

UC Santa Barbara Annual Sustainability Report 2013/2014

Natural gas
use was reduced
by 57% per square
foot in the past
decade

Achieved
a 21%
reduction of
potable water in
2013/2014

Launched an
Interdepartmental
PhD Emphasis in
Environment &
Society



UCSB Sustainability

Table of Contents

OVERVIEW	3
BUDGET.....	4
CAMPUS SURVEYS	5
AWARDS AND RANKINGS	5
CERTIFICATIONS.....	6
COMMUNITY ENGAGEMENT	7
REPORTS OF SUBCOMMITTEES, CHANGE AGENT GROUPS and the SENATE WORK GROUP	8
ACADEMIC SENATE SUSTAINABILITY WORK GROUP	8
CAMPUS THE SUSTAINABILITY CHAMPION YEAR-END REPORT	9
CHANCELLOR’S CAMPUS SUSTAINABILITY COMMITTEE SUBCOMMITTEE REPORTS	13
SUBCOMMITTEE ON ALTERNATIVE ENERGY	13
SUBCOMMITTEE ON BUILT ENVIRONMENT	14
SUBCOMMITTEE ON COMMUNICATIONS	16
SUBCOMMITTEE ON WASTE.....	17
SUBCOMMITTEE ON TRANSPORTATION	18
SUBCOMMITTEE ON WATER	20
SUSTAINABILITY CHANGE AGENT TEAM REPORTS	21
CHANGE AGENT TEAM – FOOD	21
CHANGE AGENT TEAM - LANDSCAPE/BIOTIC ENVIRONMENT	25
CHANGE AGENT TEAM - PROCUREMENT	27
CHANGE AGENT TEAM - LABRATS	30
STRATEGIC ENERGY PARTNERSHIP (SEP) TEAM	32
OTHER INITIATIVES	32
The Green Initiative Fund (TGIF).....	32
PACES.....	36
PARTNERS IN ENVIRONMENT (PIE).....	37
PLASTIC SOLUTIONS.....	38
ECOalition	39
GREEN CAREERS INITIATIVE.....	40
UCSB LIVING LAB.....	41
EDUCATING LEADERS FOR THE FUTURE.....	42

AS BIKE SHOP 43

AS DEPARTMENT OF WORMS - JEWEL OR KATIE-DO YOU KNOW THE ANSWER TO BRUCE’S QUESTION BELOW? 43

STAFF SUSTAINABILITY RECOGNITION AWARD..... 44

APPENDIX..... 45

UNIVERSITY OF CALIFORNIA TASK FORCE ON REPORTING ON SOCIALLY RESPONSIBLE INVESTING (SRI)..... 45

TASK FORCE ON REPORTING FOR SUSTAINABILITY IN ACADEMICS 48

To: Chancellor Henry T. Yang

From: Chancellor's Sustainability Committee

Re: 2013/14 Annual Sustainability Report

MISSION

The CSC is charged with advising the Chancellor and campus administrators on matters of campus sustainability. This includes making recommendations on sustainability initiatives, prioritizing and monitoring the execution and progress of the campus sustainability plan toward our goals, making recommendations on allocations of available funding resources, and providing guidance in the creation and fostering of alliances.

OVERVIEW

This past year, we addressed some major initiatives that included updating the Climate Action Plan, reporting to STARS, getting the Ph.D. Emphasis in place, and developing strategies to mitigate a stage 1 drought. President Napolitano also created three initiatives, one on Food, one on Climate, and one on Water. With your approval, our Climate Action Plan will be the first to be submitted that recognizes the new target set by Napolitano for achieving climate neutrality by 2025 for scope 1 and scope 2 reductions. We will shortly submit a set of reports to you on all three of the Presidential Initiatives. We will take the next steps in developing these further once we receive your feedback.

In 2013/2014, the CSC met twelve times and had six active subcommittees, for which individual reports are submitted:

1. Alternative Energy
2. Built Environment
3. Communications
4. Waste
5. Transportation
6. Water

There were also continuing Sustainability Change Agent Teams in the following functional areas, again with resulting reports:

1. Labs, Shops, & Studios
2. Landscape & Biotic Environment
3. Procurement
4. Strategic Energy Partnership
5. Food

In addition, the Academic Senate Sustainability Working Group (SWG), completed its sixth year of work focusing on sustainability in academics and research, along with student funded initiatives, The Green Initiative Fund (TGIF), The Coastal Fund, and the Renewable Energy Initiative (REI).

BUDGET

This was the second year there was a budget allocated towards sustainability at UCSB. Funding for this was provided by the Chancellor, Assistant Chancellor Todd Lee, Administrative Services, and Housing & Residential Services. The CSC approved the following allocations within this budget.

Program		Dollar Amount
Academic Support		
1	Faculty Sustainability Champion Program	\$ 25,000
2	Chancellor's Sustainability Interns	\$ 5,000
3	Academic Senate Sustainability Work Group staff support - Katie Maynard @ \$4,639/mo. x 15% time	\$12,158
4	Faculty Incentive Program (tied to STARS) aka New Leaf Program	\$ 3,000
Staffing		
5	Director of Campus Sustainability @ 15% time/mo.	\$ 25,783
6	Web/Computing - CNTIII @ \$5,876.38 x 10% time x 12	\$ 10,942
7	Staff to support sustainability internship program - Katie Maynard @ \$4,639.12/mo. x 35% time	\$ 28,369
8	Student interns for Greening Gateway	\$ 2,550
9	LabRATS	\$ 11,108
10	PACES	\$ 5,610
Consultants, Memberships, Fees, & Misc.		
11	The Climate Registry http://www.theclimateregistry.org/how-to-join/membership-options/	\$ 4,000
11A	Third party consultant for GHG emissions (Note: paid for by SCE for 12/13 and maybe 13/14)	\$ 7,000
11B	ICLEI Software	\$ 600
12	Association for the Advancement of Sustainability in Higher Education (AASHE) Membership http://www.aashe.org/membership/about#fieldgroup-44822-dues	\$ 1,770
12A	STARS 2.0 submittal fee	\$ 900
12B	Staffing to assist with collection, data assessment, and input for STARS submittal (Katie @ \$2,699; 30hrs editor time @ \$1,157 ; student assistants @ \$2,398.50)	\$ 6,255
13	Annual Sustainability Staff Champion Award	\$ 600
14	Miscellaneous Consultant Fees	\$ 2,347
Communications		
15	Communications subcommittee budget (approved by CSC in spring 2012)	\$ 25,700
16	Annual Transportation and Sustainability Surveys and Reports	\$ 13,670
Conference and Project Support		
17	Central Coast Sustainability Summit	\$ 1,600
18	Maintenance for 38 hydration stations (shouldn't need this till 13/14)	\$ 15,200
Travel		
19	UCOP Steering Committee Meetings (2 trips)	\$ 3,000
20	CHESC (4 attendees)	\$ 4,000
21	Matt StClair and Rashmi annual visit to UCSB	\$ 1,000
22	AASHE Conference (4 attendees)	\$ 7,000
Total		\$176,000

CAMPUS SURVEYS

As part of our responsibility to establish baselines and trends in campus behavior, we typically conduct three annual surveys that help us gauge improvements. Survey results for 2013/14 have been completed and include:

- A transportation survey that captured how faculty, staff and students commuted to campus, including annual vehicle ridership (AVR). This is now required by OP, and it is also vital in calculating campus GHG emissions.
- A survey of academic, administrative, and organized research units to ascertain their norms for purchasing, energy use, etc., and how these influenced campus sustainability for use in our Green Office program.
- A survey of student, staff, and faculty attitudes and actions towards matters of sustainability on campus. Undergraduate attitudes are surveyed on odd years and faculty, staff, and graduate students are surveyed on even years.

AWARDS AND RANKINGS

1. UCSB received a Gold rating under STARS (Sustainability Tracking and Assessment Rating System), a transparent, self-reporting framework for colleges and universities used to measure their sustainability performance and which is maintained by the Association for the Advancement of Sustainability in Higher Education (AASHE).
2. UCSB received one of the highest scores (99) in the Princeton Review's Green Rating and was named to the 2014 "Green Rating Honor Roll." The Company tallied the rating for 832 institutions, based on its institutional surveys of colleges in 2012-13 concerning their environmentally related practices, policies, and academic offerings.
3. In August 2014, UCSB was rated No. 24 on Sierra magazine's list of "Coolest Schools." The Sierra Club's official publication recognizes 162 colleges and universities that are creating solutions to climate problems and are making huge strides to operate sustainably.
4. UCSB was ranked 4th on the top 25 healthiest colleges list.
5. UCSB was named a Gold Bicycle Friendly University by the League of American Bicyclists.
6. UCSB received national recognition for leading the way in water conservation by the Earth Day Network.
7. UCSB Extension's Green Building Program earned a coveted U.S. Green Building Council's education award.
8. UCSB received a Cool Planet Energy Efficiency Award from the Climate Registry and Southern California Edison. This award is for achieving energy efficiency and climate change mitigation with electric and gas utilities in select regions. The Cool Planet Project highlights the relationship between energy usage and greenhouse gas (GHG) emissions, providing utility company business customers assistance in measuring and managing their energy & carbon output. Participating business customers are provided Registry membership to capture the reductions made through energy efficiency in terms of our complete carbon footprint, while identifying new energy savings opportunities.
9. UCSB received a Gold rating under STARS (Sustainability Tracking and Assessment Rating System), a transparent, self-reporting framework for colleges and universities used to measure their sustainability performance and which is maintained by the Association for the Advancement of Sustainability in Higher Education (AASHE).
10. UCSB ranked number 53 on The Daily Meal's list of the 75 Best Colleges for Food in America.
11. UCSB ranked in the top 5 schools with the greatest overall percent reduction in Water during Campus Conservation Nationals (CCN) residential Hall water Competition.

CERTIFICATIONS

1. UCSB recertified the Courtyard Café and the Coral Tree Café under the Santa Barbara County Green Business Certification program.
2. In 2013/2014, there were 37 LEED Homes certifications (North Campus Faculty housing phase II), one LEED New Construction (Ocean Science Education Building) certification, one LEED Commercial Interiors (Anacapa Hall) certification, and one LEED Existing Buildings (Recreation Center) certification.

COMMUNITY ENGAGEMENT

UCSB Sustainability hosted the following key events:

- The 3rd Annual Central Coast Sustainability Summit took place at UCSB in fall 2013 –The Central Coast Sustainability Summit is an annual conference whose goals include sharing best practices and building collaborations to address complex environmental and economic issues in our region. The event brings together key stakeholders from local government agencies, chambers of commerce, nonprofit organizations, campuses, utility companies, and private companies. Topics included economic development, product stewardship, renewable energy, and cross-agency volunteer management. We are currently in the process of planning our 4th annual summit, which will take place on November 13th, 2014. Our focus topics for 2014 include renewable energy and water.
- UCSB hosted the 2014 California Student Sustainability Coalition’s spring convergence. The theme was “Creating Coalitions!” The convergence attracted students from all over California that came together to share ideas.
- Re-imagining Climate Justice Conference - The multimedia conference was the culmination of a year-long effort to document the climate justice movement, which advocates for a more democratically inclusive world. This Conference was the capstone project of our 2013-2014 Faculty Sustainability Champion, John Foran.
- UCSB also hosted the California Higher Education Sustainability Conference in summer 2013. The California Higher Education Sustainability Conference (CHESC) highlights cutting-edge research, as well as case studies with proven successes in curriculum development, operational programs, and community partnerships. This unique event is jointly organized by independent / private colleges, California Community Colleges, California State Universities, and the University of California creating the opportunity for dialogue across institutions.

Partnership with Goleta Water District:

- Collaborated with the Goleta Water District and hosted a Community Lecture Series, “Water We Going to Do?”, to raise awareness about the state of California’s water resources and water conservation and efficiency efforts:
 - Session 1: Introduction (Goleta Water District/ UCSB/ Bren School)
 - Farmer’s Market: Tabling event with EAB and Goleta Water District
 - Session 2: Our Local Water Resources – Saving During the Summer

Other Activities:

- We also hosted three **Quarterly Sustainability Forums** this past year to share with the campus what UCSB sustainability has been doing on campus and to highlight ongoing projects. They were on November 2nd, January 13th, and May 23rd. These sessions focused on disseminating sustainability progress to the campus community.

REPORTS OF SUBCOMMITTEES, CHANGE AGENT GROUPS and the SENATE WORK GROUP

ACADEMIC SENATE SUSTAINABILITY WORK GROUP

VOTING MEMBERS:

Peter Alagona, Assistant Professor, History & Environmental Studies; David Lopez-Carr, Professor, Department of Geography; 2009-2010 Sustainability Champion David Cleveland, Professor, Environmental Studies; 2013-2014 Sustainability Champion John Foran, Professor, Sociology; Bruce Kendall, Professor, Bren School of Environmental Science & Management; LeeAnne Kryder, Continuing Lecturer, Writing Program; Ann – Elise LeWallen, Assistant Professor, East Asian Languages & Cultural Studies; 2010/2011 Sustainability Champion Eric Matthys, Professor, Mechanical Engineering; Dar Roberts, Chair & Professor, Geography; Josh Schimel, Professor, Environmental Studies Professor & Ecology, Evolution & Marine Biology; Eric Smith, Professor and Chair, Political Science; Bruce H Tiffney, (Chair), Dean, College of Creative Studies, Professor, Earth Science; and Karly Marie Miller, Graduate Student, Representative, Graduate Student Association.

ADVISORS AND STAFF (Non-Voting Members):

Lisa Berry, Instructional Consultant, Instructional Development; Deborah Karoff, Executive Director, Academic Senate; Mo Lovegreen, Executive Officer, Department of Geography and Campus Sustainability Director; Katie Maynard, Sustainability Coordinator, Geography, Staff to SWG; and George Michaels, Executive Director, Instructional Development.

MISSION:

UCSB is committed to the creation, dissemination, and assessment of knowledge about sustainable practices through classroom instruction, research, service learning, and visual and performing arts.

BACKGROUND:

UCSB is well respected for our scholarly pursuits in the environment and sustainability. Close to half of our academic departments offer courses and/or host faculty who conduct research on sustainability. Further, many of our research institutes and teams, such as the Marine Science Institute, the UCSB working group on Psychology, Environment, and Public Policy (PEPP), the NSF Center for Nanotechnology in Society, the National Center for Ecological Analysis and Synthesis, the Earth Research Institute, and the Carsey-Wolf Center, focus on technological and social solutions related to the stewardship of our planet and its resources. Many of UCSB's accomplishments in the area of sustainable curriculum and research reflect the actions of a variety of campus entities. The Academic Senate Sustainability Work Group works to coordinate and publicize these achievements as well as to identify potential areas of improvement and new initiatives that could help us achieve our campus goals.

ACCOMPLISHMENTS:

- Obtained approval for the Interdepartmental PhD Emphasis on Environment and Society (with planned launch in Fall 2014)
- Drafted and piloted a Sustainability Literacy Assessment Tool
- In partnership with other UC campuses, developed guidelines for reporting to AASHE's STARS Assessment tool on curriculum and research activities
- Supported by UCSB's innovative Faculty Sustainability Champion Program, Prof. John Foran (Sociology) hosted a Climate Justice conference and created a film about his students and his research into the global climate justice movement

SHORT-TERM GOALS:

1. Launch the sustainability literacy assessment
2. Launch a new research grant program for undergraduate and graduate students in research related to sustainability (funding secured; launching this year)
3. Develop a speakers' bureau for UCSB faculty who can speak on sustainability

MID-TERM GOALS:

1. Propose a new general education requirement in the environmental studies area
2. Add a label for sustainability-related courses in the UCSB course catalog

LONG-TERM GOALS:

1. Develop more projects in partnership with local stakeholders that use the campus and local region as a living laboratory
2. Encourage faculty to share their expertise with policy makers on sustainability issues

CAMPUS THE SUSTAINABILITY CHAMPION YEAR-END REPORT**CHAMPION: John Foran**

The science is in: climate change is here now, not in the future, and it's already having devastating effects on people's lives. That's the bad news, of course.

The good news is the rise of a global climate justice movement which is growing in numbers, reach, strength, and inventiveness.

Humanity's future, then, looks increasingly set to be a race between the effects of climate change and its corporate and nation-state drivers, on the one hand, and the efforts and ability of this movement to check those effects, bring to a halt the rate of increase of the greenhouse gas emissions that cause global warming, and then rapidly reverse the trend downward by defeating the "one percent" at the ballot box, in the streets, at places of work and consumption, and in the culture and media in which we swim, gasping for fresh air.

In this report I give an account and an accounting of the year's activities of the Climate Justice Project, a group of eight UCSB-affiliated scholars who came together in August 2013 as a result of my 2013-14 Sustainability Champion award and, combined with grants from the Academic Senate and Orfalea Center, this provided the means for us to plan a year of activities related to the study and practice of climate justice in our scholarship, teaching, and public service. These included doing research at the COP 19 UN climate summit last November in Warsaw, Poland; making public presentations at UCSB and in the community throughout 2014; offering UCSB students a series of classes; bringing an outreach project on climate change to the local Santa Barbara high schools; and, finally, organizing a gathering called "Re-Imagining Climate Justice: At the Crossroads of Hope and Possibility," at UCSB on May 10, 2014, attended by 150 people.

The Climate Justice Project

I want to start by acknowledging the true UCSB Sustainability Champions for 2013-14, the group of seven UCSB-affiliated individuals who worked with me on these various projects:

Richard Widick (Ph.D. in Sociology, 1996, and Research Scientist, Orfalea Center for Global Studies, 2011 -), filmmaker/scholar, with whom I co-direct the International Institute of Climate Action and Theory, and co-author of much of my climate movement work.

Celia Alario (B.A. in Environmental Studies 1996, lecturer in Environmental Studies and at the Bren School 2013-14), my teacher in the art of organizing a conference.

Corrie Ellis (Ph.D. candidate in Sociology), instrumental in doing the research and organizing the conference, my teaching assistant in my Spring 2014 class, and co-author.

Summer Gray (Ph.D. candidate in Sociology), teaching assistant in my Fall 2013 class, camera and editor for the film project, conference organizer, website designer, and co-author.

Natasha Weidner (B.A. in Environmental Studies, 2013), research assistant and film assistant at the COP 19, and participant in the high school outreach project.

Emily Williams (B.S. in Environmental Studies, 2013), who brought us into contact with other young activists with whom she worked in Warsaw, and helped organize the conference.

Ben Liddie (B.A. in Sociology, 2014), whose participant observation in Warsaw and work on the conference enriched both.

Re-Imagining Climate Justice

“Climate justice” has many definitions. One of the reasons for the May conference was to explore and deepen this diversity. For our group, it is meaningful action toward the most progressive possible global climate treaty, the strongest possible social movement participation in creating that treaty, and, through both of these channels the creation of a low-carbon, sustainable, equitable, and deeply democratic future. We believe that if we are to inhabit a livable world in coming years, this movement must become the biggest the world has ever seen.

This video clip, made before we went to Warsaw, gives a sense of the possibility we felt that the year to come might hold:

<https://www.youtube.com/watch?v=ycloZyKfVc>

Global Collaborative Ethnography at the COP 19 Warsaw Climate Treaty Negotiations (November 9-23, 2014)

Seven of us attended the UN Climate talks in 2013, where we conducted participant observation with many members of civil society who attended the talks or participated in actions inside and outside the convention, and we interviewed and videotaped about two dozen young climate justice activists from around the world. The work we did in Warsaw has informed a number of publications and talks we have already given, and this data will also be used in two of our creative research projects mentioned below: an e-book of the interviews we conducted and a documentary film about the global youth climate justice movement.

Here is a video we made of the historic walkout by civil society participants in Warsaw:

<http://www.youtube.com/watch?v=KbtdXFeEUxk&feature=youtu.be>

Classes Taught during 2013-14 on the Themes of Climate Crisis and Climate Justice

I taught a series of interrelated classes in the past academic year, all informed by and informing the year's project, and all very well received by the students in them. These included Sociology 134EC: Earth in Crisis with 80 students in Fall 2013; Sociology 265EC: Earth in Crisis with 16 graduate and undergraduate honors students in Fall 2013; Interdisciplinary Studies 94: Fresh(wo)man Seminar on Climate Justice for 14 first-year students in Winter 2014; and a new course, Sociology 134A: Activism with 75 students in Spring 2014, a special feature of which was a participant-

observation assignment with a local group advocating for climate justice. In addition, I taught a 2014 Summer Sessions travel-study course in London, Sociology 134GJ: Global Justice Movements.

Two of the class projects from the past year can be viewed at:

134EC Message to the World (3:53): December 5, 2013

<http://www.youtube.com/watch?v=C5mVCuokAkY>

Climate Justice Is... (2:28): March 2014

<https://www.youtube.com/watch?v=mSjePFsSMoA>

High School Outreach Project

Between January and April 2014, we developed contacts with local high school environmental studies and arts teachers, and three of us made presentations on the climate crisis and the concept of climate justice, with 19 visits to classrooms at Dos Pueblos High School, Santa Barbara High School, and La Cuesta High School. We also successfully encouraged high school participation in the May conference, where we organized a competition on creative work addressing these issues.

Conference: "Re-Imagining Climate Justice: At the Crossroads of Hope and Possibility" (May 10, 2014)

After four months of planning by the entire group, and the raising of additional funds of about \$12,000, we convened a gathering of just over 150 registered participants which featured panel discussions, workshops, a film and video festival, a high school creative works competition, and a variety of art projects by college students. By making the political and intellectual focus of the conference "Re-imagining" Climate Justice," we created a vibrant and exciting space for high school and college students, scholars, activists, and community members to explore its many facets, debate its various meanings, and strategize ways to achieve it, both locally and globally and everywhere in between. Feedback we received indicates they came out of this feeling inspired and empowered to take their climate justice work to another level in time to avert the worst and achieve the best, and to do so with the power to make a difference.

Summer Gray has made a short video that captures the spirit of the conference:

<https://www.youtube.com/watch?v=GpJpbnMjiYs>

"Re-Imagining Climate Justice": The Sustainability Champion Talk (May 22, 2014)

In this talk, the formal culminating event of the year, I developed my arguments that the climate crisis is far more profound and daunting than *any* of us realize, and that the planet can't stay below the bottom-line warming threshold of 2 degrees Celsius under capitalism as we know it. I concluded that this leads to one possible hypothesis for next steps: *only a strong and vigorous climate justice movement on a global scale has the capacity to force governments to stand up to the economic and political forces of carbon capitalism and to agree to the treaty needed to keep the planet under the dangerous threshold of 2° Celsius.*

Publications

A number of publications have already been generated by the project:

John Foran, "Get it Done! The Global Climate Justice Movement's Struggle to Achieve a Radical Climate Treaty."
Forthcoming in *Global Undertones*. August 2014.

John Foran, “¡Volveremos!/We Will Return:” The State of Play for the Global Climate Justice Movement at the 2013 Warsaw UN Climate Summit COP19.” Pp. 454-477 in *Interface: A Journal for and about Social Movements*. Volume 6. Number 1. May 2014.

Richard Widick and John Foran, “Whose Utopia? -- Our Utopia! Competing Visions of the Future at the UN Climate Talks.” Forthcoming in a special issue of *Nature and Culture*, “Beyond Utopia: Crisis, Values and the Socialities of Nature,” co-edited by Constanza Parra, Casey Walsh, and Lindsay Vogt.

I have also co-authored four articles on the politics of climate justice in the Maldives with Summer Gray, one of which will appear in *The Berkeley Journal of Sociology*.

Looking Ahead

The Climate Justice Project will continue its work in the coming academic year and beyond.

There will be quite a number of publications produced in the next twelve months: the e-book of interviews co-edited by myself, Corrie Ellis, and Summer Gray and titled *Global Climate Justice Youth Speak Out at the COP*; articles and chapters by myself and also co-authored with Corrie Ellis and Summer Gray making use of our interview data; and an edited volume with UCSB’s Kum-Kum Bhavnani and two scholars based in New Zealand, Priya Kurian, and Debashish Munshi, titled *Climate Futures: Voices from the Margins*.

There will also be further presentations and public lectures, including some by myself at the American Sociological Meetings in August 2014, and a keynote with Corrie Ellis and Summer Gray at the Central Coast Bioneers meeting in San Luis Obispo in October.

With Summer Gray, I will be completing a documentary film titled *Not Yet the End of the World: With the Global Youth Climate Justice Movement*.

There will be further engagement at the UNFCCC annual COP meetings. This November, at COP 20 in Lima, Peru, Richard Widick and I will co-host a press conference where we will unveil the policy proposals and strategic movement advice we have collected and written in a booklet titled *What Now for Climate Justice? Proposing interventions from COP 19 Lima 2014 through COP 20 Paris 2015*, co-authored with Patrick Bond, Michael Dorsey, Hilal Elver, and Richard Falk, among others.

The public sociology mission will continue to be archived and developed at IICAT (www.iicat.org).

CHANCELLOR'S CAMPUS SUSTAINABILITY COMMITTEE SUBCOMMITTEE REPORTS

SUBCOMMITTEE ON ALTERNATIVE ENERGY

MEMBERS:

David Auston, (Chair), Adjunct Professor, Electrical & Computer Engineering, Executive Director, CEEM; Isabelle Geczy Undergraduate Student, Environmental Affairs Board; George Levinthal, Project Manager, Design & Construction Services; Mo Lovegreen, Director, Campus Sustainability; David McHale, Associate Director, Facilities Management; Mel Manalis, Senior Lecturer with Security of Employment, Environmental Studies; Eric Matthys, Professor, Mechanical Engineering; Quyen Nguyen, Professor, Chemistry; Andrew Riley, Sustainability Coordinator, Student Affairs; Jordan Sager, LEED Program Manager, Facilities Management; Jewel Snavelly, Sustainability Coordinator/TGIF Grants Manager, UCSB Sustainability; and Bob Wilkinson, Professor, Environmental Studies.

MISSION:

Reduce non-renewable energy consumption through efficiency, conservation, and strategic procurement of energy resources.

BACKGROUND:

This subcommittee allows the CSC to engage a broader campus expertise, including faculty and student representatives, in addressing the issue of alternative energy. The Subcommittee discusses the question of alternative energy generation on- and off- campus. Ultimately, campus solutions to energy will be multi-pronged, involving on- and off-site generation, conservation, and a degree of reliance on fossil sources until new technologies become practical. Planning for these advances requires coordination between multiple internal and external stakeholders. Most recently, the Alternative Energy Subcommittee has recognized the need to identify a funding source for energy efficiency and alternative energy projects that is separate from the campus Purchased Utilities Account. As time goes on and the campus grows, it will be more difficult to realize important energy reductions. This new budget will allow the campus to invest the upfront capital that is needed to fund energy projects that have an acceptable rate of return, and ultimately, save the campus money.

ACCOMPLISHMENTS:

- Developed 2014 Climate Action Plan (CAP), including updated emissions data, projections, and mitigation strategies. The CAP was approved by the CSC, but with the presidential initiative, we are exploring additional possibilities will finalize the plan by early 2015.

SHORT-TERM GOALS (2014 - 2016):

1. Establish a separate budget or funding source to be used for energy efficiency projects and renewable energy procurement to meet critical campus emissions targets and objectives, as well as improve economic efficiency.
2. Develop criteria that will be used to determine which projects will be funded through the new budget.
3. Suggest different sources for the new funding, as well as ways the fund can be structured.
4. Investigate and prioritize the top alternative energy strategies to be implemented (on- or off-campus), including:
 - a. Solar
 - b. Biogas
 - c. Wave energy
5. Continue working with the Multi-jurisdictional Renewable Energy Taskforce to identify opportunities for regional partnerships on renewable energy projects.
6. Work with the UC-climate leadership council to identify opportunities for regional partnerships on renewable energy projects.
7. Further develop our climate action plan with the goals of the UC-wide council in mind.

MID-TERM & LONG-TERM GOALS (2016 -2022):

1. Work with other subcommittees to develop a climate adaptation plan.

2. Explore the linkage between energy, water, and food on our campus.

SUBCOMMITTEE ON BUILT ENVIRONMENT

MEMBERS:

Barry Colwell, Coordinator of Resource Planning & Special Projects, H&RS; Chuck Haines, Director, Capital Development; Marc Fisher, (Co-Chair), Senior Associate Vice Chancellor, Administrative Services; Mo Lovegreen, Director, UCSB Sustainability; Igor Mezic, Professor, Mechanical Engineering; Andrew Riley, Sustainability Coordinator, Student Affairs; Jordan Sager, Co-Chair, LEED Program Manager, Facilities Management; Dennis Whelan, Associate Campus Architect, Facilities Management; and Jack Wolever, Director, Design & Construction Services.

MISSION:

To provide education and seek resources to transform the UCSB campus design, development, construction, and modification process to ensure an energy efficient and environmentally responsible built environment.

BACKGROUND:

To ensure compliance with green building design and construction guidelines and policies, the University of California, Santa Barbara has adopted its own campus-wide policy. In 2002, UCSB adopted a campus policy stating that all new buildings commissioned after July 1, 2004, must meet a minimum of USGBC's LEED Silver certification. In 2010, the Chancellor's Sustainability Committee established a new practice that all buildings commissioned after July 1, 2010, must meet a minimum of LEED Gold. The CSC Sub-Committee on Built Environment oversees these practices and helps guide strategies for additional improvements in this area.

ACCOMPLISHMENTS:

- Raised Sustainable Infrastructure Practice – Green Building Design for all new construction from LEED Silver to LEED Gold for buildings approved after July 1, 2012.
- Certified over 2 million square feet of building space under the LEED rating system.
- Implemented practices to include LabRATS representation on all building committees for laboratory buildings or buildings that include laboratory space.
- Continued the first LEED for Homes project in the UC System: North Campus Faculty Housing Phase II.
- Completed a LEED-EBOM Gold certification for the Recreation Center (its 2nd LEED-EB certification), for a total of 12 LEED-EB buildings on campus, more than any college or university in the nation (UCSB now has 83 LEED certifications in place) (EB = Existing building. NC = New construction.)
- Buildings LEED certified:
 - Santa Rosa Residence Hall (LEED CI Gold, 2013)
 - Ocean Science Education Building (LEED NC Gold, 2013)
 - Anacapa Residence Hall (LEED CI Gold, 2014)
 - Recreation Center (LEED EB Gold, 2013)
 - North Campus Faculty Housing Phase II (37 homes LEED Homes Gold, 2014)
- Planned LEED Buildings (all LEED NC unless specified):
 - Davidson Library
 - Santa Cruz Residence Hall (LEED CI)
 - North Campus Faculty Housing Recreation Building
 - Faculty Club
 - SNARL Classroom
 - Institute for Energy Efficiency (Henley Hall)
 - Bioengineering
 - Portola Dining Commons
 - North Campus Faculty Housing Phase III (Homes)

- Sierra Madre Apartments (Homes) San Joaquin Apartments (Homes)

SHORT-TERM GOALS (For 2014/15):

1. Add renovation policies to the Campus' Green Building Practice.
2. Place a qualified sustainability representative on each campus committee participating in building design/construction, including the Chancellor's Campus Sustainability Committee and Departmental building committees.

MID-TERM GOALS (2015 – 2020):

1. Complete the certification of 25 campus buildings under LEED for Existing Buildings.
2. Expand Smart Lab Ventilation Pilot to include multiple buildings, including new lab construction projects such as Henley Hall and Bioengineering.

LONG-TERM GOALS (2015 – 2020):

1. Design, construct, and operate buildings, using a closed-loop process, calling for no waste in the construction process and building operation. Barriers at this point are knowledge, such as life-cycle data, and technology. Biomimicry is the impetus for this goal.
2. Striving for zero waste, pollution, and net habitat impact.

LAB VENTILATION SUB-COMMITTEE MEMBERS:

Amorette Getty (Chair), LabRATS Program Co-Director, Facilities Management; Sandro Sanchez, Building Automation Engineer Supervisor, Facilities Management; David McHale, Associate Director, Facilities Management; Mo Lovegreen, Director, Campus Sustainability; Ruben Diaz, Energy Services Assistant Engineer, Facilities Management; Richard Dewey, Associate Engineer, Facilities Management; David Vandenberg, Lab Safety/IIPP Manager, Environmental Health & Safety; Pam Lombardo, Acting Associate Vice Chancellor, Administrative Services; Joseph Harkins, Acting Fire Marshal, Environmental Health & Safety; Jesse Bickley, Industrial Hygiene Program Manager, Environmental Health & Safety; Jordan Sager, LEED Program Manager, Facilities Management; and Jewel Snavelly, Sustainability Coordinator/TGIF Grants Manager, UCSB Sustainability.

LAB VENTILATION SUB-COMMITTEE BACKGROUND:

Approximately one half of UCSB's daily energy demand supports the operation and ventilation of campus research laboratories. The desire to improve the efficiency of lab ventilation spurred the recent formation of the Lab Ventilation Sub-Committee on campus. The Lab Ventilation Committee, supported by UCOP, works to optimize lab ventilation that is well-integrated into the campus fabric and sensitive to maintenance, health, and safety concerns. The Committee also scrutinizes the face velocity of fume hoods and has equipped some fume hoods in newer buildings with an occupancy sensor, which sets the air velocity to 70 linear feet per minute back from 100lfm when the hood is not used.

ACCOMPLISHMENTS:

- Brought together stakeholders from administration, facilities, environmental health and safety, and sustainability to seek consensus on optimizing lab ventilation in buildings on the UCSB campus.
- Sent an 8-member team to attend UC Irvine's Smart Labs course, which outlines cutting edge solutions on their campus. Developed support relationship with UCOP's Environmental Health and Safety Center of Excellence for Smart Labs, and with David Kang who is at UCI.
- Achieved student funding through TGIF to support a year of coordination for the multi-stakeholder Lab Ventilation project.

SHORT-TERM GOALS (For 2014/15):

1. Publish a draft campus practice for Laboratory Ventilation Standards, optimizing for both safety and energy efficiency.

2. Initiate a Smart Lab Ventilation pilot program for at least one building on campus.

MID-TERM GOALS (2015 – 2020):

1. Expand personnel resources at EH&S and Facilities to support the safe, efficient operation of smart labs on campus.
2. Obtain, in collaboration with other UCs, a CalOSHA variance for the safe operation of low-flow fume hoods.
3. Pilot updated fume hood/CFM plan.

LONG-TERM GOALS (2020 - 2050):

1. Establish a fully-integrated campus-wide Smart Lab Ventilation program/policy.

SUBCOMMITTEE ON COMMUNICATIONS

MEMBERS:

LeeAnne Kryder, Continuing Lecturer, Writing Program; Kristen LaBonte, Associate Librarian, Library; Mo Lovegreen, Director, Campus Sustainability; Britt Ortiz, Director, Early Academic Outreach Program; Alex Parraga, Chief Digital Officer, News and Communications; Margaret Rankin, Computer & Network Tech, Library; Andrew Riley, Sustainability Coordinator, Student Affairs; Sarah Siedschlag, Recycling Program Coordinator, AS Recycling; and Jewel Snaveley, (Chair), Sustainability Coordinator/TGIF Grants Manager, UCSB Sustainability.

MISSION:

Increase visibility and education to our internal and external stakeholders to promote a “culture of sustainability” which integrates sustainability into the daily habits of the campus community and encourages active participation with students, faculty, and staff.

BACKGROUND

The Chancellor’s Sustainability Committee (CSC) recognized a need to educate our own campus as well as the local community about UCSB’s sustainability accomplishments. To address this they formed the Communications Subcommittee with the charge of identifying noteworthy campus sustainability information and promoting it to the campus, local community, state, and nation.

ACCOMPLISHMENTS

- Created a Public Relations Campaign for 2013-14. The campaign included DigiKnows (rotating slides displayed on digital screens in Residence Halls and Dining Commons), posters, 30-second videos shown in all local movie theaters, signage in MTD buses, a newsletter, and a quarterly sustainability forum. Impressions in the context of advertising are defined as the number of times an ad is seen. The impact of a campaign is measured using the number of impressions. Repeat impressions are important for ads to have an impact.

Campaign Item	Total # Impressions	Cost/1,000 Impressions
Bus Ads	3,311,837	\$0.72
Movie Trailers	632,736	\$12.50
DigiKnows	413,830	\$0.72

- Created a set of sustainability 411 posters on Food, Water, Waste, and Transportation in fall of 2013 for the green message boards around campus primarily geared towards increasing student education about sustainability on campus.
- The Communications Subcommittee worked with the subcommittee on water to create an outreach campaign regarding the current drought and UCSB’s efforts to conserve water. The campaign included DigiKnows, a movie trailer, and signage on potable water reductions and recycled irrigation.
- Increased the number of movie trailers being shown in local theaters to 3 this academic year and increased

each piece from 15 to 30 seconds.

- The Subcommittee participated in various local events including Earth Day and Spring Insight.
- The Subcommittee also delivered presentations about ways for new students to get involved in campus sustainability via UCSB freshman orientation groups twice per week throughout summer 2014.
- Additionally, in summer 2014, the Committee initiated a program in the Freshman Summer Start Program (FSSP) that includes a campus tour. FSSP is an academic and social summer program for newly admitted freshmen.
- Increased our presence in the online UCSB community through weekly postings and development of our Facebook page.

SHORT-TERM GOALS (To be accomplished by 6/15)

1. Focus 2014/2015 outreach campaign on energy/climate, food, water, and research.
2. Develop a rotating set of posters for the green boards and for the BigBelly solar-powered recycling units on campus.
3. Continue collecting data for impressions of the public relations campaign.
4. Redesign the UCSB sustainability website in an eye-catching and user friendly format.
5. Develop a sustainability blog which includes weekly postings of student articles.

SUBCOMMITTEE ON WASTE

MEMBERS:

Matthew O'Carroll, (Co-Chair), Refuse, Recycling, & Water Efficiency Manager, Facilities Management/Graduate Student; Bruce Carter, Hazardous Waste Program Manager, Environmental Health & Safety; Amorette Getty, LabRATS Program Co-Director, Facilities Management; Sue Hawkins, Director UCen Food Services; Lauren Menzer, Undergraduate Student, Environmental Affairs Board Zero Waste Committee; Mo Lovegreen, (Co-chair), Director, Campus Sustainability; Jordan Sager, LEED Program Manager, Facilities Management; Byron Sandoval, Superintendent, Custodial Services, Facilities Management; Sarah Siedschlag, Recycling Program Coordinator, Associated Students; and Mark Rousseau, Energy & Environmental Manager, Housing & Residential Services.

MISSION:

To make UCSB a zero waste university by ensuring waste management programs and practices effectively promote the reuse, reduction, recycling, and repurposing of items, as well as encourage the buying of recycled material.

FY 2013-14 saw UCSB improve its waste diversion 1% from 70% to 71%. While the diversion rate this year only increased slightly, this past FY the University decreased its overall waste generation by 134 tons, which was one of the major goals of the CSC Subcommittee on Waste. As UCSB has picked much of the low-hanging fruit in regards to waste management efforts, specifically around recycling, continued attention will be given to source reduction for the upcoming year and gaining a better understanding of our campus community's behavior towards waste management.

ACCOMPLISHMENTS:

- Facilities Management secured TGIF grant funding for the distribution of 5,000 desk-side recycling bins in an effort to improve office recycling practices
- Plastic Solution and Facilities Management collaborated to install additional UC Santa Barbara Hydration Stations (we now have more than 36)
- Development of Extended Producer Responsibility Language so that manufacturers maintain responsibility for end of life recycling of their product materials
- Zero Waste Committee piloted the Paper Towel Free Project, which saw paper towels in two residence halls replaced with reusable cloth towels that were provided to each resident
- Hosted the first ever Zero Waste Extravaganza Event, where all material provided was compostable or recyclable.

- Classroom Trash Can Removal – Removed all classroom landfill bins at Girvetz Hall and directed folks to use the hallway recycling and landfill bins, thereby encouraging people to recycle more as not every classroom had recycling bins
- Developed new waste signage to clarify waste streams for the campus
- Performed a building waste audit of MRL in an effort to gain a better understanding of their waste stream and improve recycling rates
- Installed the first commingled recycling compactor for H&RS at the De La Guerra Dining Commons
- In partnership with the Product Stewardship Institute, Plastic Solutions developed a Plastic Reduction Plan and the Plastic Tracking Tool. The Plastic Tracking Tool is used to help organizations determine the amount of plastic in their waste stream and the sources
- Organized a reusable bag give away
- Hosted a movie screening of Plastic Paradise
- Secured \$53,000 in stable funding each year through a student lock-in fee of \$1.29 per student per quarter for the Department of Public Worms Funding, which will improve on-campus composting efforts
- Received a TGIF grant for an indoor composting pilot program for post-consumer food scraps.
- Received a TGIF grant to increase worm composting capacity for the Department of Public Worms by purchasing material for new worm bins
- Implementation of compostable product purchasing program, allowing student groups to purchase compostable flatware and plates for events
- Produced a behavioral economic study focusing on social norms of personal waste disposal, which saw over 76 hours of observations, 1,300+ individuals, and 2,500+ materials
- Development of a new waste hauling contract that included equipment use modifications such as on-board front-end loader scales

SHORT-TERM GOALS:

1. Develop and introduce campus standards for all waste receptacles
2. Introduce campus standard for waste receptacles
3. Introduce indoor compost waste infrastructure
4. Achieve 75% waste diversion percentage (Municipal Solid Waste only)
5. Mount front-end loader scales on all waste hauling trucks

MID-TERM GOALS:

1. Update interior waste infrastructure – 3 buildings (to be selected)
2. Update exterior waste infrastructure with more BigBelly Solar powered waste receptacles on campus
3. Improve surplus and resale efforts
4. Increase exterior compost collection

LONG-TERM GOALS:

1. Achieve the President's goal of zero Waste by 2020 (defined as 95% diversion from landfill or incineration by UCOP)
2. Ban/ restrict the use of single-use plastic water bottles on campus

SUBCOMMITTEE ON TRANSPORTATION**MEMBERS:**

In academic year 2013/2014 the Chancellor's Sustainability Committee Subcommittee on Transportation, with your approval, was successfully merged with the Transportation Alternatives Board. Membership included: Doug Truong, (Chair), Financial Accountant, UCSB Santa Barbara Foundation; Bernard Kirtman, Professor, Chemistry; Sally MacIntyre, Professor, Ecology, Evolution, & Marine Biology; Todd Oakley, Professor, Ecology, Evolution, & Marine Biology; Mike Rogers, Associated Students Publications and Bike Shop Coordinator; Jonathan Abboud, 2013/2014

President, Associated Students; Sophia Armen, 2012/2013 President, Associated Students; and Charlene Mangi, Graduate Student.

EX OFFICIO MEMBERS:

Eva Inbar, SUN representative; Robert Silsbee, Interim Director, Parking Services

STAFF SUPPORT:

James Wagner – Transportation Alternative Program Manager (TAP), Transportation & Parking Services; Suzy Nespor; Roland Geyer, Faculty Member, Bren School; Mo Lovegreen, Director, Campus Sustainability; Arjun Sarkar, Alternative Fuel Coordinator, Transportation & Parking Services; and Scott Spaulding, Santa Barbara County Association of Governments (SBCAG).

MISSION:

To reduce both consumption of natural resources and production of greenhouse gases as related to transportation, using appropriate technological, management, and behavioral solutions.

BACKGROUND:

The University of California, Santa Barbara (UCSB) Transportation Alternatives Board has been charged to develop strategies that reduce fuel use, air pollution, and carbon dioxide emissions while providing opportunities for alternative transportation, including bicycle and pedestrian infrastructure.

ACCOMPLISHMENTS:

- Installed 12 Level 2 Electric Vehicle Supply Equipment (EVSE) A.K.A. Charging Stations.
- Installed 4 Level 1 Electric Vehicle Charging Outlets.
- Named Gold Level Bicycle Friendly University by the League of American Bicyclists.
- Developed a calculator for parking permit holders to estimate the carbon offset their monthly commute would generate. <http://tap.ucsb.edu/commuterCalculator.aspx>
- Expanded Clean Cities to county line in Santa Barbara. Clean Cities is a program from the US DOE that advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum consumption in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and private sectors to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies.
- Upgraded existing and installed new /commissioned CNG fueling infrastructure on campus.
- UCSB and MTD recently completed an agreement to significantly increase bus service to the campus community and to add a new bus line next year to serve the proposed San Joaquin housing complex.

SHORT-TERM GOALS (2013/14):

1. Improve methodology for scope 3 emissions tracking.
2. Promote campus-wide site licensing so that individual faculty and staff may use web-based software in place of travel.
3. Establish and track the effects of a dedicated, multi-user teleconferencing system for campus use.
4. Through partnerships, expand alternative fuel infrastructure. Identify UCSB research projects that can complement this project.
5. Review data and establish baselines for transportation methods (i.e., mode splits) by faculty, staff, and students and fuel consumption by fleet.
6. Develop an anti-idling policy for the campus fleet.
7. Work on securing grant funding and funding strategies to encourage departments to utilize Alternative Fuel Vehicles.

8. Analyze effectiveness of the Alternative Fuel purchasing policy and make recommendations for procedural improvements.

MID-TERM GOALS (2014-2020):

1. Decrease single vehicle ridership by faculty and staff by 5% over 2000 baseline.
2. Increase TAP participation by 5% over 2000 baseline.
3. Attain an alternative fuel fleet mix of 85% and a robust multi-fuel infrastructure.
4. Develop planning and funding for a north-south bike path linking the Fairview Plaza – Stowe Park area to campus.
5. Further reduce scope 3 emissions by expanding the use of teleconferencing / web options.
6. Work with the local municipalities, MTD, SBCAG, and the county of Santa Barbara to develop an integrated public transit system.
7. Expand full bus service (until 2am) to San Joaquin and Sierra Madre housing complexes (~1500 new beds).

LONG-TERM GOALS (2020-2050):

1. Decrease single vehicle ridership by faculty and staff by 35% from 2000 baseline.
2. Further increase TAP participation by 35% over 2000 baseline.
3. Complete alternative fuel infrastructure and achieve a fleet mix of 85% that uses alternative fuels and over 50% that uses renewable fuels.
4. Develop level 1 charging infrastructure.

SUBCOMMITTEE ON WATER**MEMBERS:**

Amorette Getty, LabRATS Program Coordinator, Facilities Management; Mo Lovegreen, (Co-Chair), Director, Campus Sustainability; Dan Marquez, Area Manager, Operations and Maintenance, Facilities Management; Matthew O'Carroll, (Co-Chair); Refuse, Recycling, & Water Efficiency Manager, Facilities Management; Misty Williams, Goleta Water District; Mark Rousseau, Energy & Environmental Manager, Housing & Residential Services; Jordan Sager, LEED Program Manager, Facilities Management; Jewel Snively, Sustainability Coordinator/TGIF Grants Manager, UCSB Sustainability; and Wennie Wang, Graduate Student.

MISSION:

To assist UCSB in protecting and conserving water resources, with an emphasis on reducing potable water consumption through encouraging water conservation and efficiency practices, as well as behavior change towards water use.

BACKGROUND:

FY 2012-14 saw the Change Agent Water Team officially become a CSC Subcommittee on Water, due to the group's work the past year and in anticipation of drought-like conditions in the area and the need to conserve water. The CSC Subcommittee on Water prioritized campus-wide water conservation and efficiency efforts this year with a focus on education and outreach.

ACCOMPLISHMENTS:

Together, the group collaborated to achieve the following:

- Saved 201,808 gallons of water in four weeks during the Residence Hall Water Savings Competition
- Partnered with the Environmental Affairs Board (EAB) on our education and outreach efforts
- Partnered with the Communications subcommittee to design water conservation DigiKnows and posters displayed in the Green Boards
- Initiated a Community Lecture Series, "Water We Going to Do?", a collaborative effort with Goleta Water District to raise awareness about the state of California's water resources and water conservation and

efficiency efforts

- Session 1: Introduction (Goleta Water District/ UCSB/ Bren School)
 - Farmer's Market: Tabling event with EAB and Goleta Water District
 - Session 2: Our Local Water Resources – Saving During the Summer
 - Session 3: TBD
 - Irrigation reductions: (Facilities Management/ Housing/ Vice Chancellor)
- Reduced irrigation 50% on areas irrigated with potable water.
 - Completely shut off potable irrigation on select lawns.
 - Collaborated with the Communications subcommittee to develop and deploy 40+ signs about campus irrigation practices.
 - Collaborated with Geography undergraduate students, graduate students, and faculty to conduct deep soil samples on campus in an effort to better understand the practice of irrigating with recycled water.
 - Piloted the use of flow restrictors in sinks throughout campus restrooms.
 - Collaborated with the Chancellor's office to develop a water conservation memo to disseminate to the campus community.
 - Development of a UCSB Stormwater Guidance document detailing best management practices to comply with the recently renewed State Water Resources Control Board Phase II Municipal Separate Storm Sewer System Permit.
 - Partnered with surrounding municipalities to organize and participate in Santa Barbara County Creek Week, an event that focuses on the importance of watershed protection.
 - Adopted Low Impact Development design practices for all new and redevelopment projects with greater than 2,500 square feet of impervious surface.

SHORT-TERM GOALS:

1. Revisit water contracts to see where we can make improvements in contract language.
2. Introduce high efficiency toilets to all buildings with toilets of 1.6 GPF or higher.
3. Implement Low Impact Development design for all new and redevelopment campus projects.

MID-TERM GOALS:

1. Update campus building standards to achieve all LEED points under the Water Efficiency category.
2. Measure existing water use and install additional meters.
3. Explore feasibility of using recycled water as cooling tower water make-up.

LONG-TERM GOALS:

1. Increase reclaimed water use in toilets.
2. Capture rainwater for reuse on campus.
3. Explore technology to capture building and landscape effluent for on-site treatment and reuse.

SUSTAINABILITY CHANGE AGENT TEAM REPORTS

CHANGE AGENT TEAM – FOOD**COALITION MEMBERS/COLLABORATORS:**

Roane Akchurin, Manager, Community Housing Office; Ashley Audycki, Outreach and Education Coordinator, Isla Vista Food Cooperative; Hazel Ando, Administrative Assistant/Events Coordinator, Intercollegiate Athletics; David Cleveland, Professor, Environmental Studies; Connie Chan, Chair, Food Cart Working Group, Associated Students Business Services; Melissa Cohen, General Manager, Isla Vista Food Cooperative; Chris Costello, Professor, Bren School of Environmental Science & Management; Laila DiGuilio, Research Associate, ISBER; George Foulsham, Director of News and Media Relations, News and Communications; Katie Freeze, Chair, AS Food Bank; Ruth Garcia Guevara, Community Volunteer Coordinator, Associated Students; Steve Gaines, Dean,

Bren School of Environmental Science & Management; Sue Hawkins, Director, UGen Food Service; Joanna Hill, Health & Wellness Educator, Office of the Dean of Students; Jill Horst, Director, Residential Dining Services, Central Food Service; Aaron Jones, Assistant Director for Community Affairs, Civic Engagement & Adv., Associated Students; Danielle Kemp, Dining Services Dietitian, Central Food Service; Kristen LaBonte, Associate Librarian, Library and Staff Advisor, Greenhouse and Garden Project; John Lazarus, Assistant Director, UGen Dining Services, UGen; Shelly Leachman, Writer, Public Affairs & Communications, Development, News and Communications; Mo Lovegreen, Director, Campus Sustainability; Erick Lankey, Vice Chair, AS Food Bank; Katie Maynard, Sustainability Coordinator, Geography; Meredith Murr, Director, Research Development, Office of Research; Tuyen Nguyen, Services Development Project Coordinator, Associated Students; Sarah Siedschlag, Recycling Program Coordinator, Associate Students; Jewel Snavely, Sustainability Coordinator/TGIF Grants Manager, UCSB Sustainability; Daniela Soleri, Associate Researcher, Geography; Doug Steigerwald, Professor, Economics; Stuart Sweeney, Professor, Geography; Bruce Tiffney, Dean, College of Creative Studies; David Tilman, Professor, Bren School of Environmental Science & Management; Robert Wright, Associate Director, Residential Dining Services, Central Food Service; and Barbara Walker, Director, Research Development, Social Sciences, Humanities and Office of Research.

MISSION:

Our mission is to promote the basic human right of secure access to healthy food for our bodies and the Earth by partnering and coordinating with the collective expertise of local growers, vendors, and non-profits. This involves campus providers, students, staff, faculty, and researchers working together to create a food system where students and the local community have a strong connection with and knowledge of their food system and where they develop informed choices in the selection and preparation of food that foster equitable social systems, with minimal environmental impact at the campus, community, state, and global level.

BACKGROUND:

Historically the working area for food was divided into two groups: Housing & Residential Services Dining (H&RS) and The University Center (UCen). These areas cover food production on the entire campus. These formed the basis of a coalition of campus participants that quickly formed after UC President Janet Napolitano announced that she would be putting together a UC wide food Initiative. UCSB was able to rapidly respond when asked to identify areas of specialization within the areas of food availability/security, sustainability, and health/nutrition. This coalition now includes 36 members, consisting of a wide range of Faculty, staff, students, community members working to bridge research, academic, community, and operational efforts and to partner in the UC Food Initiative.

ACCOMPLISHMENTS:

Dinning services:

- Created seasonal menu offerings.
- The 2013-2014 sustainable food procurement assessment calculated that 35% food purchases are sustainable, involving over \$2 million of the \$6 million in food purchases.
- The following table illustrates the percent of sustainable foods purchased in each food category and the percent change between 2012-2013 and 2013-2014 reporting years.

Food Category	2012-2013	2013-2014
Egg	99%	99%
Coffee Tea	99%	91%
Meat	15%	7%
Poultry	21%	21%

Dairy	46%	56%
Beverage	0%	0%
Baked Good	77%	84%
Fish and Seafood	87%	77%
Produce	52%	42%
Staples	11%	3%

- This year, 40% of dining commons total produce purchases were grown within 150 miles of campus, from 52 local sustainable farms (grown organically and/or without sprays or pesticides).
- In 2013/2014, 23% of produce purchased was organic.
- With composting and recycling efforts this year, we show a diversion rate of 94.33% from the landfill.
- This is the second year that UCSB Residential Dining Services has partnered with the EPA's Food Recovery Challenge because reducing food waste aligns with our strategic goals. We pledged to decrease our food waste by 5%. We reduced our food waste by performing weekly food waste audits. We will continue to partner with the EPA and continue to work towards reducing our food waste.
- We have composted all disposables used in dining commons, concessions and catering.
- In 2012, all four dining commons, special events catering, and concessions satisfied stringent standards set by the Santa Barbara County Green Business Program. (<http://www.greenbizsbc.org/certrestaurant.php>) and were certified as Green Businesses.
- UCSB received STARS innovation credit for our partnership with Harvest Santa Barbara: The Dining Business Office team continues to work closely with Harvest Santa Barbara to expand distribution of local produce. Recently, this system was identified as a best practice for UCSB in the UC Global Food Initiative. We look forward to sharing our program and structure enabling sister campuses to implement a similar program.

THE UCEN:

- Dairy: 5.8% of purchases were organic
- Non-Carbonated Beverages: 16.3% of purchases were organic
- Paper: 87.4% of paper products purchased were compostable
- Bread: 79.4% of purchases were organic and/or local or both
- Meat: 19.4% of purchases were organic, natural, grass fed, or seawatch safe
- Coffee: 96% of purchases were organic, Fair Trade, or a combination of both
- Produce: 75% of purchases were local, organic, or natural
- Opened Root 217, the first retail sustainable dining unit on campus.
- Awarded 'Best Practices' in 2012 by the California Higher Education on Sustainability conference committee.
- In 2012, Achieved Santa Barbara Green Business Certification for all 10 of the UCen's dining or kitchen units

OTHER:

- The Associated Students Food Bank, a student-run service that is available to all UCSB students, served over 3,000 visitors and has serviced over 35,000 drop-ins since opening its doors on April 19th, 2011.
- This past year, UCSB instituted the Swipes for Us program which allows students to share a "swipe" or ticket for one dining commons meal to a student with a low income.

- In fall of 2013 UCSB launched the Gaucho Certified Farmers' Market, on campus every Wednesday. At this market, the campus community can purchase affordably priced and locally grown produce.
- Student Health offered 15 student internships and collaborated with 16 student leaders in the Health and Wellness program. Health and Wellness Interns and Leaders are responsible for facilitating all workshops, marketing, tabling, events, and field trips. The interns are responsible for infusing UCSB with positive, proactive, evidence-based health and wellness messages and activities.

RESEARCH:

- The Climate Hazard Group (CHG), housed within the UCSB Department of Geography, conducts cutting-edge and policy-relevant work linking climate variability, crop production, food security, and health/demographic outcomes with a focus on developing countries. The group is directly funded by USAID and routinely provides the scientific basis for policy decisions at USAID. In addition to working in the policy arena, the scientific productivity of the unit is high and has been published in top journals including *Science* and the *Proceedings of the National Academy of Sciences*.
- The UCSB Sustainable Fisheries Group (SFG), a collaboration between the Marine Science Institute and the Bren School of Environmental Science & Management, is developing innovative research and applying it to real-world challenges to improve the sustainability of marine resources and coastal communities.
- Professor 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 on the potential contributions of agrifood system localization to climate change mitigation, improved nutrition, and food sovereignty, in Santa Barbara County and California.
- Professor David Tilman's work on sustainable agriculture and renewable energy has critically examined the full environmental, energetic and economic costs and benefits of grain crops, current food-based biofuels, and biofuels made from diverse mixtures of prairie grasses and other native plants growing on already-degraded lands. Dr. Tilman was designated by the Institute for Scientific Information as the world's most highly cited environmental scientist of the decade for 1990-2000 and for 1996-2006.
- Kum-Kum Bhavnani's (Sociology) research and documentary film "Nothing like Chocolate," studies the global chocolate industry and allegations that enslaved children are used to harvest beans along the Ivory Coast, which produces 40% of the world's cacao.

SHORT-TERM GOALS:

UCEN:

1. Eliminate Styrofoam and all consumer non-compostable packaging.
2. Increase usage of Green cleaning products.
3. Add Sustainability language to Leased Tenant RFPs and Contracts as they expire.

DINING SERVICES:

1. Increase purchase of 'verified' sustainably grown meat, poultry, fish, and dairy to 25% of total purchases by year 2015. Increase purchase of organic and local produce to 50% by year 2015.
2. Food Manufacturers & Distributors: Influence manufacturers and distributors to provide organic products in bulk recyclable packaging.
3. Work with campus and waste disposal companies for solutions to reuse all compostable materials on campus.
4. Purchase Energy Star equipment where available.
5. Work in conjunction with campus and waste disposal providers to find sites and vessels for composting all disposable products and post-consumer waste.
6. Communicate and share our framework for creating a sustainable food system with other schools, universities, and communities.
7. Influence manufacturers and distributors of natural and organic food products to provide more bulk, recyclable packaging materials.

COLLABORATIVE GOALS:

1. Eliminate Styrofoam and all consumer non-compostable packaging.
2. Continue to expand partnerships with off-campus organizations in developing food policy and programs on and off campus.
3. Evaluate the data collected by the food bank to assess its effectiveness (what's working and what needs improvement).
4. Based on the foregoing, expand the service capacity of the AS Food Bank
5. Increase proportion of healthy food provided by food bank to 50% by 2020
6. Decrease the percentage of students that skip a meal at least once a week from 40 % in 2011 to 10% in 2020
7. Work with UGen and Residential Dining Services on food distribution to students in need of food items that would otherwise be thrown out.
8. Work with PEPP group to conduct and apply behavioral research done on the campus to conscious food choices and healthy eating.

MID-TERM GOALS:**COLLABORATIVE:**

1. Expand on the outreach program led by dining interns to promote climate-conscious meal choices throughout the year (current outreach is at key times such as Earth Week).
2. Launch Associated Students Food Cart.
3. Establish a formal lease between the university and the Greenhouse and Garden Project for their space.
4. Expand courses on campus related to health eating and conscious food choices.
5. Increase the food purchased from fair trade business, farms direct, and unionized labor.
6. Expand Exercise and Sport Science offerings on nutrition and healthy eating, collaborate with freshman seminar program, and work with MCDB professors who currently teach about contemporary nutrition.
7. Increase the number of healthy options being offered in dining commons and the UCEN.
8. Create an assessment of the cost impact for offering sustainable food.
9. Expand collaboration with Harvest Santa Barbara.

LONG-TERM GOALS:**COLLABORATIVE:**

1. Establish a campus farm that could help increase access of healthy sustainable foods for students and increase knowledge of the food system for the whole campus community.
2. Set up an initiative or group to communicate research on food provision from the sea to policy makers. The group would serve as an aggregator for the tremendous research that is being conducted at other UC campuses (primarily Davis, Berkeley, Merced, and San Diego).
3. Start a teaching/demonstration kitchen

CHANGE AGENT TEAM - LANDSCAPE/BIOTIC ENVIRONMENT**MEMBERS:**

Lisa Stratton (Co-chair), Director, Ecosystem Management, Cheadle Center for Biodiversity & Ecological Restoration; Bruce Tiffney (Co-Chair), Dean, College of Creative Studies; Rachel Alford, Campus Flora Project Manager, Cheadle Center for Biodiversity & Ecological Restoration; Tom Beland, Director Residential Operations, Housing & Residential Services; Stacey Callaway, Environmental Compliance Specialist, Environmental Health & Safety; Jon Cook, Associate Director, Facilities Management; Dan Heedy, Residential Operations, Housing & Residential Services; Manuel Herrera, Superintendent, Physical Plant, Grounds Maintenance, Housing & Residential Services; and Mo Lovegreen, Director, Campus Sustainability.

MISSION:

To increase biodiversity of the campus flora, maintain it as a living collection, and raise awareness about sustainable practices and self-sustaining systems, while reducing dependency on fossil fuels, extracted minerals, pesticides, and potable water.

BACKGROUND :

The University of California, Santa Barbara established the Sustainability Change Agent Landscape/Biotic Environment Team in 2004. Their mission is to make sustainability one of the key decision making components for grounds design and management. Sustainability includes considering all inputs to grounds relative to their costs and benefits to the earth and the local ecosystem. Their directive is to increase biodiversity and self-sustaining systems while reducing dependence on fossil fuels and other extracted minerals. Socially, the group seeks to facilitate student education and work and play, while supporting the staff through living wages and local business opportunities. UCSB is also home to The Cheadle Center for Biodiversity & Ecological Restoration (CCBER). CCBER manages over 230 acres of open space on the UCSB campus in order to fulfill several goals: to preserve and enhance native plant resources and biodiversity of the region; to provide educational opportunities through signs, internships, seminars, and workshops; and to advance the understanding of restoration strategies and preservation of ecological function in urbanized areas to retain water quality and biodiversity through research. CCBER management areas include areas that already contained portions of intact vegetation or wetlands which are protected by the Clean Water Act and Coastal Act, as well as areas that are being restored after significant human impacts: the North Bluff, Campus Lagoon, Manzanita Village, Storke Wetlands, and San Clemente.

ACCOMPLISHMENTS:

The drought of 2013-14 has increased campus focus on the use of limited water resources for irrigation and the benefits of self-sustaining native landscapes.

- Adopted Low Impact Development design practices for all new and redevelopment projects with greater than 2,500 square feet of impervious surface.
- Enhanced native species on the campus periphery through ecological restoration.
- UCSB accepted 64 acres of the former Ocean Meadows Golf Course with a commitment to partner with the Trust for Public Lands to seek funds to restore it for the ecological and educational benefits that the project will achieve.
- Established a composting program to recycle clippings and shredded trees for campus landscaping use.
- Renewed campus storm water infrastructure, passing central campus drainage through centrifugal trash and sediment separator before discharging filtered water into campus wetlands (Faculty Club and Library corridor).
- Continued the development of bioswales and treatment wetlands in several areas on campus (Manzanita, San Clemente, Library corridor, San Nicolas wetland, North Campus Faculty Housing).
- Added additional educational signs related to bioswales, rain gardens, reclaimed water, and wetlands (Manzanita, San Nicolas Wetland, and Library Plaza).
- Eliminated the use of annuals for color on campus, selecting water-efficient perennials instead, and reduced the number of maintenance-intensive hedges.
- Replaced UCen lawn sprinklers with water efficient heads.
- Managed 60% of irrigation on turf areas through Rainmaster weather stations using continuously collected rainfall, humidity, wind, and temperature data to modify irrigation levels.
- As needed, cleaned the 72 storm drains on campus and cleaned hundreds of new clean and catch parking lot fossil filters twice annually.
- Reduced irrigation on potable water landscapes by at least 50% and completely shutoff irrigation to one lawn in light of the drought.
- Irrigated 90% of campus landscape with recycled water.
- With the assistance of the Communications and Water Teams, members from this committee helped select locations to place signage regarding our use of recycled water for landscaping on the campus, as well as our

irrigation reductions.

SHORT-TERM GOALS (2014- 2016):

1. Implement a grant from TGIF to place Campus Flora information on an accessible website for use by visitors, students, and faculty.
2. Implement a grant from TGIF to map invasive species on UCSB Campus and prepare a management plan.
3. Refine current assessment of landscape areas that cannot tolerate reclaimed water (75% complete).
4. Continue with conversion of the remaining 10% of areas currently on potable water to reclaimed water in association with other projects (Psychology Building, Santa Rosa Residence Hall, Girvetz, San Rafael Residence Hall, UCEN back lawn, and Pearl Chase).

MID -TERM GOALS (2016 - 2022):

1. Move to fully computer-controlled and sensor-monitored irrigation system.
2. Map campus run-off points and identify opportunities to reduce erosion and increase treatment through bioswales and wetlands.
3. Replace all irrigation heads on campus with water efficient emitters.

Long -TERM GOALS (2022 - 2025):

1. Fuel campus fleet and equipment used by grounds personnel (H&RS, FM, CCBER) with sustainably generated fuels. H&RS leading the way with CNG quick fill station.
2. Manage storm water through wetlands and biofiltration by using native plant species and storage and reuse where applicable at the University.

CHANGE AGENT TEAM - PROCUREMENT

MEMBERS:

Kathy Scheidemen (Co-chair), Management Services Officer, Earth Research Institute; Pam Lombardo (Co-chair), Acting Associate Vice Chancellor, Administrative Services; Christine Griffin, Gateway Systems Manager, Purchasing; Jacob Godfrey, Associate Director, Business & Financial Services; Steve Kriz, Assistant Director, Accounting Services; and Mo Lovegreen, Director, Campus Sustainability.

MISSION:

To facilitate the acquisition of resources in an environmentally conscientious and socially responsible manner while supporting the UC education, research, and public service mission.

BACKGROUND:

UC Santa Barbara recently transitioned to an electronic procurement system, Gateway (a SciQuest vendor-hosted system). Procurement at UCSB is now handled primarily through Gateway or via the campus Visa card, Flexcard. Our original vision for an e-procurement system included hosted catalogs that prioritized green items, thereby guiding the campus toward more sustainable options. Due to the distributed nature of purchasing and the varying needs of the campus community, we have not realized this goal. An examination of the data through April of 2014 shows the following:

Percent of spend by type within Gateway	
Catalog	0.93% - can capture green flags, if vendors provide
Punchout/Non-Catalog	47.60% - can capture line item data but not green flags
Form – Flexcard	1.55% - can capture line item data but not green flags
Forms – Other	49.92% - cannot capture any line item data

The Flexcard spend noted above (through the Gateway system) only captures a portion of the Flexcard spend. The

1.55% referenced above represents \$1.9M in Flexcard spend while the total 2013 (calendar year) spend was approximately \$9M. The YTD through April of 2014 is indicating a 30% increase over the prior year averages, but this is due to more than one factor (e.g., Flexcard was used to pay for the Student Health vaccines; departments are indicating the additional workload related to Gateway is problematic so are utilizing Flexcard whenever possible). This creates an additional challenge in both guiding campus spend to green options and in capturing data. The work relating to data capture is being addressed via a UCOP program utilizing Spend Radar analytics. Data provided to date indicates additional work will be needed in order to effectively utilize these data (e.g., Amazon provides full line item information, Dell duplicates line items, and many vendors don't supply line items).

We are hopeful that this problem may be addressed through the UCOP work, but we are not currently able to report on Flexcard spend.

Within e-procurement systems, data collection on sustainable purchases remains a challenge. Our ability to capture sustainable purchasing data continues to rely upon external, vendor-owned, systems. The quality of these data will depend upon our ability to gain buy-in with the vendors controlling these systems. This is true both in terms of indicating appropriate "green flags" and in widening the efforts to obtain more inclusive information (e.g., about packaging), such as the Global Trade Item Number (GTIN). We were recently notified that efforts to increase green markers within the SciQuest system, led by UCSF and UC Berkeley and funded via an EPA grant, have been terminated.

Currently, UCSD is working on managing hosted catalogs. We are hopeful that this will address a portion of our dual problems of directing spend and capturing data but recognize that there will be challenges in retraining UCSB faculty and staff in their use. Additionally, due to indications that most end-users may opt to simply punch out if one of their multiple items is not within the catalog, consideration should be given to the design of an interface that maps punch-out orders to our hosted catalogs in order to replace punch-out items with data from our hosted catalogs, as appropriate. Failure to consider this workload may negatively impact our ability to guide spend toward more sustainable options.

Until these challenges can be addressed, Procurement Services will work with UCOP (per 5/22/14 meeting) to gather green spend data required for reporting (e.g., to STARS).

ACCOMPLISHMENTS:

Our accomplishments this year fall into two areas: collection of data and preliminary conversations regarding possible programs.

- Through a TGIF-fund grant, Last Mile Delivery, a Bren graduate student was able to compile detailed information regarding our mail delivery routes, percent load in the various vehicles, idle time, and stops due to traffic signals. This project was originally envisioned as a possibility for decreasing emissions on campus through centralizing the delivery process at UCSB. This would come with the additional benefits of decreased risk and decreased wear and tear on infrastructure due to the reduction in truck traffic. Procurement Services, for internal reasons, determined that the project should not move forward with the addition of tracking additional vendors to the program and ceased offering this service for Office Max . The data captured will be valuable if this decision is ever revisited.
- Preliminary meetings were held to discuss potential policies regarding Product Stewardship and prioritizing purchases from local vendors. Working drafts have been started but work is in the exploratory stage.
- In an effort to better understand the environmental impacts of our spending decisions, we met with Industrial Ecology Research Services (IERS), a firm headed by UCSB Professor Sangwon Suh. This firm has developed a methodology that uses life cycle assessment (LCA) principles to quantify and analyze the environmental impacts associated with institutional purchasing. They recently completed a sustainable purchasing project for the General Services Administration (GSA) that analyzed the Federal Government's \$819 billion of spend and provided recommendations for targeting hot-spots. In examining possibilities for a similar analysis for UC, IERS

has worked with Procurement Services to complete a preliminary examination of purchasing data available at the UCSB Campus. While there is interest in the project, we were not able to secure the funding necessary to move this project forward.

SHORT-TERM GOALS:

1. Coordinate with UCSD on the catalog efforts; determine if the items typically purchased in punch-out (i.e., not the pre-loaded electronic catalogs) vs. catalogs are at a high-enough level to add to the catalogs.
 - a. Preliminary study of the design of an interface that maps punch-out orders to our hosted catalogs in order to replace punch-out items with data from our hosted catalogs, as appropriate.
 - b. Prioritize display of green items within the hosted catalogs.
 - c. After 1A and B are completed, work with the campus community to direct more spend through hosted catalogs.
2. United Students against Sweatshops at UCSB is working on a campaign to ensure that UC clothing is made by companies that have signed the Bangladesh Accord on Fire and Building Safety: (<http://www.bangladeshaccord.org/>). Draft policy proposal for the Chancellor's Sustainability Committee to consider in support of these efforts.
3. Develop Product Stewardship policy.
4. Develop policy to direct spend to local vendors.
5. Mail Services currently collects used toner cartridges as part of their mail route. Procurement Services notified the Change Agent team in May, 2014, that they are considering removal of this service at the end of this fiscal year. Work with the Waste Team to see if there is an alternative solution.
6. Reform the Procurement Change Agent team, new chair/co-chairs, and new membership.
7. Web-based equipment sharing LabRATS (Laboratory research and technical staff, a list-serve for laboratory staff) has created a program focused on assessing all UCSB-managed laboratories (see <http://surplus.eri.ucsb.edu/>). Utilizing funding received from The Green Initiative Fund, a Surplus Equipment website was created (<http://surplus.eri.ucsb.edu/>) in order to promote use of items already owned on campus and, thereby, decrease the need for additional purchases. As part of the move off of the mainframe, the DSA feed that was provided to address the approval component was not addressed. Work with appropriate campus unit to feed the replacement DSA feed.
8. Janitorial Supplies: Expand the use of green cleaning products and techniques throughout the campus and UC community.
9. Video Conferencing: Support and expand the utilization of video conferencing and other electronic alternatives to travel.
10. Sustainability elements: Gateway Trainings policy, education & outreach:
 - a. Develop clear guidelines for environmentally preferable procurement across a broad range of commodities and outreach sustainability practices on campus. Establish sustainable procurement policy for systemwide application and interface with BUS-43 and other UC policies. Imbed Procure-to-pay (P2P)/Gateway with EPP attributes so users can filter and/or search for preferable items.
 - b. Develop environmentally preferable packaging specifications: Enhance specifications for packaging to eliminate waste streams onto campus and expand recycling and closed loop design efforts.
 - c. Develop product content standards and criteria: Develop commodity EPP matrix, create specifications for commodities where needed, and compile resource base for future use and external reference. Develop and incorporate language for Environmentally Preferable product standards in all Campus and systemwide RFPs and contracts.
 - d. Create an alignment of principles and goals for strategic initiatives: Create standardized sustainability language for use systemwide and work toward establishing presidential policy for EPP.

MID-TERM GOALS:

These goals are in addition to all the above short-term goals that will, in many instances be continuous efforts. As time progresses, intermediate to long-term goals will be re-evaluated and modified to address current needs:

1. Seek the full elimination of decentralized paper catalogs.

2. E-signatures: E-signatures will be instituted for all campus forms.
3. Expand Gateway to incorporate re-use module for campus-specific reuse of surplus (sharing system).
4. Policy/education and outreach: Continuous improvement and utilization of matrix, criteria, and guidelines for more sustainable procurement, with an emphasis on vendor selection/qualification. Increase quality points weighting for sustainability by a minimum of 15%.

LONG-TERM VISION:

The following categories briefly encapsulate our vision for a sustainable procurement operation at UC Santa Barbara, and how those processes will relate to a broader global community.

In order to reach our goals, UC Santa Barbara is implementing a procure-to-pay system that integrates campus procurement and accounting processes while offering efficient controls (Gateway and PaymentPLUS). The goals of the procurement system include the ability to expedite the procurement process, increase administrative capacity to capture data, monitor purchasing behavior, analyze business flows, and direct customers toward designated suppliers. Each of these benchmarks will need to be continually monitored and the system adjusted in order to achieve the desired results.

LONG-TERM GOALS:

Long-term goals are still in development and will largely be shaped by the outcomes of our short to mid-term goals, as well as our vision for full campus sustainability. At this time, we have a small set of long-term goals for campus procurement operations:

1. Commodities: Apply (or assist in the development of) international standards for Environmentally Preferable Purchasing
 - a. Create a tier rating system, perhaps based on the U.S. Green Building Council's LEED model that includes scientifically based, neutral oversight of standards development and effective controls for validity of environmental criteria.
2. Ensure that all product inputs into the University of California are compliant with EP standards:
 - a. Recyclable
 - b. Reusable
 - c. Biodegradable
 - d. Capable of being refurbished
 - e. Effective end of life programs
3. Zero waste output from University locations (to be achieved by 2020)
4. UC-wide reuse of surplus sharing process
5. Policy/education and outreach: 100% UC wide implementation of sustainability practices in UC business and investment strategies

CHANGE AGENT TEAM – LABS, SHOPS, STUDIOS**MEMBERS:**

Amorette Getty, LabRATS Co-Director, Facilities Management; Katie Maynard, Sustainability Coordinator, Geography; Arriana Rabago, Undergraduate Student; Noelle Ocen-Odoge, Undergraduate Student; Adam Law, Undergraduate Student; and Felice Tsui, Undergraduate Student

MISSION:

To reduce the environmental impact of laboratories, medical facilities, shops, and art studios while also improving safety, management practices, communication, and resource sharing.

BACKGROUND:

Laboratories on campus are the most intensive building spaces in terms of energy, water, and resource use, and the complex nature of lab research means every lab's needs are different. The Labs, Shops, and Studios Change Agent

Team embraces the unique opportunities and challenges of reducing the campus' environmental impact in spaces where sustainability had previously been overlooked. The team recognizes that the issues of safety and sustainability are fully entwined in such spaces and that any measures that we develop must result in positive outcomes for both issues. We see this as a great opportunity to achieve multiple campus goals through integrated programs. Many of the programs of the Labs, Shops, and Studios Change Agent Team is facilitated by the LabRATS Program. LabRATS was established in 2006 as one of the first campus laboratory sustainability programs focused on behavioral change comprehensively across areas of energy, waste, water, and materials. The program was founded in coalition between research staff, building managers, graduate and undergraduate students, and administrative staff. LabRATS continues to merge the creativity and idealism of students with the practical advice of staff to provide support and resources to researchers.

The Laboratory Resources, Advocates, and Teamwork for Sustainability (LabRATS) Program at UCSB assists researchers on campus in reducing their impact on the environment while also improving safety, encouraging good laboratory management practices, and promoting communication and resource sharing. Our program is uniquely prepared to adapt campus recycling, energy management, and sustainability practices to the unusual materials used and processes implemented in laboratories.

ACCOMPLISHMENTS:

- Developed and launched the shared instrumentation website, a new tool for allowing internal and external users to browse available instruments at UCSB. This will promote sharing and reduce the need for purchasing new equipment <http://surplus.eri.ucsb.edu/>.
- Posted over 200 instruments for use at UCSB to the shared instrumentation website.
- Added 13 departments and over 30 facilities to shared instrumentation website.
- Launched a national best practice sharing website.
- In collaboration with EHS, Facilities, and the Sustainability Change Agent Waste Team, co-launched the red-lidded toter program, a new effort to handle physically hazardous materials leaving campus laboratories.
- Completed applying fume hood safety labels to all Variable Air Volume fume hoods on campus.
- Developed a master slide deck and corresponding website for LabSYNC 2.0, the newly revamped LabRATS assessment process.
- Completed three pilot assessments in LabSync 2.0.
- Drafted text to use as a template for the "broader impacts" section of national research grants discussing the LabRATS program and shared this text with researchers.
- Designed a laboratory composting pilot program which is set to launch fall 2014.
- Hosted a two month webinar series on sustainability efforts in student health facilities, featuring four webinars on waste management; retro-commissioning; metrics, certifications, and software for sustainability management; and health and wellness programs.
- Became a member of Practice Greenhealth (PGH).
- Developed a network of contacts for student health professionals and clinics around the state.

SHORT-TERM GOALS:

1. Continue to track best practices in student health centers and clinics.
2. Support Student Health in continuing to seek new measures to improve sustainability in their operations.
3. Continue to develop and increase marketing for the Green Lab Planning National Website.
4. Develop a nitrile glove recycling pilot.
5. Launch the laboratory composting pilot.

MID-TERM GOALS:

1. Pass a campus-wide policy against single pass condensers and rotary evaporators. Only closed loop systems

should be allowed.

LONG TERM GOALS:

- Develop training modules on good lab management practices and seek new avenues to promote collaboration amongst researchers on lab management.

STRATEGIC ENERGY PARTNERSHIP (SEP) TEAM**MEMBERS:**

Marc Fisher, Senior Associate Vice Chancellor, Administrative Services; Chuck Haines, Director, Capital Development, Budget & Planning; Todd Lee, Assistant Chancellor, Budget & Planning; David McHale, Associate Director, Facilities Management; Olga Mery, Financial Manager, Facilities Management; Jordan Sager, LEED Program Manager, Facilities Management; and Ron Yamane Assistant Manager, Financial Services, Facilities Management.

MISSION:

Reduce non-renewable energy consumption through energy efficiency and strategic procurement. Our mission is accomplished through:

- Planning, development, and implementation of energy efficiency projects
- Reviewing plans for new construction to ensure that energy-efficient design strategies are incorporated into all new building and renovation projects
- Investigating and employing new renewable and energy-efficient technologies

BACKGROUND:

The Strategic Energy Partnership (SEP) program has been in place at the University of California since 2009, and since its inception, UCSB has implemented \$10 million worth of energy conservation projects. The SEP is the most effective mitigation strategy, facilitating the achievement of UCSB's 2020 GHG reduction target. Projects focus on lighting and HVAC retrofits as well as Monitoring Based Commissioning.

ACCOMPLISHMENTS:

- Electricity accounts for three quarters of UCSB's annual utility expenditure. As compared to the prior year, total electrical energy usage on campus decreased by 4 percent. Over the past decade, UCSB has reduced electricity usage per square foot by 36 percent.
- Natural gas represented 16 percent of UCSB's annual utility expenditure in 2013-2014. As compared to the prior year, total natural gas usage on campus decreased by 15 percent. Over the past decade, UCSB has reduced natural gas usage per square foot by 57 percent.

OTHER INITIATIVES**The Green Initiative Fund (TGIF)**

2014 Activities

The Green Initiative Fund (TGIF) Grant Making Committee announced the selected projects for the 2013/14 funding cycle in April 2014. A total of 22 projects applied for TGIF grants this year, requesting a total of \$264,802. The TGIF Grant Making Committee awarded funds to projects, totaling \$184,614.

The TGIF Grant Making Committee consisted of eight voting members and six non-voting members.

Voting Members

Carrie Frandsen (serving for Ron Cortez)	Emergency & Continuity Services Environmental Health & Safety
Simone Pulver	Faculty Representative, Academic Senate
Henry Pahl	AS Senate Representative
Thomas Gineo	Undergraduate Campus-wide Representative, Vice Chair
Casey Maue	Bren School of Environmental Science & Management Representative
Shane Grigsby	Graduate Student Association Representative, Chair
Taylor Reinman	Environmental Affairs Board Representative
Non-voting Members	
Jewel Snavely	TGIF Grants Manager
Jordan Sager	LEED Program Manager, Energy and Utility Services
Mo Lovegreen	Director, Campus Sustainability
Andrew Riley	Student Affairs Sustainability Coordinator
Bill Shelor	UCSB Community Member
Todd Lee	Office of Budget and Planning Representative

Below is an overview of the projects that you can expect to see completed within the next academic year.

Additional UC Santa Barbara Hydration Stations for the UCSB Library (\$4,241)

This TGIF grant will go towards the installation of two additional UC Santa Barbara Hydration Stations in the Library. During the 2011-12 funding cycle, TGIF funded 22 hydration stations, where students can fill up their reusable bottles with filtered water for free! The 2011-2012 funded hydration stations installed in the library are so popular that they are currently being used beyond their planned capacity and, consequently, have slow flows delivering reverse osmosis and filtered water. TGIF hopes that funding additional hydration stations will help to decrease the amount of plastic waste generated on campus and yield energy savings by eliminating chillers in each water fountain.

Art Department LED Retrofit (\$25,995)

The funding will be used to retrofit the Art Department Studios and Museum by replacing inefficient incandescent lamps with a total of 542 LED lamps. This will require a total of \$25,995 allotted from The Green Initiative Fund. This grant will increase campus energy efficiency and reduce UCSB's environmental impact. LEDs are estimated to have a 90% higher efficiency rating over incandescent lighting, so this project will result in huge energy savings in the Art Department. Current energy use is just over 111,000kWh per year for 542 incandescent bulbs. Once we replace these with LEDs, usage will drop to 15,000kWh per year. Savings per year translate to 96,000kWh of energy, 66,000lbs of CO₂, and \$12,500. Over the average lifespan of an LED bulb (50,000 hours or about 17 years), this equals 1.5million kWh, 500 metric tons of CO₂, and more than \$200,000 in savings. Less money towards lighting over time means more funds for other necessities on campus that may be undervalued.

Indoor Compost Bin Project (\$3,812)

Associated Students Recycling will be adding 40, 23 gallon compost bins to department kitchens and lounges around

campus. The goal is to capture the large number of low volume food and compostable products that are currently being discarded in landfill bins. The goal of this project is to reduce UCSB's impact on the environment by reducing the amount of waste it sends to the landfill and subsequent GHG emissions, and to save the University money by reducing disposal costs.

Mercury Free Fluorescent Microscopy (\$17,581)

This project will reduce waste and provide a demonstration to the campus that mercury free illumination can be used successfully in research and teaching applications. The NRI-MCDB Microscopy Facility plans to replace two of the eight mercury arc sources that are traditionally used as high intensity light sources for fluorescence microscopy with solid state light engines that do not contain mercury. Integrating the light sources into this core facility will be the best exposure for this alternative light source, as well as immediately reducing the generation of waste from the systems. This project could have a lasting impact on the choices researchers and educators make when selecting new instrumentation.

Give Project (\$8,375)

The funds will be used for the purchase of items badly needed to successfully process, collect, protect, and display over 30 tons of donated goods. From June 13th-22nd, residents can donate unwanted food, clothing, furniture, books, and electronics to several site locations throughout campus and IV. Ninety percent of the items collected come from students. Volunteers sort and organize the donated goods to prepare for the GIVE sale at Embarcadero Hall on June 23rd & 24th. The proceeds generated from this project are given to local Isla Vista non-profits.

The First Net-Zero Energy Building for UCSB (\$20,000)

The Sierra Nevada Aquatic Research Laboratory (SNARL) is in the process of designing a new fully-funded classroom/lecture hall for its facility near Mammoth Lakes, CA. The project objective is to make the building a "net-zero" consumer of fossil fuel by employing photovoltaic energy generation and ground source (aka geothermal heat loop) heating and cooling. Donor funding has been secured for 85% of funds needed to install the two energy systems, and the TGIF Grant will cover the remaining 15% of the cost of the 15 kW PV and ground source heating/cooling systems. This will be the first "net-zero" energy building in the University of CA. We hope this project will encourage others to adopt this sustainable technology.

Vermicompost Bin Project (\$4025)

The Associated Students Department of Public Worms (DPW) is a student-run organization that works to reduce UCSB's compostable waste through on-site vermicomposting and that conducts workshops designed to teach students the benefits of composting and how to do it at home. The TGIF funds will be used to purchase materials for the construction of 3 4'x8' worm bins, to purchase composting worms to stock the bins, and to print vermicomposting guides and fact sheets. Additional bins will also allow DPW to increase the amount of compostable waste that can be processed on site, keeping it out of landfills and avoiding the transportation impacts associated with commercial composting. New bins will also improve outreach potential by allowing visitors to view all stages of the process and by providing finished compost to the UCSB community.

Energy Conservation Initiative (\$30,000)

Approximately one half of UCSB's daily energy demand supports the operation and ventilation of campus research laboratories. Due to the complexity of lab operations, only scattered work has been done in recent years to optimize campus lab ventilation, and no coordinated projects or campus-wide policy exists. This project proposes to provide 1,000 hours of experienced staff researcher time to assess and implement new strategies for energy-efficient laboratory ventilation in existing and new campus lab buildings. At other UC campuses, lab building energy costs have been cut by as much as 61%, utilizing demand-controlled ventilation schemes, chemical hazard assessments, occupancy sensors, and low-flow fumehoods, and also obtaining variances from CalOSHA and fire marshal standards to operate these labs using newer, non-traditional safety technologies. Such measures present potential savings for UCSB on the order of \$2-3 million, as well as significantly decreasing energy, water, and carbon footprints. This proposal has secured matching funds from Facilities Management, approved by the vice Chancellor of Administrative Services, demonstrating

concrete support of this project.

My Tree Keeper and Invasive Species Mapping Project (\$15,201)

This project will build on more than \$90,000 invested in the Campus Flora project by upgrading the Facilities Management program to “MyTreeKeeper.” Additionally, mapping selected invasive species in areas dominated by native plants may form the basis for a weed management plan to help to maintain a more sustainable habitat for the native flora and fauna that occupy UCSB's natural areas. The Treekeeper 7 information is currently not available to the public. The MyTreekeeper upgrade will educate the public about our special and diverse tree specimens and the sustainable and low impact practices they serve on campus. It offers user-friendly navigation and includes tools that measure yearly eco benefits, greenhouse gas, water, energy, and air quality benefits of campus trees. Additionally, this grant will provides a skill building opportunity through the funding of a two quarter undergraduate student internship for the mapping component of the project, as well as a graduate student internship which will provide technical writing experience through the preparation of the weed management plan under the CCBER Director of Ecosystem Management. My tree keeper will be mapping native & non-native specimens for teaching & general interest purposes – It can help with the management of pests, but that is secondary.

UCSB Energy Management Initiative (\$16,137)

UCSB Bren master's students will collaborate with campus staff to develop an Energy Management Initiative implementation plan for the Campus. The Bren master's students will develop an implementation plan for the eventual rollout of the Energy Management Initiative, which will be a user-based incentive model that will enable energy conservation within academic units at UCSB. If successful, this initiative could reduce energy use at the building level by 10-15% by incentivizing improvement in user behavior through education, outreach, and financial incentives.

Office Desk side Recycling Bins (\$17,900)

As 2020 rapidly approaches, UCSB must continue to make advancements in its waste management practices in order to meet the UC-wide goal of Zero Waste by 2020. One of the key elements of becoming a Zero Waste institution is establishing a high recycling rate on campus. The funding will be used to purchase 5,000 new recycling bins for offices throughout campus. Adding recycling bins in offices will directly increase the accessibility of recycling for many people on campus, and in turn, will increase UCSB's waste diversion rate and allow the University to meet its waste management goals.

Lithium-Battery Powered Lawnmower (\$7,487)

This grant is for the purchase of the first electric lawnmower for the Facilities Management (FM) Grounds Department. The EPA states that gas mowers are responsible for nearly 5% of our nation's total air pollution, and that over 800 million gallons of gasoline are consumed each year for lawn mowing purposes. The lithium-powered electric lawnmower would replace an existing gasoline-powered lawnmower, and, therefore, decrease UCSB's gasoline consumption and GHG emissions. As the first electric lawnmower in the department's fleet, not only will it provide direct environmental benefits, but it will also significantly encourage the department to make future environmentally-preferred purchases in a field dominated by fossil fuel powered equipment.

Student Scholarship for UCSB Student to attend CHESC (\$4,657)

This grant would provide scholarships for 12 students from UCSB to attend the California Higher Education Sustainability Conference (CHESC), June 16th-20th, 2014. CHESC is designed by and for campuses from each of the four systems of higher education in California, the California Community Colleges, the California State University, the University of California, and private and independent colleges and universities. As a result of this unique partnership, CHESC provides top quality sessions highlighting the most innovative best practices in campus-based sustainability efforts from the past year. Speakers include staff, administrators, faculty, and students from colleges and universities throughout the state, often speaking on teams representing the stakeholder collaborations which are the foundation of campus sustainability efforts.

UCSB Housing Energy Conservation Project (\$9,200)

This project will provide real-time electricity usage information and metrics on Building Dashboards within the Santa Ynez, El Dorado, and Storke 2 apartment complexes, as well as weekly reports to students living therein that detail their weekly energy consumption and associated impact. The weekly reports will also include energy-saving tips and overall average consumption patterns in the respective complexes. The project is expected to result in reduced electricity consumption and carbon footprint in UCSB student housing facilities.

PACES

MEMBERS:

Kelvin Li, Undergraduate Student; Brittany Tse, Team Manager and Undergraduate Student; Cassidy Green, LEED Program Assistant, Facilities Management; Katie Maynard, Sustainability Coordinator, Geography; Kristin Arakawa, Undergraduate Student; and Elissa McBride, Undergraduate Student.

MISSION:

Our mission is to engage and empower each person and unit on campus to engage in reducing UCSB's impact on the environment.

BACKGROUND:

PACES (the Program for the Assessment and Certification for the Environment and Sustainability) recognizes departmental leadership in campus sustainability and assists departments in identifying new opportunities where they can further reduce their impact on the environment. Departments and the staff, faculty, and students that make up those departments have a unique role in the sustainability movement. Their day-to-day choices determine whether the campus ecosystem works as it is designed to and whether sustainability policies are implemented correctly.

ACCOMPLISHMENTS:

- Initiated and completed sustainability audits for nine organizations and departments by gathering and comparing departmental policies with building occupant behavior to compile reports with suggestions on how each entity can incorporate more sustainable practices. Within these, we have completed assessments for:
 - College of Letters and Science
 - Materials Research Lab
 - Childcare Center at West Campus
 - Center for Black Studies Research
 - UCen Administration
 - UCen Dining
 - AS Isla Vista Tenants' Union
 - AS Community Affairs Board
 - AS Coastal Fund
- Partnered with Santa Barbara County Green Business Certification Program to recertify Coral Tree Café and the Courtyard Café.
- Developed a new multi-tiered rating system for assessed departments and an improved score card for the assessment process.
- Developed a closer relationship with the Associated Students Green Bill Program.

SHORT-TERM GOALS:

1. Pilot an online sustainability training module for staff
2. Develop recertification process for departments that have already undergone PACES certification
3. Continue to assist campus restaurants to recertify with the Santa Barbara County Green Business Program as necessary (UCen Central Kitchen and UCen Catering in October 2014; Dining Commons in February 2015; Arbor, Buchanan, Corner Store, and Nicoletti's in May 2015)
4. Develop certificate and standard guidance materials to present to departments upon certification

MID-TERM GOALS:

1. Expand the number of certified departments
2. Develop more web-based training materials for departmental sustainability

LONG-TERM GOALS:

1. Develop a sense of pride amongst departments in being PACES certified and instill friendly competition to achieve higher levels of certification

PARTNERS IN ENVIRONMENT (PIE)**MEMBERS:**

Zac Trafny, PIE Founder and Undergraduate Student; Ava Cheng, Undergraduate Student; and Katie Maynard, Sustainability Coordinator, Geography.

MISSION:

Partners in Environment aims to create a culture of environmental volunteerism throughout the region through building partnerships of local organizations recruiting volunteers. In collaboration with these partners, we will host events and develop resources that encourage and enable more people to volunteer in local environmental organizations.

ACCOMPLISHMENTS (2013/2014):

1. Assessed the current volunteer recruitment needs and practices of local environmental nonprofits.
2. Drafted Partners in Environment Pledge to be signed by local environmental nonprofits as a commitment to building volunteerism together.
3. Signed on 8 official partners who have pledged to collaborate to increase volunteer recruitment.
4. At Santa Barbara's Earth Day Festival, publicized our efforts and recruited volunteers to the cause.
5. Held First Annual Partners in Environment meeting to plan multiple collaborative volunteer events for 2014-2015.

SHORT-TERM GOALS:

1. Plan and host several events in 2014-2015 to increase interest in environmental volunteerism.
2. Encourage more local organizations to use a centralized volunteer posting website (for the proof of concept stage, we are encouraging local organizations to use VolunteerMatch, a free website).

MID-TERM GOALS:

- Re-evaluate whether VolunteerMatch is meeting our needs, or whether we need to pursue a tool that is adapted for Santa Barbara County.

LONG-TERM GOALS:

1. Expand the number of people in the local region that are regularly volunteering for environmental organizations.

PLASTIC SOLUTIONS

MEMBERS:

Tessa Balboni, Co-Chair and Undergraduate Student; Lauren Barnum, Co-Chair and Undergraduate Student; Emily Heber, Undergraduate Student; Carina Bilodeau, Undergraduate Student; Syndi Bakker, Undergraduate Student; Elisabeth Messner, Undergraduate Student; Leah Lippman, Undergraduate Student; Dana Cucci, Undergraduate Student; and Andrew Eddie, Undergraduate Student.

MISSION:

To ban single-use plastics altogether on our campus.

BACKGROUND:

Plastic Solutions at UC Santa Barbara is a student-led organization committed to educating students about the negative health and environmental impacts of single-use plastics. We are currently promoting the use of UC Santa Barbara Hydration Stations as an alternative to purchasing single-use plastic water bottles that end up polluting our coastlines. These stations provide filtered water to students free of charge at 31 different locations on campus. In addition to advocating the water stations, we have been involved with a campus-wide shift toward using 100% compostable products in campus eateries. In addition to this culture shift, the campus has successfully included language in their policies that promotes the reduced use of harmful materials such as Styrofoam. While we are very excited about the positive changes we've seen, we continue to work toward our goal of banning single-use plastics altogether on our campus.

ACCOMPLISHMENTS (2013-2014):

- **Plastic Paradise Movie Screening:**
In May 2014, the Community Environmental Council partnered with us to bring UCSB students and community members "Plastic Paradise: The Great Pacific Garbage Patch". This movie explained the increasingly dire role plastic is playing in our ecosystems and what we can do to stop the single-use obsession. The movie screening was a huge success, with over 60 attendees who enjoyed snacks from the Isla Vista Food Co-op, educational info from the Environmental Affairs Board and Coastal Fund, and a raffle of Klean Kanteen products after the film.
- **Earth Day Reusable Bag Giveaway:**
During the annual Isla Vista Earth Day celebration, we were able to hand out around 100 reusable bags to students and community members interested in receiving a free reusable bag. Many organizations graciously contributed reusable bags to this giveaway, including UCSB Sustainability, the Isla Vista Food Co-Op, A.S. Environmental Affairs Board, and our family/friends with bags they were willing to donate. The entire event brought in thousands of visitors that participated in an interactive quiz about plastics, recycled their single-use bottles in our handmade bottle collector (in the shape of a bottle), and enjoyed the conversations shared amidst live music and sunny skies.
- **Rebranding:**
During the 2013-14 school year, we reinvented our logo and educational visuals. With the help of various graphic design artists, we were able to develop a fresh logo for our organization that clearly communicates our mission: to reduce the consumption of single-use plastics on our campus. In addition to our new logo, our team built the bottle collector – a 5' tall, wire creation in the shape of a single-use plastic bottle, where students can recycle their own single-use bottles. We originally created this for our Earth Week events that included making single-use plastic water bottles into art, namely the giant "X" a few volunteers made from the plastic bottles we collected. One of our especially creative team members painted us a Dr. Seuss themed board that

highlights “going reusable” and breaking the single-use habit.

- **Increasing UC Santa Barbara Hydration Station Awareness on Campus:**
In the 2013-14 school year, 36 hydration stations were officially installed on campus. Plastic Solutions’ goal was to help students replace their habit of buying single-use plastic water bottles by increasing awareness of the free hydration stations on campus. We achieved this goal by working with graphic design artists on campus to create a sticker which could go on all the doors leading into buildings with a hydration station. These stickers received final approval from the head campus architect, Mr. Fisher. The water droplet shaped stickers will be installed on campus during fall of the 2014-15 school year to help guide students to hydration stations.
- **Collaborating on EPA Grant:**
Plastic Solutions collaborated with four national non-profits on developing a source reduction plan and plastic foot printing tool for our campus. These documents highlight UC Santa Barbara as a model school and will be used as a model for other campus when reducing their plastic waste, and waste in general. Plastic Solutions was given money through this partnership from a grant from the Environmental Protection Agency to use on campus towards reducing plastic waste. The money has been used to create and implement signage for the hydration stations on campus. The goal is to increase student awareness and make the stations more visible on campus so students can fill-up their reusable water bottles. Secondly the money was used for educational stickers, focused on plastic waste, to hand out to students on campus. Lastly, the money went towards projects which will provided a large portion of incoming freshman with a durable reusable water bottle in the 2014-15 school year.

SHORT-TERMS GOALS:

- Post hydration station droplet stickers
- Launch a freshman water bottle give away

MID-TERM GOALS:

- Ensure all leasers of UCen spaces are in compliance with zero waste guidelines
- Ban plastic bags at UCSB

LONG-TERM GOALS:

- Eliminate the unneeded use of plastic wherever possible on the UCSB campus

ECOalition

COUNCIL MEMBERS:

Associated Students (AS) Bike Committee, AS Coastal Fund, AS Community Affairs Board, AS Environmental Affairs Board, AS Food Bank, AS Human Rights Board, AS Recycling, AS Zero Waste Committee, Bren Environmental Justice Club, California Student Public Interest Research Group (CALPIRG), Economic Development Initiative, Educating Leaders for the Future, Food Cart Working Group, Human Rights Board, Interactive Campus Map (ICM), Isla Vista Surfrider Foundation, Isla Vista Community Relations Commission, Laboratory Resources, Advocates, and Teamwork for Sustainability (LabRATS), Plastics Solutions, PowerSave Campus Program, Program for the Assessment and Certification for the Environment and Sustainability (PACES), Refuse & Recycling Research Center (R3C), Service Learning Initiative, The Wildlife Society, UCSB Living Lab, United States Green Building Council Student Chapter (USGBC), The Green Initiative Fund (TGIF)

MISSION:

The ECOalition facilitates collaboration and resource sharing among student groups that work on environmental issues. It also serves to voice the interests of its members and to empower the coalition to speak as one collective voice on issues relevant to the membership. The ECOalition Council provides a platform for discussion of environmental issues, can offer endorsements on behalf of its ECOalition member organizations, and shares feedback between them and the UCSB administration.

ACCOMPLISHMENTS:

1. Organized Quarterly Forums of ECOalition member organizations to facilitate collaborations.
2. Launched the ECOalition Council, a representative body that can offer endorsements. By June 2014, the council had representation from over 26 organizations.
3. Formed governance structure of the ECOalition Council.
4. Have held three council meetings and voted on community, campus, and statewide issues.
5. Held Spring Forum to generate conversation around UCOP Carbon Neutrality by 2025 initiative.

SHORT-TERM GOALS:

1. Identify new ways for small organizations to engage in ECOalition.
2. Integrate an ECOalition column into the Sustainability Newsletter.

MID-TERM GOALS:

1. Inspire a culture of collaboration among UCSB student groups working on environmental issues.

GREEN CAREERS INITIATIVE**MEMBERS:**

Noelle Steele, Founder and Undergraduate Student; Colin Netal, Undergraduate Student; and Katie Maynard, Sustainability Coordinator, Geography.

MISSION:

To enable the growth of more prevailing wage-based, environmentally-oriented careers in Santa Barbara County. We seek to do this by promoting local purchasing preference policies and ordinances and supporting local organizations working in the green job/career movement.

BACKGROUND:

The Green Careers Initiative was started two years ago and inspired by inquiries from local community members about potential linkages between the campus sustainability movement and local economic justice movements. UCSB Sustainability hosted a summit in Buellton to form and launch the effort. At this summit, elected officials from throughout the county, business leaders, union representatives, environmental organizations, and educational institutions came together to share ideas and give structure to the initiative.

ACCOMPLISHMENTS:

- Completed an inventory of all local purchasing preferences in the Tri-County region and also compiled a list of stellar local purchasing preferences from around the country.
- Drafted a standard practices document for local purchasing for UCSB. This policy is still being vetted by key stakeholders on the campus.
- Developed a partnership with YStrive, a local career training program for youth. Through this partnership, we connected them with a writing program class that drafted grants for their organization. We are also exploring the option of adding a green career training element to the training program they offer.

SHORT-TERM GOALS:

1. Develop a pilot program to test a local purchasing preference for UCSB
2. Assist YStrive in getting more grants for the work that they do

MID/LONG-TERM GOALS:

1. Pass a policy or standard practice incentivizing local purchasing practices at UCSB
2. Develop a green career training module that could be used by local organizations

UCSB LIVING LAB

MEMBERS:

Emily Wood, Undergraduate Student; Karen Housel, Undergraduate Student; Austin Grego, Undergraduate Student; and Katie Maynard, Sustainability Coordinator, Geography.

MISSION:

To bring awareness of faculty research related to the campus and the community to inform policy and programs related to sustainability and to encourage interdisciplinary and interdepartmental collaboration.

BACKGROUND:

The Living Lab views UCSB through the lens of an inquirer, seeing the whole campus as a resource for teaching and learning, with dynamic parts and people. Students learn through kinesthetic, auditory, visual, and other ways, and by seeing the UCSB campus as a living laboratory, we strive to enhance that overarching learning experience. Students will have the opportunity to apply what they are learning through the traditional classroom setting to the physical environment of the campus and have an opportunity to engage with professionals in the field. The staff and faculty here embody a vast resource of knowledge, and we strive to share that knowledge while facilitating connectivity between disciplines. We want to connect operational staff with faculty because students can learn from both, and each has unique value and knowledge that should be shared.

Here at UCSB, 46% of departments and research centers have at least one faculty member doing research on sustainability. This creates the foundation to do cutting-edge interdisciplinary work.

ACCOMPLISHMENTS:

We have facilitated the publication of 25 articles that highlight faculty research, cultivated partnerships with The Bottom Line and the SB Independent, and networked between faculty and operational staff to collaborate on UC-wide projects. Living Lab was one of the co-founders of the UC Food Initiative, and assisted to bring together the new coalition.

SHORT-TERM GOALS:

1. Establish a column in The Bottom Line
2. Publish one article a quarter in the SB Independent
3. Update the website to integrate more videos of faculty and researchers
4. Launch the speakers bureau
5. Develop articles for the sustainability blog and post entries every 2 weeks
6. Achieve a Klout score of 40 for the UCSB Living Lab Twitter account
7. Expand our breadth to include undergraduate and graduate student research
8. Initiate 3 new partnerships between operational staff and faculty

MID-TERM GOALS:

1. Generate grant applications for campus living lab projects
2. Develop resources, such as guidebooks or MOU templates, to help support development of living lab projects

LONG-TERM GOALS:

1. Establish more partnerships between the campus and the surrounding community that leverage the

knowledge of UC Researchers

2. Increase awareness of campus as a resource and knowledge base

EDUCATING LEADERS FOR THE FUTURE

MEMBERS:

Britt Ortiz, Director, Early Academic Outreach Program; Katie Maynard, Sustainability Coordinator, Geography; Gloria Campos, La Cuesta Program Coordinator and Undergraduate Student ;Juan Chavez, Undergraduate Student; Alexander Jauregui, Arroyo Gardens Program Coordinator and Undergraduate Student; Jorge Mayo, Undergraduate Student; Carlos Castillo, Undergraduate Student; Stephen Huynh, Undergraduate Student; Kimberly Riley, Undergraduate Student; and Alexandra (Allie) Vent, Undergraduate Student.

MISSION:

The Educating Leaders for the Future (ELF) Program inspires youth to pursue sustainable academic and career pathways.

BACKGROUND:

Sustainability is being integrated into every sector of our economy and every major in higher education, and yet not enough programs are preparing our youth for this shift. More youth will also be inspired to go to college when they learn how their studies can be relevant to their own lives. Sustainability is a great way to highlight this link. Our focus is on youth and families who have limited access to sustainability-based or environmental education. We achieve our mission through classroom presentations in local high schools and through after school programs. We currently have partnerships with La Cuesta Continuation School and the Santa Barbara Housing Authority.

ACCOMPLISHMENTS:

- Developed three lesson plans every two weeks for the Santa Barbara Housing Authority from fall through spring.
- Served 15-25 students each week through our partnership with the Santa Barbara Housing Authority
- Developed 36 lesson plans for La Cuesta Continuation High School and presented them during three six week terms. These lessons were generally presented to 2 classes of 20 students each week. In one of the three terms, we presented to three classes.
- Facilitated guest lectures for the La Cuesta Continuation High School, featuring Dr. John Foran and his undergraduate researchers discussing Climate Justice, UCSB Graduate student researchers from the Center for Nanotechnology and Society, staff from the UCSB Early Academic Outreach Program, and community leaders that have worked directly on environmental justice issues in both the Los Angeles and Santa Barbara areas.
- Offered high quality curriculum to the La Cuesta Continuation School, helping them to achieve their recent WASC accreditation.
- Hosted two field trips to UCSB for La Cuesta Continuation School Students, including a presentation by Dr. Herb Waite's research group on biomimicry, dining commons and residence hall tours, presentations by UCSB students on college life and civic engagement, and more. Approximately 10-15 students participated in each field trip.
- Trained and mentored nine UCSB student interns as environmental educators.

SHORT-TERM GOALS:

1. Adapt current lesson plans to better fit with the new common core standards

MID-TERM GOALS:

1. Pilot a new project based lesson plan model for a six week La Cuesta school term

2. Engage high school students in the housing authority garden project

LONG-TERM GOALS:

1. Expand the program to other schools in the community where environmental education is limited.

INTERACTIVE CAMPUS MAP'S SUSTAINABILITY TEAM**MEMBERS:**

Nancy Yu, Undergraduate Student; Bryan Karaffa, Computer Network Technologist, Geography; Jeff Martin, Undergraduate Student; Sam Goldman, Undergraduate Student; Rick Zhang, Undergraduate Student; and Elissa McBride, Undergraduate Student.

MISSION:

To support the UCSB community to understand and engage with the campus in a spatially-oriented way and to uncover the many sustainability features of the campus that are hidden or simply unnoticed.

BACKGROUND:

The Interactive Campus Map (ICM) was developed by the Department of Geography technical staff, graduate, and undergraduate students for the campus. The goals of the map is to respond to common navigational needs while exposing users to additional information about campus and its sustainability programs.

ACCOMPLISHMENTS (2014-2015):

- Developed layers for campus events, such as the GIVE Sale.
- Developed campus tours, including an edible plants and medicinal plants tour.
- Launched layers to highlight sustainability innovations, including solar panels, irrigation, and green certified offices and laboratory layers.
- Expanded the points on the green building, hydration station, and waste infrastructure layers.
- Kept 42 sustainability related layers up to date.

SHORT TERM:

1. Continue to maintain existing layers.
2. Seek new partners on campus whose work could be supported through the interactive campus map.
3. Identify more hidden sustainability innovations that could be highlighted on the map.

MID TERM:

1. Encourage campus stakeholders to use the map as a teaching and exploration tool.

AS BIKE SHOP

The biggest change in the Associated Students Bike Shop this year was the retirement of shop coordinator Mike Rogers and the hiring of new coordinator Adam Jahnke. Adam's previous experience as the lead mechanic for BiCi Centro has given him an excellent perspective on the relationship between bicycle use and sustainability. As one example, Adam has already switched out the nitrile gloves the mechanics were using for reusable gloves and is using a new vendor to recycle and upcycle bicycle tubes at no cost to the university. In total, the bike shop conducted over 10,000 repairs during the 2013-2014 fiscal year, and nearly 5,000 of those were bike tube replacements, so sustainability improvements in this area have far-reaching effects.

AS DEPARTMENT OF WORMS

The Associated Students Department of Public Worms (DPW) has functioned as a sub-group of AS Recycling for several

years. This year, DPW got a new initiative approved on the annual Associated Students ballot that will create a lock-in fee of \$1.29 per student per quarter to provide the program with approximately \$53,000 in funding each year. With additional funding, the group will increase their worm composting program and expand their workshops and educational programs for students and the community. They are also hoping to develop a student farm space to explore the relationship between food waste, compost, and food production.

STAFF SUSTAINABILITY RECOGNITION AWARD

This was our second year implementing the staff sustainability recognition award. It was conferred on Hazel Ando. Hazel is a career staff member at Intercollegiate Athletics (ICA), and while the majority of her work is focused on supporting the needs of her department and our student-athletes, she has also been committed to environmental and sustainability initiatives on-campus. Hazel has brought about significant change in campus sustainability by being an instrumental stakeholder in planning and executing UCSB's first ever zero waste athletic event, Zero Waste Weekend at Harder Stadium, for both Men's and Women's Soccer games in October 2012. Outside of ICA, Hazel was also instrumental in developing and executing the Gaucho Certified Farmers Market as part of the Gaucho U program. Her efforts have helped to bring a farmers market to the campus as an additional platform for sustainability-related education and outreach.

APPENDIX

UNIVERSITY OF CALIFORNIA TASK FORCE ON REPORTING ON SOCIALLY RESPONSIBLE INVESTING (SRI)

Final Report

Task Force on Reporting on Socially Responsible Investing (SRI)

September 2014

Goals of the Task Force

1. Develop consensus to assure consistent and accurate reporting from each campus.
2. Assess best practices in socially responsible investing among peer universities.
3. Identify and make recommendations on new SRI practices that could earn UC campuses more points.

2013-2014 Socially Responsible Investment Reporting

The SRI Task Force (Task Force) met only once during FY 2013-2014, but also communicated via e-mail to assure consistency in reporting on investment-related questions for the Sustainability Tracking, Assessment, and Rating System (STARS) and for *Sierra* magazine. Please find attached to this Task Force report the consensus reporting responses developed by the task force, as well as a summary of the responses actually submitted to *Sierra* and the resulting point totals for the investment category.

While the task force coordination assured that campuses did not all report differently and thus did not all receive different scores in the investment category, as had happened in the past prior to the formation of the Task Force, UC campuses did receive two different scores in 2014. Five UC campuses received 40 points in the 2014 *Sierra* Cool Schools ranking, while the other four UC campuses received 20 points. The two different scores largely resulted from confusion stemming from the credit differences between two different versions of STARS used by campuses for their reporting this year. Campuses that submitted using STARS version 1.2 had answers to questions about publicly available investment policies show up incorrectly in the Cool Schools report. The reports from these campuses show a “yes” for having a sustainable investment policy, which UC did not have at the time, while also incorrectly showing a “no” for having negative screens, which UC does indeed have. Due to *Sierra's* weighting system, the mistake earned the version 1.2 campuses twice as many points as campuses using version 2.0 whose responses showed up correctly for those two questions. *Sierra* clearly weighted sustainable investment policies dramatically higher than policies that only had negative screens.

Identified Gaps in Current Practices

At its one meeting last year, in December 2013, the Task Force discussed three possible recommendations for the Regents and the Office of the Chief Investment Officer to adopt best practices that would earn UC campuses more points for its investment practices. These possible recommendations, with language taken directly from the STARS 2.0 Technical Manual, included the following:

1. Committee on Investor Responsibility

Create a standing, formally established committee on investor responsibility that makes recommendations to fund decision makers on socially and environmentally responsible investment opportunities across asset classes. The body would have to have multi-stakeholder representation, which means its membership would include faculty, staff, students, alumni, and Regents.

2. Sign the United Nations' Principles for Responsible Investment (UN PRI).

Engage in policy advocacy by participating in the UN PRI or other investor networks (e.g. Investor Network on Climate Risk).

3. Positive Sustainability Investments

Explore including select investments in sustainability industries.

At the time of the meeting, the representatives of the task force from the Office of the Chief Investment Officer (OCIO) advised that policy recommendations had to come from the Regents, and that they were not comfortable supporting these recommendations from the task force.

Regents' Task Force on Sustainable Investing

The new CIO, Jagdeep Baccher, has made sustainability a priority for the OCIO since he arrived in April 2014. He and his staff worked with the Regents' Task Force on Sustainable Investing to develop recommendations for a sustainable investing strategy. On September 17, the Regents voted to act at the ensuing Regents' meeting in November on the following actions:

1. Approve the establishment and implementation of a framework on sustainable investment with the goal of completion by the end of the current fiscal year.
2. Integrate environmental, social, and governance (ESG) factors as a core component of portfolio optimization and risk management. Evaluate all strategies for achieving ESG goals as soon as practical, including whether to use divestment.
3. Allocate \$1 billion over a period of five years to solutions-oriented investments such as renewable power and fuels, energy efficiency, and/or sustainable food and agriculture.

The Regents' Task Force identified becoming a signatory of the UN PRI as one of the steps for achieving action number one. If the Regents approve these three actions, UC campuses will earn nearly all points available in the investment category of STARS. The only remaining gap will be the lack of a formal, standing ESG committee with multi-stakeholder representation.

Proposal to Disband the Task Force on Reporting on SRI

In light of these developments, the Task Force on Reporting on SRI proposes that the Sustainability Steering Committee disband it—both because its goals have been achieved, and because higher level bodies with authority to recommend and implement new investment practices have taken ownership of this issue.

Members of the task force will continue to coordinate investment responses to *Sierra* and STARS as necessary, but they do not need a formal task force structure to do so.

Membership

(Note: The list below reflects the membership at the time of the final task force meeting in December 2013. Several people on the list below are no longer in the listed positions and did not receive this report.)

	Name	Title / Program	Campus
Regents	Cynthia Flores	Student Regent	Irvine
Treasurer's Office	Mel Stanton	Associate Chief Investment Officer	Office of the President
	Bill Ryan	Director of Client Relations	
Foundation CFOs	Isabella Corbin	Chief Financial Officer	Davis
	Marlene Shaver	Chief Financial Officer	San Diego
	Eric Sonquist	Chief Financial Officer	Santa Barbara
Faculty	Kelly McElhaney	Haas School of Business and Director, Center for Responsible Business	Berkeley
	Bruce Tiffney	Dean of the College of Creative Studies	Santa Barbara
Students	Ophir Bruck	California Student Sustainability Coalition	Berkeley
Sustainability Officers	Lisa McNeilly	Sustainability Director	Berkeley
	Sid England	Assistant Vice Chancellor for Environmental Stewardship and Sustainability	Davis
	Richard Demerjian	Sustainability Director	Irvine
	Jim Genes	Special Assistant to VC for Administration and Chair of Chancellor's Advisory Committee on Sustainability	Merced
	Kristin Kielich	Sustainability Program Manager	San Diego
	Mo Lovegreen	Sustainability Director	Santa Barbara
	Lacey Raak	Sustainability Director	Santa Cruz
	Matt St.Clair	Sustainability Manager	Office of the President
	Rashmi Sahai	Sustainability Specialist	

The recommendations from the Task Force on Reporting on Socially Responsible Investing (SRI) was voted on and unanimously approved at the annual UC Systemwide Sustainability Steering Committee on September 29, 2014.

TASK FORCE ON REPORTING FOR SUSTAINABILITY IN ACADEMICS**University of California
Task Force on Reporting for Sustainability in Academics****Final Report - August 2014****Goals of the Task Force**

1. Develop consensus to assure consistent and accurate reporting from each campus on sustainability in academics.
2. Assess best practices in sustainability curriculum and research among the UC campuses and peer universities.
3. Organize and facilitate sharing of best practices for sustainability in academics on a system-wide basis.

Summary FindingsReporting Guidelines

Nine UC campuses have completed inventories of sustainability curriculum and research activities, and the 10th campus, UCSF, has catalogued courses that contain a sustainability objective for each of its professional schools. Because each campus uses a different methodology for their inventory, the initial Task Force effort focused on collecting inventory data from each campus, contrasting current reporting methods, and developing system-wide guidelines to assist campuses with reporting on sustainability courses and research to *Sierra* magazine for their “Cool Schools” ranking and to AASHE for STARS ratings (Attachment A).

While we found areas of agreement, the data collection process remains somewhat subjective and varied across campuses, given the interpretative nature of defining sustainability. For example, UC Santa Barbara concluded that for a course to be included in the inventory, it must address the environmental component of sustainability, while other UC campuses tended to use a broader definition. The latest results from Sierra Magazine Cool Schools reporting demonstrate, at the very least, a consistency in reporting within campus from 2013 to 2014 (Attachment B). The Task Force concluded that more guidance from the AASHE STARS program would be helpful; for example, a list of some common courses they suggest to include or not to include in the inventory list.

Best Practices

We initiated the collection of best practices for academics and research (e.g., successful programs, sample syllabi, etc.) on our SharePoint site, although this process was not a priority for the Task Force insofar as the major focus remained on establishing reporting guidelines moving forward. Opportunely, the annual California Higher Education Sustainability Conference has created a new best practice award for sustainability in academics. The state-wide database that develops from the award will serve as one means of sharing innovative and successful sustainability efforts in academics, and we will encourage UC campuses to contribute their best ideas.

Sustainability Literacy

An additional topic discussed by the Task Force was sustainability literacy for UC students. UC Santa Barbara has developed and piloted a sustainability literacy test for students and plans to administer the test to freshman and senior classes in 2014-15. UC Riverside participated in a pilot test of the International

Sustainability Literacy Test developed through an international collaboration of faculty, administrators, and sustainability experts. Members of the Task Force were very supportive of the idea of developing a UC system-wide sustainability literacy test, and UC Riverside and UC Santa Barbara will continue to explore options for suitable tests for various campus stakeholder groups.

Conclusion

With the announcement of President Napolitano's Sustainability Initiatives on Climate, Water, and Food and the formation of academic, research, and student affairs Working Groups to compliment the Sustainability Initiatives, the Task Force has determined that it is no longer necessary to pursue an active agenda. Instead, we will incorporate our findings and data into the newly formed working groups and assist those efforts as they move forward.

Members of the Task Force will continue to monitor changes in the STARS reporting system that may have an impact on future reporting and will meet on an annual basis to address those changes and revise the guidelines accordingly.

Membership

	Name	Title / Program	Campus
Faculty/ Academic	Ann Savageau	Professor of Design	Davis
	Stephen Wheeler	Associate Professor of Environmental Design	Davis
	Cully Nordby	Academic Director, Institute of the Environment and Sustainability, Co-Chair of Task Force	Los Angeles
	Juliann Allison	Associate Professor of Political Science	Riverside
	Jane Teranes	Director, Environmental Systems Program	San Diego
	Arianne Teherani	Associate Professor, School of Medicine	San Francisco
	John Foran	Professor of Sociology	Santa Barbara
Students	Tessa Artale	Undergraduate student; Director of ASUCD Campus Center for the Environment	Davis
	Pascal Polonik	Undergraduate student	Berkeley
	Ellen Lomonico	Undergraduate student, Task Force intern	Los Angeles
	Breanne Bulahan	Undergraduate student	Merced
	Chelsea Carey	Graduate student	Merced
	Tiffany Wise-West	Graduate student	Santa Cruz
Sustainability	Lisa McNeilly	Sustainability Director	Berkeley

Officers/Staff	Camille Kirk	Assistant Director of Sustainability	Davis
	Carol Shu	Marketing, Community Outreach, and Sustainability Project Coordinator	Davis
	Abby Reyes	Director, UCI Sustainability Initiatives	Irvine
	John Cook	Director of Sustainability, Co-Chair of Task Force	Riverside
	Katie Maynard	Sustainability Coordinator, Staff to the Academic Senate Sustainability Work Group	Santa Barbara
	Shauna Casey	Sustainability Coordinator	Santa Cruz
	Matt St.Clair	Sustainability Manager	UCOP
	Rashmi Sahai	Sustainability Specialist	UCOP
	Harry Mok	Principal Editor, Marketing and Communications	UCOP

The recommendations from the Task Force on Reporting Sustainability in Academics was voted on and unanimously approved at the annual UC Systemwide Sustainability Steering Committee on September 29, 2014.

Attachments

UC Guidelines for Reporting on Sustainability in Academics

UC scores for Academics and Research in *Sierra Cool Schools* Rankings in 2013 and 2014

Attachment A

University of California Task Force on Reporting for Sustainability in Academics

Guidelines for Sustainability Reporting - August 2014

These guidelines were developed by the UC Task Force on Reporting for Sustainability in Academics in an effort to create more consistency in how the UC campuses report on sustainability academic initiatives. These guidelines are not mandatory, though each campus is highly encouraged to follow them whenever feasible in future reporting efforts. We created the guidelines to be compatible with the Sustainability Tracking, Assessment & Rating System™ 2.0 (STARS) and will endeavor to evolve the guidelines to remain consistent with that program. Our overall goal was to create a set of guidelines that are not overly burdensome, yet still produce a full picture of sustainability across the UC system.

When reporting to STARS™, each campus should include these guidelines in the notes section and indicate any areas where they significantly diverged. This information will be very valuable as we evaluate the guidelines moving forward.

Course Credits

The process of defining and identifying sustainability courses and courses that include sustainability will differ among campuses but should be based on the definitions provided in STARS. Each campus should provide the definition used to identify sustainability courses.

Specific guidelines for both the numerator (sustainability courses) and denominator (all courses):

- 1) Include all courses offered for at least 1 unit of credit. Each campus may choose to exclude courses that were canceled or had no enrollment based on the feasibility of doing so.
- 2) Include all Summer Session courses.
- 3) Include all Health Sciences courses, including medical school and clinical health science courses. Campuses may choose to exclude these areas if those facilities are outside of the submission boundary for all other credits as well.
- 4) Include all one-time Special Topics courses, and where possible, list the faculty member and topic.
- 5) Include all versions of multiple-listed (= "cross-listed" or "joint-listed") courses.
- 6) Exclude Extension courses (these are included in the Public Engagement section).
- 7) Exclude Travel Study courses offered by other institutions.
- 8) Exclude courses transferred in for credit from other institutions.
- 9) Include full department names, not abbreviations.
- 10) Include full course titles, not abbreviations.
- 11) Include course numbers.
- 12) Include brief course descriptions.
- 13) Indicate whether it is an undergraduate or a graduate course.
- 14) Use a 3-year timeframe.

Learning Outcomes Credit (if pursuing)

To be consistent with the UC campuses that have reported thus far, campuses should report learning outcomes at the Program level. Programs that specify sustainability as a learning outcome or that require a sustainability course for completion of the program may be included. If a campus is able to report at the Division level or the Institutional level, they should do so.

Research Credit

The process of defining sustainability research and identifying researchers will differ among campuses but should be based on the definition provided in STARS. Each campus should provide the definition used to identify sustainability researchers.

Specific guidelines for both the numerator (sustainability research) and denominator (all research):

- 1) Include everyone who is eligible to serve as a Principal Investigator on your campus (may include Academic Senate faculty and non-Senate faculty, such as Research Professors, Adjunct Professors, Librarians, Extension Specialists, etc.) and who is listed on an active grant or otherwise engaged in

scholarship. If feasible, campuses are encouraged to embed identifiers/tags in the internal grant application process, though PIs who do not have active grants will need to be identified by other means.

- 2) Exclude people who are not eligible to serve as a PI on your campus (e.g., Postdoctoral Scholars, Graduate Research Assistants, Research Staff, etc.).
- 3) Include PIs from all areas of Health Sciences, including medical schools and clinical health sciences. Campuses may choose to exclude these areas if those facilities are outside of the submission boundary for all other credits as well.
- 4) Include person's full first and last name.
- 5) Include full home department name; no abbreviations.
- 6) Include a brief description of the area of research (phrase, sentence, or paragraph).
- 7) Use a 3-year timeframe.

Attachment B

