

Bren School news

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MESSAGE FROM THE DEAN



Since the publication of the previous issue of *Bren School News*, which highlighted the opening of our super-green and energy-efficient new building, several very important things have happened.

First, we had an excellent year with respect to faculty recruiting, hiring three new full-time professors and one adjunct professor, all of whom have joined or will be joining us this academic year.

Assistant Professor **Hunter Lenihan** is a marine biologist specializing in coastal marine resources management. Assistant Professor **Christopher Marwood** is an environmental toxicologist specializing in ecological risk assessment. Professor **Oran Young** is a distinguished political scientist who has spent most of his career at Dartmouth. His research covers, among other things, political institutions and environmental governance. And finally, Adjunct Professor **Peter Kareiva**, Lead Scientist at The Nature Conservancy, specializes in ecology and conservation biology.

On the student recruiting front, it has also been a banner year. Fifty-nine new MESMs arrived in September and the quality of the incoming class is excellent. A total of 12 new Ph.D.s arrived as well, six in our new Economics and Environmental Science (EES) track, a joint program with UCSB's Department of Economics that is supported by the National Science Foundation. Ten MBAs are in this year's group going through the special curriculum in Corporate Environmental Management that's administered by the Bren School on behalf of the University of California system (see article on page 4).

It is a goal of the Bren School to be a major center for information and interaction in the areas of environmental science, management, law and policy—a sort of Kennedy School of the west, but with an environmental bent. In order to accomplish this, we have embarked on an aggressive plan to bring major conferences to the School. We already have an active school-wide colloquium series with outstanding speakers, and a newly reconstituted seminar program organized around the MESM specializations and our four faculty research centers of excellence. This is made possible with funds from the Bren Gift, which are used to partially underwrite conferences and to fund the school-wide colloquium and seminar programs. This considerably enriches the student experience, creates research opportunities for students and faculty alike, and establishes relationships with leading policymakers, representatives of industry and NGOs, and foreign dignitaries.



Dennis J. Aigner, Dean

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Bren Hall Featured in "Parade of Green Buildings"

One of the ways in which the new Bren Hall was recognized this year was its inclusion in the third annual Parade of Green Buildings. This two-day event is organized by The Sustainability Project, a nonprofit consortium of architects, interior designers, landscape architects, contractors, and planners in Santa Barbara County who promote "green" building and landscaping practices.

Bren Hall was one of 19 sites—including offices, gardens, the Sanford Winery in the Santa Ynez Valley, the South Coast Watershed Resource Center, the Milton Roisman Jewish Student Center, a factory, a downtown apartment complex, and several residences in Santa Barbara and Santa Ynez—toured by some 900 people on Saturday, October 12. At Bren, visitors watched a documentary video in the seminar room and then toured the new Visitor Center, the Biogeochemistry teaching lab, the Davidson Student Commons, the Dean's Terrace, the courtyard, and the bathrooms, to see how recycled materials were used in both construction and finishes, and how efficient energy systems were installed. Bren School students and staff acted as docents on the tours, which took place every 15 minutes between 10 a.m. and 6 p.m. Bren Assistant Dean of Planning & Administration Mo Lovegreen and Special Projects Coordinator Perrin Pellegrin created the posters and materials on display in the Visitor Center, and organized the tours.

The Parade of Green Buildings takes place over two days. This year's proceedings were kicked off by Bill Browning, an authority on green construction from the Rocky Mountain Institute in Colorado, who delivered a standing-room-only lecture at the Santa Barbara Museum of Natural History on Friday, October 11. After the day-long tours, the event concluded on Saturday evening with a party at Livingreen, a showcase and retail outlet for sustainable building materials. Given Bren Hall's Platinum LEED™ certification, our new building is sure to be a featured site every year. 🌱



Bren Hall's Visitor Center.



Goleta Valley Beautiful Award

In November 2002, Bren Hall was selected by Goleta Valley Beautiful as its award winner in the business/commercial category. Goleta Valley Beautiful, a nonprofit organization founded in 1974, recognizes a residential and a commercial building each month for excellence in architecture and/or landscaping. Bren Hall is one of 12 candidates for winner of the year, which will be selected at GVB's annual luncheon in May. 🌱



Bren Hosts Innovative "Kids in Nature" Ecology Outreach Program



Docent Jenni Kerteston (wife of Assistant Professor Chris Marwood) at a lab station with Adam School students Eileen Espinosa and Selina Lagunas. Photo © Rod Rolle.



Students Isabel Li and Katie Nelson from Los Berros School examine onion cells through a microscope. Photo by Jennifer Thorsch.



Photo of Sedgwick Reserve by Frank Davis.

An innovative, hands-on program for 4th to 6th graders—developed by the UCSB Museum of Systematics and Ecology and Sedgwick Reserve, and hosted by the Bren School—gets students into Bren Hall's new, state-of-the-art **Watershed Science Lab** to study plants, and then out in the field to sow and nurture them in year-long restoration projects, bringing home real lessons in ecology and environmental management.

Two hundred and thirty-five students from eight elementary schools in Santa Maria, Lompoc, and Guadalupe are the beneficiaries of this science project, called "Kids in Nature" (KIN) and funded primarily by a UCSB faculty outreach initiative to serve feeder elementary schools of low-performing high schools.

Now in its second year, the KIN program runs from September through May. Groups of five to seven students, under the guidance of university faculty, staff, and students as well as trained teachers and docents, learn basic plant biology in Bren's Watershed Science Lab. The students then plant and tend seedlings during a series of five visits to **Sedgwick Reserve** in the Santa Ynez Valley, one of six areas administered by Natural Reserve Systems of UCSB.

"The Watershed Science Lab is an invaluable venue for this program," says **Jennifer Thorsch**, Adjunct Professor of Ecology, Evolution & Marine Biology, who designed the KIN program with Mike Williams, Ph.D., and Nancy Emerson of the Sedgwick Reserve. "We are delighted that the Bren School has made it accessible to us."

The enrichment of this program occurs on many levels. The students learn plant biology, which their schools do not offer, and basic principles of ecology and restoration. Their hands-on experience also teaches them about the inseparability of organisms from their surrounding natural systems and the rewards of patient stewardship. They experience the joy of being outdoors, understanding natural processes, watching something grow, and contributing to the restoration of a beautiful habitat. These perspectives dovetail perfectly with the educational mission of the Bren School. In addition, the students' exposure to the UCSB campus excites them about the possibility of pursuing a college education.

The students have written enthusiastic, profusely illustrated thank-you letters about all aspects of the KIN program to their docents—including their fascination with Bren Hall's extensive use of recycled materials. "I learned [that] instead of throwing things away, you recycle," wrote one student. "We learned that 40% of the Bren building was made from recycled items. I was amazed by that fact! The walls were made out of plastic and the counter was made out of broken pieces of glass! Thank you for the wonderful trip," wrote another.

The KIN program has been featured in *Science and Children*, a magazine published by the National Science Teachers Association, and in the *Santa Barbara News-Press*. Professor Thorsch is actively seeking funding for the program so that it may continue to be available to the already identified students as well as offered to additional elementary schools in Santa Barbara County. 🌱



Intercampus Emphasis in Corporate Environmental Management for MBA Students

By Dennis J. Aigner

The intercampus emphasis in corporate environmental management (CEM), now in its fourth year, is a thriving program. During the fall and winter quarters, MBA students from the five UC business schools—**Berkeley/Haas, UCLA/Anderson, Irvine, Davis, and Riverside/Anderson**—and the **Monterrey Institute of Technology** in Mexico, converge at the Bren School once a month for an extended weekend of intensive instruction. In the fall quarter, the students take a specially designed course in Environmental Science (ESM 298) taught by Bren Professor **Frank Davis** and the MESM core law course (ESM 207) taught by UCLA School of Law Professor and Associate Dean **Jody Freeman**. During the winter quarter, the students take Environmental Risk (ESM 286), taught by Professor **Ralph Keeney** of Duke University's Fuqua School of Business, and an elective. Often that elective is another course added to the curriculum as a result of the intercampus program, such as Industrial Ecology (ESM 282), presently taught by Professor **David Allen** of the University of Texas at Austin. The students must also take a course on business strategy that focuses on environmental issues, one version of which is offered at UCLA and another at UC Berkeley. Finally, they all complete the Management Practicum, a 10-20 week consulting assignment under the supervision of Professor **Charles Corbett** of UCLA.

To date, 24 MBA students have gone through the entire program, which was initiated in 1999. Ten are currently enrolled. Practicum projects have included cost-benefit analyses of ISO 14001 certification, development of marketing strategies for green products, and research surrounding non-point source water runoff pollution problems in urban development. Many of the CEM graduates are now employed in positions that reflect the interaction of business and the environment.

This unique program, which engages students and faculty in ways that foster the convergence of science, management, and law, is a manifestation of two of the Bren School's key commitments. One is to create cutting-edge programs that benefit many of the UC campuses. The other is to prepare environmental professionals and managers to function as agents of change in industry, bringing the power and potential of the corporate sector to bear on solving the environmental problems of today and preventing future environmental problems from happening. 🌱



Innovations & Additions

By Laura Haston

New Courses

The Bren School has added some new courses to its curriculum. Assistant Professor **Hunter Lenihan** (see page 7), has introduced two new courses. The first, Applied Marine Ecology (ESM 260), focuses on the application of ecological principles and methods to solving environmental problems in marine ecosystems. The second, Coastal Marine Ecosystem Processes (ESM 254), examines physical, chemical and geological processes in coastal ecosystems, including estuaries that are influenced by human activities. ESM 260 is being offered this winter 2003; both classes will be offered next year.

Another one of our new faculty members, Assistant Professor **Christopher Marwood** (see page 7), offered a seminar this past fall on a subject that will be introduced as a new course, Ecological Risk Assessment (ESM 220), next year. The course focuses on the analysis and characterization phases of risk assessment, and provides students with the skills required to conduct an ecological risk assessment.

Professor **John Melack** has also created a new course, Ecology of Lakes and Wetlands (ESM 253), that will be taught for the first time in the spring of 2003. This course will examine ecological aspects of lakes, wetlands, and their catchments, integrating biogeochemical processes, biological-physical coupling, and population and community ecology. It will also explore applications of remote sensing, as well as ecological models for human-caused impacts and their management.

Finally, a new elective, Environmental Technology Management (ESM 288), taught by Visiting Assistant Professor **Melissa Schilling**, from the Stern School of Business, New York University, has been added for students pursuing a specialization in Corporate Environmental Management. This course will teach students how to make decisions about which environmental technologies to develop, how to source the technologies, and how to successfully bring them to the market.

Law Workshops & Classes

As part of our mission to integrate law into our curriculum, last year the Bren School began offering a series of half-day workshops on Friday afternoons. They proved to be tremendously successful, and this year we have expanded the opportunities for learning about the intersection of law and the environment, beginning with a full-day workshop on October 4 on "Constitutional Law and Civil Procedure," taught by Professor **William B. Rubenstein** from the UCLA School of Law. The purpose of this workshop was to give students core knowledge of the legal system as both a foundation to their understanding of environmental laws and a valuable precursor to the core course Environmental Law and Policy (ESM 207), taught by Professor **Jody Freeman**, who is also from the UCLA School of Law and serves as the Bren School's Associate Dean for Law and Policy.

Five half-day workshops will take place during the winter and spring quarters:

- "Water Quality Law and Policy," taught by **Steven Fleischli**, Executive director of Santa Monica Baykeeper (January 10);
- "Corporate Governance and the Natural Environment," taught by **Eric Orts**, Professor of Legal Studies & Management, Wharton School, University of Pennsylvania (January 16);
- "Environmental Enforcement: Policy and Practice," taught by **Timothy Malloy**, Professor of Law, UCLA School of Law (January 24);
- "Land Use Law and Policy," taught by **Jonathon Zasloff**, Professor of Law, UCLA School of Law (April 25); and
- "Citizen Enforcement of Environmental Law," taught by **Ann Carlson**, Professor of Law, UCLA School of Law (May 9).



Visiting Professor Eric Orts teaching a workshop on corporate governance.

Timothy Malloy will be also teaching a full course on the Law of Environmental Management (ESM 296). This course will introduce students to the legal aspects of the environmental management of typical business operations and activities such as the purchase of real property and assets, product development, production operations, and business expansions.

Visiting Legal Scholars

This year the Bren School is initiating what we hope will become a tradition of hosting a visiting legal scholar for a few weeks each year to teach and engage in scholarly interactions with faculty and students. This winter, we were honored to have Professor **Eric Orts** in residence for the month of January. Eric is Professor of Legal Studies and Management at the Wharton School at the University of Pennsylvania. Eric's most recent work concerns how corporations, environmentalists, and the government can work together on solutions to environmental problems. A book he co-edited in 2001, *Environmental Contracts: Comparative Approaches to Regulatory Innovation in the United States and Europe*, explores an alternative type of regulation that brings businesses, governments, and nonprofit environmental organizations together to forge cooperative agreements. In addition to his workshop on Corporate Governance and the Natural Environment (see above), Eric taught a two-unit intensive advanced topics course on Environmental Contracts.

Intensive Short Courses

Last year Bren introduced intensive one- to two-week, two-unit, short courses. Their success encouraged us to continue offering these additions to the curriculum. Along with Environmental Contracts (see above), Bren is offering four short courses this year. In November, **John Dixon**, lead environmental

economist with the World Bank, taught a course on Environment and Development that examined the links between economic development and environmental management/environmental issues in the context of economic development. New faculty member **Oran Young** and colleagues **Durwood Zaelke** and **Michael Stillwell** from the Center for International Environmental Law will team teach an advanced topics course on Corporate Governance for Sustainable Development during the first week of April (see page 8). Later that month, **Michael Toman**, a senior fellow at Resources for the Future, will teach an advanced topics course on Energy Economics and Policy.

Other Visitors for 2002-03

David Allen, Professor of Chemical Engineering at the University of Texas, Austin, and **Ralph Keeney** of the Fuqua School at Duke University, will both return this year to teach intercampus courses in Industrial Ecology (ESM 282) and Environmental Risk & Assessment, Valuation & Management (ESM 286), respectively.

We are also hosting a number of visitors who will spend a portion of their sabbatical at the Bren School. **Barry Solomon**, Associate Professor at Michigan Technological University, has spent fall and winter quarters at Bren, where he is teaching Political Institutions and Environmental Policy (ESM 248).

Monika Winn, an Associate Professor on the Faculty of Business at University of Victoria (Canada), is visiting the Bren School during winter quarter and teaching Corporate Environmental Management (ESM 281). As mentioned earlier, **Melissa Schilling**, Assistant Professor at the Stern School of Business, New York University, will visit during spring quarter and teach Environmental Technology Management (ESM 288). **Karel Samsom**, Professor at Universiteit Nyenrode in the Netherlands, will also visit

during spring quarter and teach Environmental Marketing (ESM 287).

New Adjunct Faculty Member

Peter Kareiva, one of the most influential conservation ecologists in the world today, has joined the Bren School as an adjunct faculty member this year. During his tenure as a zoology professor at the University of Washington, Peter's research on spatial aspects of population dynamics helped create the field of modern spatial ecology. Throughout his career, he has applied ecological theory to environmental conservation and management, especially to the development and review of habitat conservation plans and recovery plans for endangered species. Most recently Peter has taken a position as the Lead Scientist for the Pacific Division of The Nature Conservancy. Prior to this appointment, he served as Director of the Division of Conservation Biology at the Northwest Fisheries Science Center's Northwest Science Center.

Peter maintains a strong commitment to teaching and mentoring graduate students and in training professional conservation biologists. He will be in residence during the spring quarter, teaching Conservation Planning and Priority Setting (ESM 270), and will participate in the advisement of group projects and mentoring of Ph.D. students.



Silver Creek, Idaho, is a Nature Conservancy Pacific Northwest conservation area comprising over 10,000 acres. Photo © Steve Bly-Idahostockimages.com.

New Faculty Profile: Hunter Lenihan



The Bren School welcomed new Assistant Professor **Hunter Lenihan** to its ranks this past fall. His research interests are in marine community ecology, habitat restoration, and fisheries oceanography. Hunter has concentrated much of his research effort in polar and deep-sea environments. In spite of

his predilection for cold water, however, Hunter's recent research involves restoration of coral reefs—especially those located in the South Pacific—because, in the words of an article he co-wrote for the July 2001 issue of *Science* magazine, “coral reefs are the most structurally complex and taxonomically diverse marine ecosystems, providing habitat for tens of thousands of associated fishes and invertebrates.” His interest in reef ecology has prompted him to examine five proposed ways to decommission oil rigs in the Santa Barbara Channel, including transforming them into artificial reefs.

Hunter's new position at Bren follows his work last year as an Assistant Research Biologist at Marine Science Institute at UCSB. He earned his Ph.D. in marine sciences in 1996 from the University of North Carolina at Chapel Hill, where he remained to teach Ocean Ecology. Prior to earning his doctorate, he received a master's degree from Moss Landing Marine Laboratories, a research facility associated with San Jose State University and six other California State Universities. Hunter has lectured on marine science and ecology in Italy and at various universities around the U.S. He also spent a year as fishery biologist with the NOAA-National Marine Fisheries Service in Newport, Oregon, studying marine reserves and their applicability to fishery management.

Hunter is delighted to be teaching at the Bren School, where the Santa Barbara Channel provides immediately accessible possibilities for research on watershed issues, kelp forests, fishery management questions, oceanographic processes, and large-scale field experiments in adaptive management. He is particularly interested in the impacts of human population, land use, and watershed use on coastal ecosystems. Interestingly, his *Science* article states up front that “ecological extinction caused by overfishing precedes all other pervasive human disturbance to coastal ecosystems, including pollution, degradation of water quality, and anthropogenic climate change,” and goes on to study this phenomenon from 125,000 years ago to the present.

Hunter is currently teaching Applied Marine Ecology (ESM 260). He will also be teaching Coastal Marine Ecosystem Processes (ESM 254) next fall. 🌱

New Faculty Profile: Christopher Marwood



The Bren School is also pleased to welcome **Christopher Marwood**, an Assistant Professor specializing in environmental toxicology, who joined our faculty this fall.

Chris received his Ph.D. in environmental biology in 1999 from the University of Guelph in Canada. His doctoral work focused on using chlorophyll fluorescence to detect toxic effects on photosynthesis in plants and phytoplankton. As a post-doctoral fellow at the University of Waterloo, he examined the impacts of polycyclic aromatic hydrocarbons (PAHs) on phytoplankton in Lake Erie. For his post-doctoral work at Miami University in Oxford, Ohio, he developed transcriptional markers of exposure to PAHs in rainbow trout.

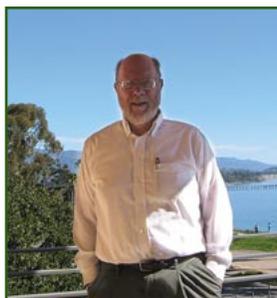
Chris's research focuses on stressors—specifically chemicals and ultraviolet light—and how they show up as markers in biological entities. He is currently outfitting the new toxicology lab in Bren Hall to continue his research on molecular markers of oxidative stress, and will also be working and sharing research with Professors John Melak and Tom Dunne.

Chris says his interest in toxicity dates back to elementary school: his fourth grade science project demonstrated how vinegar killed plants. He studied toxicity in plants until two years ago, when he switched to fish—rainbow trout in particular. He has made frequent trips with fellow researchers to alpine lakes in the Eastern Sierras to study these fish, looking for biological markers—measuring in particular the activity of enzymes in the trouts' gills—to assess the fish's exposure to environmental toxins.

Prior to Bren, Chris taught several short courses in Canada and the U.S., and Fundamentals of Ecology at Miami University. At Bren, he teaches Ecological Effects of Pollution (ESM 213), Ecological Risk Assessment (ESM 220)—wherein he concentrates more on mesocosms (large microcosms) because they yield a greater range of data—and a Ph.D. seminar in Ecotoxicology.

Chris and his wife, Jenni Kerteston, are expecting their first child in February. 🌱

New Faculty Profile: Oran Young



The Bren School is delighted to welcome **Oran Young**, who joined us as a faculty member this January.

A political scientist by training, Oran was previously Professor of Environmental Studies and Director of both the Institute of Arctic Studies and the Institute on International Environmental Governance at Dartmouth College.

He serves as chair of the Scientific Steering Committee of the international project on Institutional

Dimensions of Global Environmental Change (IDGEC) and as co-chair of the Scientific Steering Committee of the Global Carbon Project (GCP). He is also chair of the board of governors of the University of the Arctic. Earlier, he served for six years as the founding chair of the Committee on Human Dimensions of Global Change of the U.S. National Academy of Sciences, and he is a former vice-president of the International Arctic Science Committee (IASC).

His wife, Gail Osherenko, an environmental lawyer, has accepted a position as Research Scientist at the Marine Science Institute at UCSB.

A longtime student of human/nature relations and the institutional arrangements that govern them, Oran is the author or co-author of over 20 books, including *The Institutional Dimensions of Environmental Change*; *Governance in World Affairs*; *International Governance: Protecting the Environment in a Stateless Society*; *Arctic Politics: Conflict and Cooperation in the Circumpolar North*; and *International Cooperation: Building Regimes for Natural Resources and the Environment*.

One of Oran's primary goals at the Bren School will be to establish the Program on Governance for Sustainable Development. The program will provide an umbrella under which he and two colleagues, Durwood Zaelke and Matthew Stillwell from the Center for International Environmental Law, will teach, conduct research, and carry out related activities.

Governance for sustainable development covers the roles that institutions—systems of rights, rules, and decision-making procedures that define social practices—play in addressing and, in some cases, causing environmental problems. The goal of the new program is to bring the intellectual resources of the "new institutionalism" in law and the social sciences to bear on human/environmental relations. A particularly important feature of this endeavor is building bridges between analysts who work in the fields of economics and public choice and employ collective action models, and sociologists and anthropologists who rely on social practice models.

Oran's interdisciplinary and entrepreneurial work brings an exciting dimension to the Bren School and its programs. 🌱



New Website

By March 1, the newly redesigned and updated Bren School website will be running. Please be sure to visit www.bren.ucsb.edu. 🌱

Alumni Contact Update

Bren School alumni are welcome at all Bren School seminars, workshops, colloquia, and receptions, which we announce via e-mail. If you haven't been receiving e-mails from us, it may mean that your Bren e-mail is not being forwarded to your permanent account. To update this information, please log on to our website (www.bren.ucsb.edu) and click on "Services" at the top. Then select "Computing." Under "EMail & Calendaring," click on "Vacation Mail and Forwarding" and follow the directions for forwarding your e-mail. If you do not remember your password, please e-mail request@bren.ucsb.edu.

To update your mailing address and/or employment information, please e-mail connie@bren.ucsb.edu.

If you have not already done so, please come by and visit our new building. We would love to see you! 🌱

While on sabbatical last year from the Institute of Arctic Studies at Dartmouth College, Oran Young taught at the University of Tromsø in Tromsø, Norway—at 70° latitude, the northernmost university in the world. Photo by Chris Hammond.

Bren Alumni in the Working World

Internship Leads to Career Position

By David Parker



Jason Peery '02 in his office at Regenesis.

Jason Peery, a 2002 MESM graduate, turned a productive summer internship into terrific career opportunity. Following graduation last summer, he is now Product Development Manager for Regenesis, a San Clemente, California, firm that specializes in developing, manufacturing, and marketing innovative

remediation technologies that clean up contaminated aquifers (see page 10). Jason was offered his new position after completing a successful summer internship with the company.

Jason took his internship very seriously, seeing it as both an opportunity to learn a great deal and a way to make a strong contribution to Regenesis. When asked what he thought helped him stand out, Jason reported that it was important to be assertive and to ask a lot of questions. He made a point of looking for opportunities and asking "how does this work?" and "why do we do it this way?" He felt the management staff was impressed by his interest, enthusiasm, and desire to learn.

Following Jason's internship, the Bren School received a letter from his supervisor, Stephen Koenigsberg, Ph.D., Vice President of Research and Development. Koenigsberg wrote: "Jason is a credit to your program and served us with a level of excellence on par with that offered by our most seasoned, dedicated employees. [He] cracked a difficult product registration problem in [an overseas country] that was so badly stagnated in the hands of the local consultants that to this moment I am in a state of mild disbelief."

After his summer internship, Jason continued to work for Regenesis as a part-time consultant while continuing his studies at Bren. In his new full-time job, which began last June, Jason continues to investigate potential markets for products and develop effective strategies for marketing new products.

The Bren School wishes Jason every success in his new career. 🌱

Upcoming Events

CONFERENCES & WORKSHOPS

January 25

Greening XII Workshop
Carol McAusland (Bren)

February 20-22

The Nature Conservancy
Pacific Rim Conservation Science Challenges: Joint TNC/Bren Workshop
Peter Kareiva (Bren)

March 7-9

Worldwatch Institute Symposium

March 14-16

Channel Island National Marine Sanctuary
Marine Reserve Monitoring Workshop
Hunter Lenihan & Mike McGinnis (Bren), Sean Hasting (CINMS)

March 20-23

State Legislative Leaders Conference: Leaders Emerging Issues Program

May 30-31

Southern California SETAC Annual Meeting
Arturo Keller (Bren)

August 23-24

Market Incentives Workshop
Charles Kolstad and Jody Freeman (Bren)

COLLOQUIA

February 6

Jeremy Jackson (Professor, Scripps Institute of Oceanography)

February 27

Zmarek Shalizi (Research Manager for Infrastructure and Environment, World Bank)

March 20

Amory Lovins (CEO, Rocky Mountain Institute)
Co-sponsored by the Environmental Studies Program

April 24

Eileen Claussen (President, Pew Center on Global Climate Change)

May 15

Sylvia Earle (Explorer-in-Residence, National Geographic Society)

SEMINARS

January 27

Stan Grant (Chair of Chemical Engineering, UC Irvine School of Engineering)

January 31

William McKelvey (Professor of Strategic Organizing, UCLA/Anderson)
Li Xuyong (NRC Research Associate, USEPA)

February 7

Forest Reinhardt (Professor of Business Administration, Harvard Business School)

February 28

Michael Crooke (President & CEO, Patagonia)

March 3

Ronaldo Seroa Da Motta (Environmental Economist, Brazil)

SPECIAL EVENTS

March 4

"Resource Monopolies vs. Earth Democracy"

Vandana Shiva (Research Foundation for Science, Technology & Natural Resource Policy)

Presented by the UCSB Women's Center; co-sponsored by the Bren School

April 9

MESM Group Project Presentations

Jill Richardson (Student Services, Bren)

May 16

Bren Corporate Partners Summit: "The Business Case for Sustainability"

Bren School 4th Annual Golf Tournament and BBQ: Glen Annie Golf Course

June 15

MESM & Ph.D. Graduation and Reception

Regenesis

The Bren School welcomes Regenesis (www.regenesis.com)—a San Clemente, California, firm that specializes in developing, manufacturing, and marketing innovative remediation technologies that clean up contaminated aquifers—as a new corporate partner. Our liaison from Regenesis is its Vice President, Steven Koenigsberg, Ph.D.

Dedicated to serving the environmental engineering industry, Regenesis was incorporated in 1994 and released its first product, Oxygen Release Compound (ORC®), in 1995. ORC has been applied to contaminated groundwater in over 5,000 sites in the U.S. and numerous foreign countries, and successfully remediates groundwater contaminated with aerobically degradable hydrocarbon solvents such as alcohols and ketones, and some chlorinated solvents such as vinyl chloride.

Regenesis is currently developing Hydrogen Release Compound (HRC™), a product that can remediate groundwater contaminated with anaerobically degradable compounds. HRC breaks down chlorinated hydrocarbons in groundwater, and in field results is proving to be a much faster and effective solution than previously existing methods.

Bren School graduate Jason Peery '02 is on staff at Regenesis, helping to develop new markets for the company's products (see page 9).

Regnesis works with over 200 environmental engineering and consulting firms that use its products on sites owned by oil companies, real estate firms, pipeline companies, refineries, utilities, and transportation companies, among others. Ultimately, the company plans to expand beyond its focus on groundwater into prevention and remediation of a broad range of environmental problems. 🌱

Blasland, Bouck & Lee, Inc. (BBL)

Headquartered in Syracuse, New York, BBL (www.bbl-inc.com) is a privately held, employee-owned, environmental consulting firm with more than 35 offices and 600 employees throughout the U.S. BBL provides environmental, engineering, hazardous waste, facility decommissioning, and other management services. It currently is ranked 12th on *Engineering News Record's* list of the country's top 200 environmental firms, and 40th on its list of the top 200 design firms.

BBL is a leader in the field of contaminated sediment issues, having directed environmental programs at more rivers, harbors, tributaries, lakes, and estuaries than any other firm in the United States. BBL has won awards for its work at sediment sites, including an Engineering Excellence Award from the Consulting Engineers Council of New York State.

BBL participates in numerous technical, professional, and academic associations—including the American Society of Civil Engineers, American Institute of Professional Geologists, National Association of Environmental Professionals, Institute of Hazardous Materials Management, and Society of Environmental Toxicology & Chemistry—which enables the company to share important technical developments and research.

Additionally, BBL has a long-standing commitment to the local, national, and international communities in which it operates. The company and its employees are routinely involved in charity and volunteer activities.

The Bren School welcomes BBL and its liaison, Brenda Sanders, Ph.D., to our program. 🌱



Dean's Council

Tom Umenhofer



Tom Umenhofer, who became a member of the Dean's Council in the summer of 2002, has been an environmental engineer and applied meteorologist for over 28 years, beginning his career in the early 1970s as a research meteorologist

at the University of Chicago with famed tornado expert Dr. T.T. Fujita. For many years Tom was an air quality consultant to industry and government, with expertise in air pollution control and local/federal air quality policy development. He has also been a USEPA instructor in air pollution meteorology and, while serving in Air National Guard, was awarded the Meritorious Service Medal.

Tom is a former municipal planning commissioner and a current member of the Santa Barbara County Agency Formation Commission (LAFCO) and the state-wide CALAFCO Executive Board. He has served on numerous community committees and business boards, and has been a steering committee member for the Calleguas Creek Watershed Management Plan and a past chair of the Ventura County Economic Development Association.

Tom has been an environmental consultant since 1977. In 1993, he founded and served as President and CEO of Sierra-Pacific Environmental, Inc., an environmental consulting firm, which merged with ENTRIX, Inc. (www.entrix.com) in 1999. He is now a principal and senior management consultant at ENTRIX, a national firm that provides environmental consulting services in habitat restoration; species conservation and recovery; environmental impact management and planning; risk assessment and management of oil spills, water quality, forensic chemistry, among others; and analysis, permitting, and compliance in the energy sector. Under Tom's leadership, both firms have received an award from the Ventura County Economic Development Association for Excellence in Environmental Leadership. ENTRIX is also a Corporate Partner of the Bren School.

Tom is a certified consulting meteorologist (CCM) and California registered environmental assessor (REA). He received his B.S. in geography from Western Illinois University, an M.S. in meteorology from Northern Illinois University and another M.S. in environmental engineering from the Illinois Institute of Technology, and completed Ph.D. coursework in environmental geomorphology at the University of Chicago. The Dean's Council is pleased to have Tom and his breadth of expertise on board. 🌱

Charles Eckberg



Charles Eckberg is the Dean's Council's newest member, joining in January 2003. Charlie received his bachelor's degree in economics and political science from UCSB in 1970. His past positions include senior trust real estate officer for two financial institutions, and manager of the 15,000-acre Hollister Ranch.

Since 1994, Charlie has served as Vice President of Investec Real Estate Companies in Santa Barbara (www.investecrealestate.com), planning new residential and commercial development. During his tenure, the company has built several hundred new homes and significant plazas and shopping centers on the Central Coast, and has been acknowledged for its commitment to "green" building by receiving both the Green Award and the Builder of the Year Award in 1998, and the California Integrated Waste Management Board's Waste Reduction Winner of the Year Award in 1999.

Ecological conservation and regional planning issues are of special interest to Charlie. His community activities have included serving on the board of directors of the Community Environmental Council (including three years as president), The Sustainability Project, Get Oil Out!, and the Youth Wilderness Project. Additionally, Charlie has provided years of leadership to Santa Barbara's Earth Day celebration. For these efforts he was recognized as a "Local Hero" in 1992 by the *Santa Barbara Independent*. He has also been an active participant in Gaviota Common Ground and the Gaviota Study Group, a consortium of representatives working to protect the Gaviota Coast. His commitment to sustainable development and to integrated solutions dovetails with the mission of Bren School, and we welcome him to the Council. 🌱

The Dean's Council

The purpose of the Dean's Council is to support, promote, and guide the Bren School in its quest to become the most outstanding school of its kind in the nation. The Council is also the primary conduit between the School and the local community. The Council holds three informative and action-oriented meetings per year, one during each academic quarter. Currently, the Dean's Council is comprised of nine members, including Dennis Allen, James Dehlsen, John Pritzlaff, Brian Rapp, Richard Rogers, Lynn Scarlett, and Dan Secord, in addition to Charles Eckberg and Tom Umenhofer.

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