

# Bren School news

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Fall 2004

Donald Bren School of Environmental Science & Management

## MESSAGE FROM THE DEAN



*The Bren School celebrates its 10th anniversary this year. Assistant Dean of Development **Jennifer Purcell Deacon**, Bren School Dean **Dennis Aigner**, Assistant Dean **Laura Haston**, and Director of Career Development **David Parker** gathered with students to mark the occasion.*

support as part of the Donald Bren Foundation's original omnibus gift to the School in 1997.

The Bren Foundation's support of the School was increased by \$5 million in July, the result of a very favorable external academic program review carried out earlier this year by UC Santa Barbara as part of its routine seven-to-ten year review of academic programs. Among other things, the external review team applauded the Bren School's progress toward excellence in the short ten years of its existence, and placed it among the top three programs of its kind nationally, along with the Yale School of Forestry and Environmental Studies and Duke University's Nicholas School of the Environment and Earth Sciences.

The Bren Foundation's total support for the School now amounts to \$20 million. \$15 million of this amount is pledged in endowment over the next few years, the centerpiece being the establishment of eight endowed chairs, two in environmental law, two in corporate environmental management, and four in other unspecified disciplines. Another part of the endowment is set aside for master's student financial support and the establishment of a visiting professors program. There is no doubt that this gift and its structure will make it possible for the Bren School to achieve even greater success over the course of the next ten years and beyond.

This year we are recruiting two of these new chairs, one in environmental law and one in corporate environmental management. We appreciate very much the service of Professor Jody Freeman of the UCLA School of Law over the past three years in her capacity of Associate Dean for Law & Policy. Both her position and the position of Associate Dean for Business Management, a position that I have held since 1998, have been abolished as a result of the opportunity afforded us by the newly structured Bren Gift to internalize these functions as part of the endowed professorships in law and management. Jody continues to offer the core course in Environmental Law & Policy to rave reviews.

A handwritten signature in black ink, which appears to read "Dennis J. Aigner". The signature is written in a cursive style.

**Dennis J. Aigner, Dean**

**F**all quarter at the Bren School is always exciting because new students arrive. This time, 65 new MESMs and five new Ph.D.s entered the program, thus meeting our enrollment targets for the third year running, even in the face of rapidly escalating tuitions and fees. Approximately one-third of the new MESM class is from outside California, including seven international students. Twenty-three MBAs within the University of California system, including two from our partner institution—the Monterrey Institute of Technology in Mexico—are enrolled in the intercampus certificate program in Corporate Environmental Management, an increase of over 50% from last year and approximately the target size for this program. This program is now underwritten by the Dean Witter Foundation, after five years of annual

## Faculty Contributions to Policy-Making

One of the goals of the Bren School is to be not only at the forefront of environmental science, research, and interdisciplinary environmental study, but also of environmental policy-making. Bren School faculty are involved in key research and advisory committee activities, and many of these activities and reports have a direct impact on policy decisions affecting our environment.

As part of an ongoing series, following are highlights of some of our faculty members' policy-related work.

- **Dean Dennis Aigner** has been appointed to serve from 2003-05 on the National Advisory Committee to the US Representative to the North American Commission for Environmental Cooperation (part of NAFTA).

- **Professor Frank Davis's** current committee memberships include the National Research Council Committee on Restoration of the Greater Everglades Ecosystem, the Board of Trustees of The Nature Conservancy of California, the Science Working Group of the County of Placer Legacy Program, and the Science Advisory Panel of the Trust for Public Land's Sierra Checkerboard Project.

- **Professor Jeff Dozier** has worked on several committees of the US National Research Council and is now the chair of the NRC Committee on Geophysical and Environmental Data. He recently concluded a six-year term on NASA's Earth System Science and Applications

Advisory Committee and currently sits on a committee advising the University of California's Office of the President on science and technology at the national labs that UC operates. He also chairs the United Kingdom's Steering Committee on Environmental "eScience," focusing on the use of computing and network technology to advance environmental science.

- **Associate Professor James Frew** recently completed a two-year appointment to the US National Research Council's Committee on Environmental Satellite Data Utilization. He has been advising NASA on Earth science data systems issues since 1988, currently as a member of the Evolution of EOSDIS Elements Study Team. He also helped found the NASA-

supported Federation of Earth Science Information Partners (ESIPs), serving as the Federation's vice-president (1998-99 and 2002-03), and as president of the ESIP Foundation, the Federation's nonprofit corporation.

- **Associate Professor Trish Holden** was a panelist on the Huntington Beach Phase III Research Review Committee for the Orange County Sanitation District and is a member of the Clean Beach Task force of the California State Water Resources Control Board.

- **Professor Charles Kolstad** serves on the US EPA Clean Air Act Compliance Advisory Committee and the National Academy of Sciences Committee to Review the US Climate Change Science Program. He is a Lead Author for the Intergovernmental Panel on Climate Change (IPCC) Working Group III's contribution to the

Fourth Assessment Report. He was an expert witness on the environmental effects of the PG&E bankruptcy for the California Public Utilities Commission, and is a Co-Director of the University of California's Revelle Program on Climate Science and Policy. His survey for NOAA in support of the Channel Islands National Marine Sanctuary helped lead to its successful establishment in 2003.

By leading and serving on these committees and organizations, Bren School faculty contribute vital leading-edge scientific research and perspectives and can bring back to classrooms and conferences up-to-the-minute information about policy-making in their areas.



Adjunct faculty member Peter Kareiva and Bren Professor Frank Davis work with students on a group project.

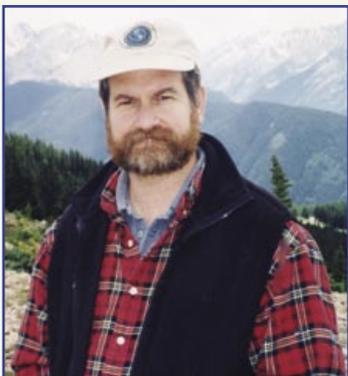
# New Directions

## Environmental Media Initiative

The Environmental Media Initiative (EMI) is a multidisciplinary endeavor at UC Santa Barbara that will focus on understanding how the environment is conceptualized, portrayed, and communicated through media channels, as well as how media channels and components themselves are designed, controlled, implemented, and evaluated, and what effects these have in turn on environmental issues. Bren School professors **Frank Davis, Hunter Lenihan,** and **John Melack** are joined by faculty from the departments of Communication; Ecology, Evolution & Marine Biology (EEMB); Environmental Studies; Film Studies; Geography; and National Center for Ecological Analysis & Synthesis (NCEAS) in this new initiative, which will be coordinated by the Center for Film, Television & New Media (CFTNM). The EMI will involve multiple channels and content, such as courses, lecture series, media design, message evaluation, archiving of environmental images and content, and interactive digital media. Please check the website regularly for updates and links ([www.bren.ucsb.edu/academics/environmental\\_media.htm](http://www.bren.ucsb.edu/academics/environmental_media.htm)).

## Water Policy Program

Building on the Bren School's excellence in multidisciplinary and wide-ranging research related to water resources, a new Water Policy Program is being established in the School to support the critical links between science and policy. Water research efforts have long been under way at Bren in the Dozier, Dunne, Holden, Keller, and Melack labs. The new Water Policy Program, under the direction of **Robert Wilkinson**, Adjunct Assistant Professor at the Bren School, will broaden the reach and effect of this scientific work on water policy issues in California, the United States, and internationally, making the Bren School an increasingly visible and vital center for water issues. Additional funding is being sought to establish a program of speakers and workshops, and to specifically support the training of master's and Ph.D. students in water-related fields.



Bren School adjunct faculty member Bob Wilkinson.

Conscience, ethical choice, memory, discrimination: it is these very human and decidedly unecological faculties that offer the planet its last best hope. It is true that, historically, we've concentrated on exercising these faculties in the human rather than the natural estate, but that doesn't mean they *cannot* be exercised there. Indeed, this is the work that now needs to be done: to bring more culture to our conduct in nature, not less.

—Michael Pollan, *Second Nature*

## BREN SCHOOL NEWS, Fall 2004

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### Contributors

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MESM '05 students James Uwins, Chuck Weber, and Ivón Aguinaga with Professor John Melack.

## Curriculum Highlights

### Colloquia

The Bren School continues to offer an active colloquium and seminar series for 2004-05. Upcoming events include the following:

- *January 14, 2005: Eileen Claussen*, President, Pew Center on Global Climate Change
- *February 3, 2005: Peter Gleick*, President, Pacific Institute
- *February 4, 2005: Lindene Patton*, Vice President & Counsel, Zurich North America
- *February 24, 2005: William Rogers*, President, Trust for Public Land Institute
- *February 25, 2005: Jim Messelbeck*, Director, Env. Health & Safety, Genentech
- *April 7, 2005: Barry Noon*, Professor, Department of Fishery and Wildlife Biology, Colorado State University

Everyone is welcome to attend. Please check our Events Calendar for a complete listing of colloquia and seminars ([www.bren.ucsb.edu/news/events/index.asp](http://www.bren.ucsb.edu/news/events/index.asp)).

### New Courses

Assistant Professor **Chris Marwood** introduced a new course this fall entitled **Environmental Field Methods** (ESM 228), which covers various field techniques for evaluating water quality, sampling environmental matrices, and collecting biota, and focuses on experimental design and instrument theory. A number of field trips and lab exercises give students direct experience with sampling techniques and data manipulation. Associate Professor **Arturo Keller** further strengthens our curriculum in water resources and pollution management with the addition of **Sustainable Watershed Quality Management** (ESM 224) in winter quarter 2005. Students will learn to evaluate the capacity of various components of a watershed to assimilate a pollutant load without deterioration and how to develop a watershed management strategy. ESM 210 has been renamed **Strategic Management and the Public/Private Interface** to reflect its expanded focus, and will be co-taught by Assistant Professor **Magali Delmas** and Professor **Oran Young** in winter quarter 2005. Students will learn about business objectives and structure and new strategy models

and tools that incorporate principles of environmental management and corporate performance, and will explore the public/private interface and the consequences of environmental regulations and policies.

### Special Courses

A number of visitors to Bren are teaching new special courses. This fall, **Laurie Harris**, attorney-at-law and lecturer in Global Studies at UCSB, taught a 2-unit course on **environmental ethics and leadership**; **LeeAnne Kryder**, a communications consultant and lecturer in the Writing Program at UCSB, offered two 2-unit courses on **environmental writing**; and **Mike Ward**, an environmental economics consultant, taught an advanced topics course that focused on **environmental valuation**. This year's visiting legal scholar is **David Spence**, Associate Professor of Law, Politics & Regulation at the McCombs Business School, University of Texas, Austin. In addition to spending a few weeks in January engaging in informal scholarly interactions with faculty and students, Professor Spence will offer a short course on **energy regulation**. We are pleased that last year's visiting legal scholar, **Jim Salzman**, Professor of Law at Duke University, will return this winter and offer a short course on **natural resources law and policy** for both Bren students and MBA students participating in our intercampus corporate environmental management emphasis program. In addition, **David Stoms**, an Associate Researcher at UCSB who works closely with Professor Frank Davis, will offer a seminar on **GIS and multicriteria analysis** and will be exploring the feasibility of expanding this seminar to a full class beginning in fall 2005. Bren School alumnus **Mel Willis**, an environmental consultant, returns to offer a new special course on **environmental impact assessment**. We continue to offer a series of half- to full-day law workshops; Professors **Tim Malloy** and **Mary Nichols** from UCLA's School of Law (Mary Nichols is also Director of UCLA's Institute of the Environment) will teach on January 21, 2005, and February 11, 2005, respectively.

# Student Highlights

## Graduating and Incoming MESMs

In June 2004, 53 Bren School master's students earned their diplomas and joined the ranks of Bren School alumni. The new graduates are working in a variety of sectors and positions, such as environmental consultant at Red Oak Consultants; research assistant at Resources for the Future; staff engineer at Avocet Environmental, Inc.; conservation projects director at The Land Trust for Santa Barbara County; water resources scientist at SAIC; management plan specialist/policy analyst at the National Marine Sanctuary Program; outreach coordinator at The California Climate Action Registry; and at such organizations as Oakley, Sapphos Environmental, Clipper Windpower, The Environmental Company, NOAA, US Fish & Wildlife Service, Hurley Consulting, Aspen Environmental, GeoSyntec, Jacer Corporation, and Conservation International.

In September, 2004, we welcomed the Class of 2006, our largest so far with 65 members. This year's Orientation Course, **Case Study in Interdisciplinary Problem-Solving**—designed to illustrate that understanding, solving, and preventing environmental problems requires pooling expertise from multiple disciplines and constructive dialogue between diverse groups—focused on a new topic: biotechnology. Faculty and students explored the question of whether production of genetically modified crops and animals should be banned in California, and they engaged in a role-playing exercise that portrayed the potential viewpoints of different stakeholders. 🌱

## Ph.D. News

Three Ph.D. students earned their doctoral degrees this year.

**Rajendra Bose** ("Composing and Conveying Lineage Metadata for Environmental Science Research Computing;" Associate Professor James Frew, advisor) is now pursuing postdoctoral work in his field at the University of Edinburgh in Scotland. **Brad Newton** ("Interactions of Topography and Landuse in the Runoff Response of Mesoscale Basins on the Brazilian Craton;" Professor Tom Dunne, advisor) is



now working for the engineering firm of Daniel B. Stephens & Associates in Santa Barbara. **Annette Killmer** ("The Effect of Civil Society Involvement on Regulatory Enforcement & Environmental Outcomes under a Mixed Pollution Prevention Policy;" Associate Professor Arturo Keller and Assistant Professor Cathie Ramus, advisors) begins a new career at Inter-American Development Bank, which provides multilateral financing for economic, social, and institutional development in Latin America and the Caribbean.

Also of note: current Ph.D. student **Victoria Broje**, who is working on oil spill remediation research with Associate Professor Arturo Keller, earned two grants for her research: \$110,000 from the Mineral Management Service and \$50,000 from the University of California Toxic Substances Research & Teaching Program. **James Nachbauer** wrote a published report, "The Jordan River Basin in Jordan: Impacts of Support for Irrigation and Rural Development," for the International Water Management Institute and Mission Regionale Eau-Agriculture. **Daniel Kaffine** is the co-author of "Land Trusts in the United States: Analyzing Abundance" in the spring 2004 issue of *Resources* magazine, published by Resources for the Future. 🌱

## Group Project Presentations

Each year, our graduating MESM students give public presentations on their year-long group projects. We want to thank everyone who attended our April 2004 Group Project Presentations and helped make it an informative and exciting experience for all. The MESM Class of 2004 project briefs and full reports may be viewed on our website ([www.bren.ucsb.edu/research/gp\\_past.asp](http://www.bren.ucsb.edu/research/gp_past.asp)).

Please be sure to join us at Fess Parker's DoubleTree Resort in Santa Barbara for the 2005 Group Project Presentations on **Thursday, April 21, 2005**, from 3-7 p.m. RSVP to [events@bren.ucsb.edu](mailto:events@bren.ucsb.edu) or call (805) 893-6115. For details on the event, visit the Group Project webpage ([www.bren.ucsb.edu/news/events/gp\\_pres\\_info.html](http://www.bren.ucsb.edu/news/events/gp_pres_info.html)) in the early spring.

*Ph.D. graduate Rajendra Bose led the Bren graduation celebration procession in June.*

## Premiere of James Cameron's new IMAX Film Showcases UCSB Research

For more information about this event, please visit [www.bren.ucsb.edu](http://www.bren.ucsb.edu)



Dijanna Figueroa begins her descent to the ocean floor. Photo by Xtreme Life Productions.

On February 4, 2005, a benefit screening of James Cameron's newest IMAX film, "Aliens of the Deep," will be held at Bacara Resort & Spa in Santa Barbara.

In April 2003, Cameron screened his IMAX film about the *Titanic*, "Ghosts of the Abyss," to raise funds for advanced technology in the Bren School's Colloquium Room and to provide research support to Cameron's Blue Planet Marine Research Foundation. This marked the beginning of an extended and fruitful relationship with the director, who showcases the research of UC Santa Barbara Professor **James Childress** of the Ecology, Evolution & Marine Biology (EEMB) department and his graduate

students **Dijanna Figueroa** and **Michael Henry** in this newest 3-D film. In the summer and fall of 2003, Childress, Figueroa, and Henry were among an elite group of scientists who participated in a three-part expedition aboard the Russian research vessel *Keldysh* to investigate the highly specialized and bizarre life forms that inhabit hydrothermal vents in the Atlantic and Pacific Oceans. Cameron hopes their research will lead to insights about the possibilities for life beyond Earth, such as on Mars and the moons of Jupiter—especially Europa, which may have life-sustaining water under its icy crust.

Hydrothermal vents occur where tectonic plates are separating and magma from the Earth's core escapes to the ocean floor, creating rare habitats teeming with organisms and ecosystems that are new to science. These ecosystems and their rich natural resources—highly concentrated poly-metallic sulfide deposits, gold, and other minerals—present extraordinary research opportunities. The scientists were filmed throughout the expedition as they prepared instruments and descended one to two miles to the sea floor in specially designed submarines to examine the vents and the creatures that live in the vent habitats. Each dive trip lasted about 12 hours total; crew members spent about 400 hours total under water. Dives were made at nine degrees and 21 degrees north in the Pacific along the East Pacific Rise as well as in the Gulf of California off Guyamas. In the Atlantic, dives were made on the Mid-Atlantic Ridge at a site called Snake Pit where small shrimp live in huge swarms, and at the Menez Gwen and Lost City hydrothermal sites.



James Childress and Mike Henry in the Keldysh lab. Photo by Xtreme Life Productions.

"In my 30 years of conducting research on the vents I have never seen this unique environment in such extraordinary clarity and brilliance. It really was a pleasure to be a part of the expedition," commented Childress. Widely considered to be one of the most knowledgeable vents researchers in the world, Childress designed the first receptacle to house and maintain creatures from the vents, which are kept alive in a pressurized, chemically controlled environment in his lab at UC Santa Barbara.

"Helping to translate what we know from scientific research into language that will inspire children to better know their universe was a transforming experience," said Dijanna Figueroa, who serves as the primary science interpreter in the film.

*continued on page 7*

## Donald Bren Expands Support for the Bren School

The Donald Bren School of Environmental Science & Management has received an additional, major financial commitment from Orange County business leader and philanthropist Donald Bren. The Bren School was named in honor of Mr. Bren in 1997, following his pledge to provide \$15 million in support for the program. He has now added \$5 million more to his commitment, bringing the total to \$20 million.

Administered through the Donald Bren Foundation, the funds are being used to establish 11 endowments to support nine faculty chairs, a distinguished visiting professor program, and fellowships for students pursuing master's degrees. This support is designed to enhance and strengthen the school's core interdisciplinary programs, personnel, and special activities.

"I strongly believe that the quality of education and research that any institution provides is squarely rooted in the excellence of its faculty," says Mr. Bren. "That's why I am focusing more and more of my philanthropic support on the creation of endowed chairs, which will enable the university to bring to the Bren School world-class scholars and thinkers. The addition of such appointments to the superb faculty at this school will help it firmly establish itself as the most important center anywhere for teaching and research in environmental science and management." 

### Cameron Premiere, continued

James Cameron has long had a fascination with space exploration and the similarities between deep sea and deep space. In an interview with *Astrobiology* magazine, Cameron said, "I think that any kind of exploration should always try to acquire the highest level of imaging. That's how you engage people—you can put them there, give them the sense that they're standing there on the surface of Mars." The 3-D technology employed in the making of the film vividly demonstrates how advanced technology can almost immerse a viewer in scientific research being conducted in extreme environments—thereby enhancing the learning process and increasing viewers' understanding of rare and distant species and habitats.

Bren School Dean Dennis Aigner said "I am proud that we can play a role in this merger of world-class film making and cutting-edge scientific research. By using the most advanced technology, millions of people will be able to experience the extraordinary environment created by the hydrothermal vents. We are grateful for the opportunity to collaborate with James Cameron and his crew." 

### Advisory Board News

The Bren School is pleased to welcome new Advisory Board members **Scott Barrett**, Professor of International Political Economy and Director of the International Policy Program at the Paul H. Nitze School of Advanced International Studies at Johns Hopkins University; **Thomas Ramirez**, President of The Charles River Company; **Stephen Schneider**, Professor of Biological Sciences, Senior Fellow at the Stanford Institute for International Studies, and Co-

Director of the Center for Environmental Science & Policy and the Interdisciplinary Program in Environment and Resources at Stanford University; and Bren master's student **James Uwins '05**. Board member **Doug Wheeler**, a partner at Hogan & Hartson, is chair of the Bren School Advisory Board this year. Brief biographies of each board member are on the Advisory Board webpage ([www.bren.ucsb.edu/people/catnew.asp?cat=advisory%20board](http://www.bren.ucsb.edu/people/catnew.asp?cat=advisory%20board)).

The Bren School gratefully acknowledges the services of Advisory Board members **Graham Chisholm, John Garamendi, Jean-Bernard Minster, Mary Nichols, Paul Portney, Claude Poncelet**, and Bren master's student **Leanna Struzziery '04**. **Donald Bren** is now represented on the Board by **John Flynn** of The Donald Bren Foundation.

The next annual Advisory Board meeting will be held on Wednesday, April 20, 2005, the day before the 2005 Group Project Presentations. 



*The Advisory Board at its annual meeting in April 2004.*

## New Corporate Partners

The Bren School is pleased to welcome several new Corporate Partners: AIG, Clipper Windpower, Genentech, Investec, Sea Breeze, and Treadwell & Rollo.

**American International Group, Inc. (AIG)** ([www.aig.com](http://www.aig.com)), is the world's leading international insurance and financial services organization, with operations in more than 130 countries and jurisdictions. AIG member companies serve commercial, institutional and individual customers through their extensive worldwide property-casualty and life insurance networks. In the United States, AIG companies are the largest underwriters of commercial and industrial insurance and AIG American General is a top-ranked life insurer. Our liaison at AIG is **Ken Radigan**, Senior Vice President for Environmental Protection Programs.

**Clipper Windpower** ([www.clipperwind.com](http://www.clipperwind.com)) is developing lower-cost wind turbine technology with funding from the California Energy Commission and the Department of Energy. Its Chairman and CEO, **James Dehlsen**, serves on the Bren School Dean's Council and is our liaison with the company.

**Genentech** ([www.gene.com](http://www.gene.com)), an award-winning biotechnology company founded in 1976, is a leader in the world's leading biotechnology industry with multiple protein-based products on the market for serious or life-threatening medical conditions and over 30 projects in development. Our liaison with Genentech is **Jim Messelbeck**, Director of Environment, Health & Safety.

**Investec** ([www.investecre.com](http://www.investecre.com)) is a Santa Barbara-based real estate development, management, leasing, and investment company dedicated to "green development" principles: employing sound environmental practices in the design and construction of its properties, and using solar power and recycling technologies. Vice President **Charles Eckberg**, a member of the Bren School Dean's Council, is our liaison.

**Sea Breeze Power Corporation** ([www.seabreezepower.com](http://www.seabreezepower.com)) is a renewable energy development company located in Vancouver, Canada, that is developing wind energy on Northern Vancouver Island, home to one of the strongest wind regimes in the world. Other "green" power development projects include innovative energy storage and transmission technologies.

**Louis Sweet**, Business Development, is our liaison with Sea Breeze.

**Treadwell & Rollo** ([www.treadwellrollo.com](http://www.treadwellrollo.com)) is a San Francisco-based environmental and geotechnical consultancy that provides geotechnical and seismic engineering services to major construction and conversion projects such as environmental impact report analyses, brownfield and groundwater remediation, earthquake design analysis, seismic retrofitting, and human health risk assessments for cities, counties, government agencies, developers, manufacturers, utilities, and high-tech companies. Treadwell & Rollo President **Philip Tringale** is our liaison.

The Bren School also welcomes its new Corporate Liaison, **Marsha Marcoe**, who will be working with Assistant Dean of Development **Jennifer Purcell Deacon** and Director of Career Development **David Parker** to further expand the Corporate Partners Program. Prior to joining the Bren School, Marsha was Director of Development for UC Santa Barbara's College of Creative Studies and Development Director for Santa Barbara's Child Abuse Listening and Mediation (CALM) agency.



## Annual Corporate Summit & Golf Tournament: Friday, May 13, 2005

Held the morning of the annual Bren Golf Tournament & Barbecue, the **Bren School Corporate Summit** is an excellent opportunity for business leaders and the academic community to discuss a key topic of business relevance from both corporate and academic perspectives before teeing off for an afternoon of golf.

This year's Corporate Summit and 6th Annual Golf Tournament will take place **Friday, May 13, 2005**. For more information about the Summit presentation and agenda, and to register to attend, please visit our Corporate Partners webpage ([www.bren.ucsb.edu/supporting/CorporatePartnersSummit2005.html](http://www.bren.ucsb.edu/supporting/CorporatePartnersSummit2005.html))

Initiated in 1999 by two Bren Ph.D. students, the annual Bren golf tournament, held at Santa Barbara's Glen Annie Golf Club, is enjoyed by Bren faculty, alumni, staff, corporate and strategic partners, and members of the Dean's Council and Advisory Board. Last spring, 12 foursomes played in the tournament, with 50 guests joining the post-tournament barbecue. **David Raney** of American Honda, **Darren Hardy**, MESM Class of 2005, and **David Parker**, Bren Director of Career Development, were the victorious team—the second year in a row for David Raney!



MESM '04 Alumni Class Chair Jana Hartline and Bren Dean's Council member Tom Umenhofer of ENTRIX, who presented the awards, with the winning golf team: Director of Career Development David Parker, Darren Hardy '05, and David Raney of American Honda.

For more information and to register, please visit the golf tournament webpage ([www.bren.ucsb.edu/supporting/TournamentInvitation2005.htm](http://www.bren.ucsb.edu/supporting/TournamentInvitation2005.htm)). We look forward to seeing you there!

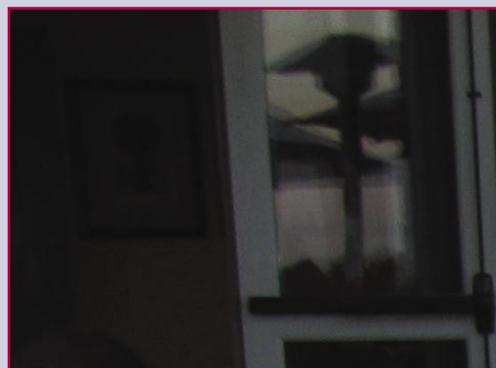


## Dean's Council News

The Bren School welcomes three new members to the Dean's Council this year: Santa Barbara County First District Supervisor **Naomi Schwartz**, who has represented Carpinteria and Santa Barbara since 1992 and is also the Board of Supervisors' representative to the California State Association of Counties, chair of the Families and Children First Commission, and a member of the National Association of Counties' Environment, Energy and Land Use Steering Committee; **Charles D. (Kim) Kimbell**, a founding partner of the Santa Barbara law firm of Allen & Kimbell, LLP, which specializes in real estate matters, estate planning, and general business; and **Harvey Bottelsen**, a real estate developer and general partner/manager of seven partnerships that hold properties throughout Southern California and the Central Coast, president of the James S. Bower Foundation, former executive vice president of Invest West Sports, and 18-year board member of Hospice of Santa Barbara. **Dennis Allen**, president of Allen Associates, a general contracting firm in Santa Barbara that specializes in environmentally friendly, custom residential building, is President of the Dean's Council.

The Dean's Council gratefully acknowledges the service of **John C. Pritzlaff, Jr.**, a member since 1997.

**The Breakfast Club**, sponsored by the Dean's Council, is a primary conduit for outreach to the Santa Barbara community. This breakfast gathering takes place three times a year at the University Club in downtown Santa Barbara, and features a presentation by a prominent spokesperson in an area of environmental science and management. The first Breakfast Club of the 2004-05 academic year was held on October 18, 2004. **Jerry Clifford**, Deputy Assistant Administrator, US Environmental Protection Agency, International Affairs, spoke about the US EPA's role in emerging global environmental issues. Future Breakfast Club dates are **February 4, 2005** and **May 6, 2005**. Attending the Breakfast Club is complimentary, and open to everyone. To register for an invitation, please see the Breakfast Club webpage ([www.bren.ucsb.edu/supporting/breakfast.html](http://www.bren.ucsb.edu/supporting/breakfast.html)).



Bren Assistant Dean of Development **Jennifer Purcell Deacon** with Dean's Council member **Charlie Eckberg** at the 2004 Bren Golf Tournament barbecue.

# Thank You to Our Donors

## Student Prizes & Fellowships

The Bren School views the task of preparing the next generation of environmental leaders as a fundamental responsibility. An unstinting commitment to assisting students is one of the keys to the Bren School's continued excellence and an area where donors can have a personal impact on individual lives.

Twenty-six students in the incoming MESM Class of 2006 and two second-year students in the Class of 2005 were awarded donor-named fellowships and prizes for the 2004-05 academic year. These students are among the most outstanding members of their class. Their admission to and acceptance of candidacy at the Bren School was due, in part, to donors who provided the margin of excellence that enabled the Bren School to successfully compete with other top programs in the nation for these superb candidates.



Santa Barbara Foundation's 1997 Woman of the Year **Jean Schuyler** and founder of UCSB's Environmental Studies Program Professor **Barry Schuyler** (back middle and right), with Bren MESM '06 students **Joseph Kuhn**, **Kimbrelly Matsoukas**, and **Lindsay Kircher**, Schuyler Prize recipients.

*Dennis J. Aigner Prize in Corporate Environmental Management:* Daniel Klaus '06  
*Allen Associates Prize:* Christopher Bersbach '06  
*Association of Environmental Professionals Prize:* Daniel Segan '06  
*Hazel M. Blankenship Prize in Environmental Law & Policy/Land Use:* Christopher Jones '06  
*Frank Davis & Laura Haston Prize in Conservation Planning/Diversity Enhancement:* Patrick Jantz '06  
*Robert T. Deacon Prize in Environmental Economics & Policy:* John Everett '05  
*Deanna & James Dehlsen Prize:* Betty Seto '06  
*Deanna & James Dehlsen Prize:* Sean Kilgore '06  
*Monica Florian (California Building Industry Foundation) Prize:* Abigail Nugent '06  
*Dennis & Patricia Forster Prize:* Nathan Adams '06  
*Mary Livingston Griggs & Mary Griggs Burke Foundation Prize:* Amy Burgard '06  
*Fred & Pamela Harris Prize:* Amanda Cundiff '06  
*Gary & Joanne Hunt Fellowship in Environmental Law & Policy:* Claire Cowan '05  
*Arturo & Brigitte Keller Prize in Water Quality Management:* Erin Nuccio '06  
*Takashi Kiuchi Prize:* Karin Bencala '06  
*Mary D. Nichols Fellowship:* Daniel Hall '06  
*Claude G. Poncelet Prize:* Patrick Yellin '06  
*John C. Pritzlaff, Jr. Prize:* Theresa Nogiore '06  
*Beth & Richard Rogers Prize in Corporate Environmental Management:* Fahmida Ahmed '06  
*Jackie Sandler Prize:* Jeffrey Brown '06  
*Linda Sandler Prize:* Niki Wilson '06  
*Barry & Jean Schuyler Prize:* Kimbrelly Matsoukas '06  
*Barry & Jean Schuyler Prize:* Lindsay Kircher '06  
*Barry & Jean Schuyler Prize:* Joseph Kuhn '06  
*J.C. Thompson Prize:* John Kefauver '06  
*Wege Foundation Fellowship:* Jennifer Lipscomb '06  
*Douglas P. Wheeler Prize:* Samantha Stevens '06  
*Ronald & Charlotte Williams Prize in Environmental Law & Policy/Land Use:* Leigh Favret '06

### Recent Gifts and Pledges to the Bren School

Ian Adam  
 AIG Environmental  
 Dennis J. Aigner  
 Bank of America  
 Tansy Birchim  
 Harvey Bottelsen  
 Andrew Breibart  
 Donald Bren Foundation  
 CH2MHILL  
 Cole Family Foundation  
 Frank Davis &  
 Laura Haston  
 Robert T. & Jennifer P. Deacon  
 Charles Eckberg

Environmental Science Association  
 Dennis & Patricia Forster  
 Genentech, Inc.  
 Janice Jegelski  
 Tachi Kiuchi  
 Patrick Morrin  
 Roger Pearson  
 Edmund Peck  
 Claude Poncelet  
 John C. Pritzlaff, Jr.  
 Sea Breeze Power Corp.  
 Dean Witter Foundation  
 J.C. Thompson  
 Treadwell & Rollo  
 Venoco  
 Water for California  
 Weeden Foundation

## Alumni Class Chairs

Joining **Tommy Liddell '98**, **Ryan Pingree '99**, **Chris Coburn '00**, **Ian Adam '01**, **Amanda Eichel '02**, **John Onderdonk '03**, and **Jana Hartline '04** is **Karen Wolowicz**, Class Chair of the MESM Class of 2005. Please visit the Class Chairs webpage ([www.bren.ucsb.edu/supporting/Alumni\\_Class\\_Giving.html](http://www.bren.ucsb.edu/supporting/Alumni_Class_Giving.html)) for contact information and gift reports!

# Corporate Partners Model

## Toyota Internships Yield Valuable Experiences

Many Bren students have had rewarding internships and jobs at Bren School Corporate Partner **Toyota**, an international company that is committed to environmental innovation and leadership. Toyota has led the way in lowering emissions and improving fuel economy in gasoline-powered vehicles, created the world's first mass-produced gas/electric hybrid car, and is at the forefront of developing tomorrow's fuel cell vehicles. Additionally, its "green" complex in California has one of the largest commercial solar panel systems in North America and conserves more than 11 million gallons of drinking water annually through special pipelines that supply recycled water for cooling and landscaping.

**Ryan McMullan**, MESM '05, completed a summer internship at the Toyota office in Torrance, California. While working in their Environmental Coordination Office, Ryan was able to contribute to Toyota's 2004 North America Environmental Report and its 2003 Greenhouse Gas Inventory. Ryan also helped with the tracking of recycling and utility information as well as a system for assisting environmental managers with regulatory compliance.

When asked about his summer experience, Ryan said, "The work was intellectually interesting, the people I worked with were wonderful, and it was a great environment. What made it especially rewarding was



*Ryan McMullan '05 at Toyota Motor Sales in Torrance, California.*

that I was working on projects that really needed to be done, not just sample projects for interns." When asked why this internship stood out, Ryan noted, "I was able to see what a large, modern company does to address environmental problems. It was encouraging to see a company working to really show leadership in environmental issues, not just responding to regulations."

**Shawn Decker** '05 also completed a summer internship with Toyota in its Office of Compliance. Shawn worked closely with **Jana Hartline**, MESM '04, who had an internship at Toyota in the summer of 2003 and was hired by the Office of Compliance in June 2004.

Toyota has been a Bren School Corporate Partner since 2001 and has offered two internships each summer. A total of eight Bren students have completed internships through Toyota's internship program. All Bren Toyota interns have gone on to use their experience to springboard into careers with excellent environmentally focused

organizations, including **AIG** (a Bren Corporate Partner), California Climate Action Registry, Clayton Group Services, and Toyota itself.

The Bren School thanks the Toyota team for providing an excellent environment for our students to apply what they have learned at the Bren School and to gain valuable corporate environmental management experience and training.

## MESM 2004 Class Gift Sets Precedent

As its gift to the Bren School, the graduating MESM class of 2004 purchased 500 metric tons of vintage 2004 carbon dioxide equivalent allowances for retirement on the Chicago Climate Exchange (CCX). This precedent-setting transaction was made through the Rocky Mountain Institute (RMI).

Bren Assistant Professor Christopher Costello, who originally proposed the idea, estimates that 500 metric tons is equivalent to the CO<sub>2</sub> emissions from 50,000 gallons of gasoline. If a typical car uses 600 gallons of gas a year, this amounts to abating the yearly CO<sub>2</sub> emissions from over 80 cars.

CCX is an innovative self-regulatory exchange that administers the world's first multi-national and multi-sector marketplace for reducing and trading greenhouse gas (GHG) emissions. It has traded more than 1.6 million metric tons of carbon dioxide since opening on December 12, 2003.

This is the first time that a school has purchased GHG reductions on behalf of a graduating class. "The Class of 2004 is dedicated to positively impacting the world and our environment. This purchase reflects that dedication. We hope it paves the way for other organizations to take action," said **Jana Hartline**, MESM '04 Alumni Class Chair.

## **Donald Bren School of Environmental Science & Management**

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