Resources, and on assignments as a Special Assistant to the Directors of Forestry, Parks and Recreation, and Conservation. At the same time he also served as a Governing Board member on the California-Tahoe Regional Planning Agency and on the Governing Board of the Tahoe Regional Planning Agency.

Beginning in 1981, Mr. Oliva worked for the Department of Conservation as the Manager of the Land Conservation Unit, and from 1987-1989 he was Chief of the Division of Land Resource Protection. After successfully completing his law degree in 1993 Mr. Oliva began the practice of law as a staff counsel with the Department of Conservation, and was appointed Chief Counsel in 2006. Today he is considered the state's legal expert on issues relating to the Williamson Act and land conservation efforts.

Also a veteran of the United States Army, Mr. Oliva served as a Medical Corpsman, including a tour in Vietnam in 1967-68.

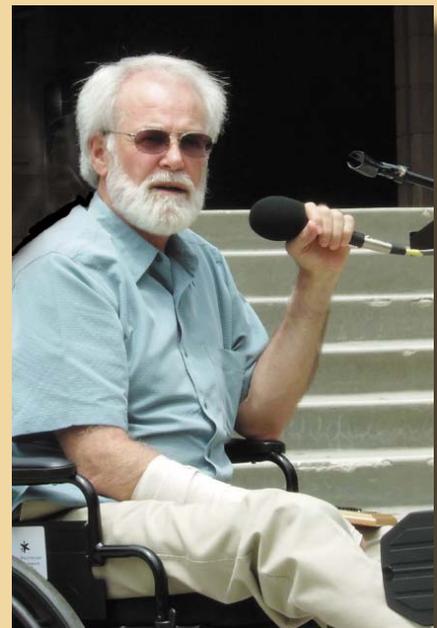
Mr. Oliva is married; his wife, Susan Ellis, is manager of the Invasive Species program at the California Department of Fish and Game. They have two daughters, Stephanie and Mary.

2008 ES OUTSTANDING COMMUNITY SERVICE

Born and raised in San Diego, **MIKE LUNSFORD** grew up exploring the local hills and beaches and became a competitive surfer before being drafted into the Army in 1965. After 5 years of military service flying helicopters, he attended San Diego State College and graduated with honors while completing a major in geography and minors in history & anthropology.

Mike is a retired State Park Ranger with 25 years of service, 22 of which were spent on the Gaviota Coast. During his tenure he consistently stood up for environmental protection and over a ten year period initiated and managed the planning and construction of Gaviota State Park's award winning trail system. He also obtained grant funding and permits for the construction of a connector trail beneath Highway 101, closing a vital gap between the coastal and interior sides of the park.

In his spare time Mike obtained a law degree from the Santa Barbara College of Law and was a charter member of the Gaviota Coast Conservancy Board of Directors. As the Conservancy's current president Mike continues to fight to protect the Gaviota coast from urbanization, to ensure public beach access, and to preserve the area's coastal watersheds and marine ecosystems. Mike also serves as the Coordinator of the annual Summer Coastwalk event for Santa Barbara County.



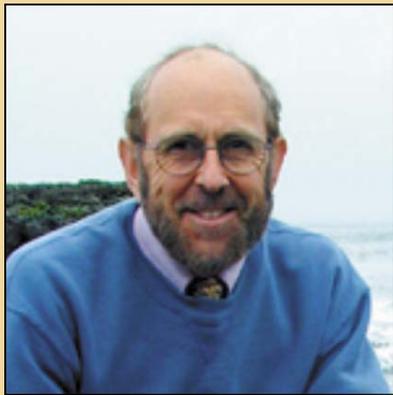
Mr. Lunsford, recovering from a recent accident, accepts the 2008 ES Community Service Award.



27TH ANNUAL MANLEY MEMORIAL LECTURE

The UCSB Environmental Studies Program hosted the 27th Annual Manley Memorial Lecture on April 21, 2008 in Chem 1171 on the UCSB campus. Professor James P. Kennett gave a talk titled "Environmental and Biotic consequences of Major extraterrestrial impact over North America 12,900 years ago"

Those packed into the lecture hall heard remarkable, widespread geological and archaeological

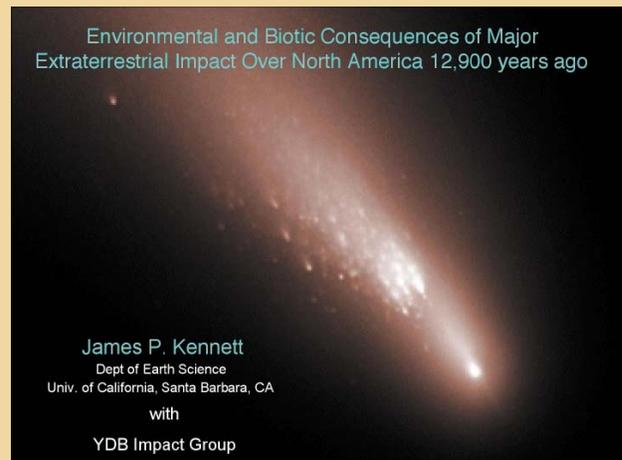


evidence for a major extraterrestrial collision over North America 12,900 years ago. Massive energy release from this impact caused continental-wide wildfires and other severe environmental changes. The YDB (Younger

Dryas Boundry) ET impact hypothesis appears to be consistent in explaining at least three major events that have long puzzled the scientific community: 1) the massive, abrupt extinction over North America of many large mammal (e.g. Mammoths, camels, sloths, saber tooth cats) and bird taxa; 2) the abrupt disappearance of the Clovis Culture, the first widely

distributed peoples of North America; and 3) the triggering of abrupt cooling over broad areas of Earth and associated major change in ocean circulation.

Jim Kennett is Professor Emeritus in Earth Sciences at UCSB and Research Professor with the Marine Science Institute, of which he was Director from 1987 to 1997. A native of New Zealand, Kennett's work in marine geology and paleoceanography over the last 45 years has assisted with a more comprehensive understanding of major paleoenvironmental and biotic changes that shaped the Cenozoic Era and its stratigraphic record, and of processes involved in this development.



A Bit of Steven Manley Memorial Lecture History . . .

Steven Manley was an Environmental Studies major who attended UCSB from fall 1976 to Spring 1979. While working for his second summer as a firefighter with the California Division of Forestry, he and three other firefighters lost their lives battling a brush wildfire near Santa Maria on August 15, 1979. He was twenty-one years old and in his third year at UCSB at the time.

Steve was an active proponent of the protection and conservation of the environment. It was his chosen field of study and his way of life; he had a deep interest in the outdoors, especially in the sea and in physical activities.

After his death, his family created the Steven Manley Memorial Endowment as a continuing celebration of his life. Since 1981, this endowment

has provided ES the means to host a number of eminent academics, activists, and policy makers including Dr. Thomas Lovejoy, Vice President, World Wildlife Fund; Russell Peterson, President Emeritus, National Audubon Society; Ramachandra Guha, Institute of Economic Growth, Delhi, India; William Ruckelshaus, Chairman & CEO, Browning-Ferris Industries; the Honorable Kim Campbell, former Prime Minister of Canada; Cynthia Moss, Director of the Amboseli Elephant Research Project in Nairobi, Kenya; Mike Davis, Lecturer and Author, Southern California Institute of Architecture in L.A.; and Tundi Agardi, Director, Sound Seas, Washington D.C.

The annual lecture is open to the campus and community members.



SPECIAL TRAVEL REPORT

Mike McGinnis returned in June from a Fulbright Scholar Award to Montenegro, along the Adriatic Sea, in the Mediterranean Basin. For six months, he gave several presentations in countries of the Mediterranean, including a conference presentation in Greece at the *3rd International Symposium on Environment*, a series of public seminars and workshops on the topic of "Climate Change, the Oceans, and Coastal Marine Policy & Management" in Montenegro, Italy, Greece, Albania, and Croatia. He recently received support from the European Union on a grant entitled "Transatlantic Methods for Handling Global Challenges: Managing Biosafety and Biodiversity in a Global World" which is a collaborative project that includes faculty from the US and Europe. He'll be giving three presentations in Europe on climate change and biodiversity loss across Mediterranean-type coastal marine ecosystems in early 2009, and his essay, "Addressing Biodiversity Loss in a Changing Climate: The Significance of Coastal Marine Ecosystem-based Policy in the European Union, the United States, and California," will soon be published in a book supported by the EU.

Montenegro is a self-proclaimed "ecological state" - and ecology is an important part of this new country's constitution. But the country is facing several problems, including coastal urban development, drought, and over-fishing.

McGinnis is studying the five Mediterranean-type ecosystems of the world: in Africa, California, the Mediterranean Basin, Chile and Australia. His Fulbright to Montenegro allowed Mike to focus on the impacts of climate change on the coastal marine ecosystems of the Adriatic Sea, which is part of

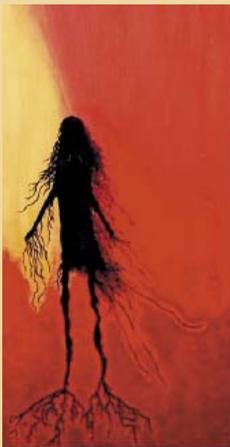


Photo: McGinnis, January 2008. Kotor, Montenegro. Taken from Mike's bedroom window in Kotor, the southern most fjord in Europe.

the Mediterranean Basin.

Mike lived in Kotor, Montenegro which in the southern most fjord in Europe, and a designated UN World Heritage Site. While in Montenegro, he gave several presentations on coastal marine planning and management, and worked with consultants to the European Commission in the development of new public policies and institutions for Montenegro to address aquaculture, the management of fisheries, and their new Integrated Coastal Zone Management Plan. His most recent project has received support by the European Union to foster new partnerships and collaboration between policymakers in California and the EU to address biodiversity loss due to climate change.

Mike McGinnis is a Lecturer in Environmental Studies and Political Science, and an Assistant Program Scientist in the Marine Science Institute.



This past October at the UCSB Faculty Club, Creative Touches, the 2nd Annual Staff Art Exhibit, featured creative works by ES Program Assistant **Jami Nielsen**. Jami creates collage, using found, man-made materials as well as elements from nature. She states she is influenced greatly by the changing world around her, and that her artwork represents homage to hope and transformation, where she envisions a symbiotic relationship between nature and humanity.

Jami received her bachelor's degree in Environmental Science at the University of Kansas, and has been with ES for about a year.

Title: *From the Fire* (2007) - acrylic on found wood



MONKEY BUSINESS

Jo-Ann Shelton

This summer, the ship on which I was sailing from Italy to Morocco stopped at the Rock of Gibraltar. I had the pleasure of being introduced to the “Barbary apes” that live at the higher elevations of the Rock. In truth, they are not apes, but tail-less macaque monkeys. And watching the young monkeys play was more fun than, well, the proverbial barrel of monkeys! The monkeys are native to the Atlas Mountains of Morocco. (The word “barbary” is a corruption of the term Berber, the name of the people who have inhabited north Africa for several thousand years.) In Morocco, these macaques are endangered, particularly because of agricultural and logging activities. On Gibraltar, however, the population of over 200 is protected. No one knows how or when they were imported from north Africa to Gibraltar. There is a traditional belief that, if the monkeys ever disappear

from Gibraltar, the British will lose control of the Rock. (It is a British protectorate.) In the naval hospital recently built on the Rock, one wing is devoted to caring for sick “Barbary apes”.



Dr. Jo-Ann Shelton, Professor Emeritus from the UCSB Classics Department and the ES Program, visits with one of the ‘natives’.

RESEARCH TRAVELS

Last summer **Carla D’Antonio** attended a workshop in La Serena Chile about comparative studies of marine and coastal ecosystems between Chile and California. In addition to meeting many interesting Chilean scientists, she visited some fabulous and unique ecosystems there.

In other travels this past year, she spent several weeks in Hawaii collaborating with scientists from the Institute of Pacific Island Forestry in a long term study of forest degradation in response to invasive grasses and fire.

Prof. D’Antonio presented a talk on “Fire, invasive species and effects on ecosystem processes” at a workshop on Pyrogeography sponsored by the National Center for Ecological Analysis and Synthesis and the Kavli Institute of Theoretical Physics. Along with other workshop participants, she took an all

day field trip to observe some of the effects of the 260,000-acre Zaca fire and recently submitted a manuscript to *Science* on “Fire as an Earth System Process.”



Professor D’Antonio, center, in Chile.



ES 190 – ENVIRONMENTAL CAREERS

2008 marked the sixth year the ES Program focused its fall quarter Current Topics course (ES 190) on the theme of "Environmental Careers."

First proposed by ES Faculty Member, Oliver Chadwick, and ES Academic Coordinator, Eric Zimmerman, the intent was to take the long standing colloquium designed to give attendees insight into the diverse intellectual fields that constitute environmental studies and focus the lectures around the theme of environmental careers.

Based on student interest and course ?, indications are the class has been a tremendous success. Since first offering the course in fall 2003, student enrollment has increased by 30-45% each year. In 2008 225 students enrolled. Students find the course fills a critical role in helping them link their formal academic education to the reality of what awaits them after graduation. As one student noted on his course evaluation, "ES 190 has given me the tools I need to tie everything I have learned together to form a plan that will allow me to help protect the environment and achieve success in any career path that I take in pursuit of that goal."

The design of the course is simple - offer one lecture a week by career counseling professionals on a variety of topics, including:

- Environmental Careers in the 21st Century
- Self-Assessment: Choosing the Right Career for the Right Reasons
- The Second Half of Your Education (internships, field studies, education abroad, networking, etc.)

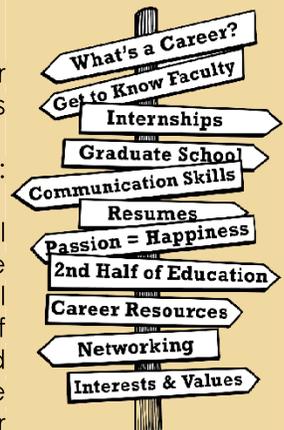
- Intro to Resumes & Cover Letters & Secrets to Success After Graduation

- Attending Graduate School: What, Why, When, and How

But the most successful components of the course are the three environmental career panels at the end of the quarter featuring ES and UCSB alumni, and the unique paths each has taken to their current occupation. Just

this year alone, the students enjoyed talks by two environmental lawyers, the environmental coordinator and compliance officer for a local oil company, the CEO of a startup sustainable development company, and environmental planners from both the public and private sectors. Students find tremendous satisfaction in meeting and greeting practicing professionals who were once sitting in the same seats and lecture halls as they are today, and who have successfully made the transition into environmental careers.

ES 190, Environmental Careers is a unique course on the UCSB campus, one that offers ES students invaluable insight into how they can utilize their undergraduate education and best prepare for life after UCSB. For a closer look, visit the course website at: www.es.ucsb.edu/curriculum_info/es190careers.



ALUMNI CORNER

Keeping up with the past. . .

David James Raphael Mack ('00)

Currently work for the County of Monterey, Resource Management Agency - Planning Department, where I am employed as an Assistant Planner. In this position, I ensure that all proposed project meet county and environmental constraints and regulations, including the State Oakwoodlands Act. I work closely with the Department of Fish and Game, California Coastal Commission, as well as various other internal agencies, including the Parks Department, Water Resources Agency, and Environmental Health Department.

Jeff Wilson ('76)

Member of core working group to develop a global sustainability strategy and implementation plan for Quiksilver.

Patrick Sullivan ('78)

EMCOR Facilities Services, a global leader in mechanical and electrical construction, energy infrastructure, and end-to-end facilities services.

Gregory Benton, Ph.D. ('86)

Is now an assistant professor in the College of Education and Health at the University of Arkansas, Fayetteville.

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



It was forty years ago this January -- Jan. 28, 1969 -- the oil spill from Union Platform A brought international attention to Santa Barbara. Just three weeks later, on February 18, 1969, a group of 21 UCSB faculty members, calling themselves "Friends of the Human Habitat," held the first meeting of an effort that would bring interdisciplinary attention to the study of environmental problems. Their efforts led to the founding of the UCSB Environmental Studies Program -- one of the first interdisciplinary environmental programs of the modern era, and one of the most successful.

There are now roughly a thousand such programs, many of which basically follow the UCSB model, but those programs have long needed to do their work without the help of the kind of professional associations that have been put together for almost every other academic field of study imaginable, from anthropology through zoology.

Just as UCSB played a leading role in establishing the field of environmental studies as we know it today, two of UCSB's faculty members, Bob Wilkinson and Bill Freudenburg, decided to take the lead in establishing the association that has long been needed, and that appears likely to shape the field of environmental studies as we will know it tomorrow. They decided to follow the same advice that we often pass along to our students, namely Margaret Mead's famous observation: "Never doubt that a small group of thoughtful, committed citizens can change the world. In fact, it's the only thing that ever has."

The first step in UCSB's new leadership took place when the Environmental Studies Program (with support from the "Critical Issues In America" program in the College of Letters and Sciences, as well as the Bren School and the Marine Science Institute) hosted the "Santa Barbara Summit on Environmental Studies," on Feb. 23-25, 2006. The Summit attracted over 250 participants, from seven nations, almost all of whom supported the idea of developing a

professional society, but many of whom preferred a "go slow" approach in setting one up.

After two years of "going slow" -- and two more such meetings, the second one at Syracuse University and the third at Arkansas State -- Bob and Bill again took the lead, again working closely with other key people in UCSB's Environmental Studies Program. To make it clear that the Association is open to the full range of traditional disciplines we have always included under the term of "environmental studies" here at UCSB, it is officially called the Association for Environmental Studies and Sciences (AESS -- pronounced "ace"). That acronym also had the handy benefit of permitting us to register a very simple web address (see below).

Chair Josh Schimmel, with support from higher administrators, agreed that UCSB's program could serve as the initial business office. The multi-talented Eric Zimmerman managed to figure out ways to handle most of the administrative challenges - affordably, and without imposing a heavy burden on an already overworked staff -- and he put together an excellent and attractive website. ESA co-president, Greg Mohr, even volunteered to serve as the founding treasurer. Greg and Bill finally managed to figure out the "Catch-22" problems of setting up bank accounts for an organization that did not yet exist in April, 2008 -- at the end of "Earth Day" week, but also close to the end of the academic year on most campuses. Bill worked with Professor Kimberly Smith, of Carleton College, to put together a draft constitution and by-laws (which received a unanimous "yes" vote from initial members), and he is serving as the initial or interim Secretary of the Association.

The organization grew to more than 100 members within a few weeks, and the total stood at 240 by the time classes started again this fall. By now, the membership has doubled again, reaching 480. Early in 2009 -- around the time of the 40th anniversary of that spill -- the organization will be starting a major push to get the word out to the many students, faculty, staff and alumni/nae who have not yet heard the word.

For more information, visit: <http://www.aess.info/>.





SUPPORTING THE UCSB ENVIRONMENTAL STUDIES PROGRAM

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 supporting the academic mission of Environmental Studies at UCSB? Your tax-deductible donation 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.
- **J. MARC MCGINNES ENVIRONMENTAL LAW AND ADVOCACY SCHOLARSHIP:** The ES Program established this scholarship to honor Marc McGinnes on his retirement, and to support each year one talented student who is interested in an environmental law career.
- **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.
- **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 Santa Barbara Foundation". 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 schimel@lifesci.ucsb.edu

or you may contact

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

Here are just a few examples of donations put to use this past year:

- Lauren McCombs' gift provided an overhead projector and other equipment for the new Student Resources Room
- Greg Mohr funded the 2008 J. Marc McGinnes Law and Advocacy Scholarship
- Tim Olson provides funds annually to make the Outstanding Senior Award possible
- Howard and Lisa Wenger gave to support teaching and research activities in the study of quantitative aspects of environmental sustainability
- Janice Jagelski and Pat Morrin provided funding for enhancements and special opportunities for ES students.

We are most grateful for these gifts, as well as those received from each donor listed on the following page. All expressions and levels of support are deeply appreciated.



ES SUPPORTERS

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

Peggy Jo Love House
Mr. & Mrs. David Abramson
American Int'l Companies
G. W. Arnett
Mr. & Mrs. Jerry A. Beresh
Big Brand Water Filter, Inc.
Ann M. Bontempo
Carl P. Bontempo
Brouillard's Inc.
John Buttny
Debra J. Callahan
Mr. & Mrs. Michael Carwana
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Misty M. Gonzales-Williams
Michael D. Wise
Wendy J. Wittl
Janet J. Wolf
Kara M. Wooldrik
Eric D. Zimmerman
Seyburn Zorthian

ESA - Are you a member??

The Environmental Studies Associates (ESA) is a UCSB Community Support Group for the Environmental Studies Program. Consisting of community members, alumni, faculty, and students, the ESA is committed to insuring that the ES Program continues to be one of the finest in the world.

As a member, you will receive invitations to campus lectures and ESA sponsored activities, receive the ESA Newsletter, and most importantly, have the satisfaction of supporting the undergraduate education of tomorrow's environmental leaders.

Website: <<http://www.es.ucsb.edu/people/esa>>