Alagona, Peter Envir Alam, Md Ershadul			Professor Alagona's research focuses on biological diversity and endangered	
			Protessor Alagona's research focuses on biological diversity and endangered	1
			species. His recently published book, titled "After the Grizzly: Endangered Species	
			and the Politics of Place in California," explores the history of endangered species	
			conservation in California and beyond. Professor Alagona is also involved in	
				http://www.history.ucsb.edu/people/pers
Alam, Md Ershadul	vironmental Studies; History		environmental science and management in a project titled "A Sanctuary for Science.	on.php?account_id=284
Alam, Md Ershadul			Dr. Alam has conducted research on lightweight structural materials that, if used, will	
			cost less in terms of fuel and emit less CO2.	
			Along with her other policy studies, Dr. Anderson has done research on	
			environmental politics, environmental representation, and post-fire treatment in the	
			Western US. Her research speaks to the environmental policy realm. Her current	
			projects include work on the framing of environmental politics and how ecological,	
Anderson, Sarah Politi	litical Science; Bren			http://fiesta.bren.ucsb.edu/~sanderson/
			Dr. Auston's research is in the field of picosecond and femtosecond optics and their	
			applications to nonlinear optics and solid-state materials. He helped establish the	
1			field of ultrafast optoelectronics, which uses picosecond and femtosecond lasers to	
Austan David			measure, with very high time precision, the dynamic electronic properties of	
Auston, David			materials.	
			Dr. Bamieh's research is in the area of controls engineering, which underlies most	
			automation technologies that make machines and processes smart and adaptive.	
			He is currently working on the design of smart Thermoacoustic energy conversion	
			devices in which mechanical work is done by powerful pressure waves rather than	
			pistons or turbines. These devices convert heat to acoustic power with relatively	
Densiele Deserver			high efficiencies and almost no moving parts, and they are particularly suited to	
Bamieh, Bassam Mech	chanical Engineering		small-scale solar thermal power applications.	http://engineering.ucsb.edu/~bamieh/
			Dr. Banerjee is currently researching the physics, technology, and applications of	
			low-dimensional nanomaterials for next-generation green electronics, photonics,	
			and bioelectronics. The application of these nanomaterials can be used to design	
			low-power, low-loss, and ultra-energy efficient active and passive nanoelectronic	
			devices. This research can be applied to solar cell design when improving the	
Banerjee, Kaustav Elect	ctrical & Computer Engineering		efficiency of photovoltaic devices. Dr. Barandiarán's research is focused on environmental politics. It aims to	http://nrl.ece.ucsb.edu/
			understand how states come to know about the environment in order to regulate it.	
			Currently, Dr. Barandiarán is working on a book that explores four environmental	
			conflicts in Chile. This research focuses on the ways in which the Chilean state	
			organizes, accesses, and believes in environmental information since the end of the	
			Pinochet regime. The environmental conflicts include a toxic waste spill by a paper	
			and pulp mill in Valdivia, the mine at Pascua Lama, the virus ISA in salmon farming,	http://www.global.ucsb.odu/poople/202d
Barandiaran, Javiera Glob	bal and International Studies		and the hydroelectric dams of HidroAysén.	emic/javiera-barandiar%C3%A1n
		Institute for Energy Efficiency; Center for		
1			As winner of the Grand Challenges Explorations grant, Dr. Bazan has investigated	
			semiconducting molecules that penetrate organism membranes. This research is	
			used to convert wastewater into energy, a piece of technology which can help	
				http://www.chem.ucsb.edu/~bazangroup
Bazan, Guillermo Cher			efficiency of solar cells, using metal nanoparticles with organic devices.	/
	state broad and broad		Dr. Bazerman is interested in the practice and teaching of writing, understood in a	
			socio-historic context. Using socially based theories of genre, activity system,	
			interaction, intertextuality, and cognitive development, he investigates the history of	
			scientific writing, other forms of writing used in advancing technological projects,	
			and the relation of writing to the development of disciplines of knowledge. Some of	
			his studies involve the history and organization of environmental knowledge and	
Bazerman, Charles Educ	ucation			http://education.ucsb.edu/bazerman/
			Dr. Bergstrom's research includes work in resource economics. He has studied such	
1			areas as using the market to control pollution, the externalities of pollution, and the	
Bergstrom, Ted Econ	onomics			http://www.econ.ucsb.edu/~tedb/

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			Dr. Bhavnani's documentary film "Nothing like Chocolate," offers a glimpse into the	
			global chocolate industry, where there are allegations that enslaved children are	
			used to harvest beans in Ivory Coast, which produces 40% of the world's cacao.	
			"Nothing Like Chocolate" focuses on the Grenada Chocolate Company founded by	
			Mott Green, as well as on an independent farmer, Nelice Stewart, who grows	
			organic cocoa beans. Green (deceased June 2013) created a worker-owned	
			cooperative which brings profits back to the working shareholders, who include the	
			farmers and all factory workers at the company. The film discusses how solar power	
	Sociology; Women, Culture, and		and ethical technology can create a sustainable, community-based business, and,	http://www.soc.ucsb.edu/faculty/kum-
Bhavnani, Kum Kum	Development Studies	Center for Middle East Studies	therefore, can undermine global unethical practices.	kum-bhavnani
Bhavhani, Rannani			Dr. Blanchette's research focuses mainly on marine ecology. Her main areas of	
			study include an examination of how certain species adapt to ocean acidification as	
			CO2 emissions increase, the ecological responses to climate change, and	
Blanchette, Carol		Marine Science Institute	sustainable fisheries management.	
Bialichette, Caloi			Dr. Blumenthal directs the Label-Switched Optical Router Project. The project aims	
				http://opping.com/neth.odu/foouth//profil
Diverse with all Deviat		Onlife units Name Originations In attitute	to save power by shifting more network router processing into the optical domain.	http://engineering.ucsb.edu/faculty/profil
Blumenthal, Daniel	Electrical & Computer Engineering	California NanoSystems Institute		e/138
			One of Professor Boles' current research projects is studying the effect of rapid	
			carbonate crystallization on isotopic signatures of carbonate. As part of this project,	
			he is investigating the fractionation of stable isotopes between CO2 gas, aqueous	
			CO2 species, and carbonate. This research is relevant to interpreting isotopic	
			signatures from carbonate precipitates associated with CO2 sequestration, as well	
			as leakage and degassing associated with hydrocarbon systems when the isotopic	
Boles, Jim	Earth Science		systems of CO2 may be out of equilibrium due to rapid crystallization.	http://www.geol.ucsb.edu/faculty/boles/
			Dr. Bookhagen's research is involved with mass transport on the Earth Surface and	
			includes phenomena such as erosion, landslides, floods, and glaciers. He focuses	
			on identifying spatial and temporal patterns that are often linked to climate changes.	
			For example, heavy rainfall events after intense wildfires can increase erosion and	
			the removal of the fertile soil layer. Dr. Bookhagen uses spatial technology (lidar,	
			satellite data) to map and predict erosion and rainfall. A large component of his work	
Bookhagen, Bodo	Geography	Center for Interdisciplinary Research in Fluids	includes measurements and sample collection in the field.	http://geog.ucsb.edu/~bodo/
Boolinagon, Boao			Dr. Bowers' research team created an LED lamp that is solar-powered, cost-	intpingeoglacesieda, sede,
			effective, and highly efficient. The circuit of the lamp is designed so as to provide	
			triple the output of a normal AA battery. This design was transferred to a nonprofit,	
			Unite to Light. Manufactured lamps were shipped to Ghana in 2010 at a cost of \$7	
			per lamp, roughly the amount a family in Ghana would spend on kerosene for 2	
			months. Unite to Light has sent 56,000 such lights to people in need of a	
		Institute for Energy Efficiency; Solid State	sustainable light source. The research group has since worked on solar powered	
		Lighting and Energy Center; Interdisciplinary	lights that can also charge cell phones, as well as solar powered cell phone charger	
		Center for Wide Band-Gap Semiconductors;	lights that can operate as a pay-as-you-go model. (Dr. Bowers' research also	
		Center for Energy Efficient Materials;	includes work on more efficient thermoelectric materials for waste heat recovery and	
Bowers, John	Electrical & Computer Engineering	California NanoSystems Institute	on concentrated photovoltaic devices for more efficient solar power.)	le/john-bowers
			Professor Brenner has recently applied for an NSF grant to bring climate and marine	
			science classes to Santa Barbara County schools. For seven years, she was	
			previously involved in running and researching a summer educational program for	
Brenner, Mary E.	Education		local students that taught environmental stewardship.	
			Dr. Brewer's recent work is in the development of a family of specialized	
			microprocessors for low-power/high-performance embedded closed loop control.	
		California NanoSystems Institute: Institute for	The application may substantially reduce power and improve performance of	http://engineering.ucsb.edu/faculty/profil
Brewer, Forrest	Electrical & Computer Engineering	Energy Efficiency	microprocessors.	e/91
		Marine Science Institute; Carptineria Salt		
Brooks, Andrew		Marsh Reserve		
Diooka, Andrew				
			Dr. Browne's research focuses on understanding the impacts of human activities	
			(pollution, climatic change, and urbanization) on biodiversity and rehabilitating	
Browne, Mark		National Center for Ecological Analysis &	affected habitats. Currently, much of this research deals with the sources and fate of	
Anthony		Synthesis	litter across ecosystems and its effects, from the subcellular to whole ecosystems.	
	I	oynu colo	piller across ecosystems and its enects, notifithe subcentual to whole ecosystems.	

			Dr. Brzezinski's research focuses on marine phytoplankton, oceanography, and	
			climate change science. He is currently working on projects related to effects of high	http://www.lifesci.ucsh.edu/Ecology
		Marine Science Institute: Center for	CO2 conditions on organic matter, the effect of wave energy on kelp forest	Evolution & Marine
Brzezinski, Mark	Ecology, Evolution & Marine Biology		ecosystems, and the maintenance of species diversity.	Biology/faculty/brzezinski/
Dizozinoki, Mark			Dr. Bullo has investigated efficient methods to improve the functioning of our power	Diology/labally/bizezinola/
		Center for Control, Dynamical Systems and	grid. His work involves how to suppress energy-consuming inter-area oscillations	
		Computation; Institute for Collaborative	and how to integrate increasing percentages of renewable energy into the current	
Bullo, Franceso	Mechanical Engineering	Biotechnologies	grid.	
			Dr. Buratto has conducted research which looks at the polymer films present in	
			LEDs by using near-field optical spectrscopy and near-field scanning microscopy.	
			Looking at these films provides direct insight into the functioning/performance of	
			these devices. The films affect such factors as carrier generation, transport, and	
		Institute for Terahertz Science and	device lifetime. He has additionally researched proton-exchange membrane fuel	
		Technology; Institute for Energy Efficiency;	cells. These fuel cells provide efficient power with a low environmental impact by	http://www.chem.ucsb.edu/~buratto gro
Buratto, Steven	Chemistry and Biochemistry	California NanoSystems Institute	generating electricity from chemical energy.	up/
			Professor Burbank studies tectonic geomorphology and surface processes. Working	
			with the Earth Research Institute, Burbank's research areas include earth evolution,	
			earth systems science, and natural hazards. His current research projects include	
			analyzing the climate and tectonic controls on growth of the Puna Plateau, NW	
			Argentina, and the interactions of tectonics, erosion, and climate in shaping the	http://www.geol.ucsb.edu/faculty/burban
Burbank, Doug	Earth Science	Earth Resource Institute	Himalayas.	k
			Dr. Callander studies how environmental stress affects organismal physiology.	
	Molecular, Cellular, and		Understanding stressors and how animals respond to them can inform policy,	
Callander, Davon	Developmental Biology		conservation, and sustainability.	
			Dr. Carlson's research focuses on microbial oceanography. More specifically, his	
			research focuses on the role marine microbes play in the cycling of elements	
			through oceanic dissolved organic matter. The applications of this research will help	
			to understand how microbial processes affect the production and consumption of	Evolution & Marine
Carlson, Craig	Ecology, Evolution & Marine Biology	Ocean Science; Marine Biotechnology Center	organic matter within the oceanic carbon cycle.	Biology/faculty/carlson/
			Dr. Carvalho's research interests are in regional and large-scale climate variability	
			and modeling, global climate change, and scaling processes in geophysics. More	
			specifically, she researches the characteristics of the South American Monsoon	
			System and how these characteristics will be modified in future scenarios of climate	
			change. Dr. Carvalho also looks at the pattern of increased precipitation rates in	
Carvalho, Leila	Geography	Earth Resource Institute	various regions around the world.	http://www.icess.ucsb.edu/clivac/
			Dr. Caselle's research is broadly focused on marine conservation and reef ecology.	
			She currently works in both coral reef and kelp forest ecosystems, studying	
			community dynamics, recruitment and larval dispersal, and movement patterns of	
			fishes. She also manages a large-scale field-based monitoring program of kelp	
Casalla Jannifan		Marina Cajanas Instituta	forests in the California ecosystem with the goal of assessing long-term changes	
Caselle, Jennifer			due to climate and anthropogenic impacts.	
		Institute for Energy Efficiency; Center for Polymers and Organic Solids; Mitsubishi		
		Chemical Center for Advanced Materials;	Dr. Chabinyc studies energy storage and conversion. Some of his specific focuses	
		Center for Energy Efficient Materials;	include organic semiconductors and hybrid organic devices that can store energy.	
		Materials Research Laboratory; California	He has also researched photovaltaics, which use semiconductors to generate	http://www.materials.ucsb.edu/recruitme
Chabinyc, Michael	Materials		electrical power from solar radiation.	nt/Faculty/chabinyc/chabinyc.php
Shabinyo, Michael			Dr. Chadwick's research relates soils to ecology and earth system science. He has	
			studied how humans prior to the Industrial Revolution and development of industrial	
			nitrogen fixation managed their natural ecosystems and agricultural systems	
			sustainably. He also looks at how humans impact the environment through	
			extracting nutrients from it for agriculture and industry and then, in some cases,	
Chadwick, Oliver	Geography	Restoration	concentrating them or spreading them to return them to the natural environment.	http://geog.ucsb.edu/pedology/
			Dr. Cheng manages two research labs: SoC Design and Test Lab and Learning-	
			based Multimedia Lab. The latter laboratory is currently doing research which	
			focuses on Mobile Computer Vision. Computer vision looks at how real word data, in	
			particular images, are processed into symbols/numbers and understood by	1
		Institute for Energy Efficiency; Greenscale	computers. The research focuses on developing designs that improve the energy	http://engineering.ucsb.edu/faculty/profil
Cheng, Tim	Electrical & Computer Engineering	Center for Energy-Efficient Computing	efficiency of tasks involved in computer vision.	e/94
	Internation of Computer Engineering	Center for Energy-Enicient Computing		

			Dr. Chmelka works with nanotechnology. He studies, at a molecular level, some of	
			the important materials involved in nanotechnological processes and how these	
		Institute for Energy Efficiency; Institute for	materials are linked to one another. This new technology is used in energy	http://www.chemengr.ucsb.edu/people/f
Chmelka, Bradley	Chemical Engineering	Collaborative Biotechnologies	conversion materials such as batteries and fuel cells.	aculty d.php?id=16
· · · · · · · · · · · · · · · · · · ·			As the Director of the Greenscale Center for Energy-Efficient Computing, Dr.	
			Chong's research includes Life Cycle Analysis (LCA) of information technologies.	
			This method of analysis can be applied to computing strategies in order to gauge	
			their environmental impact and energy efficiency. He also studies emerging	
		Institute for Energy Efficiency; Director, the	technologies for energy-proportional computation. Energy-proportional computation	
		Greenscale Center for Energy-Efficient	saves computer server energy as well as increasing real-time use efficiency as	
Chong, Fred	Computer Science	Computing	computing workload varies.	http://www.cs.ucsb.edu/~chong/
onong, riou		Comparing	Professor Clark's research focuses on topics in the field of aqueous geochemistry.	
			By analyzing anthropogenic and natural tracers in bodies of water, Professor Clark	
			is able to study how flow patterns affect the quality of water, the transfer of water,	
			and gas exchange across the air-water interface. His current research projects	
			include the chemical evolution of shallow groundwater, groundwater flow near	
			managed aquifer recharge sites, and stream/ground water interactions in alpine	
	Earth Science; Environmental		watershed. In the past, he has also examined the fate of methane near shallow	
Clark Jandan	· ·			
Clark, Jordan	Studies		hydrocarbon seeps.	http://www.geol.ucsb.edu/faculty/jfclark/
			Dr. Clarke is the author of the SLEUTH land use change model and has overseen a large number of applications and led adaptations and improvements of the model.	
		National Contas for Coorsephia Information		
		National Center for Geographic Information	The model is increasingly used in sustainability planning, in Iran, Turkey, India,	
		and Analysis; Institute for Energy Efficiency;	Brazil, China, and elsewhere. The model is open source and supported via online	
Clarke, Keith	Geography	Ocean and Coastal Policy Center	discussion forums.	http://geog.ucsb.edu/~kclarke/
			Dr. Clemencon's policy research has focused on international environmental	
			institutions, sustainable development, and globalization. Currently, he is examining	
			how different countries define and try to operationalize the concept of sustainable	
			development. He examines the political processes that determine the allocation of	
			funds for climate change in different countries (for both multilateral mechanisms like	
			the Green Climate Fund and the GEF, as well as for bilateral efforts). Dr. Clemencon	
	Bren; Global and International	Orfalea Center for Global and International	also researches the domestic sources that determine a country's ability to provide	http://www.soc.ucsb.edu/faculty/raymon
Clemencon, Raymond	Studies; Sociology	Studies	leadership in the climate negotiations.	d-clemencon
			David Cleveland's research and teaching focus on small-scale, sustainable	
			agriculture and its role in responding to climate change, resource scarcities, new	
			technologies, and demands for social justice. His current focus is the potential	
			contributions of agrifood system localization to climate change mitigation, improved	
			nutrition, and food sovereignty in Santa Barbara County and California. His 2013	
			book, "Balancing on a Planet: The future of food and agriculture," is an	
			interdisciplinary primer on critical thinking and effective action for the future of our	
			global agrifood systems, based on an understanding of their biological and	
Cleveland, David	Environmental Studies		sociocultural roots.	http://es.ucsb.edu/faculty/cleveland/
			Dr. Coldren has worked to develop new photonic integrated circuit (PIC), as well as	
		Institute for Energy Efficiency;	vertical-cavity surface-emitting laser (VCSEL) technology. This technology has	
		Optoelectronics Technology Center; Solid-	many applications. It can be used in laser printers and biological tissue analysis,	
		State Energy & Lighting Center;	and it is widely used in fiber optics. Fiber optics is a field that focuses on transmitting	
		Interdisciplinary Center for Wide Bandgap	information by sending light pulses through an optical fiber. As a member of the	
		Semiconductors;	Electronics and Photonics Solutions Group at the Institute for Energy Efficiency, Dr.	http://www.ece.ucsb.edu/Faculty/Coldre
Coldren, Larry	Electrical & Computer Engineering	California NanoSystems Institute	Coldren has worked to make these devices high-speed and efficient.	n/
			Professor Collins' research emphasis is the study of mechanisms regulating the	
			reproduction and development in vertebrate animal models, comparative	
			reproductive endocrinology and fertility, reproductive physiology in teleosts,	
			endocrine regulation of viviparity, evaluation of candidate species for mariculture,	
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			marine teleost larval rearing technology, and the development of novel	

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			Professor Cook's current research explores early modern writing about forests and	
			trees, considering the shifting and sometimes colliding concepts of value and the	
			history of environmental ethics. In her current project, "Talking Trees in Long 18th-	
			Century British Literature," she examines the simultaneous development of	
			silviculture and silviphilia often radically opposed ways of valuing trees that are	
			still with us today during the eighteenth century. Her work argues that this history	
			of contradictory attitudes toward the environment can help us understand how we	http://www.english.ucsb.edu/people/coo
Cook, Elizabeth	English		respond to and address critical environmental issues today.	k-e-heckendorn
			Dr. Cooper's research has been centered on the factors that determine the	
			abundances and distributions of aquatic organisms. Past research foci have	
1			included the impacts of acid deposition, livestock grazing, pollution, climate change,	
			exotic species, and native species loss on freshwater ecosystems. Currently, much	http://www.lifesci.ucsb.edu/Ecology
		Santa Barbara Channel Long-term Ecological	of his work revolves around the effects of land use changes, fire, and forestry	Evolution & Marine
Coores Coott				
Cooper, Scott	Ecology, Evolution & Marine Biology	Restoration Program	practices on streams in California.	Biology/faculty/cooper/
			Dr. Costello's research focuses on natural resource management and property	
			rights under uncertainty, with a particular emphasis on information, its value, and its	
			effect on management decisions. He studies how to design and evaluate the	
		Sustainable Fisheries Group; Earth Resource		
Costello, Christopher	Bren	Institute;	sustainable fisheries and environmental markets.	http://fiesta.bren.ucsb.edu/~costello/
			Dr. Culver's research interests include understanding the life history characteristics	
			and population dynamics of aquatic organisms and applying this information to	
			improve management of non-native invasive species and fisheries resources and to	
			enhance culture technologies of marine species. She also is evaluating ways to	
			assist the state with management of fisheries resources, through collaborative	
			fisheries research to collect field data and promote its integration into the	
Culver, Carolynn		Marina Salanga Instituta		
Cuiver, Carolynn		Marine Science Institute	management process.	
			Dr. D'Antonio's research is primarily focused on factors driving changes in	
			ecosystem structure and functioning. She evaluates how species, communities, and	
			ecosystem processes are responding to human-altered fire regimes, species	
			invasions, nitrogen deposition, and climatic fluctuations, including drought. Through	
			her research, she seeks to provide a scientific basis for the management and	http://www.lifesci.ucsb.edu/Ecology
	Ecology, Evolution & Marine	Cheadle Center for Biodiversity & Ecological	restoration of ecosystems and for predicting how species composition will change	Evolution & Marine
D'Antonio, Carla	Biology; Environmental Studies	Restoration	under current and future stressors.	Biology/faculty/dantonio/
			Dr. Davis brings conservation science and geographical analysis to bear in land use	
			planning and the conservation of wild species. His research focuses on the	
			landscape ecology of California plant communities, the design of protected-area	
			networks, rangeland and farmland conservation, and the biological implications of	
Davis, Frank	Bren	Marine Science Institute; Sedgwick Reserve	regional climate change.	http://www.biogeog.ucsb.edu/
Davis, Flaik				http://www.biogeog.ucsb.edu/
			Daniel Dawson is currently working on the construction of a "net zero energy"	
			classroom/lecture hall. In 2012, he received a grand grant of State bond funds (Prop	
			84) from the CA Wildlife Conservation Board for the project. The grant is providing	
			partial funding for three large infrastructure projects. The classroom is 2700 sq. ft.,	
			with 1700 of that in the main room, the remainder restrooms, and the lobby. For	
			heating and cooling the classroom, he will employ ground source heat pump	
			technology. The electric load from the heat pumps will be covered by roof mounted	
		Marine Science Institute; Valentine Eastern	photovoltaic cells, resulting in a building that is a net zero consumer of fossil fuel for	
Dawson, Daniel		Sierra Reserve	operation.	
- ,			Dr. Deacon's research focuses on natural resource economics, environmental	
			economics, and the political economy. He examines of the effects that different	
			political systems have on the use of natural resources, environmental quality and	
			the provision of public goods. More specifically, he has focused on the use of	http://www.econ.ucsb.edu/people/faculty
Deacon, Robert	Economics: Bren		property rights systems to manage fisheries and marine habitat protection.	directory.html?f=robert t. deacon
Deacon, Robert	Economics; Bren	Calid Chata Lighting and Example Orate	property rights systems to manage lishenes and manne habitat protection.	_urectory.ntmi?=robert_t_deacon
		Solid State Lighting and Energy Center;		
		Interdisciplinary Center for Wide Band-Gap	Dr. Denbaars' research interests include growth of wide-bandgap semiconductors	
		Semiconductors;	and their application to Blue LEDs, lasers, and high power electronic devices. His	
1			the second to the second fact that following the second second second second second This second second is the	Intto://www.motoriala.uooh.odu/I.INI/C/D
Den Baars, Steven	Materials	Center for Energy Efficient Materials; Institute for Energy Efficiency	research is used for the fabrication of new semiconductor devices. This research is important to the development of more energy efficient lighting.	http://www.materials.ucsb.edu/LINKS/P ROFdenbaars/hp.denbaars.html

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			Dr. Deschênes' research focuses on economic and health impacts of global climate	
			change, adaptation to climate change, and the relationship between energy markets	
			and labor markets. More specifically, his current projects include the impacts of	
		National Bureau of Economic Research;	climate change in India and the effect of electricity prices on the labor market. He	
		Institute for the Study of Labor; Broom Center		
Deschênes, Olivier	Economics	for Demography;	reducing heat-related mortality in the United States.	http://www.econ.ucsb.edu/~olivier/
			Dr. Dickey studies interdisciplinary oceanographic and environmental problems. He	
			has researched air-sea interactions, coastal processes, pollution, and ocean	
			technology, among other things. He recently analyzed ocean eddies in southern	
			California, as well as creating an overview of sea state conditions and air-sea fluxes	
			associated with the Office of Naval Research's Radiance in a Dynamic Ocean	
			(RaDyO) field program. Through his research, Dr. Dickey has helped to launch key	
			multi-platform observational networks to model and monitor global climate change	
Dickey, Tommy	Geography		and coastal pollution.	http://www.opl.ucsb.edu/tommy/
Dickey, forming			Dr. Donelan conducts research into pedagogical issues related to sustainability,	
Develop James	Faclish			
Donelan, James	English		including remote teaching.	
			Dr. Dozier's research interests are in the fields of snow hydrology, earth system	
			science, remote sensing, and information systems. His current research projects	
			include analyzing snow-climate interactions and snow runoff. He is researching	
			snowmelt runoff estimates in High Asia, where a billion people depend on snow and	
Dozier, Jeff	Bren		ice melt for their water resources.	y/jeff_dozier.htm
			Dr. Dudley examines the effects of non-native, invasive species in aquatic and	
			riparian ecosystems, the mechanisms underlying invasion success and plant-	
		Marine Science Institute; Cheadle Center for	herbivore interactions, and the restoration of invaded ecosystems for biodiversity	http://rivrlab.msi.ucsb.edu/peoplepages/
Dudley, Tom		Biodiversity and Ecological Restoration	enhancement and improved ecosystem function.	dudley.php
Buuloj, Iom			Jenifer Dugan's research as a coastal marine ecologist involves studying basic	
			guestions concerning the influence of environmental and anthropogenic drivers on	
			community and population dynamics of marine animals across a diversity of	
			shorelines, latitudes, and time scales. She investigates ecological connectivity,	
			marine conservation and restoration, responses to and recovery from disturbance,	
			species interactions, historical ecology, and the physical and biological drivers of	
			community structure and function in coastal ecosystems. Her collaborations with	
			coastal managers to conduct more applied studies have increased our	
			understanding of the ecological impacts and implications of widespread human	
			alterations of the coast, including urban development, shoreline armoring, beach	
			grooming, oil spills, and climate change, and have provided new insights into	
Dugan, Jenifer		Marine Science Institute	intertidal recovery dynamics, restoration approaches, and adaptation strategies.	
			Dr. Dunne's research has focused on issues related to natural hazards and resource	
			management. His current research interests include hydrology, sediment transport,	
			and river channel change in lowland floodplains in California and the Amazon basin.	
			Related activities include studies of how physical and biological processes interact	
			to create and maintain habitat for fish and their food sources in the Merced River,	
			CA, and how flow regulation in the San Joaquin River, CA, interacts with natural	http://www.bren.ucsb.edu/people/Facult
Dunne, Thomas	Computer Science		environmental conditions to affect water temperatures and spawning habitat.	y/thomas_dunne.htm
			Dr. Eisenhower's research has two main thrusts: 1) tools for data analysis,	
			aggregation, and visualization of building performance data, and 2) methodologies	
			to enhance design and operations of buildings, using model-based engineering.	
			Buildings generate enormous amounts of data that are rarely studied. By creating	
			algorithms that can precipitate key features of their performance, faulty equipment	
			and suboptimal performance can be identified and addressed. Similarly, by	
			improving models used for building design, optimized design and operational	
1			strategies can be identified. Dr. Eisenhower's research is creating new ways to	
			analyze building data and use engineering models leading to high performance	http://engineering.ucsb.edu/~bryane/ind
Eisenhower, Bryan	Mechanical Engineering	Center for Energy Efficient Design	building designs.	ex.html

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			Dr. El Abbadi researches ways to create more energy-efficient computing. He	
			recently helped design a data management infrastructure for location-based	
			applications and services such as those commonly used on smartphones and	
			tablets. The goal of the design is to effectively deal with the growing number of	
			location-based applications and services, which sometimes overwhelm database	
			systems, without sacrificing the system's availability or ability to tolerate faults	
			occurring in its internal components. Dr. El Abbadi's work has helped to reoptimize	
El Abbadi, Amr	Computer Science	Institute for Energy Efficiency	database techniques which both improves performance and boosts fault-tolerance.	http://www.cs.ucsb.edu/~amr/
			John Engle is a research biologist that works with the Multi-Agency Rocky Interdidal	
			Network (MARINe). As a MARINe Coordinator, John helps to conduct long-term	
			marine life monitoring at over 200 West Coast rocky intertidal sites to evaluate	
			environmental health and establish dynamic baselines with relation to climate	
			change, disease, human impacts, and Marine Protected Areas, while also facilitating	
			communications, websites, and data exchange; overseeing sites and protocols; and	
Engle, John		Marine Science Institute	coordinating the management of databases.	
Engle, conn			Dr. Falasca-Zamponi's book "Waste and Consumption: Capitalism, the	
			Environment, and the Life of Things" examines the link between waste and	
1			consumption through a cultural approach that integrates environmental concerns	
Falasca-Zamponi,			with reflections on the role that consumption has come to occupy in our	
Simonetta	Sociology; French and Italian	Institute for Energy Efficiency	contemporary capitalist societies.	
Simonella	Sociology, French and Italian		Dr. Fleishman's research focuses on applications of environmental science to	
			management of public and private lands in the western United States. Her research	
			explains and projects the responses of animals to changes in land cover, land use,	
			and climate. By using predictive modeling and geospatial analysis, her research	
			aims to develop scientifically reliable, cost-effective approaches for understanding	http://www.eri.ucsb.edu/people/erica-
Fleishman, Erica	Bren	Earth Resource Institute;	the distribution of assemblages and species and underlying mechanisms.	fleishman
			Dr. Florsheim's research focuses on sediment dynamics in fluvial systems and	
			emphasizes interactions between geomorphic processes, climate, humans, and	
			ecosystems. Current investigations include a field study to understand long and	
			short-term recovery of chaparral environments in southern California following	
			wildfire and quantification of a sediment budget in a coastal watershed in central	
			California. Recent work focuses on channel incision and bank erosion (northern	
			California), travertine morphology (China), and effects of climate variation and	http://www.eri.ucsb.edu/people/joan-
Florsheim, Joan		Earth Resource Institute	change (Central Valley).	florsheim
			John Foran is a professor of sociology. His current areas of interest include the	
			comparative study of 20th-century revolutions and 21st-century radical social	
			change, development, climate, globalization, and the global justice and climate	
			justice movements. Foran is currently the UCSB Sustainability Champion and is	
			engaged in a long-term research project on the global climate justice movement with	
			Richard Widick. The project, the International Institute of Climate Action & Theory	
			(IICAT) Climate Justice Project, will try to improve our understanding of global	
Foran, John	Sociology		warming and climate change.	
			Dr. Anabel Ford works with the MesoAmerican Research center and combines	
			archaeological research with traditional Maya knowledge. Her work involves	
			studying patterns of settlement and environment by examining the common human	
			aspects of the ancient Maya civilization that shed light on sustainable farming	
			practices. Much of Dr. Ford's work takes place at the ancient Maya city center of El	
			Pilar, which she has transformed into a living museum and laboratory. Using the	
			landscape as a tool of conservation, Dr. Ford has turned El Pilar into a model of	
1			synergy between nature and culture, and her focus on cultural ecology is being	
L		MesoAmerican Research Center; Institute for	[] [] [] [] [] [] [] [] [] []	1
Ford, Anabel	Latin American and Iberian Studi	es Social, Behavioral and Economic Research	evolution of human societies and the environment.	

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			Dr. Ford is the Director of the Center for the Sustainable Use of Renewable	
			Feedstocks (CenSURF). CenSURF has helped facilitate projects at UCSB and	
			three other universities that aim to promote sustainable practices in the chemical	
			sciences. These research projects include new ways to synthesize organic	
			compounds like ethylene from fixed sources of carbon dioxide and the conversion of	
			biomass solids like agricultural and forest waste products to industrial chemicals	
			and fuels. Preparing chemicals and fuels from these renewable feedstocks will	
			reduce the use of nonrenewable fossil carbon resources and the carbon footprint on	
Ford, Peter	Chemistry and Biochemistry	Feedstocks; Earth Research Institute	the environment.	http://www.chem.ucsb.edu/fordgroup
		Mitsubishi Chemical Center for Advanced		
		Materials; Complex Fluids Design		
		Consortium; Institute for Collaborative	Dr. Fredrickson conducts research that involves designing specialty block	
		Biotechnologies:	copolymers used to advance lithography strategies to shrink the dimensions of	
			microelectronic devices. He works to make these devices faster and more energy-	http://www.chemengr.ucsb.edu/people/f
Fradrickson Clann	Chamical Engineering	NanoSystems Institute;	efficient.	aculty d.php?id=25
Fredrickson, Glenn	Chemical Engineering			acuity_0.pnp?id=25
			Dr. Frew's research interests lie in the field of environmental informatics, a synthesis	
			of computer, information, and Earth sciences. His current research is focused on	
			geospatial information provenance, remote sensing data products, and	
Frew, James	Bren	Earth Resource Institute	environmental information management.	http://eil.bren.ucsb.edu/~frew/
			As a founding member of the UCSB Climate Hazard Group, Dr. Funk's research has	
			focused on drought monitoring, drought prediction, and the evaluation of long-term	
			trends in climate and food security. Recently, Dr. Funk has worked to implement	
			improved methods of monitoring trends and predicting droughts, primarily in Sub-	
			Sarahan African communities. This monitoring and predicting is done by using	
			satellites to track precipitation patterns that can be linked to long-term trends. Dr.	
			Funk's research allows African officials to make sustainable decisions concerning	http://chg.geog.ucsb.edu/people/chris-
Funk, Chris	Geography	UCSB Climate Hazard Group	community development and future food security.	funk/
			Dr. Gaines' research addresses a broad range of issues in ecology, sustainable	
			fisheries, conservation biology, and climate change. More specifically, he focuses on	
			how different populations respond to climate variation, as well as on the design	http://www.lifesci.ucsb.edu/Ecology
	Ecology, Evolution & Marine		elements that enhance both conservation and fisheries management. Gaines also	Evolution & Marine
O size a Otaria				
Gaines, Steve	Biology; Bren		studies exotic species patterns and biodiversity.	Biology/faculty/gaines/index.html
			Dr. Colin Gardner's current research explores the ways in which dissolving the	
			Kantian dialectic structure between man, art, and world in favor of an anti-speciesist	
			structure of assemblage, connectivity, and relationality between aesthetics,	
			creativity, and machinic subjectivity can produce a new vision for a more ethical and	
			ecologically sustainable world. His work brings together issues of accountability,	
			effect, and ecosophy as revolutions through all media, focusing specifically on art,	
			film, installation, and text, thereby opening the human to more ethical relations with	
Quarta en Quita	Literation of Antonia I Analytic stress			
Gardner, Colin	History of Art and Architecture		the world.	
			Dr. Gautier's research interests include global radiation and water, El Niño, and	
			earth system science education. She looks at the science of climate change and	
			earth system sciences using computer science. Dr. Gautier has examined global	
		The Institute for Computational Earth System	warming from different perspectives and has considered how the debate	
Gauiter, Catherine	Geography	Sciences	surrounding this concern has played a role in education.	http://www.geog.ucsb.edu/~gautier
			Dr. Geyer's research focuses on industrial ecology. His research interests include	gauloi
			the life cycle of manufactured goods and the environmental and economic potential	
			of reuse and recycling activities. His overarching research goal is to help develop	
	_		the science and knowledge necessary to reduce the environmental impact from	http://www.esm.ucsb.edu/people/Facult
Geyer, Roland	Bren	Institute for Energy Efficiency	industrial production and consumption.	y/roland_geyer.htm
			Dr. Gibou's research focuses on the design and applications of high resolution	
			computational methods. These are used in materials science in the study of	
		Institute for Energy Efficiency; Center for	solidification processes used in the energy sector, as well as in the study of fluid	
		Control, Dynamical Systems and	motion applied to flows at the micro and the nanoscale levels. Applications include	
	Markenial Frain 1. O. 1		the study of flows in porous media, including those in oil reservoirs or in porous	
	Mechanical Engineering; Computer	Design; Greenscale Center for Energy-	electrodes of supercapacitors. Dr. Gibou's work has helped develop models	http://www.engr.ucsb.edu/~fgibou/Home
Gibou, Frederic	Science; Mathematics	Efficient Computing	enabling the understanding of the charging of supercapacitors.	.html

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			Professor Gilbert works with the Greenscale Center for Energy-Efficient Cooling to	
			develop solutions to the rapidly increasing cost of powering data centers around the	
			world. His research in high-performance computing and engineering is applied to	
			cooling technologies for energy-efficient computational facilities by developing	
		Greenscale Center for Energy Efficient	efficient numerical algorithms for computationally modeling airflows on	
Gilbert, John	Computer Science	Computing; Institute for Energy Efficiency	supercomputers.	http://www.cs.ucsb.edu/~gilbert/
			Jeff Goddard's research is centered on the natural history and systematics of	
			intertidal invertebrates. He has recently been using historical data sets of	
			abundance, combined with new sampling, to examine long-term changes in the	
			fauna of the northeast Pacific Ocean, including those related to climate change and	
			the explosive human population growth of southern California in the last half of the	
Goddard, Jeff		Marine Science Institute	20th century.	
			Professor Gordon's research focuses on the synthesis and characterization of	
			nanoscale materials, as well as the development of scanning probe microscopy	
			(SPM) methods for optical, electrical, and mechanical interrogation of nanoscale	
			systems found in different venues, such as material science, microelectronics,	
			catalysis, and biology. His work with various materials in nanoscale materials	
			involves spectroscopy of organic semiconductors for organic light emitting diode	
Gordon, Michael	Chemical Engineering	Institute for Collaborative Biotechnologies	and photovoltaic applications.	
	<u> </u>		A member of the Center for Energy Efficient Materials (CEEM), Professor Gossard	
			contributes to research on metal/semiconductor nanocomposites that will allow the	
			modification of intrinsic material properties that are important for high efficiency	http://engineering.ucsb.edu/faculty/profil
Gossard, Arthur	Materials	California NanoSystems Institute	thermoelectrics.	e/169
			Dr. Goulias' research interests include sustainable and green transportation, as well	
			as human-environment relations. His models and simulations track fuel consumption	
			and pollutants emitted (greenhouse emissions). He has also studied non-motorized	
Goulias. Kostas	Geography			http://mysite.verizon.net/resocp1k/
			Dr. Graves' research interests include public history, California history,	
			environmental history, and U.S. history. He specializes in federal water resources	
			development and resource allocation. He also conducts environmental and historical	
			investigations of industrial sites in the partnership Graves & Neushul Historical	http://www.history.ucsb.edu/people/pers
Graves, Greg	History; Environmental Studies		Consultants.	on.php?account_id=88
Claves, cleg			Professor Gurven's research focuses on the effect of ecological and social factors	
			on the development of behavior, psychology, and physiology. In a recent publication,	
			"Successful hunting increases testosterone and cortisol in a subsistence	
			population," Professor Gurven explores how successful hunting spikes testosterone	http://www.anth.ucsh.edu/faculty/guryen
Gurven. Michael	Anthropology	Neuroscience Research Institute	levels and increases reproductive success in humans.	
Ourven, Michael	Anthropology		Stephanie Hampton's research interests range from basic research in aguatic	
			science using statistical analysis of large databases to broader applications of	
			empirical evidence in environmental issues and policy. Currently, her research is	
			largely focused on understanding the effects of climate dynamics on the planktonic	
Hampton, Stephanie		Marine Science Institute	base of the food web in Lake Baikal, Siberia.	
nampion, stephanie			As Senior Fellow in Climate Change Biology at Conservation International's (CI)	
		Forth Deserves Institutes Conton for Arrille d	Center for Applied Biodiversity Science, Dr. Hannah examines the role of climate	
		Earth Resource Institute; Center for Applied	change in conservation planning. His research models climate impacts on species in	
llessel. Les	Base	Biodiversity Science; Institute for Energy	California and, with the National Botanical Institute in Cape Town, South Africa,	http://www.bren.ucsb.edu/people/Facult
Hannah, Lee	Bren	Efficiency	models biotic change resulting from global warming in biodiversity hot spots.	y/lee_hannah.htm
			Professor Harthorn works with the UCSB Center for Nanotechnology in Society. Her	
			recent publications explore the implications that nanotechnology has for society and	
		UC Center for Environmental Implications of	the environment, including public perception of nanotech applications for energy	
		Nanotechnology	and the environment and the impact that nanotechnology has on environmental	http://www.cns.ucsb.edu/people/barbara
Harthorn, Barbara	Anthropology; Feminist Studies	Center for Nanotechnology in Society;	health.	herr-harthorn-0

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		Institute for Multi-scale Materials Studies;		
		Institute for Collaborative Biotechnologies;		
		Mitsubishi Chemical Center for Advanced	As director of the Material Research Lab at UCSB, Dr. Hawker has overseen	
		Materials; International Center for Materials	research that unlocks the valuable polymers held in plastic food packages so as to	
		Research; Materials Research Laboratory;	use them to benefit society. His lab is working to transform polyactide plastics into	
		Center for Nanomedicine; California	specialty chemicals commonly used by industrial and food manufacturers. Dr.	
		NanoSystems Institute; Center for	Hawker's team hopes to recycle plastics into a material equally as valuable and	
Hawker, Craig	Chemistry and Biochemistry	Nanotechnology in Society	useful.	http://hawkergroup.mrl.ucsb.edu/
			Dr. Hayton works with a research group on projects involving the synthesis and	
			characterization of new inorganic and organometallic complexes and materials. In	
			2010, he was awarded a Sloan Fellowship. Dr. Hayton has plans to use the	
			fellowship to further research into uranium mediated catalysis. This research is a	
			part of his exploration into actinide organometallics that will help improve the	http://www.chem.ucsb.edu/people/facult
Hayton, Trveor	Chemistry and Biochemistry		nuclear fuel cycle and the treatment of nuclear waste.	y/hayton/
			Dr. Heeger, a Nobel Prize Laureate, researches the technology of semiconducting	
			and metallic polymers. Part of his research has focused on low cost, thin, flexible	
			solar cells. Dr. Heeger has discovered a way to make solar cell materials soluble.	
	Chemistry and Biochemistry;	Center for Nanomedicine;	This solar cell "liquid-ink" can be printed like a newspaper at very low cost,	http://www.mrl.ucsb.edu/mrl/faculty/hee
Heeger, Alan	Physics; Materials	California NanoSystems Institute	revolutionizing the solar cell manufacturing process.	ger.html
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			David Herbst's research involves studies of salt lake ecosystems and the ecology	
			and physiology of aquatic invertebrates and algae. In addition, his research extends	
			to spring ecosystems and streams. David Herbst's past projects include studies of	
			sediment deposition and its effects on benthic invertebrates, establishing a	
			monitoring network to detect the effects of climate change on mountain stream	
			hydrobiology, and investigations of the impacts of a variety of disturbance stressors	
			on stream community ecology, including livestock grazing and management, forest	
			use practices, acid mine drainage, introduced invasive species (Trout, New Zealand	
			Mud Snails), roads and erosion, and restoration of degraded habitats. The focus of	
Lindent David		Marine Oniones Institute	many of these studies has been to provide a scientific foundation to inform	
Herbst, David		Marine Science Institute	management decisions by state and federal environmental and regulatory agencies.	
			Dr. Hess' research focuses on remote sensing, field, and modeling studies in order	http://www.and.com/and
1.1		Forth Descent Institute	to quantify key drivers of land cover and land use change on the lower Amazon	http://www.eri.ucsb.edu/people/laura-
Hess, Laura		Earth Research Institute	floodplain.	hess
			Ken Hiltner is a professor of English literature and Environmental Studies. He	
			explores the history of literature and the relationship between literary history and our	
			Earth in order to better understand how we arrived at our current environmental	
			beliefs. Hiltner is active in examining environmental issues from various	
			perspectives. He hosts a weekly podcast, the Environmental Humanities Podcast,	
			where he conducts interviews with scholars and artists to discuss how	
			environmental issues are taken up across the humanities. He also has given various	
Lillman Kan	English: English mantel Ot		talks, such as "Nature: How Much Does it Matter," "The Role of Our Past In Our	http://www.english.ucsb.edu/people-
Hiltner, Ken	English; Environmental Studies		Environmental Future," and "Environmental Criticism: What is at Stake?"	detail.asp?PersonID=266
			Dr. Gretchen Hofmann is an eco-physiologist that studies ocean acidification as a	
			result of the absorption of carbon dioxide into the oceans. Hofmann's work	
			investigates whether or not organisms can adapt to ocean acidification. Her work	
			involves studying Antarctic ecosystems which absorb more carbon dioxide due to	
		Conton for the Chudu of Conton Antalify I'	freezing water temperatures. By studying the response of the Antarctic pteropod,	
Usfaran Oratakan	Fasters Frankting & Maria - Distance	Center for the Study of Ocean Acidification	Hofmann hopes to understand how future decreases in the pH of the oceans around	
Hofmann, Gretchen	Ecology, Evolution & Marine Biology	Tano Ocean Change	the world will affect marine organisms.	/hofmann/
			Dr. Holbrook's research focuses on population dynamics, marine species	
			interactions, and impacts on coral reef ecology. She is currently doing research on	http://www.life.edi.com/h.a.du/E.a.d
1			temporal patterns in reef communities by analyzing long-term trends in population	http://www.lifesci.ucsb.edu/Ecology
Listhan als Oaltha	Factory Fricketing & Marin Bill	Marine Science Institute; Long Term	abundance and species richness. This research is especially vital when looking at	Evolution & Marine
Holbrook, Sally	Ecology, Evolution & Marine Biology	IEcological Research Network	the adverse effects of climate change on marine ecosystems.	Biology/faculty/holbrook/

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			Dr. Holden's research blends environmental engineering with soil microbiology. Her	
			current research projects deal with the interactive effects of soil, water, and nutrients	
			on bacterial processes, as well as coastal water quality in urban environments. She	
	_		focuses on bacteria as both an agent of environmental restoration and of	http://www.bren.ucsb.edu/people/Facult
Holden, Patricia	Bren	UCSB Natural Reserve System	environmental degradation.	y/patricia_holden.htm
			Dr. Homyak's research focuses on how humans have altered biogeochemical cycles	
			and its effects on the environment. More specifically, his research examines the	
			production of gaseous N emissions from soils and how they are influenced by dry-	
			season processes. Because N emissions influence the chemistry of the lower	
			atmosphere, he is interested in developing an understanding of important links	https://labs.eemb.ucsb.edu/schimel/josh
Homyak, Peter	Ecology, Evolution & Marine Biology	Marine Science Institute	between soil and atmospheric processes.	/Pete.html
			Dr. Israelachvili researches intermolecular and intersurface forces in systems. He	
			has also worked to develop new experimental techniques for studying different	
			materials and surfaces. This research has technological applications, such as the	
			development of biocompatible surfaces, and can also be used to diagnose and treat	
			patients. Recently, Dr. Israelachvili has researched the adhesion potential in the	
			mussel foot protein which helps advance the development of artificial wet	
		Institute for Collaborative Biotechnologies;	adhesives. He has also recently worked to understand the energetics of ionic liquids	
		Materials Research Laboratory; California	which could lead to the creation of cleaner, more sustainable batteries and energy	http://www.mrl.ucsb.edu/mrl/faculty/isra
Israelachvili, Jacob	Chemical Engineering	NanoSystems Institute	storage devices.	elachvili.html
			Dr. Jacobs' research is oriented toward the study of cellular and molecular	
			mechanisms of drug action. More specifically, one of his projects examines the	
			harvest of marine organisms that are useful for medical and industrial purposes.	
			This project looks at several oil and gas platforms in the Santa Barbara Channel to	
	Molecular, Cellular, and	Marine Biotechnology Center; Marine	assess the issue of over-harvesting natural products. The research may reduce or	https://www.mcdb.ucsb.edu/people/facul
Jacobs, Robert	Developmental Biologylogy	Science Institute	eliminate the ecological impacts of harvesting marine organisms.	ty/jacobs
			Lisa Jevbratt a professor in the art department and an artist who has focused her	
			research and art on investigating human/animal relationships for several years. She	
			is developing software that simulates how animals see, and she is teaches a yearly	
			class in interspecies collaboration in the art department. Her work and teaching is	
			continuously engaged with questions about sustainability though examining the	http://artsite.arts.ucsb.edu/people/facult
Jevbratt, Lisa	Art		relationships we create with other species and our shared environment.	y/jevbratt.html
			Dr. Charles Jones co-heads the Climate Variations and Change research group. His	
			work is dedicated to achieving a better understanding of the Earth's present and	
			future climates on different temporal and spatial scales. His research interests are in	
			Dynamic Meteorology and Climate Sciences, and his research topics include the	
			Madden-Julian Oscillation (MJO), predictability of extreme events (especially	
			precipitation), monsoon systems, climate change, WRF regional modeling, and	http://www.eri.ucsb.edu/people/charles-
Jones, Charles	Geography	Earth Research Institute	wildfires.	jones
			Matthew Jones' research focuses on environmental informatics, including the	
			management, integration, analysis, and modeling of heterogeneous environmental	
			data. Recent projects have produced effective new techniques for information	
			management and analysis, including metadata standards, data management	
			software, and data analysis software, such as scientific workflow systems. Recent	
			projects focus on Kepler, an open-source scientific workflow system that Jones co-	
			founded with other researchers; DataONE, a global data repository aimed to	
			promote access to data about life on earth and the environment; and SONet, an	
		Marine Science Institute; National Center for	effort to achieve environmental data interoperability through semantic modeling of	
Jones, Matthew		Ecological Analysis and Synthesis	scientific observations.	
			Carrie Kappel is a conservation biologist and community ecologist. Major themes of	
			her work include quantifying the ways humans depend upon and impact marine	
			species, habitats, and ecosystems; understanding the spatial distribution of	
			ecological and human components of ecosystems in order to inform conservation	
			and management; and developing ways to integrate biophysical and socioeconomic	
		National Center for Ecological Analysis and	data to support environmental decision making in coastal ecosystems. Her research	
1		Synthesis; Center for Marine Assessment	has been aimed at informing marine protected area design, ecosystem based	
Kappel, Carrie	1	and Planning	management, and marine spatial planning.	

Lafferty, Kevin		Reserve	kelp forests).	nttp://nomes.msi.ucsb.edu/~lafferty/Kevi n Lafferty/About%20Me.html
		Marine Science Institute; Coal Oil Point	abalone, southern sea otter, and western snowy plover. In addition, Dr. Lafferty studies the effect of fishing on marine ecosystems (local estuaries, beaches, and	http://homes.msi.ucsb.edu/~lafferty/Kevi
			work also deals with conservation biology issues. Such research includes ways to further the protection and recovery of the endangered tidewater goby, black	
	Biology		Dr. Lafferty's research mainly focuses on the ecology of parasites; however, his	
Kuris. Armand	Ecology, Evolution & Marine Biology	Marine Science Institute	of human tropical diseases. This information about parasites is useful for assessing ecosystem function in wetlands.	https://www.msi.ucsb.edu/people/faculty /armand-kuris
			research looks at the biological control of exotic marine pests and biological control	
			and substantially alters trophic relationships and the structure of food webs. His	
			examines how disease contributes substantially to the energetics of the ecosystem	
NUCZENSK, DIANUON			Dr. Kuris' research goal is to reveal the role of infectious diseases in ecosystems. It	
Kuczensk, Brandon	Bren	Institute for Energy Efficiency; Institute for Social, Behavioral and Economic Research	implications of waste management policy, notably plastic packaging and use of lubricating (motor) oil.	http://iee.ucsb.edu/faculty/kuczenski
			Department of Toxic Substances Control), Dr. Kuczenski studies the environmental	
1			funding from various California state agencies (including CalRecycle and the	
1			life cycle assessment and how they communicate their findings to the public. With	
1			manage information about processes and products for sustainability reporting and	
Kryder, LeeAnne	Environmental Studies	Writing Program	problems. Dr. Kuczenski's research focuses on how researchers, firms, and policy makers	
			methods to expand awareness of problems and practices that could address the	
			issues and concerns and work in teams to propose solutions for these issues or	
			students regularly study and conduct research in order to learn about environmental	
			developing awareness and proposing remedies for environmental problems. Her	
Krintz, Chandra	Computer Science		models and the control of cooling technologies. Professor Kryder's research involves sharing and refining the pedagogy of	http://www.cs.ucsb.edu/~ckrintz/
Krintz Charden	Electrical & Computer Engineering;		which to migrate and consolidate computations when used in conjunction with	http://www.oo.uoob.cdu/_skiiste/
1			computing through her research in virtualization technology, a powerful tool with	
			mobile, resource-constrained devices). She contributes to the field of energy-aware	
1			improve performance (for high-end systems) and that increase battery life (for	
			programming language, virtual runtime, and operating system techniques that	
			Professor Krintz is a member of the Greenscale Center for Energy Efficient Computing, and her research interests include automatic and adaptive compilers,	
King, Jennifer	Geography		California grasslands.	http://geog.ucsb.edu/~jyking/
			include examination of biotic and abiotic factors affecting the carbon cycle in	
			and how human decisions impact the fluxes of these elements. Current projects	
			biogeochemical cycling of carbon, nitrogen, and phosphorus in urban households	
			natural and human-induced environmental changes. She recently investigated	
			research focuses on biogeochemical processes, which are those processes that cycle elements on Earth, and examines how these processes are influenced by	
			Dr. King studies the interactions between soils, plants, and the atmosphere. Her	
Kendall, Bruce	Bren	Computational Earth Systems Science	management and how to manage tradeoffs among multiple ecosystem services.	y/bruce_kendall.htm
		Marine Science Institute; Institute for	the design of protected areas for biodiversity conservation and fisheries	http://www.bren.ucsb.edu/people/Facult
			and the effects of current-driven dispersal on marine fish species. He also studies	
			the causes of population fluctuation, the prediction of the extinction of rare species,	
			Dr. Kendall applies the science of population ecology to the conservation of rare species and to the management of harvested populations. His research focuses on	
Keller, Edward	Studies	Geological Society of America	hydrology and ecology of small coastal lagoons in southern California.	http://www.geol.ucsb.edu/faculty/keller/
	Earth Science; Environmental		systems. Dr. Keller recently started a long-term research project that looks at the	
			environmental effects of channelization, and the impact of large debris on river	
			activities. More specifically, he focuses on river restoration management,	
Relier, Arturo			Dr. Keller's research is divided into the study of stream processes and tectonic	http://www.bren.ucsb.edu/~keiler
Keller, Arturo	Bren; Mechanical Engineering	Toxicology and Chemistry; Institute for Multi- scale Materials Studies	little information is available. He also does work at large scales to design better management strategies for common chemicals such as fertilizers and pesticides.	http://www.bren.ucsb.edu/~keller
		Professors; Society for Environmental	interested in emerging materials such as nanoparticles and biochemicals, for which	
		Environmental Engineering and Science	seeking ways to minimize impacts while achieving the benefits. He is particularly	
		Geophysical Union; Association of	our modern society by understanding and quantifying their potential impacts and by	
		American Chemical Society; American	Dr. Keller's research focuses on the sustainable use of chemicals and materials in	

	1		Denial Lauralania research has been fearmed on the shudy of as all as a fear in	1
			Daniel Lavalee's research has been focused on the study of nonlinear effects in	
			seismology: first in the study of nonlinear soil dynamics and earthquake strong	
			ground motion and second in the study of spatial complexity of earthquake slip or	
			pre-stress distribution over the fault surface. A better understanding of earthquakes	
			and tsunamis will help mitigating damage to the environment. A recent example is	
			the situation in Japan after the 2011 Tohoku earthquake, especially regarding	http://www.eri.ucsb.edu/people/daniel-
Lavallee, Daniel		Earth Research Institute	nuclear accidents.	lavall%C3%A9e
			Professor Lea's research with the UCSB Earth Science Department and Marine	
1			Science Institute involves the study of climate change, paleoclimatology and	
			paleooceanography, and the global carbon cycle. His research focus involves the	
			study of past climate change in order to establish a context for future global	
Lea, David	Earth Science		warming.	http://www.geol.ucsb.edu/faculty/lea/
			Dr. Lenihan's primary research interests lie in the fields of applied population and	
			community ecology, especially in connection with fisheries management and	
			restoration, as well as resource management. He is currently working on a project	
		Ecological Society of America; International	that aims to develop new techniques for coral restoration in French Polynesia. He is	
		Coral Reef Society; Western Society of	also examining impacts of marine reserves on populations of target species, fishery	
Lenihan, Hunter	Bren	Naturalists; Marine Science Institute	vields, and fishing communities.	http://fiesta.bren.ucsb.edu/~lenihan/
			Sarah Lester has been the Research and Program Manager of the Sustainable	
			Fisheries Group at UCSB for the last three years. She also helps SFG with science	
			communications and works with on-the-ground partners to connect science and	
			research with the implementation of conservation and sustainable fisheries projects.	
			Her recent research has focused on the ecological effects of marine protected	
			areas, applying tradeoff analysis to marine resource management and spatial	
			planning, sustainable fisheries management, and ecosystem-based management.	
			She has also worked recently as scientific staff for the Ocean Health Index project,	
			which aims to establish a new world standard for measuring ocean health and to	
Lester. Sarah		Sustainable Fisheries Group	improve ocean governance and health.	
Lester, Sarah			Professor Levi's research involves the fundamental understanding of microstructure	
			evolution, with an emphasis on structural alloys and ceramics, and the application of	
			this understanding to the chemical and microstructural design of coatings,	
			composites, and monolithic systems. Much of his current research focuses on	
			materials which would enable more efficient and environmentally cleaner energy	
			and transportation technologies. Current research areas include high performance	
Levi, Carlos	Materials	Materials Research Laboratory	coatings and materials for hypersonic flight.	
			Ann-Elise Lewallen's research areas include indigenous and social movements,	
			environmental concerns, and gender and ethnicity in contemporary Japan and Asia.	
			Lewallen's current research focuses on how discourses about national development	
			impact indigenous communities and may foment environmental injustice.	
			Specifically, she is investigating the relationship between Japanese international aid,	
			earmarked for nuclear power development in India, and the displacement of	http://www.eastasian.ucsb.edu/home/fa
Lewallen, Anne Elise	East Asian and Cultural Studies		indigenous Adivasi communities from their ancestral lands.	culty/ann-elise-lewallen/
			Dr. Libecap's research interests include common pool resource problems and how	
			property rights institutions (private, group) can or cannot address them. Current	
			research addresses the demarcation of land, water rights, and water markets for	
			water allocation and management, as well as the use of rights-based arrangements	
Libecap, Gary	Economics; Bren	Institute for Energy Efficiency	in fisheries.	
			The Lipshutz Research Group at UCSB is committed to developing new green	
			technologies that will transform the way in which organic synthesis is traditionally	
			performed. Their use of chemistry provides an alternative to the use of toxic and	
			flammable organic solvents that constitute the vast majority of the organic waste	
			created by the chemical enterprise today. Through the use of newly engineered	
			"designer" surfactants, which are environmentally benign, many of the most	
			commonly used organic reactions can now be run in water at room temperature.	
			(Original. Dr. Lipshutz conducts research in the field of green chemistry. His	
			research team recently discovered a safer, more cost-effective chemistry lab	
			approach which eliminates the need to use toxic organic solvents and allows labs to	
		Institute for Terahertz Science and	use water as a medium for dissolving reactants and catalysts. This change reduces	http://www.chem.ucch.odu/poople/focult
Lipshutz, Bruce	Chemistry and Biochemistry			y/lipshutz/index.shtml
Lipsilutz, Diuce	Ionemistry and biochemistry	Technology	pollution and lessens the quantity of waste generated by chemistry labs.)	ly/iipshutz/index.shtml

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			Professor Lisiecki's research focuses on computational approaches to analyzing	
			paleoclimate records. Through the analysis of climate system interactions such as	
			glacial cycles, Professor Lisiecki's work contributes to models that further	
Lisiecki, Lorraine	Earth Science	Marine Science Institute	understanding of how man-made changes may affect future climate cycles.	http://lorraine-lisiecki.com/
			Professor Loaiciga's research focuses on planning, designing, and analyzing water	
			resource systems, as well as on the computational aspects of surface and	
			groundwater hydrology. He is currently looking at groundwater and earthquake	
			hazards, as well as sea level rise and its effect on coastal freshwater aquifers. He is	
			also working on the development of sustainable water and energy use through	
Loaiciga, Hugo	Geography; Environmental Studies		seawater desalination with solar energy.	http://geog.ucsb.edu/~hugo/
			Dr. Lopez-Carr's research interests include land use, deforestation, rural poverty,	
			and health. He recently conducted a project to try to understand what was causing	
			rapid land change and urban transition in Ghana. Dr. Lopez-Carr analyzed	
			population and health surveys conducted in the region as part of the project. He has	
	Geography; Latin American and		additionally researched agricultural intensification in Guatemala and implications for	
Lopez-Carr, David	Iberian Studies	Marine Science Institute	food security in Latin America.	http://geog.ucsb.edu/~carr/
Lopez-Call, David			Dr. Love's research interests include restoration ecology of coastal marine	
			environments, as well as evaluating the interface between environmental biology	
				http://
			and resource management policy. Much of his recent research has focused on the	http://www.msi.ucsb.edu/research/resea
Love, Milton		Coastal Research Center	impact of offshore oil and gas platforms on local ocean ecosystems.	rch-labs-msi/love-lab
			Dr. Luyendyk has studied the marine seep systems offshore of the UCSB campus.	
			Other research interests include Antarctic climate evolution in which he participated	
			in projects that aim to capture a record of some of the earth's global climate	http://www.geol.ucsb.edu/faculty/luyend
Luyendyk, Bruce	Earth Science	Coastal Research Center	transitions.	yk
			Dr. MacIntyre's research focuses primarily on the physical processes in lakes and	
			coastal zones and their biogeochemical and ecological consequences. She is	
			developing new models of the gas transfer coefficient as needed for accurate	
			estimates of regional and global carbon fluxes. Her studies are ongoing in Arctic and	
		Earth Research Institute; Marine Science	Subarctic lakes; Mono Lake, CA; tropical lakes in East Africa and the Amazon Basin;	
MacIntyre, Sally	Ecology, Evolution & Marine Biology	Institute	and the waters of coastal California.	http://www.crseo.ucsb.edu/~sally/
			Professor Mackie's research spans two distinctly different domains: intergroup	
			relations (focusing on the affective, cognitive, and motivational processes by which	
			group memberships influence people's thoughts, feelings, and behavior) and social	
			influence (focusing on the affective, cognitive, and motivational processes by which	
			peoples' attitudes and behavior are changed). Her study of the antecedents and	
	Psychological & Brain Sciences;		consequences of attitudes and norms can be applied to sustainability relevant	
Mackie. Diane	Communication		behaviors.	
IVIACKIE, DIAIIE				
		Institute for Energy Efficiency Institute for	Dr. Madhow's ongoing research investigates the architecture of next generation	http://www.coc.ucoh.cdu/Ecoulty/Madha
	Flashing & Computer Engine	Institute for Energy Efficiency; Institute for	wireless communication and sensor networks, with the goal of obtaining order of	http://www.ece.ucsb.edu/Faculty/Madho
Madhow, Upamanyu	Electrical & Computer Engineering	Collaborative Biotechnologies	magnitude gains in energy efficiency.	w/
			Professor Manalis's research interests surround the development of quantifiable	
			sustainability measures, as well as integrated energy planning, industrial ecology,	
			and green nuclear energy. He is also a member of the Economics and Policy	
			Solutions Group that strives to understand the environmental and economic impact	
			of energy efficiency advancements and investigate the range of ways that research,	
			economics, and the environment interact to find policy solutions that proactively	http://www.es.ucsb.edu/people/academi
Manalis, Melvyn	Environmental Studies	Institute of Energy Efficiency	shape the market for the benefit of society.	c/melvyn-s-manalis
			Dr. Matthys conducts Sustainability research, mostly in the Energy area. He is	
			leading efforts in Solar Energy, especially on new Concentrated Solar Thermal	
	1	1	approaches, as well as in Energy Efficiency projects, such as developing new	
			Tapproaches, as well as in Energy Eniciency projects, such as developing new	

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			Dr. Mazer's research involves detecting the mechanisms by which plants adapt to	
			the ecological risks and opportunities that they encounter and exploring the genetic	
			constraints that may limit the rate or degree of adaptation. Her central research	
			goals are to determine genetic and environmental sources of variation in traits that	
			affect individual fitness. Since 2011, as field director of the California Phenology	
			Project (www.usanpn.org/cpp), she has designed and implemented phenological	
			monitoring programs throughout the state, engaging students, national park staff,	
		National Phenology Network; California	UC Natural Reserves, and citizen scientists in the study of how climate change is	http://www.eemb.ucsb.edu/people/facult
Mazer, Susan	Ecology, Evolution & Marine Biology	Phenology Project	affecting the seasonal cycles of 30 California native plant species.	y/mazer
			Dr. McClintock has developed the "next-generation" MarineMap, called SeaSketch	
			(www.seasketch.org). Designed in a way that anyone - regardless of their technical	
			or scientific background - can participate in marine spatial planning, SeaSketch	
			brings the power of collaborative, spatial decision support systems to everyone with	
			a web browser and internet connection. The McClintock lab was also involved from	
			2004-2011 in the development of MarineMap, a web-based application used by	
			stakeholders in California's Marine Life Protection Act (LMPA) Initiative for marine	
McClintock, Will		Marine Science Institute	protected area planning.	
			Professor McFadden studies how changes in land cover and land use modify the	
			two-way flows of water, energy, and carbon between ecosystems and the	
			atmosphere. His current work is focused on understanding and modeling these	
			processes in cities and suburbs, with the aim of using that knowledge to inform	http://www.geog.ucsb.edu/people/facult
McFadden, Joe	Geography	Earth Research Institute	sustainable urban design and planning.	y/joe-mcfadden.html
		Institute for Energy Efficiency;	Professor McFarland's research focuses on facilitating cost-effective and	
		Materials Research Laboratory;	environmentally sustainable production of chemicals and fuels. He helps to	
		California NanoSystems Institute; Carsey-	investigate new conversion processes and issues related to technoeconomics and	http://www.chemengr.ucsb.edu/people/f
McFarland, Eric	Chemical Engineering	Wolf Center	sustainability.	aculty d.php?id=9
· ·			Dr. McMeeking undertakes research on lithium-ion batteries and solid oxide fuel	
			cells with the aim of improving their energy capacity, increasing their ability to deliver	
			high power, and, in the case of batteries, enabling them to be recharged rapidly.	
			Both lithium-ion batteries and solid oxide fuel cells are important elements in the	
			strategy to reduce carbon emissions, as energy generated by low carbon emission	
		Institute for Energy Efficiency; Institute for	methods can be stored and transported in the batteries, and solid oxide fuel cells	
		Multi-scale Materials Studies; Center for	can use hydrogen as the fuel, thereby avoiding the production of carbon dioxide.	
		Multifunctional Materials & Structures;	McMeeking uses computational modeling of both system to identify improved	http://engineering.ucsb.edu/faculty/profil
McMeeking, Robert	Material; Mechanical Engineering	California NanoSystems Institute	microstructures and designs.	e/204
			Dr. Eckart Meiburg investigates fluid flow problems in the atmosphere and the	
			oceans, by means of large-scale computer simulations. In recent years, he has	
			studied such problems as mixing of warm and cold water in the ocean, as well as	
			the transport of sediment and biogenic particulate matter by oceanic currents.	
			Understanding these processes is important for predicting the oceans' ability to	
			absorb atmospheric carbon dioxide, which, in turn, represents a critical element in	
			all climate models. Dr. Meiburg's research finds additional application in the	
Meiburg, Eckart	Mechanical Engineering	Institute of Energy Efficiency	development of energy-efficient heating and cooling strategies for buildings.	http://me.ucsb.edu/faculty/profile/205
interesting, Editari			Professor Meinhart's research group investigates fundamental fluid mechanics	
			problems at the micro-scale and nano-scale, with special emphasis on transport	
			issues in MEMS-based sensors for detection of specific biological molecules. His	
		Institute for Energy Efficiency; Institute for	research allows the detection of highly sensitive and specific detection of trace	
		Collaborative Biotechnologies; California	chemicals through the combination of surface-enhanced Raman Spectroscopy with	
Meinhart. Carl	Mechanical Engineering	NanoSystems Institute	microfluidics.	
and our			Dr. Melack researches ecological processes in lakes, wetlands, and streams, as	
			well as the hydrological and biogeochemical aspects of catchments. His research	
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			combines state-of-the-art measurements modeling experiments and remote	
			combines state-of-the-art measurements, modeling, experiments, and remote sensing, and it examines ecological processes from the population to ecosystem	
			sensing, and it examines ecological processes from the population to ecosystem	
			sensing, and it examines ecological processes from the population to ecosystem levels. He has applied results of his research to assess impacts of atmospheric	http://www.lifesci.ucsh.edu/Ecology
			sensing, and it examines ecological processes from the population to ecosystem	http://www.lifesci.ucsb.edu/Ecology Evolution & Marine

			Dr. Metiu's research involves searching for new catalysts in order to convert CO2	
		Institute for Terahertz Science and	and natural gas into useful chemicals. He is also involved with work that uses	http://www.chem.ucsb.edu/people/facult
Metiu, Horia	Chemistry and Biochemistry	Technology; California NanoSystems Institute	electrochemistry to find a good system for energy storage.	y/metiu/
			Dr. Mezic's current research is centered on an operator-theoretic approach to	
			analysis of nonlinear dynamical systems, applications in microfluidics and (bio)-	
			nanotechnology. The research topics can be grouped as follows: 1) mixing and	
			separation in fluids across the scales with applications ranging from microfluidic	
			phenomena to oceanographic flows; 2) nano and micro-scale particle dynamics	
			induced by dielectrophoresis and other electrokinetic phenomena, with applications	
			to biotechnology; 3) multiscale dynamics of the Atomic Force Microscope, including	
			interactions with biomolecules; and 4) dynamical systems theory of complex	
			systems, including large-scale networked systems. In each of these topics, the	
			research is characterized by pursuit of the key physical phenomena in a device or	
			system, followed by the abstraction of the mathematical problem (or problems)	
			associated with it. The loop is closed by applying the solution of the mathematical	
			problem to explain the physical phenomena or design new concepts based on	http://industry.ucsb.edu/faculty/profile/1
Mozio laor	Machanical Engineering	California Nano Svatoma Instituto		
Mezic, Igor	Mechanical Engineering	California NanoSystems Institute	which devices can be built or improved.	5
			Dr. Michaelsen's research focuses on analyzing climate variability and climate	
			change using statistical modeling techniques. Along with the members of the	
			Climate Hazards Group (CHG), he has worked on implementing improved methods	
			of monitoring and predicting rainfall variations in Sub-Saharan Africa and Central	
			America on seasonal and longer time scales. This monitoring and prediction is done	
			by blending data from satellites, weather stations, and models. The primary	
			objectives of the research are to: 1) provide African officials and relief agencies with	
			early warning of developing drought conditions on seasonal time scales that could	
			increase food insecurity; and 2) determine relationships between rainfall and larger	
			atmospheric circulation and ocean temperature patterns that may help officials	
			adapt rainfed agricultural systems to longer term changes in rainfall regimes	
Michaelsen, Joel	Geography	Climate Hazards Group	associated with global warming.	http://geog.ucsb.edu/~joel/
			Robert Miller's research involves benthic subtidal ecology, particularly community	
			ecology and the role of primary producers in marine ecosystems. He is also	
			currently involved in in the UC Center for Environmental Implications of	
			Nanomaterials (CEIN). He is measuring impacts of nanomaterials as emerging	
			contaminants to marine ecosystems, using phytoplankton and suspension feeders	
Miller, Robert		Marine Science Institute	as model organisms.	
		Institute for Energy Efficiency; Center for		
		Advanced Nitride Electronics; Solid State	Dr. Mishra researches electronics and photonics. He recently led a project to	
		Lighting and Energy Center; Interdisciplinary	develop a new semiconductor technology that enables highly efficient power	
		Center for Wide Band-Gap Semiconductors;	conversion at low cost in motor drives, electric vehicles, and power grid	http://my.ece.ucsb.edu/mishra/biograph
Mishra, Umesh	Electrical & Computer Engineering	California NanoSystems Institute	applications.	.htm
	Elocatori di Computer Engineering		Dr. Moehlis has an ongoing research project on energy harvesting, which involves	
			converting vibrational energy into electrical energy. His other research areas include	
Moehlis, Jeffrey	Mechanical Engineering	Institute for Collaborative Biotechnologies	biological dynamics, control of neurons, networks, and dynamical systems.	http://www.me.ucsb.edu/~moehlis/
woorms, ocmey			Professor Morse does research involving nanofabrication of semiconductors to	
		Institute for Collaborative Biotechnologies;	improve solar energy, lightweight batteries, infrared detectors, and information	
		Center for Nanomedicine; California		
	Molecular, Cellular, and		storage. The method used to accomplish this is bio-inspired, based on	http://www.modb.ucch.odu/pcople/feer
Marga Danial		NanoSystems Institute; Institute for Energy	advantageous mechanisms he and his team discover in biological systems and	http://www.mcdb.ucsb.edu/people/facul
Morse, Daniel	Developmental Biology	Efficiency	translate into practical new materials and engineering.	y/morse
			Professor Moskovits' research interests falls into two broad categories: (i)	
			plasmonics and surface-enhanced Raman spectroscopy (SERS) and (ii) nanowire	
			synthesis and nanowire-based sensing. In plasmonics, he has two major goals: the	
			first is to create plasmonic analogs of photovoltaics and photosynthetic systems.	
			Recently, his research group produced the first device ever reported which uses the	
			electrons resulting from the decay of plasmons in gold nanorods to reduce hydrogen	
			ions in water and uses the positive charges left behind to oxidize water to oxygen	
			gas. The device is a free running cell floating in water, with light as its sole energy	
Moskovits, Martin	Chemistry and Biochemistry	Institute for Collaborative Biotechnologies	source.	

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			Jane Mulfinger's art project at the Pasadena YWCA building exemplifies how art and	
			sustainability go hand in hand. Mulfinger's installation, "Autonomy Is No Longer	
			Possible or Interesting," features repurposed excercise bicycles that power LED	
			lights in the buildings when used by visitors. By repurposing materials for her	
			artwork, Mulfinger uses sustainable methods to create metaphors that enhance	http://www.arts.ucsb.edu/faculty/mulfing
Mulfinger, Jane	Art		cultural/community awareness.	er/
			Dr. Myers research interests include impacts to, benefits from, and conservation of	
			coastal ecosystems. She has explored anthropogenic contaminants in coastal	
			wetlands, remote sensing and community monitoring of coral reefs and impacts of	
			marine protected areas. She is currently investigating wetland carbon sequestration	
			in southern California. (Info: Educating students about the efforts to restore Ormond	
			Beach and the importance of clean sites like this; heard about this from a RESTOR	
			Project Evaluation Research assistant.) During the past four years, Myers has been	
			working on sustainable coastal community topics, K-12 student/teacher watershed	
			education and climate change outreach. She performs applied research on coastal	
			wetlands and coral reefs. To accomplish a diverse array of projects, Myers	
			collaborates with a variety of government, nonprofit groups, university professors,	
			and other stakeholders. She also participates on advisory boards and committees	
			and produces publications for her peers and the public. To address the challenges	
			climate change poses to coastal communities and ecosystems, Myers is working on	
			several projects that involve university researchers and coastal decision makers.	
			Her work is aimed at providing tools and information to reduce impacts to our coasts	
			and help plan for adaptation to inevitable changes. Two of her recent projects are	http://ca-
			the Santa Barbara Area Coastal Ecosystem Vulnerability Assessment (SBA CEVA)	sgep.ucsd.edu/biographies/monique-
Myers, Monique	Communication		and the Explore Beach Ecosystems website.	myers
		Solid State Lighting and Energy Center;	Dr. Nakamura's research interests include high efficiency, high power light emitting	,
		Interdisciplinary Center for Wide Band-Gap	diodes (LEDs) for lighting. His discovery of p-type doping in Gallium Nitride (GaN)	
		Semiconductors; Center for Energy Efficient	and development of blue, green, and white LEDs and blue laser diodes (LDs) has	http://www.materials.ucsb.edu/recruitme
Nakamura, Shuji	Materials	Materials; California NanoSystems Institute	enabled energy efficient lighting and displays.	nt/Faculty/nakamura/nakamura.php
			Craig Nelson's research includes projects studying the microbiomes of humans and	
			other animals and studying bacterial pathogens in natural water in the context of	
Nelson, Craig		Marine Science Institute	water quality.	
		Institute for Multi-scale Materials Studies;		
		Center for Polymers and Organic Solids;		
		Institute for Collaborative Biotechnologies;	Prof. Nguyen studies new materials for organic solar cell applications with an	
		Institute for Terahertz Science and	emphasis on nanoscale characterization and structure-property-performance	
		Technology; Mitsubishi Chemical Center for	relationships. Organic solar cells have the potential to be a low cost, light-weight,	
		Advanced Materials; Center for Energy	and clean energy technology because they can be made from abundant materials	
		Efficient Materials; California NanoSystems	and manufactured at room temperature from solution. Dr. Nguyen's lab aims to	http://www.chem.ucsb.edu/people/facult
Nguyen, Thuc-Quyen	Chemistry and Biochemistry	Institute	develop higher-efficiency and more stable organic solar cell devices.	y/nguyen/
			Dr. Nisbet's research covers many areas of theoretical ecology. Much of his work is	
			based on Dynamic Energy Budget (DEB) theory to describe the rates at which	
			individual organisms assimilate and utilize energy. His research group develops new	
		Marine Science Institute; Coastal Marine	fundamental theory and applies it to environmental problems. Applications include	Evolution & Marine
Nisbet, Roger	Ecology, Evolution & Marine Biology	Institute	ecotoxicology, coral biology, zooplankton ecology, and fish bioenergetics.	Biology/faculty/nisbet/index.html
			In his research, Dr. Nkuiya addresses the regulation of pollution with various	http://sfg.msi.ucsb.edu/about-
Nkuiya, Bruno		Sustainable Fisheries Group	pollution control instruments, including pollution taxes, mitigation, and adaptation.	us/people/sfgteam/Bruno_Nkuiya
		Institute for Collaborative Biotechnologies;	Dr. O'Malley directs a group that is working to develop renewable biofuels from	
O'Malley, Michelle	Chemical Engineering	California NanoSystems Institute	lignocellulose (plant waste).	
			Dr. Odette's research interests focus on developing materials for future fusion and	
			fission energy systems that will improve safety and reduce waste issues. He also	
		Center for Multifunctional Materials &	looks at materials issues related to the safety of the current fleet of light water	
Odette, George	Materials; Chemical Engineering	Structures; Institute for Energy Efficiency	nuclear reactors.	http://me.ucsb.edu/faculty/profile/168
			Dr. Oliva's research blends environmental economics with labor and development	
			economics. Her research has focused on the effects of air pollution on infant	
			economics. Her research has focused on the effects of air pollution on infant	

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			Osherenko's research focuses on coastal and ocean law and policy, including	
			property rights and sea tenure, the public trust doctrine, marine spatial planning, and	
			the California coastal management regime. She was a principal investigator in the	
			NCEAS working group on Ocean Ecosystem-Based Management: the role of	
			zoning. She has published extensively on co-management of natural resources and	
			indigenous peoples in Siberia, the Northern Sea Route, Canada, and Alaska. She is	
			currently exploring the use of film and media in environmental education and has	
			had two films in the Santa Barbara International Film Festival, including "Dark Side	
			of the Loon" (www.darksideoftheloon.com) and "Arctic Expedition"	
Osherenko, Gail		Marina Caianaa Instituta	(www.FilmsfromtheNorth.com).	
Osherenko, Gali		Marine Science Institute		
			Dr. Passow's research seeks to answer the question of "How does the response of	
			organisms and ecosystems change the functioning of the biological pump in a	
			changing world?" Her research tries to achieve a mechanistic understanding of	
			organisms and processes which determine sedimentation rates in marine systems,	
			now and in the future. Currently, Passow specifically investigates how the input of	
			fossil carbon impacts the growth of autotrophic and heterotrophic microbes,	
			aggregation rates, and the production and microbial degradation of organic carbon.	
			Her research also explores the effects of ocean acidification on microbial	
			degradation and on aggregation and the drivers of the large fluctuations in normal	
Baccow Lite		Marina Science Institute	pH off coastal California.	
Passow, Uta		Marine Science Institute		
			Professor Peljhan's research focuses on art and technology. His recent projects	
			involve the Makrolab, a project that focuses on telecommunications, migrations, and	
			weather systems research in an intersection of art and science from 1997-2007, and	
			he is currently coordinating the Arctic Perspective Initiative art/science/tactical	
			media project which is focused on the global significance of the Arctic geopolitical,	http://artsite.arts.ucsb.edu/people/facult
Peljhan, Marko	Art; Media Arts & Technology		natural, and cultural spheres .	y/peljhan.html
			Dr. Pennathur studies nanofluidics. Her research involves developing a form of	
		Institute for Collaborative Biotechnologies	technology that could eliminate the need for batteries - by pushing fluid through tiny	
		Institute for Energy Efficiency; Center for	nanometric channels, an electric current is generated. A broader goal of Dr.	
		Nanomedicine:	Pennathur's project is to place this nanotechnology on a chip as a practical and	http://engr.ucsb.edu/~nanolab/index.htm
Dennethur Cursite	Machanical Engineering			http://engr.ucsb.edu/~nanolab/index.ntm
Pennathur, Sumita	Mechanical Engineering	California NanoSystems Institute;	sustainable approach to generating power for day to day use.	1
			Dr. Seth Peterson is currently doing research on the effect of and response to the	
Peterson, Seth	Geography		deepwater horizon oil spill in the marshes of Louisiana.	
			Professor Plaxco's research primarily involves the study of biomolecular recognition.	
			In recent years, researchers have developed folding-based sensors that are	
			selective enough to be employed directly in blood, soil, cell lysates, and other	
			grossly contaminated clinical and environmental samples. Because of their	
			sensitivity, substantial background suppression, and operational convenience, these	
		Institute for Collaborative Biotechnologies	folding-based biosensors appear potentially well-suited for electronic, on-chip	
Plaxco, Kevin W.	Chemistry and Biochemistry	Center for Bioengineering;	applications in pathogen detection, proteomics, metabolomics, and drug discovery.	
FIALCO, NEVILL VV.			Professor Pollock's research interests include the mechanical and environmental	
			performance of materials in extreme environments, unique high temperature	
			materials processing paths, ultrafast laser-material interactions, alloy design, and 3-	
		International Center for Materials Research;	D materials characterization. Recent research has focused on thermal barrier	
		Center for Multifunctional Materials &	coatings systems and platinum group metal-containing bond coats, new intermetallic	
		Structures; Materials Research Laboratory;	containing cobalt- base materials, and vapor phase processing of sheet materials	
Pollock, Tresa	Materials	Marine Science Institute	for hypersonic flight systems.	
			Professor Pulver's research focuses broadly on the engagement of non-state	
			actors, i.e., firms, non-governmental organizations, and scientific experts, in climate	
			change politics at multiple scales and in industrialized and developing country	
			settings. Her first research project analyzed the roles played by transnational oil	
			corporations and transnational environmental advocacy NGOs in the UN climate	
			negotiations. She is currently directing an NSF funded project that investigates	
			clean energy investments by developing-country firms in India and Brazil under the	
	Ecology, Evolution & Marine	Orfalea Center for Global and International	Kyoto Protocol's Clean Development Mechanism. She also is also engaged in a	http://www.science.ucsb.edu/faculty/prof
Pulver, Simone	Biology; Sociology	Studies	project that maps climate policy networks in Mexico.	ile/989
	Libiology, Obciology		project that maps climate policy hetworks in mexico.	10/000

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			Professor Pye is an adjunct faculty member of UCSB's Environmental Studies	
			Department and teaches ecopsychology. Ecopsychology recognizes that the	
			psychology of the individual is reflected in the psychology of the culture, of our	
			nations, and in our world's complex issues. It utilizes ecological, biological, and	
			depth psychological principles essential to sustainability to examine and transform	
			deeply rooted unconscious narratives that drive human practices, civic illiteracy,	
			policies, and decisions about how we design and craft our world in both creative and	
Pye, Lori	Environmental Studies	Viridis Institute	destructive ways.	ori-pye
			Dr. Andrew Rassweiler is a marine ecologist who combines field experiments, data	
			analysis, and mathematical modeling to address both basic and applied questions,	
			mainly regarding temperate reef ecosystems. His work has been applied toward	
			answering fishery management and marine conservation questions, using spatially	
			explicit models to explore optimal fisheries management strategies and tradeoffs	
			between achieving fishery and conservation goals. His models have been used in	
			practical contexts as well, most notably in guiding the placement of marine	
			protected areas as part of California's Marine Life Protection Act process. Although	
			his expertise is in community ecology, he works closely with oceanographers,	
		Marine Science Institute; Sustainable	geographers, and economists to better understand the many abiotic factors	
Rassweiler, Andrew		Fisheries Group	influencing ecological dynamics.	
			Dan Reed is currently working on a mitigation project with The San Onofre Nuclear	
			Generating Station (SONGS) Mitigation Monitoring Program designed to	
			compensate for the adverse effects of a nuclear generation station on coastal	
Reed, Dan			resources.	
Reeu, Dan			Professor Rice studies, among other topics, public communication campaigns, with	
			some emphasis on environmental communication. In his most recent edition of	
			"Public Communication Campaigns," he co-authored a chapter that applies	
			principles of social marketing to communicating about ocean sustainability. That	
			chapter focused on developing a strategic approach to designing and implementing	
			messages about ocean sustainability issues, such as ocean pollution, warming,	
			acidification, overfishing, and low oxygen levels. He has also published research on	
			college campus water bottle usage, ocean sustainability literacy, and news images	http://www.comm.ucsb.edu/faculty/rrice/
Rice, Ronald	Communication	Marine Science Institute	about climate change.	ricelink.htm
			Dr. Roberts' research interests include urban ecology and energy balance. He has	
			studied sustainable land use through investigating the impacts of deforestation and	
			pasture degradation and has mapped methane emissions across landscapes. His	https://sites.google.com/site/ucsbviperla
Roberts, Dar	Geography	Southern California Wildfire Hazard Center	primary research tool is remote sensing.	b/
			Dr. Rodoplu's research focuses on wireless communications and networking. As a	
			member of the Greenscale Center for Energy-Efficient Computing at the Institute for	
			Energy Efficiency, one of the goals of his research is to curb the energy	
		Institute for Energy Efficiency; Greenscale	consumption of wireless networks through the development of energy-efficient	
Rodoplu, Volkan	Electrical & Computer Engineering	Center for Energy-Efficient Computing	protocols.	http://www.ece.ucsb.edu/rodoplu/
			Dr. Rodwell's research interests include extending the operations of electronics to	
			the highest feasible frequencies. He also looks at communication systems and	
			energy efficient semiconductor devices. His research group works to extend the	
			operation of electronics to the highest feasible frequencies. Their research thus	
			includes semiconductor devices (diodes and transistors), semiconductor fabrication	
			process, circuit design, interconnects, instruments, and communications systems.	
			Mark Rodwell's research focuses on extending the operation of electronics to the	
			highest feasible frequencies. His research interests includes energy efficient	
			semiconductor devices (diodes, transistors, photodiodes), semiconductor fabrication	
			process, circuit design, interconnects, instruments, and communications systems.	
			Particular interests include THz InP (indium phosphide) bipolar transistors, nm III-V	
			MOSFETs (metal-oxide-semiconductor field-effect transistors) for both VLSI (very	
			large scale integration) and THz (terahertz) applications, and IC (integrated circuit)	http://www.ece.ucsb.edu/Faculty/rodwell
Rodwell, Mark	Electrical & Computer Engineering	Insitute for Energy Efficiency	design above 50 GHz (gigahertz) in both III-V and Silicon VLSI technologies.	/
Nouwell, widtk	Internet a computer Engineering	Instate for Energy Enrolency	Juesign above so Griz (giganeriz) in both III-v and Silicon visit technologies.	/

			Roehrdanz's research focuses on the global analysis of climate change impacts on	
			wine production and conservation. More specifically, his research examines how	
			climate change will impact the areas where wine grapes can be grown in the future.	
			And as viticulture moves to cooler areas -by going north or to higher altitudes- it	
			could intrude on habitat favored by caribou, grizzly bears and other mountain	
			species and have far-reaching implications for conservation. This research is a	
		Forth Dessareh Institute: Marine Caisnes		
		Earth Research Institute; Marine Science	good test case for measuring the impacts of climate change refracted through	
Roehrdanz, Patrick		Institute	agriculture.	
			Dr. Schimel's research focuses on ecosystem and microbial ecology and their	
			feedback on global climate. Specifically, his research looks at the role of soil	
			microbes in controlling ecosystem scale processes through the linkages between	
			plant and soil processes. Schimel's research is particularly important when	
			analyzing the effects of increased temperature and altered rainfall patterns and CO2	
				http://www.lifesci.ucsb.edu/Ecology
	Ecology, Evolution & Marine	UC Center for Environmental Implications of		Evolution & Marine
Schimel, Josh	Biology; Environmental Studies	Nanotechnology; Earth Research Institute		Biology/faculty/schimel/index.html
			Dr. Schmitt's research interests include population and community ecology, applied	Diology/lacuity/schimel/index.html
			ecology, consumer-resource interactions, marine invertebrates, and reef fishes. His	
				http://www.lifesci.ucsb.edu/Ecology
		Marine Science Institute; Coastal Research	population size and species diversity. In addition, Schmitt looks at the application of	
Schmitt, Russell	Ecology, Evolution & Marine Biology	Center		Biology/faculty/schmitt/index.html
			The Schuller Lab conducts research that concerns novel physical phenomena that	
			occur when light interacts with objects of subwavelength dimensions. The goal of	
			the research is to create smaller, faster, and more efficient photonics technologies	
			and ultimately lead to a future where optical properties are controlled and	
		Center for Polymers and Organic Solids;	engineered at the atomic or molecular level. In a recent publication in Optics Press,	
		Marine Science Institute	the researchers in the Schuller Lab discussed the application of their research into	
		Center for Energy Efficient Materials	morphology dependent light trapping in thin-film organic solar cells. Their research	
		Materials Research Laboratory	in this area can be used in the future in low-cost lightning and energy harvesting	
Schuller, Jon	Electrical & Computer Engineering	California NanoSystems Institute	devices.	
			As co-principal investigator of the Center for the Sustainable Use of Renewable	
			Feedstocks (CenSURF), Dr. Scott has participated in projects that aim to promote	
			sustainable practices in the chemical sciences. She has researched ways to	
			synthesize organic compounds like ethylene from fixed sources of carbon dioxide.	
		Mitsubishi Chemical Center for Advanced	These synthesized products can be used as alternatives to nonrenewable fossil	http://www.chemengr.ucsb.edu/~ceweb/
Scott, Susannah	Chemical Engineering	Materials		faculty/scott/
			Professor Segalman's research interests include investigating structure control over	
			soft matter on a molecular scale through nanoscopic lengthscale for use in	
			optimizing properties for applications ranging from energy (solar and thermal) to	
			biomaterials. She works to understand the effects of structure on properties and	
			function and to gain pattern control in these multidimensional problems. Segalman's	
			research can be applied in developing materials for energy applications such as	
Segalman, Rachel	Chemical Engineering		photovoltaics, fuel cells, and thermoelectrics.	
			Kim Selkoe's primary research interests are split between three diverse topics:	
			advancing scientific tools for ecosystem based management and marine spatial	
			planning, multi-species approaches to understanding marine population connectivity	
			with 'seascape' genetic techniques, and both studying and improving consumer	
			access to local and sustainable seafood. She is currently a P.I. on three projects:	
			Ecosystem Thresholds and Indicators for Marine Spatial Planning (Moore	
			Foundation, 2012-16), Multispecies Connectivity of Hawaii Coral Reefs (National	
			Marine Sanctuaries, 2012-13), and Direct Marketing Approaches for West Coast	
			Fishing Communities (Sea Grant, 2012-14). Selkoe has also conducted underwater	
			fieldwork in nearshore reef environments of Morocco, Sardinia, and the Solomon	
			Islands as part of a continuing research project to understand how community	
			structure changes along gradients of human impact. In addition, she is a founder	
			and advisor of two local outreach programs, the Santa Barbara Sustainable Seafood	
		National Center for Ecological Analysis and	Program and a community supported fishery program serving Santa Barbara	
Selkoe, Kim		Synthesis; Marine Science Institute	County called Community Seafood.	
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			Professor Seshadri researches functional inorganic materials with applications in	
			energy conversion, energy storage, and information technology. A primary goal of	
			the research is greater efficiency in energy conversion and storage and the recovery	
			of waste heat. In and of themselves, these are expected to significantly minimize the	
			impact of energy technologies on the environment. In addition, his research	
			addresses resource availability and life-cycle issues, in attempts to ensure that	
			future energy technologies are not based on scarce or polluting elements (Original:	
			Ram Seshadri's research encompasses a number of areas in the chemistry of	
			inorganic materials, including new ways of preparing materials, seeking clues from	
			nature on how to make new high-performance materials, magnetism in inorganic	
		Insitute for Energy Efficiency; Institute for	solids, chemical patterning of inorganic materials on large (micrometer) length	
		Multi-scale Materials Studies; Solid State	scales, and using first principles electronic structure calculations to predict new	
		Lighting and Energy Center; Interdisciplinary	material properties. In addition to his focus on magnetism, polar materials, and	
		Center for Wide Band-Gap Semiconductors;	porosity, Seshadri is increasingly investigating materials for heterogeneous catalysis	
	Chemistry and Biochemistry;	Mitsubishi Chemical Center for Advanced	and for applications in solid-state lighting (semiconductors, phosphors , etc.). He	http://www.chem.ucsb.edu/people/facult
Seshadri, Ram	Materials	Materials; Materials Research Laboratory	also extensively researches functional (particularly oxide) nanomaterials.)	y/seshadri/index.shtml
			Professor Sherman's research primarily centers on how people respond to and cope	
			with threatening events. His research extends to understanding the psychological	
Sherman, David	Psychological & Brain Sciences	Institute for Energy Efficiency	and social barriers to sustainability and how to overcome them.	
			Dr. Sherwood's research is in the area of computer architecture. He has worked to	
			develop techniques that provide a powerful new way to inspect and control the	
			digital world and shed light on energy efficiency. (From IEE website: Timothy	
			Sherwood's research is in the area of computer architecture, specifically in the	
			development of novel high throughput hardware and software methods by which	
		la itata fa Escara Efficience Occaracia	systems can be monitored and analyzed. Such techniques provide a powerful new	
		Insitute for Energy Efficiency; Greenscale	way to inspect and control the digital world: they shed light on energy efficiency and	
Chanward Timethy	Computer Colones	Center for Energy-Efficient Computing;	performance anomalies, uncover software bugs, and help secure critical systems	http://www.eo.wook.edu/_okerwood/
Sherwood, Timothy	Computer Science	Institute for Energy Efficiency	against attack.)	http://www.cs.ucsb.edu/~sherwood/
			Professor Shewry's research interests include pacific rim cultures, environmental studies, and oceans and water. She is the director of Literature and the Environment	
			at UCSB. Her recent publications include "Possible Ecologies: Literature, Nature,	
			and Hope in the Pacific" and "Environmental Criticism for the Twenty-First Century."	
			Professor Shewry is currently co-organizing a Mellon Sawyer Seminar on "Sea	
			Change: Integrating the Study of Human Cultures and Marine Environments in	http://www.english.ucsb.edu/people/she
Shewry, Teresa	English		Three Pacific Regions."	wry-teresa
onomy, reread			Dr. Siegel studies interdisciplinary marine science which couples physical,	ing torood
			biological, optical, and biogeochemical processes. He has recently worked on	
			collecting large scale ocean data by using ocean color variability from satellites.	
			Differences in color can indicate distinguishing characteristics such as temperature	
			and the overall biochemistry of the water. This data allows scientists to observe long	
		Marine Science Institute; Institute for	term trends and better understand the role oceans play in climate change as well as	
Siegel, David	Geography	Computational Earth System Science	ascertain what marine ecosystems might look like in the future.	http://www.icess.ucsb.edu/~davey/
			Professor Simms' research focuses primarily on coastal systems. His studies use a	
			wide variety of tools to study past depositional systems, including coring, high-	
			resolution seismic data, GPR, and outcrop analysis to understand how past	
			depositional systems have responded to sealevel, climate, and tectonic changes.	
			Modeling and investing the depositional systems allow us to further understand the	
Simms, Alex	Earth Science	Coastal and Sedimentary Research	environmental impact of climate change and tectonic forces.	http://www.geol.ucsb.edu/faculty/simms/
			Professor Smith's work focuses on U.S. public opinion and political behavior	
			regarding energy and environmental issues. He investigates, for example, public	
			support for or opposition to renewable energy production facilities and offshore oil	
			drilling. He is also working on the problem of how much people know about energy	
			and environmental issues and why people accept or reject factual claims about	http://www.polsci.ucsb.edu/faculty/smith
Smith, Eric	Political Science	Coastal Research Center	energy and environmental issues by scientists.	1/

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			Professor Smith's research includes remote sensing of oceans, physical and	
			biological oceanography, primary production and bio-optical modeling in aquatic	
			environments with emphasis on Antarctic ecosystems, marine resources, and Earth	
		Earth Research Institute; Institute for	system sciences. He continues to work with UCSB's Institute for Computational	http://www.geog.ucsb.edu/people/facult
Smith, Ray	Geography	Computational Earth System Science		y/ray-smith.html
			Professor Soh's lab develops advanced biosensors that are highly sensitive and	
			specific with rapid results. Recently, his laboratory pioneered the development of	
			real-time biosensors that can continuously measure specific biomolecules directly in	
		Institute for Collaborative Biotechnologies;	living animals. Their study of integrated biosensors have many applications in	
		California Nanosystems Institute; Center for	medicine, defense, food safety, and environmental monitoring. (font and size of font	
Soh Hyongsok (Tom)	Materials; Mechanical Engineering	Stem Cell Biology and Engineering	difference)	
Son, Hyongsok (Tohn)			Dr. Sokolow's research is focused on infectious disease ecology. She is currently	
			studying the potential for restoration of a native freshwater prawn species to act as a	
			biological control agent for schistosomiasis, a human parasite. Her research focuses	
			on the environmental and animal components of infectious disease This research	
			provides a multidisciplinary approach to infectious disease by combining	
			fundamentals in biological science, experimental design, epidemiology, disease	https://www.msi.ucsb.edu/people/resear
Sokolow, Susanne		Marine Science Institute		ch-scientists/susanne-sokolow
		Insitute for Energy Efficiency; Interdisciplinary		
		Center for Wide Band-Gap Semiconductors;		
		Solid State Lighting & Energy Center;		
		International Center for Materials Research;		
		Center for Energy Efficient Materials;	Professor Speck's research focuses on high efficiency solid state lighting. This	
		Materials Research Laboratory; California	lighting is expected to be 10-20 times more efficient than conventional incandescent	http://www.materials.ucsb.edu/recruitme
Speck, James	Materials	NanoSystems Institute		nt/Faculty/speck/speck.php
Speck, James			Dr. Steigerwald's research focuses on frontier econometric methods at the	III/Faculty/speck/speck.php
			intersection of economics, environmental science, computer science, geography,	
			and statistics. Currently, he is researching regional price behavior in Mexican maize	
			markets. This research discusses the interplay of changes to production and	
			consumption and the associated changes in livelihood risk, food security, and	
Steigerwald, Douglas	Economics	Econometrics Research Group		http://www.econ.ucsb.edu/~doug/
			Dr. Still's current research projects include studies of global biogeography and	
			biogeochemistry of carbon-4 vegetation and climate change and the hydrological	
			cycle in the Colorado Rockies. His study of carbon-4 photosynthesis in the global	
			carbon cycle will lead to better understanding of inversion studies that solve for	
			surface carbon fluxes from atmospheric measurements of 13CO2 and CO2. Dr.	
			Still's study of climate change and the hydrological cycle in the Colorado Rockies	
			aims to understand how vegetation in the East River Valley relies on summer	
Still, Christopher	Geography		precipitation during the growing season.	
Suii, Christophei			Professor Stohl is current involved in a project entitled: Sustainability at the	
			Crossroads: Examining the Vulnerability of New Zealand's Global Environmental	
			Positioning. The research project aims to understand how interested parties,	
			including NZ policy makers, media, and business leaders think about, frame, and	
				http://www.comm.ucsb.edu/people/acad
Stohl, Michael	Communication		consequences.	emic/michael-stohl
			Dr. Stonich currently co-directs a research project in the Mesoamerican Reef	
			System funded by the National Oceanic and Atmospheric Administration (NOAA)	
			Climate Program and is working with the National Shellfisheries Association, the	
			World Wildlife Fund Mollusc Dialogue, and the NOAA Aquaculture and Habitat	
			Conservation Program on a project to help determine standards on North American	
			shellfish farming that are socially, economically, and environmentally sustainable.	
	Anthropology; Environmental		Her other research interests focus on the conflicts between economic development	
	Studies; Latin American and Iberian		and environmental conservation efforts in coastal zones, environmental justice, and	http://www.anth.ucsh.edu/faculty/stopich
Stonich, Susan	Studies		vulnerability and resilience to climate-related hazards and disasters.	/
Stonich, Susan	Suules			<i>i</i>

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			Lisa Stratton has been the Director of Ecosystem Management for UCSB's Cheadle	
			Center for Biodiversity and Ecological Restoration (CCBER) since 2005. As the	
			manager of the campus lagoon and other open space areas on campus, she has	
			been active in pursuing opportunities to improve water quality and provide habitat	
			through bioswales and treatment wetlands. In conjunction with students, Lisa and	
			CCBER conduct research on water quality, hydrology, and biological diversity which	
		Earth Resource Institute; Cheadle Center for	provide evidence for the benefits of these features. Interpretive signs throughout	
Stratton, Elisa (Lisa)		Biodiversity and Ecological Restoration	campus and web site material make their work available to a broader audience.	
		Institute for Energy Efficiency; Institute for		
		Multi-scale Materials Studies: Mitsubishi		
		Chemical Center for Advanced Materials;	Dr. Stucky's research interests include biosystem processes (e.g., blood clotting,	
		Center for Energy Efficient Materials;	cascade chemistry, and hemostasis) and the chemistry associated with the efficient	
		Materials Research Laboratory; Center for	use of energy resources. He has done research that furthers the development of	
		Nanomedicine; California NanoSystems	energy storage systems, including the use of solar photocatalytic synthesis to make	
		Institute; UC Center for Environmental	high energy density useful chemicals, and he has studied the conversion of	http://www.mrl.ucsb.edu/mrl/faculty/stuc
Stucky, Galen	Chemistry and Biochemistry	Implications of Nanotechnology	methane to chemicals and fuels.	ky.html
		Institute for Energy Efficiency; International		
		Resources Panel of UNEP; World Resources		
		Institute; World Business Council for	Dr. Suh's research focuses on sustainability through understanding materials and	
		Sustainable Development; UC Center for	energy exchanges between nature and humans. His work has involved carbon	
		Environmental Implications of		http://www.bren.ucsb.edu/people/Facult
Suh, Sangwon	Bren	Nanotechnology	and industrial ecology.	y/sangwon_suh.htm
			Dr. Sweeney's research interests include applied statistics and spatial analysis,	
			research methodology, demography, economic geography, and development	
			studies. He recently conducted a study that looked at maize, one of the most	
			economically and culturally important crops produced in Mexico. Dr. Sweeney	
			discovered that changes in the production of this crop, caused by increased market	
		Social, Behavioral, and Economic Research;		weeney/UCSB_GEOGRAPHY.html and
Sweeney, Stuart	Geography	Institute for Energy Efficiency		http://geog.ucsb.edu/~sweeney/
		Chandle Contenter for Diadiversity and	Dr. Sweet's current research is based on conservation biology, distributional	http://www.lifeeci.weeh.edu/Feeleeu/
	Feelens Evolution & Marine	Cheadle Center for Biodiversity and Ecological Restoration; Institute for Energy	ecology, and systematics of western North American and Australasian amphibians and reptiles; the ecology and systematics of monitor lizards; functional and	http://www.lifesci.ucsb.edu/Ecology Evolution & Marine
Sweet. Samuel	Ecology, Evolution & Marine Biology; Earth Science	Efficiency; Earth Resource Institute		Biology/faculty/sweet/
Sweet, Samuel	Biology; Earth Science		Dr. Tague studies ecohydrology. Her work examines climate and land use change	Biology/lacuity/sweet/
			impacts in the terrestrial environment by combining observed data with computer-	
			based spatial models. She is currently investigating the impacts of climate change	
			on ecosystem services and water resources in mountain regions, including the	
		Association of American Geographers;	Western US, the European Alps, the Pyrenees, and select locations in China. Her	
		American Geophysical Union; Ecological	work also examines how forest management practices and land development or	
		Society of America; Institute for Energy	urbanization alters biogeochemical cycling and water availability for watersheds	http://www.bren.ucsb.edu/people/Facult
Tague, Christina	Bren	Efficiency	throughout the US.	y/more tague.htm
			Dr. Theogarajan does research related to the neural system and particularly to	,
			neural prosthetic devices. Neural prosthetic devices offer a way to restore functions	
		Institute for Collaborative Biotechnologies	lost due to neural damage. He is currently investigating the use of potassium ions	
		Center for Nanomedicine;	rather than electrons to communicate with neural tissue as part of this new	
		California NanoSystems Institute; Institute for	technology. This method has already proved to be safer and require lower power to	http://engineering.ucsb.edu/faculty/profil
Theogarajan, Luke	Electrical & Computer Engineering	Energy Efficiency	function than the approach currently used.	e/545
			As Director of the Cheadle Center for Biodiversity and Ecological Restoration,	
			Jennifer Thorsch focuses on our three main programmatic areas—collections	
		Meso- American Research Center;	management, education, and restoration. Through the work at the CCBER, we	
		Earth Research Institute; Cheadle Center for	support campus sustainability efforts by managing over 260 acres of campus lands	
Thorsch, Jennifer		Biodiversity and Ecological Restoration	which are planted with native species and therefore require little or no watering.	

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			Professor Tilman's research focuses on the causes, consequences, and	
			conservation of Earth's biodiversity, and on how managed and natural ecosystems	
			can sustainably meet human needs for food, energy, and ecosystem services. His	
			current research explores ways to use biodiversity as a tool for biofuel production	
			and climate stabilization through carbon sequestration. His work on sustainable	
			agriculture and renewable energy has critically examined the full environmental,	
			energetic and economic costs and benefits of grain crops, of current food-based	
			biofuels, and of biofuels made from diverse mixtures of prairie grasses and other	
Tiles on David	Base	hashin to all Frances Filling and		
Tilman, David	Bren	Institute of Energy Efficiency	native plants growing on already-degraded lands.	
		Institute for Collaborative Biotechnologies;	Dr. Turner's research interests include the development of synthetic adhesives that	
		California NanoSystems Institute; Marine	make use of large arrays of micrometer and submicron hierarchical polymer fibers	
Turner, Kimberly	Mechanical Engineering	Science Institute	for climbing robots by mimicking the fibers on gecko feet.	http://engineering.ucsb.edu/~tmems/
			Professor Valentine's current research projects include the study of the microbial	
			weathering of aromatic compounds released into marine environments. His	
			research aims to achieve a better understanding of the distribution of relevant	
			microbial communities, rates of oxidation, and the extent to which various	http://www.coastalresearchcenter.ucsb.
Valentine, Dave		Marine Science Institute	hydrocarbons are broken down or consumed.	edu/cmi/Valentine.html
valentine, Dave				
		Solid State Lighting and Energy Center;		
		Interdisciplinary Center for Wide Band-Gap		
		Semiconductors;	Dr. Van de Walle's research covers a broad range of issues related to renewable	
		Center for Energy Efficient Materials;	energy and energy efficiency. He is engaged in fundamental studies of group-III	
		Materials Research Laboratory;	nitride semiconductors, which are the key materials for solid-state lighting and also	
		California NanoSystems Institute;	enable a new generation of high-efficiency solar cells. In addition, he investigates	
		Nanoelectronics; Institute for Energy	hydrogen storage materials and materials for fuel cells and coatings for smart	
Van De Walle, Chris	Materials	Efficiency	energy-saving windows.	http://www.mrl.ucsb.edu/~vandewalle/
van De walle, Chilis		Marine Science Institute:	energy-saving windows.	mup.//www.min.ucsb.edu/~vandewalle/
		Materials Research Laboratory;		
		Institute for Collaborative Biotechnologies;	Dr. Waite's research centers around formulating a practical wet adhesive through	
	Molecular, Cellular, and	National Center for Ecological Analysis &	understanding and implementing the fundamental design principles at multiple	
Waite, Herb	Developmental Biologylogy	Synthesis	length scales of the bio-adhesive strategy practiced by marine mussels.	
			Barbara Endemaño Walker's research focuses on political ecology and human-	
			environment relationships related to marine and coastal resources in California,	
			French Polynesia, and Ghana. In Ghana, her research explores the historical social	
			and environmental antecedents of contemporary patterns of marine environmental	
			conservation and use. In French Polynesia, her research addresses disparities	
			among stakeholder perceptions of environmental and climate change and the	
			challenges associated with translating multiple and often opposing perceptions into	
			effective marine management and climate change adaptation policies. In California,	
			Walker studies new alternative seafood marketing arrangements to understand why	
			and how direct marketing programs are adopted by fishermen and whether these	
		National Center for Ecological Analysis &	marketing arrangements might increase the sustainability of fisheries and coastal	http://www.msi.ucsb.edu/people/researc
1				
Walker Barbara		ISVNINESIS' Marine Science Institute	Icommunities	
Walker, Barbara		Synthesis; Marine Science Institute	communities.	h-scientists/barbara-l-e-walker
Walker, Barbara			Dr. Walker's research specializations include documentary film and media, trauma	n-scientists/barbara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science Institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the	n-scienusts/dardara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she	n-scienusts/darbara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science Institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she co-organized "Figuring Sea Level Rise," an interdisciplinary research collaboration	n-scientists/barbara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science Institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she co-organized "Figuring Sea Level Rise," an interdisciplinary research collaboration and public programming series selected and mounted as the 2012-13 theme of the	n-scientists/darbara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she co-organized "Figuring Sea Level Rise," an interdisciplinary research collaboration	n-scientists/barbara-i-e-waiker
Walker, Barbara		Synthesis; Marine Science institute	Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she co-organized "Figuring Sea Level Rise," an interdisciplinary research collaboration and public programming series selected and mounted as the 2012-13 theme of the campus's Critical Issues in America series. Walker is currently co-editing a volume	n-scientists/barbara-i-e-waiker
Walker, Barbara			Dr. Walker's research specializations include documentary film and media, trauma and memory studies, and media and the environment. As co-convener of the Environmental Media Initiative Research Group of UCSB's Carsey-Wolf Center, she co-organized "Figuring Sea Level Rise," an interdisciplinary research collaboration and public programming series selected and mounted as the 2012-13 theme of the campus's Critical Issues in America series. Walker is currently co-editing a volume entitled "Sustainable media" and engaging in site-specific research around the world	
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	1	1	Dr. Wong works with Drofossor Frank Davis an evolution and control with the	,
			Dr. Wang works with Professor Frank Doyle on systems and control, wireless	
			sensor networks, systems biology, and complex networks, among other interests. In	
			October of 2012, he published a paper titled "Energy-efficient pulse-coupled	
			synchronization strategy design for wireless sensor networks through reduced idle	
			listening," that discusses significantly reducing the total energy consumption in a	
			synchronization process by reducing idle listening by introducing a large refractory	
Wang, Yongqiang	Chemical Engineering	Institute for Collaborative Biotechnologies	period in each oscillation period of the sensor. (font and font size)	
			Dr. Warner's research includes behavioral and evolutionary ecology, as well as	
			population biology. Most of his work focuses on coral reef fishes and the historical	http://www.lifesci.ucsb.edu/Ecology
		Marine Science Institute; Carsey-Wolf	ecology of coastal marine populations. His current research is on conservation	Evolution & Marine
Warner, Robert	Ecology, Evolution & Marine Biology	Institute	biology and the science of marine reserves.	Biology/faculty/warner/index.html
			Dr. Washburn's research focuses on oceanographic studies to understand how	
			ocean circulation processes affect marine communities in ocean environments. He	
			is currently researching surface circulation patterns in the Santa Barbara Channel	
			and investigating the importance of these flows for delivering larvae to nearshore	
Washburn, Libe	Geography	Marine Science Institute	habitats.	http://www.geog.ucsb.edu/~washburn/
			Dr. Weisbuch's research involves semiconductors, physics, and LEDs. He and his	
			team of researchers recently collaborated with scientists from other universities to	
			identify what causes light emitting diodes (LEDs) to be less efficient at high drive	
			currents, a phenomenon known as LED 'droop.' They showed that 'droop' is caused	
			by Auger recombination, a process by which energetic electrons, instead of emitting	
		Center for Energy Efficient Materials; Solid	light, collide with other electrons and lose their energy in the form of heat.	
i		State Lighting & Energy Center;	Understanding the origin of droop will lead to more efficient and cheaper LEDs.	
		Interdisciplinary Center for Wide Bandgap	They provide long-lasting, highly efficient light sources and could lessen the US'	
		Semiconductors; Institute for Energy	total electricity use by 10% if they were to replace less efficient incandescent and	http://inductry.upph.odu/foculty/profile/19
Weisbuch, Claude	Materials	Efficiency	fluorescent lights.	http://industry.ucsb.edu/faculty/profile/18
Weisbuch, Claude	Indienais		Professor Weldeab's research focuses on the reconstruction and understanding of	1
			past monsoon rainfall variability; thermal, salinity, and productivity history of the	
			oceans; and linkages between tropical oceans and high latitude climate and their	
			interaction with and effect on the monsoon systems. One of Professor Weldeab's	
			recent projects involved assessing seawater Nd isotope signatures. His research	
			uses marine sediment cores and the application of stable and radiogenic isotopes	http://www.geol.ucsb.edu/directory/facul
Weldeab, Syee	Earth Science		and trace element to study climate evolution in the past.	ty/weldeab.php
			Professor Welter's research includes the theory and history of sustainable	
			architecture and how the environment and architecture are related. He studies the	http://www.arthistory.ucsb.edu/index.ph
			history and culture surrounding the development of techniques used in sustainable	p?option=com_content&task=view&id=1
Welter, Volker	History of Art and Architecture		architecture, such as passive heating and cooling in buildings.	13
			Professor White's research involves researching the intersection of "the city" as a	
			domain and as a generative site for justice in social, economic, ecological, and	
			environmental realms. One of her current courses examines these elements and	
White, Mia Charlene	Black Studies		how, together, they produce the "Just City."	
			Dr. Wilkinson's research is focused on water and energy policy with regards to	
			climate change. He has analyzed US freshwater management policies, California	http://www.esm.ucsb.edu/people/Facult
Wilkinson, Robert	Environmental Studies; Bren		water supply management, and climate change adaptation strategies.	y/robert wilkinson.htm
,			Dr. Wolski's research interests include cloud computing and large-scale high-	
			performance distributed systems. His research includes the study of new power-	
			aware resource management algorithms for data centers using private cloud	
		Energy Efficiency Design; Greenscale Center	technologies. He also makes his work available as open source through the	
		for Energy-Efficient Computing; California	Eucalyptus private cloud project. Eucalyptus has been used worldwide to optimize	http://www.youtube.com/watch?v=q3JX
Wolski. Richard	Computer Science	NanoSystems Institute	data centers through the adoption of a private cloud based IT.	RiHlm9a
WOISNI, MICHAIU		Center for Polymers and Organic Solids;		i timinay
	Chemistry and Dischemistry	Mitsubishi Chemical Center for Advanced	De Mudi performe recepted on plactic color colle. The people of his work is to develop	
	Chemistry and Biochemistry;		Dr. Wudl performs research on plastic solar cells. The goal of his work is to develop	
Wudl, Fred	Materials	Materials; California NanoSystems Institute	new materials and consider new concepts that improve the efficiency of solar cells.	y/wuai/

			Dr. Yang's research interests include the development of a passive actuation device	
			for structural vibration control. This device mimics a highly efficient, fracture	
			resistant, energy dissipation mechanism found in abalone shell and bone. Passive	
		Institute for Energy Efficiency; Center for	actuator devices operate without external power or control input. This technology	
		Energy Efficiency Design; Center for	serves to protect structures while saving the environment by not requiring an	
Yang, Henry	Mechanical Engineering	Multifunctional Materials & Structures	external energy source.	http://me.ucsb.edu/faculty/profile/89
			Professor Yasuda's teaching and art practice focus on the creative repurposing of	
			materials and technologies. Her past projects, in collaboration with her spatial art	
			students, have undertaken the repurposing of used shipping containers into 'mobile	
			art spaces,' as well as a storefront redesign of the former Isla Vista Bakery. More	
			recently, she has initiated partnerships with social design non-profits, Architect for	
			Humanity and Bamboo DNA, in order to develop and test alternative uses for	
			construction. Studying the traditional methods of local indigenous populations, her	
			students explore bamboo, clay, and straw bale building techniques as both art and	
			architecture. Professor Yasuda continues to develop innovative curricula in the	
			spatial studies area of the Department of Art and was recently awarded a UCSB	http://artsite.arts.ucsb.edu/people/facult
Yasuda, Kim	Art		Leaf Grant for her classroom teaching experiments.	y/yasuda.html
			Dr. Young specializes in institutional and international governance and	
			environmental institutions. His research encompasses basic research, focusing on	
		Institute of Arctic Studies; International	collective choice and social institutions, and applied research dealing with issues	
		Human Dimensions Programme on Global	pertaining to international environmental governance and to the Arctic as an	http://www.bren.ucsb.edu/people/Facult
Young, Oran	Political Science; Bren	Environmental Change; Writing Program	international region.	y/oran_young.htm
			Current and past projects: (1) Cell-Based RF Design in Scaled CMOS Technologies	
			(2) Very Low Power, Adaptive Equalizer for High-Speed I/O's (3) On-wafer Wireless	
			Testing (4) Low-power Wireless Bio-sensors (5) Fast-settling PLL's. On-wafer	
			wireless testing with on-chip antenna. Ultra-low-power adaptive passive equalizer	
			for >10 Gbps. Sub-circuit standard cell library for predictive analog design. Wireless	http://engineering.ucsb.edu/faculty/profil
Yue, Patrick	Electrical & Computer Engineering	Institute for Energy Efficiency	power delivery interface circuits for bio-implants.	e/174
			Dr. Zheng's research focuses on harnessing the fundamental concepts of the	
			human cognitive cycle and applying them to device networks. This allows the	http://industry.ucsb.edu/faculty/profile/13
Zheng, Haito	Computer Science	Institute for Energy Efficiency	networks to manage themselves in a self-aware and adaptive manner.	5
		Institute for Multi-scale Materials Studies;	Dr. Zok's research interests include advanced cooling concepts for hypersonic	
		Center for Multifunctional Materials &	space vehicles and nanomechanics of biological materials. He has also conducted	
		Structures; Institute for Collaborative		http://industry.ucsb.edu/faculty/profile/18
Zok, Francis	Materials	Biotechnologies	Institute for Energy Efficiency Production & Storage Solutions Group.	8