December 20, 2013

To: Chancellor Henry T. Yang

Fm: Chancellor's Sustainability Committee

Re: 2012/13 Annual Sustainability Report

Dear Chancellor Yang,

As we reported last year, the Chancellor’s Campus Sustainability Committee (CSC) focused the 2012/2013 academic year on larger strategic planning goals, particularly involving a revision to the Campus Sustainability Plan (attached) and the creation of our first Water Action Plan. Both of these documents were reviewed and approved by our committee, and we are now recommending them to you for formal adoption. In addition, we added communications as an area of focus to ensure improvement of our methodologies in sharing accomplishments and goals with the broader Santa Barbara community. In 2012/2013, the CSC met ten times and had six active subcommittees:

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

There were also continuing Sustainability Change Agent Teams in the following functional areas:

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

In addition, the Academic Senate continued the Sustainability Working Group (SWG), completing their fifth year of work focusing on sustainability in academics and research, as did the student funded initiatives, The Green Initiative Fund (TGIF), The Coastal Fund, and the Renewable Energy Initiative (REI).

The CSC is charged to advise 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.

This was the first year there was a budget allocated towards sustainability at UCSB. Funding for this was provided by the Chancellor, Todd Lee, Administrative Services, and Housing & Residential Services. The CSC approved the following budget. We also formalized the Director of Campus Sustainability position, with Mo Lovegreen continuing her line of work in this capacity.
<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>DOLLAR AMOUNT</th>
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</thead>
<tbody>
<tr>
<td>ACADEMIC SUPPORT</td>
<td></td>
</tr>
<tr>
<td>1 Faculty Sustainability Champion Program</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>2 Chancellor’s Sustainability Interns</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>3 Academic Senate Sustainability Work Group staff support-Katie Maynard @ $4,504/mo x 10% time</td>
<td>$7,393.77</td>
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<tr>
<td>4 Faculty Incentive Program (tied to STARS)</td>
<td>$3,000.00</td>
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<tr>
<td>5 Director of Campus Sustainability @ 7.5% time/mo</td>
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<tr>
<td>6 Web/Computing - CNTII @ $5,705.22 x 10% time x 12 (with a 47% benefit rate)</td>
<td>$10,084.01</td>
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<tr>
<td>7 Web/Computing - CNTIII @ $5,705.22 x 10% time x 8 months (with a 47% benefit rate - reimbursement pending from 11/12)</td>
<td>$6,709.34</td>
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<td>8 South Coast Sustainability Summit staff support - Katie Maynard @ $4,504/mo x 25% time x 3 mos. (benefits @ 36.8%)</td>
<td>$4,621.10</td>
</tr>
<tr>
<td>9 Student interns for Greening Gateway</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>CONSULTANTS, MEMBERSHIPS, FEES</td>
<td></td>
</tr>
<tr>
<td>10 Third party consultant for GHG emissions (Note: paid for by SCE for 12/13 and maybe 13/14)</td>
<td></td>
</tr>
<tr>
<td>11 Association for the Advancement of Sustainability in Higher Education (AASHE) Membership <a href="http://www.aashe.org/membership/about#fieldgroup-44822-dues">http://www.aashe.org/membership/about#fieldgroup-44822-dues</a></td>
<td>$1,720.00</td>
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<tr>
<td>12 Climate Action Registry <a href="http://www.theclimateregistry.org/how-to-join/membership-options/">http://www.theclimateregistry.org/how-to-join/membership-options/</a></td>
<td>$4,000.00</td>
</tr>
<tr>
<td>13 Miscellaneous Expenses (13A LabRATS @ $11,100; 13B ICLEI Software @ $600; 13C Annual Sustainability Staff Champion Award @ $600; 13D Steve Dewart Consulting for Alt Energy @ $2,500; 13E Pilot Recycle Bins @ $1,000; 13F Demonstration Project support @ $7,000; 13G Sustainability Server @ $2,500; 13G Sustainability Server @ $2,500; Misc. @ $530.81)</td>
<td>27,130.81</td>
</tr>
<tr>
<td>COMMUNICATIONS</td>
<td></td>
</tr>
<tr>
<td>14 Communications subcommittee budget (approved by CSC in spring 2012)</td>
<td>$22,191.40</td>
</tr>
<tr>
<td>15 Communications Plan for UCOP</td>
<td>$700.00</td>
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<tr>
<td>16 Annual Transportation and Sustainability Surveys and Reports</td>
<td>$9,145.00</td>
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<tr>
<td>CONFERENCE &amp; PROJECT SUPPORT</td>
<td></td>
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<tr>
<td>17 Central Coast Sustainability Summit</td>
<td>$1,600.00</td>
</tr>
<tr>
<td>18 Maintenance for 38 hydration stations</td>
<td>$11,953.44</td>
</tr>
<tr>
<td>18a Balance of funding required for the Lagoon Roadway lighting retrofit demonstration project</td>
<td>$3,246.56</td>
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<tr>
<td>TRAVEL</td>
<td></td>
</tr>
<tr>
<td>19 UCOP Steering Committee Meetings (2 trips)</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>20 CHESC (4 attendees)</td>
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<tr>
<td>21 Matt StClair annual visit to UCSB</td>
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<td>22 AASHE Conference (2 attendees)</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>$176,000.00</td>
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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 2012/13 have been completed and include:

- A mode split survey for transportation that captured commuting methods of faculty, staff, and students, including annual vehicle ridership (AVR). This is now required by OP, and it is also vital in calculating campus GHG emissions.
- A departmental sustainability survey of academic, administrative, and organized research units to ascertain their norms for purchasing, energy use, etc. for use in our Green Office program.
- A sustainability 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

1. UC Santa Barbara won the 2013 Best Practice Award in the category of Water Efficiency and Site Water Quality for its innovative Water Action Plan. The Water Action Plan evaluates water use and provides strategies for reducing water consumption. It provides holistic insights and solutions for various types of water: potable, non-potable, reclaimed, wastewater, stormwater, and gray water. UCSB staff collaborated with students from the Bren School of Environmental Science & Management to produce the plan, which doubled as the students’ master’s thesis. They collected and analyzed water
data to help shape recommendations, giving them the opportunity to implement their academic experiences in the field. The Water Action Plan also recommends incorporating an understanding of watersheds into the academic curriculum and educational outreach campaigns to the campus community.

2. UC Santa Barbara received an award from the California Central Coast chapter of U.S. Green Building Council (USGBC) in the category of Resource Efficiency for construction waste minimization and a 90% waste diversion rate in the creation of the North Campus Faculty Housing Phase I.

3. The University of California’s Center for Environmental Implications of Nanotechnology (CEIN) was awarded the California Governor’s Environmental and Economic Leadership Award (GEELA) in the field of Green Chemistry. The UC CEIN earned the award for their nanotechnology environmental health and safety efforts. Since its inception in 2008, the UC CEIN has become a world-class research facility focused on the responsible use and safe implementation of nanotechnology in the environment. UC CEIN is widely respected globally for implementation of novel approaches to assess nanomaterial properties that determine hazard, environmental exposure, and impact on marine and terrestrial ecosystems. These efforts have helped create a paradigm shift for investigating nanomaterial hazard and risk at a scale commensurate with the rate of new nanomaterial development.

4. UC Santa Barbara received two awards during the February 2013 Green Business Program Luncheon hosted by Santa Barbara County’s Green Business Program. The Southern California Gas Company awarded UCSB with the Energy Smart Award for UCSB’s commitment to energy efficiency, as well as a Certificate of Participation for UCSB’s participation in its energy efficiency programs. In 2011, UCSB’s participation in Southern California Gas Company’s energy efficiency programs saved an estimated 55,326 therms of gas and reduced greenhouse gas emissions by 647,314 pounds.

5. An interdisciplinary team of UC Santa Barbara undergraduate, graduate, and doctoral students took a top prize at the 2013 Better Building Case Competition, an annual U.S. Department of Energy (DOE) contest meant to engage college students in the hunt for creative energy efficiency solutions. The UCSB group received the “Most Innovative” award for its strategic proposal to help Montgomery County, PA, complete a renovation that achieves significant energy savings in a publicly owned, multi-tenant office building.

6. 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.

7. The Santa Barbara County Air Pollution District, the Santa Barbara County Association of Governments, and Southern California Edison recognized the City of Santa Barbara as a Champion Plug-in Electric Vehicle (PEV) City. The City of Santa Barbara was honored for actively participating and supporting Regional Public Infrastructure Planning with Plug in Central Coast. The partnership includes the University of California Santa Barbara, the Community Environmental Council, the Santa Barbara County Air Pollution Control District, the Central Coast Clean Cities Coalition, and the Santa Barbara County Association of Governments, the PEV Collaborative, and the California Center for Sustainable Energy, among others.

8. In August 2013, UCSB was rated No. 10 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.

9. Goleta Valley Beautiful Awards Committee awarded the 2013 Heritage Tree designation to the UCSB Coast Live Oak next to the Recreation Center.
CERTIFICATIONS

1. UCSB received an additional six Santa Barbara County Green Business Certifications for on-campus eateries (Residential Dining Services’ Catering and Concessions, as well as the University Center’s Courtyard Café, Nicoletti’s, root 217, and Romaine’s). Now the UCen’s ten facilities and all of the Residential Dining Services’ six facilities are Green Business certified.

2. UCSB also received a Santa Barbara County Green Business Certification for its Transportation and Parking Services (TPS) automotive shop on campus. TPS is the first and only automotive shop that has gone through the Santa Barbara County Green Business Certification at this time.

3. Santa Rosa Residence Hall was awarded a LEED Gold Certification by the US Green Building Council, following a significant effort to upgrade the building. Santa Rosa was originally built in 1954 and is the oldest LEED certified building at UCSB. UCSB now boasts 44 LEED certifications on campus.

COMMUNITY ENGAGEMENT

**UCSB Sustainability hosted the following key events:**

- The 2nd Annual Central Coast Sustainability Summit took place at UCSB in fall 2012 –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. In our first annual summit, we were successful in sharing ideas and building foundations for future partnerships. The 2nd Annual event became a launching point for new, multi-jurisdictional, year-round initiatives. We are currently in the process of planning our 3rd annual summit, which will take place on October 23rd, 2013. Our focus topics for this year include renewable energy, volunteer management, product stewardship, and economic development.

- UCSB hosted the California Higher Education Sustainability 2013 Conference (CHESC). CHESC is designed by and for campuses from each of the four systems of higher education in California.

**Partnerships formed:**

- The **Multi-jurisdictional Renewable Energy Taskforce** emerged out of the 2nd Annual Central Coast Sustainability Summit, hosted by UCSB in October 2012, as a way for representatives from different agencies throughout the region to come together and work on renewable energy projects that would benefit Santa Barbara County. With the coordination of multi-jurisdictional partners, the taskforce has the ability to leverage a vast amount of knowledge and help renewable energy projects gain momentum and acceptance. A number of projects were brainstormed during the 2nd annual summit, and the taskforce provides a vehicle for representatives to continue meeting and to further explore and develop the project ideas between summits.

The taskforce allows UCSB to coordinate with other stakeholders in the region on renewable energy projects. Increasing the renewable energy sector in Santa Barbara County has the potential to create jobs, grow the local economy, reduce greenhouse gas emissions, and lower our dependency on fossil fuels such as oil, coal, and natural gas. This effort is an important step toward strengthening the
region’s commitment to environmental sustainability and increasing the deployment of renewable energy.

The taskforce has had two meetings so far, with a total of 19 different institutions from Santa Barbara County represented, including six cities. Together, the taskforce members have chosen to focus on community choice aggregation (CCA) and joint purchasing for renewable energy projects as potential initiatives on which they can collaborate for the benefit of Santa Barbara County.

- **Partners in Environment** is a collaboration to support volunteerism which will benefit Santa Barbara County for years to come. It looks to create a coalition of local volunteer organizations and a centralized volunteer database designed to facilitate and organize the recruitment, training, utilization, and recognition of volunteers.

  During the fall 2012 Central Coast Sustainability Summit (CCSS), Santa Barbara Partners in Education, which serves hundreds of schools and nonprofits by recruiting, screening, training, placing, and evaluating volunteers, gave a brief presentation of their volunteer management model. During this presentation, they posed an interesting question: why is there nothing like this to organize the many environmental organizations in the community? SBCEO’s model is incredibly successful and has placed over 5,000 volunteers into 60,000 hours of service.

  That question sparked UCSB’s facilitation of a workshop to collaborate with local organizations who are interested in participating in the coalition. At the workshop, Santa Barbara Partners in Education gave a thorough presentation of their model, and from there, local organization members generated many ideas regarding what the coalition would accomplish, the benefits it would bring, and the work that must go into creating it. A group dedicated to working through these suggestions, researching possible services to include, and deciding which volunteer management program to use is currently deliberating the logistics of the coalition. Rooted in collaboration and community involvement, Partners in Environment has grown from a simple question to a fledgling program, with a goal of a soft launch by the end of 2013.

- **Product Stewardship Initiative** - During the 2012 Summit, the Executive Director of the California Product Stewardship Council, Heidi Sanborn, shared the importance of connecting purchasing policies with waste management policies and establishing shared responsibility throughout the life of a product. This presentation sparked the idea to create a Product Stewardship Initiative for Santa Barbara County that was proposed to happen as part of the Santa Barbara County Local Solid Waste Taskforce.

  At the May 2013 Santa Barbara County Local Solid Waste Taskforce (LTF) meeting, the members agreed to have Product Stewardship as a regular part of each meeting’s agenda. The decision on whether or not to establish a subcommittee was deferred until a later meeting. A copy of a sample producer responsibility resolution was distributed to the members for their review and consideration. At the next LTF meeting, which will occur in October, the jurisdictions will present their decision regarding whether or not they will have their governing bodies pass such a resolution.

- **The Green Career Summit** was held on May 29, 2013 at the Santa Ynez Valley Marriott in Buellton. The event, hosted by the University of California, Santa Barbara’s Sustainability Program, highlighted best practices in creating new, well-paying, and lasting careers and providing top-quality training to support the people of our communities in obtaining those careers.

  Six cities from Santa Barbara County were represented: Santa Maria, Buellton, Lompoc, Goleta, Santa Barbara, and Carpinteria. The Santa Ynez Band of Chumash Indians was also represented. Three higher education institutions attended: Santa Barbara City College, Allan Hancock College, and UCSB.
Extension. The Santa Maria Valley Chamber of Commerce, five local business leaders, three unions, and seven local nonprofits also attended.

Many ideas were discussed; however, the two topics that created the most excitement in the discussions of the day included expanding environmentally-focused career and technical education to youth and supporting local businesses through a project aimed at encouraging large institutions and government agencies to purchase local products and services.

Over the summer, UCSB Sustainability reached out to community leaders to expand our knowledge of the many programs already offered in the areas noted. Michael Lopez, Training Coordinator/Organizer of the Local 114 Plumbers/Pipefitters, hosted a tour of their training facility on July 22nd, 2013 from 9:00am-11:00am at 93 Thomas Road, Buellton.

During the week of August 12th-16th, 2013, a planning meeting was held in North County for the local purchasing initiative. On October 23, UCSB Sustainability will host the Third Annual Central Coast Sustainability Summit on the UCSB campus. At this summit, we hope to highlight additional case studies that relate to youth career technical education, local purchasing programs, and outcomes of the August meeting. During the week of November 18th-22nd, we will host a planning meeting in North County on youth career technical education.

- 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.

**ACADEMIC SENATE SUSTAINABILITY WORK GROUP**

**MEMBERS:**
Peter Alagona (Assistant Professor, History and Environmental Studies)
Lisa Berry (Instructional Development)
David Carr (Associate Professor, Geography)
David Cleveland (Professor, Environmental Studies, 2009-2010 Sustainability Champion)
John Foran (Professor, Sociology)
Bruce Kendall (Associate Professor, Bren School of Environmental Science & Management)
Deborah Karoff (Academic Senate)
Lee Anne Kryder (Continuing Lecturer, Writing Program, Chair of Campus Sustainable Communications Committee)
Ann–Elise LeWallen (Professor, East Asian Languages and Cultural Studies)
Mo Lovegreen (UCSB Sustainability)
Eric Matthys (Professor, Mechanical Engineering, 2010-2011 Sustainability Champion)
Katie Maynard (UCSB Sustainability)
Dar Roberts (Professor and Chair, Geography)
Josh Schimel (Chair, Environmental Studies, Professor, Ecology, Evolution & Marine Biology)
Sussannah Scott (Professor, Chemical Engineering)
Eric Smith (Professor and Chair, Political Science)
Bruce H Tifffney, Chair (Dean, College of Creative Studies, Professor, Earth)
George Michaels (Instructional Development)

**MISSION**
UCSB is committed to the creation, dissemination, and assessment of knowledge on sustainable practices through classroom instruction, research, service learning, and visual and performing arts.
BACKGROUND
UCSB is highly respected for its scholarly pursuits regarding the environment and sustainability. In the 2011-2012 academic year, 47% of academic departments on the Santa Barbara campus offered at least one course focused on sustainability, and 45% of departments had at least one faculty member who conducts research on sustainability. Furthermore, many of our research institutes, such as the Marine Science Institute, the Earth Research Institute, and the Carsey-Wolf Center, focus on technological and social solutions related to the stewardship and protection of our planet and its resources. Many of UCSB’s accomplishments reflect the actions of a variety of campus entities. The Academic Senate Sustainability Work Group strives to coordinate and publicize these achievements and to develop goals for the short and long term.

ACCOMPLISHMENTS
- Offered financial incentives to student researchers and faculty to address sustainability in research through fellowships and matching funds.
- UCSB Early Academic Outreach Program and Sustainability launched a program to train at risk high school students in sustainability and to expose them to green academic and career pathways. The program partners with La Cuesta Continuation School and the Santa Barbara Housing Authority. At any given time during the school terms, there are approximately 70 local youth enrolled.
- Launched “Figuring Sea Level Rise,” a widely collaborative project, engaging faculty from a wide range of departments. We explored how sea level rise is perceived, projected, and processed through workshops, seminars, a multi-media website, film screenings, and a conference. The unifying “environmental media” approach considered how research on the rising oceans is conducted through sophisticated measuring and modeling techniques and represented through various types of media.

SHORT-TERM GOALS (JUNE 2012 – 2014)
1. Launch PhD emphasis in environment/sustainability.
2. Secure $10k/yr from donor sources for the Sustainability Champion.
3. Secure $6k /yr for the Chancellor’s Sustainability Internship Program.
4. Develop a UCSB speakers’ bureau with faculty experts in sustainability and the environment.
5. Launch a sustainable commons video project, which will collect and disseminate videos of faculty to be infused into courses as supporting media/course modules.
6. Assess all co-curricular activities related to sustainability.
7. Coordinate UCSB faculty recruitment efforts on the environment and sustainability.
8. Develop a UCSB special subjects general education (GE) requirement in environment/sustainability.
9. Develop an eco-literacy assessment program to determine the effectiveness of the GE program.
10. Further develop interdisciplinary research collaborations on sustainability and climate change.
11. Identify and flag courses on sustainability and climate change in the course catalog.
12. Set aside funding to encourage development of courses related to climate change, especially in departments that do not typically address this issue.
13. Expand the New Leaf Grant Program, which infuses environment/sustainability into courses, to $10k.
14. Develop a Climate Change Student Peer Educators Program.
15. Develop a Sustainability Fellowship Program.
16. Promote a “learn at lunch” or seminar program to bring together researchers from diverse disciplines that work on sustainability and the environment.
17. Endow the Sustainability Champion and chancellor’s Sustainability Internship Program.
18. Develop a program to regularly offer work-study internships in sustainability.
19. Regularly engage in statewide and national sustainability associations.
20. Identify ways to use UCSB as a living laboratory and develop a plan to implement these strategies.
CSC SUBCOMMITTEES

ALTERNATIVE ENERGY SUBCOMMITTEE
Members:
Ron Cortez, Chair (Administrative Services)
David Auston (Institute for Energy Efficiency)
Marc Fisher (Administrative Services)
Isabelle Geczy (EAB)
Kate Kokosinski (UCSB Sustainability)
George Levinthal (Design & Construction Services)
Mo Lovegreen (UCSB Sustainability)
David McHale (Utility and Energy Services)
Mel Manalis (Environmental Studies)
Eric Matthys (Engineering)
Quyen Nguyen (Chemistry)
Andrew Riley (Student Affairs)
Jordan Sager (Utility & Energy Services)
Bob Wilkinson (Bren School of Environmental Science and Management)

ACCOMPLISHMENTS
- In 2012, we surpassed our 2014 GHG reduction target by eight percent, reducing GHG emissions to 1993 levels on an absolute basis.
- SEP highlights - $6.5M invested in energy projects for current cycle (2013-2014):
  - Projected 5% absolute reduction in electricity usage achieved by current Program cycle energy projects
  - Projected 3.5% absolute reduction in natural gas usage achieved by current Program cycle energy projects
- Achieved an average of 1.8% reduction in total campus average energy use intensity (kBtu/sq ft/yr) over the past 10 years
- Released new UCSB Energy website in May 2013 (http://energy.ucsb.edu) which includes the Gauroo Power Monitor real-time energy use tool
- Installed 200 kilowatt fuel cell demonstration project in partnership with Southern California Edison

Short-Term Goals (To be accomplished by 6/14):
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).
5. Continue working with the Multi-jurisdictional Renewable Energy Taskforce to identify opportunities for regional partnerships on renewable energy projects.

BUILT ENVIRONMENT SUBCOMMITTEE
MEMBERS:
Barry Colwell (Coordinator of Resource Planning & Special Projects)
Chuck Haines (Director, Capital Development)
Marc Fisher, Co-Chair (Senior Associate Vice Chancellor, Administrative Services)
Mo Lovegreen (UCSB Sustainability)
Igor Mezic (Professor of Mechanical Engineering)
Andrew Riley (Student Affairs)
Jordan Sager, Co-Chair (Utility & Energy Services)
Dennis Whelan (Associate Campus Architect, Facilities Management)
Jack Wolever (Direct, Design & Construction Services)

MISSION
The charge of this group is to create superior places to study, work, and live that enhance the health and performance of occupants through sustainable design, construction, operations, retrofits, and biomimicry and 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.

ACCOMPLISHMENTS
- Achieved LEED Gold certification for the Santa Rosa Life Safety & Renewal project.

SHORT-TERM GOALS (For 2013/14)
1. Add renovation policies to the Campus’ Green Building Practice.
2. Have a qualified sustainability representative on each campus committee participating in building design/construction, including the Chancellor’s Campus Sustainability Committee and the Department buildings committees.
3. Review and assess updated state building codes and recommend changes to the UCSB Green Building Practices, as well as to the system-wide policy.

COMMUNICATIONS SUBCOMMITTEE
MEMBERS:
Keri Bradford (Student Affairs)
Charles Champlin (Admissions)
Kyle Fischler (EAB)
George Foulsham (Office of Public Affairs)
LeeAnne French (The Carsey Wolf Center)
Kate Kokosinski, Chair (UCSB Sustainability)
LeeAnne Kryder (Writing Program)
Kristen LaBonte (Library)
Mo Lovegreen (UCSB Sustainability)
Katie Maynard (UCSB Sustainability)
Britt Ortiz (Early Academic Outreach)
Margaret Rankin (Library)
Andrew Riley (Student Affairs)
Sarah Siedschlag (AS Recycling)

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.

ACCOMPLISHMENTS
- Created a Public Relations Campaign for 2012-13. The on-campus image campaign included DigiKnows (rotating slides displayed on digital screens in Residence Halls and Dining Commons), newsletters, and posters. The public portion of the campaign was launched in winter 2013 with 15-second videos shown in all local movie theaters, signage on four MTD hybrid buses, a blog on the sustainability website, and articles in the campus publication, The Bottom Line.
• 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.

<table>
<thead>
<tr>
<th>Campaign Item</th>
<th>Total # Impressions</th>
<th>Cost/1,000 Impressions</th>
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</thead>
<tbody>
<tr>
<td>Bus Ads</td>
<td>174,965</td>
<td>$19.02</td>
</tr>
<tr>
<td>Movie Trailers</td>
<td>282,234</td>
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</tr>
<tr>
<td>Digiknows</td>
<td>1,047,386</td>
<td>$0.29</td>
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</tbody>
</table>

• Created a set of posters in winter 2013 for the green message boards around campus, primarily geared towards increasing student education about sustainability on campus and our goals for the future.
• The Subcommittee created and printed 2,000 sustainability brochures in spring 2013, highlighting information about UCSB Sustainability's achievements and sustainability-related research in the topic areas of built environment, climate, food, waste, and water. The brochures were distributed at CHESC in June.
• The Subcommittee participated in various local events, including Earth Day and Spring Insight. The Subcommittee is also delivering presentations about sustainability on campus and ways for new students to get involved to UCSB freshman orientation groups twice per week throughout summer 2013.
• UCSB Sustainability will have a program in the Freshman Summer Start Program (FSSP) that focuses on sustainability internship opportunities for students. This will be a one hour workshop given to students enrolled in FSSP. FSSP is an academic and social summer program for newly admitted freshmen.
• Identified and added sustainability layers (Hydration Stations, TGIF projects, recycling and composting locations, and energy use statistics per building) to the Interactive Campus Map (ICM).

SHORT-TERM GOALS (To be accomplished by 6/14)

1. Modify and develop the Public Relations Campaign by advertising on the UCSB Vanpools. The 2012/13 campaign was developed around water, waste, and climate. The 2013/14 plan will also include research, food, and built environment.
2. Increase the amount of movie trailers being shown in local theaters to 3 per academic year.
3. Change the timing of public advertisements so they are more balanced throughout the year (fall, winter, and spring).
4. Continue development of sustainability layers in the ICM and create mobile applications.
5. Develop a rotating set of posters for the green boards and for the BigBell units.
6. Continue tracking website traffic and analytics to determine trends that emerge as a result of the Sustainability Public Relations Campaign. This will create a 2012/13 academic year baseline for comparison with future campaigns.
7. Continue collecting data for impressions of the public relations campaign.

FOOD SUBCOMMITTEE
MEMBERS:
Bonnie Crouse, Co-Chair (H&RS Dining Services)
Steffen Gauglitz (Ph.D. candidate)
Sue Hawkins Co-Chair (UCen)
Jaime Hererra (Executive Chef, Dining Services)
Danielle Kemp (Dining Services Dietitian)
Kate Kokosinski (UCSB Sustainability)
Mo Lovegreen (UCSB Sustainability)
MISSION
To provide sustainable and healthy food options for the campus community, while maintaining financial sustainability for the university.

Note: food is split into two functional areas, H&RS Dining Services, and the University Center.

ACCOMPLISHMENTS (H&RS Dining Services)
- Created seasonal menu offering
- Provided 24% organic and sustainable/local produce
- Provided 100% sustainable seafood – Seafood Watch standard
- Converted to using disposables that are compostable
- Composted all food waste and disposables
- Recycled all paper, cardboard, tin, glass, plastic, and cooking oil.
- Installed compacters at all dining commons
- Provided education for students through Sustainability Week, Nutrition Week, Earth Day, and Sustainable Fish Day
- Cooked meals from scratch with fresh ingredients and ‘just in time,’ ‘made-to-order’ foods to reduce waste
- Donated leftover food products to local food banks during shutdowns

SHORT TERM GOALS (H&RS Dining Services)
1. Offer and serve sustainable Tuna
2. Research feasibility of campus garden(s) and the potential to use the produce in dining commons.
3. Have Concessions provide 75% compostable disposables
4. Have Concessions provide reusable cups at Thunderdome Stadium
5. Participate in Zero Waste events with the campus sustainability initiative
6. Reduce Food Waste by 7-10%
7. Have all career staff receive education in Dining Sustainable Practices
8. Continue to Partner with EPA
9. Research new products that will help us reach our zero waste initiative goals by 2020
10. Switch out Take Out program containers for compostable ones
11. Reinstate the Community Food Working Group

ACCOMPLISHMENTS (the University Center)
- Achieved 22% sustainable purchases in 2013.
- Began conversion to compostable packaging
- Achieved Santa Barbara Green Business Certification for all 9 of the UCen’s dining or kitchen units
- Continued collaboration with Facilities on the Grounds to Grounds program, diverting 90% of our coffee grounds to the campus landscape.
- Composted 380 tons of food, packaging, and coffee grounds
- Recycled 420 tons of trash from the UCen

SHORT-TERM GOALS (The University Center)
1. We have achieved 99% elimination of Styrofoam and plastic for customer use. The Coral Tree Café is currently using the last of its paper, Styrofoam, and plastic inventory. Complete Styrofoam elimination should be accomplished by December 2013.
2. Increase usage of Green cleaning products.
3. Added Sustainability language to Panda Express contract. All customer products will be compostable by September 2013. New vendors in the Courtyard Café space will also be providing all compostable service ware for customers.
TRANSPORTATION SUBCOMMITTEE
MEMBERS:
Ron Cortez (Administrative Services)
Kristen Deshler (Government Relations)
Paolo Gardinali (Survey Center)
Steffen Gauglitz (Graduate Student)
Roland Geyer Co-Chair (Faculty, Bren School)
Bernard Kirtman (Chemistry & Biochemistry)
Mo Lovegreen (Geography), Joel Michaelsen (Geography)
Arjun Sarkar (Transportation & Parking Services)
Robert Silsbee, Co-Chair (Transportation & Parking Services)
Bruce Tiffney (College of Creative Studies/Earth Science)
James Wagner (Transportation Alternative Program)

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

ACCOMPLISHMENTS
- Expansion of Clean Cities C5 to the Ventura County line
- Installed twelve level 2 car charging stations
- Formalized an alternative fuels and ultra-efficient vehicle purchasing policy

ALTERNATIVE FUEL
The Campus owns:
- 329 vehicles, of which 31% are alternatively fueled
- 16 CNG vehicles, lowering dependency on foreign oil and reducing air pollution
- 44 low-speed electric vehicles
- 16 Hybrid vehicles (Toyota Prius: 11; Chevrolet Malibu, 3; Ford Escape: 2)

CURRENT MODE SPLIT
- The 2012 campus survey of UC Santa Barbara’s transportation resulted in the following breakdown:
  - Staff/faculty: On average, 52% use single occupant vehicles; 17% used a carpool; 6% bus; 9% a bike; 1% used a motorcycle; 1% walk; 13% don’t commute
  - Student: On average, 7% use a single occupant vehicle; 3% carpool; 7% bus; 50% bike; 16% walk; 8% other/skateboard; 9% don’t commute

SHORT-TERM GOALS (To be accomplished in 13/14)
1. Develop a protocol for flexible schedules that permit telecommuting
2. Install charging station(s) on campus for electric vehicles
3. Develop a calculator for parking permit holders to estimate the carbon offset that their monthly commute would generate
4. Partner with the MTD to develop a Natural Gas fueling station
5. Include minimum mandatory bicycle parking access in all capital improvement projects to improve bike network and encourage added bike riders
6. Establish and track the effects of teleconferencing for campus use
7. Expansion of Clean Cities. Arjun Sarkar is the current Secretary of the Central Coast Clean Cities Coalition board. C-5 is currently under the umbrella of Project Clean Air out of the San Joaquin Valley and is considering forming a new nonprofit under the C-5 banner.
8. Install and upgrade CNG fueling station on campus
9. Continue working on alternative fuel infrastructure on campus
10. Work on securing grant funding and other funding strategies that will encourage departments to utilize Alternative Fuel Vehicles.
11. Analyze the effectiveness of the Alternative Fuel purchasing policy and make recommendations for systems changes.
12. Develop level 1 charging infrastructure.
13. Craft and adopt an anti-idling policy for the campus fleet.

WATER SUBCOMMITTEE
MEMBERS:
Stacey Callaway (EH&S)
Katie Cole (Graduate Student)
Rebecca Dorsey (Graduate Student)
Amorette Getty (MRL/FM)
Dane Johnson (Graduate Student)
Mo Lovegreen, Chair (UCSB Sustainability)
Dan Marquez (PF), David McHale (PF)
Lakshmanan Nataraj (Graduate Student)
Matthew O’Carroll, (Graduate Student)
Chris Rich (Goleta Water District)
Mark Rousseau (H&RS)
Jordan Sager (PF)
Briana Seapy (Graduate Student)
Jewel Snively (Graduate Student)

MISSION
To minimize potable water use on campus while striving to collect as much water as possible from within the campus footprint for first use, re-processing, and reuse; to treat storm water onsite to ensure it exits the site unpolluted; and to have seawater used on campus re-enter the marine environment in a non-invasive state.

ACCOMPLISHMENTS
- Installed .5gpm aerators in 13% of the campus restrooms
- Installed dual flush valves in 20% of the campus restrooms
- Converted to Waterless urinals in 35% of the campus restrooms
- Extended the reclaimed irrigation system to 90% of the campus
- Extended the weather controlled irrigation system to 85% of the campus
- Gathered and assessed missing data for three water types: potable, reclaimed, and stormwater
- Received funding from TGIF and the Coastal Fund to install 37 hydration stations across campus
- H&RS installed hydration stations in each of the residence halls
- Updated campus GIS maps for potable and reclaimed water
- Reduced potable water use by 25%
- Audited restrooms and completed fixture counts and water flow rates
- Created the first comprehensive Water Action Plan in the UC System

SHORT TERM GOALS (To be accomplished by 6/14)
1. Retrofit restroom fixtures to efficiency standard according to the industry standard
2. Build restroom fixture database
3. Explore hiring a plumber to focus on preventative maintenance of plumbing infrastructure and water conservation measures
4. Increase cycles of concentration in cooling towers
5. Commence soil sampling to determine constituent build-up in UCSB’s soils
SUSTAINABILITY CHANGE AGENT TEAMS

LABS, SHOPS, & STUDIOS
MEMBERS:
Amorette Getty (Co-chair), Katie Maynard (Co-Chair), Eric Danner (Graduate Student Researcher)

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

ACCOMPLISHMENTS
- Secured stakeholder approval and launched a new laboratory recycling program in collaboration with Environmental Health & Safety, MarBorg, LabRATS, Custodial Services, and more than 15 lab and building managers.
- In partnership with other campuses, increased growth of activity on the GreenLabsPlanning group with 126 total members, representing universities globally.
- Started an operating Surplus Chemical Program. As of spring 2013, this program was able to divert 370 bottles of chemicals from waste to laboratory use.
- Re-launched the Environmental Assessment Program hosted by LabRATS, as LabSYNC, with four new levels of certification, and added more options and resources for implementing new changes throughout and after the assessment.
- Hosted a demonstration of a motion-activated fume hood sash closing system. Attendees included campus stakeholders in Facilities Management, as well as researchers, lab managers, and building managers from 5 science/engineering departments and the College of Letters and Sciences.
- Presented for numerous conferences and webinars. Recent presentations include: Labs21 Conference in Oct 2011 ("Eliminating the Vicious Cycle of Uneducated Occupants") and a special waste webinar, “Special Concerns in Recycling – Lab & Hospital Waste”
- Replaced a boiler in the Marine BioTech building, following a LabRATS assessment of the Waite lab.
- Organized a 1.5-day national lab management workshop in concert with the National Science Foundation, including more than 30 institutions.
- Developed a course module which introduces young and future researchers to how laboratory buildings work. The module has been presented to Physics, Mechanical Engineering, Materials, Electrical Engineering, and Writing Program classes.
- Eliminated the majority of mercury thermometers on the campus. Now there are less than five labs that use mercury thermometers in some situations.
- Have been regularly featured in case studies on laboratory sustainability and noted by other researchers; examples include an article on surplus chemical programs in the Journal of Chemical Health and Safety, and an Article in the Scientist Magazine
- Published a paper in collaboration with The Department of Energy, Lawrence Berkeley National Laboratory, and Davis on fume hood sash closure stickers: “Fume Hood Sash Stickers Increases Laboratory Safety and Efficiency at Minimal Cost: Success at two University of California Campuses”
- Launched a national best practice/case study website

SHORT-TERM GOALS
1. Influence the design of Henley Hall through participation on the building committee.
2. Identify a way to recycle, reuse, or eliminate at least two laboratory-specific waste streams that we are not currently recycling.
3. Develop initiatives to better address shops and studios in the work of the Labs, Shops, and Studios change agent team.
4. Develop a course module in partnership with Art Studio faculty on designing for deconstruction and recycling to be offered in three dimensional design courses.
5. Offer a workshop or seminar on good laboratory management practices.
6. Maintain a regularly updated website that other campuses can use as a resource.
7. Establish a venue where researchers come together to regularly communicate - a “Lab Manager’s Tea Team.”
8. Develop guidelines for standard laboratory practices.
9. Pilot a composting program for laboratory-specific compost such as kelp and animal bedding.
10. Launch a program to support the sharing of laboratory equipment.
11. Host an event regarding sustainability efforts in student health facilities and clinics

**LANDSCAPE/BIOTIC ENVIRONMENT TEAM**

**MEMBERS:**
Lisa Stratton (Co-chair), Bruce Tiffney (Co-Chair), Rachel Alford (Campus Flora Project Manager), Tom Beland (Director Residential Operations), Stacey Callaway (Environmental Compliance Specialist), Jon Cook (Associate Director, Grounds Maintenance), Dan Heedy, Manuel Herrera (Superintendent, Grounds Maintenance), Mo Lovegreen (UCSB 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.

**ACCOMPLISHMENTS**
- Continued to enhance native species on the campus periphery through ecological restoration.
- Continued to enhance wildlife habitat for native species on the campus periphery
- Completed monthly water audits on Storke field to ensure the 164 heads were operating efficiently.
- Continued on-going composting program for all campus clippings, shredded trees, etc., returning nutrients to the soil.
- Added stronger sandbags to ensure better water quality by eliminating the possibility of sand in runoff.
- Upgraded our two weather stations): The Rainmaster weather station irrigation system continuously collects rainfall, humidity, wind, and temperature data, altering the irrigation and modifying the amount of water pumped. Currently, we have 60% of turf area controlled by weather stations.
- Installed 7 interpretive signs covering topics related to stormwater management and sustainable landscapes, wildlife, and the labyrinth.
- The Campus accepted the donation of Ocean Meadows for future restoration
- A stairway utilizing recycled plastic was installed at Campus point to protect eroding surfaces and support healthy walking around campus.
- Implemented several restoration projects around the lagoon and west campus bluffs that included the removal of invasive non-native plants such as iceplant and annual Mediterranean grasses. Converted one irrigated park by lot 5 to a native self-sustaining landscape.
- Brought in about $330,000 in grant funding for the above mentioned projects from the Wetland Recovery Project, the UCSB Coastal Fund, the Coastal Conservancy, and the Goleta Valley Land trust.
- Gave talks at a sustainability conference on stormwater management and the Society for Ecological Restoration and led multiple tours for conferences and campus programs (new students, staff week, UCSB classes, spring celebration, parents weekend, and underserved student groups). We also run the Kids in Nature program, using some of the sustainable and restored landscapes on campus for under-served 5th graders throughout the year.
- Started a GPS tree inventory of all UCSB properties (Housing and Facilities partnership).
- Partnered with CCBER in native planting and construction of viewing area next to lot 5.
- Ongoing conversion from overhead irrigation to low water use drip irrigation.
- Purchased 16 Big Belly solar trash and recycle compactors to be installed throughout Housing apartments and Halls.
- Facilities Management purchased and installed two big belly sets for the University Plaza and for the Bus Circle.
• Secured funding to convert San Rafael Hall and complete the conversion at Santa Rosa Hall from potable to reclaimed water.
• Secured funding for Santa Ynez Apartments to landscape, convert lawns to low water use plantings, and to install drip irrigation.
• Facilities Management (FM) cleaned 52 parking lot inlets and 22 road inlets and the new Clean and Catch system. They did a major clean out of all storm drain components and installed metal guards to reduce debris getting into the storm system, as well as rodding out any jammed up storm drains. The Clean and Catch system will be checked twice a year, once by FM and once by a Stormwater Industries contractor, and filters will be replaced (they filter out debris, oil, and grease).

SHORT-TERM GOALS (To be accomplished by 6/14)
1. Establish membership as a tree campus USA.
2. Raise student awareness about sustainability in the landscape through programs in Housing & Residential Services, which already have similar programs on water, energy, and food within buildings. CCBER will be providing some suggested DIGIKNOW content.
3. Identify campus landscape areas that we want to retain on potable irrigation for support of teaching specimens (cannot tolerate recycled water).
4. Change fossil filters in parking lots to clean and catch. The nylon bag is reusable, making maintenance more efficient. A tri-mix media filtration pillow is custom-blended to trap UCSB-specific pollutants.
5. Train staff on cleanout technique and improve storm water efficacy in 2.8 million sq ft of parking lots.

PROCUREMENT TEAM
MEMBERS:
Kathy Scheidemen (Co-chair), Pam Lombardo (Co-chair), Christine Griffin (Gateway Systems Manager, Purchasing), Jacob Godfrey (Associate Director, Business & Financial Services), Steve Kriz (Assistant Director, Accounting Services), Mo Lovegreen (UCSB Sustainability)

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

ACCOMPLISHMENTS
• Required the use of environmentally preferable modular carpet tiles.
• Established clear E-waste standards for UCSB and system-wide application across the entire spectrum of contracts for electronic commodities.
• Enacted interim Sustainable Furniture policy that requires green options be selected for all furniture purchases (http://www.policy.ucsb.edu/policies/policy-docs/sustainable-procurement.pdf).
• Offered organic and locally produced food options – currently, residential dining has incorporated 50.3% organics in their offerings.
• Added a 1.0 FTE Strategic Sourcing Manager position to the Purchasing staff, plus one other staffer dedicated to sustainability efforts.
• Physical Facilities and Housing & Residential Services now use Green Seal certified chemicals and 100% recycled content paper in all restrooms and kitchens.
• Made Energy Star features mandatory with all new contracts for appliances, printers, copiers, fax machines, and personal computers.
• Began implementing an e-Procurement system, the UCSB Procurement Gateway (Gateway).
• Created two surplus sites to decrease purchase of new materials: chemical and equipment.

SHORT-TERM GOALS (To be accomplished by 6/14)
1. Research and implement optimization of last mile delivery for route efficiency and packaging reductions.
2. Partner with UC Santa Cruz and UC San Diego procurement teams to: 1) identify green products and services, 2) have strategic sourcing/green vendors display priority purchase options, and 3) increase the EPP reporting options.
3. Implement Office Max Boomerang Box program in order to reduce packaging waste.

WASTE TEAM
MEMBERS:
Matthew O’Carroll (Co-Chair/ Facilities Management/ Graduate Student), Mo Lovegreen (Co-chair/ UCSB Sustainability), Megan Byrn (Bren School Sustainability Committee/ Graduate Student), Bruce Carter (Environmental Health & Safety), Amorette Getty (Material Research Laboratory & LabRATS), Sue Hawkins (UCen Dining Services), Lauren Menzer (Environmental Affairs Board Zero Waste Committee/ Undergraduate Student), Mark Rousseau (Housing & Residential Services), Jordan Sager(Facilities Management), Byron Sandoval (Facilities Management), Sarah Siedschlag (Associated Students Recycling)

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

ACCOMPLISHMENTS
- Waste Diversion Percentage (w/ C&D waste): 78.9%
- Waste Diversion Percentage (w/o C&D waste): 70.1%
- Introduced mandatory compostable contract language for leased UCen tenants.
- Achieved an 88.6% pre-sort and 97.4% post-sort waste diversion rate for CHESC, surpassing the goals of 85% and 95%, respectively.
- Plastic Pollution Coalition successfully hosted ‘Day without a Bottle,’ where pledges were made to use reusable water bottles and refuse single-use plastic water bottles.
- Participated in EPA Food Recovery Challenge.
- Updated existing Facilities Management Recycling Website to the ‘Facilities Management Refuse & Recycling Website’ with the latest information on waste management at UCSB.
- ‘Focus on Food’ internship, in which a portion of focused on food waste reduction. Introducing by H&RS Dining Services
- Continuation of Family Housing Composting Program by A.S. Recycling
- Introduced the compost program at the Graduate Students’ Association Lounge
- Conducted a Front-end Loader Scale Pilot Study
- A demonstration garden was created at the Eucalyptus Grove to show the effects of composting in action. Established by A.S. Recycling
- Installed several hydration stations to encourage the UCSB community to use reusable water bottles
- Establishment of a Lab Waste Management Program to better handle lab waste leaving UCSB
- Updated AS Recycling Route Rider routes to eliminate inefficient routes
- Paired 11 landfill and commingled recycling receptacles, where existing landfill bins were repurposed to be commingled recycling
- Introduced MarBorg food waste dumpsters and service for Main Campus
- A Bren Group Project on food waste in the United States was completed
- Participation in RecycleMania, where UCSB achieved the following rankings:
  - Grand Champion: #44/ 273
  - Per Capita Classic: #81/361
  - Waste Minimization: #69/167
  - Food Service Organics: #16/156
- A.S. Recycling Improved vermicompost and hot compost procedures to better handle large amounts of food waste
• Established the Refuse & Recycling Research Center to address upstream challenges and to research improved waste management practices that are preventing UCSB from increasing its waste diversion percentage
• Updated A.S. Recycling informational brochures and the website with the latest program information
• A Bren Group Project on SmartSourcing which focused on sustainable supply chain management at UCSB was completed
• Introduction of Towels2Trees, a pilot study focusing on composting paper towels in restrooms at UCSB
• Updated e-waste signage by introducing burnt orange as a new color scheme
• Introduction of UCSB's first ever zero waste athletic event, Zero Waste Weekend

SHORT-TERM GOALS
1. Reduce food waste by 5% in H&RS Dining Common
2. Utilize the Gateway Procurement System to identify items for purchase that have minimal packaging and are made of recycled materials.
3. Eliminate indoor trash and recycle bins from General Assignment Classrooms
4. Expand food waste/organics waste infrastructure (indoor and outdoor)
5. Introduce lab waste compost programs for organic material
6. Investigate UCSB community behavior towards waste management, using Front-end Loader Scale Data
7. Eliminate unnecessary MarBorg services, using Front-end Loader Scale data
8. Prepare for new waste contract (2014)

STRATEGIC ENERGY PARTNERSHIP (SEP) TEAM
MEMBERS:
David McHale (Co-chair), Mark Rousseau (Co-chair), Mark Peppers, Andrew Riley, Jordan Sager

MISSION
Reduce non-renewable energy consumption through conservation, energy efficiency, behavioral modification, and strategic procurement. Our mission is accomplished through:

• Planning, development, and implementation of energy conservation measures;
• 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; and
• Providing information to campus constituents about UCSB’s energy use and its global environmental impact.

ACCOMPLISHMENTS
• Reduced GHG emissions to 2000 levels on an absolute basis.
• Achieved 2014 GHG Reduction Target ahead of schedule; 4 percent absolute reduction in total main campus electricity consumption over the past two years.
• SEP highlights - $12.5M invested in energy projects during the initial Program cycle:
  o Projected 9% absolute reduction in electricity usage achieved by current Program cycle energy projects
  o Projected 7% absolute reduction in natural gas usage achieved by current Program cycle energy projects
  o Over $1 million annual utility savings
  o Four percent reduction in GHG emissions achieved by initial Program cycle project
• Achieved an average of 1.6% reduction in total campus average energy use intensity (kBtu/sq ft/yr) over the past 10 years.
OTHER INITIATIVES:

Internship Program PENDING FROM KATIE

THE GREEN INITIATIVE FUND (TGIF)
The Green Initiative Fund (TGIF) Grant Making Committee announced the selected projects for the 2012/13 funding cycle in April 2013. A total of 23 projects applied for TGIF grants this year, requesting a total of $341,310.93. Of those projects, two were removed from the review process, as they received funding from other sources. The TGIF Grant Making Committee awarded funds to 14 projects, totaling $191,172.33. The TGIF Grant Making Committee consisted of eight voting members and six non-voting members.

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<th>Voting Members</th>
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<tr>
<td>Carrie Fransen (serving for Ron Cortez)</td>
<td>Emergency &amp; Continuity Services</td>
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<td>Environmental Health &amp; Safety</td>
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<td>Simone Pulver</td>
<td>Faculty Representative, Academic Senate</td>
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<tr>
<td>Ashley Koide</td>
<td>AS Senate Representative</td>
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<tr>
<td>Taylor Fulton</td>
<td>Undergraduate Campus-wide Representative, Vice Chair</td>
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<td>Molly Gordon</td>
<td>Undergraduate Campus-wide Representative, Chair</td>
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<tr>
<td>Matt O’Carroll</td>
<td>Bren School of Environmental Science &amp; Management Representative</td>
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<td>Shane Grigsby</td>
<td>Graduate Student Association Representative</td>
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<td>Lakshman Nataraj</td>
<td>Environmental Affairs Board Representative</td>
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<th>Non-voting Members</th>
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<tr>
<td>Kate Kokosinski</td>
<td>TGIF Grants Manager</td>
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<tr>
<td>Jordan Sager</td>
<td>LEED Program Manager, Energy and Utility Services</td>
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<tr>
<td>Mo Lovegreen</td>
<td>Director, Campus Sustainability</td>
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<tr>
<td>Andrew Riley</td>
<td>Student Affairs Sustainability Coordinator</td>
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<tr>
<td>Bill Shelor</td>
<td>UCSB Community Member</td>
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<tr>
<td>Todd Lee</td>
<td>Office of Budget and Planning Representative</td>
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Below is an overview of the projects that you can expect to see completed within the next academic year:

**Bren Hall Inverter Upgrade ($25,000)**
Bren Hall currently has a 45-kW photovoltaic array mounted on its rooftop. However, the inverter for the array has not been functioning properly since last spring (2012). The 45-kW inverter and isolation transformer will be replaced with six 8-kW string inverters, using the TGIF grant. This multiple inverter configuration ensures that Bren Hall will still produce electricity in the event that one of the inverters has a problem. Bren Hall serves as a living example of green building on campus. The dashboard located in the Bren Hall Edison International Visitor Center informs students and the public of the green improvements made to the building.

**CHESC Scholarships for UCSB Change Agents ($4,150)**
UCSB is hosting the California Higher Education Sustainability Conference (CHESC) on June 23rd-27th, 2013. This TGIF grant will be used to provide scholarships for 20 students and about five change agents from UCSB to attend the event. CHESC is designed by and for campuses from each of the four systems of higher education in California. CHESC provides top quality sessions highlighting the most innovative best practices in campus-based sustainability efforts.

**Educational Energy Efficiency Video for the Residence Halls ($950)**
This TGIF grant will go towards the production of an educational energy audit video aimed at students living in the UCSB residence halls. The video will cover different energy and water saving techniques one can implement daily in a dorm room. It will be produced just before the start of the PowerSave Campus annual
energy competition in the residence halls and will be one of the main ways of marketing the event and promoting energy conservation on campus.

**Electric Hand Dryers in Library Bathrooms ($11,148.60)**
This project will complete the installation of energy efficient electric hand dryers in each of the four bathrooms on the first and second floors of the library as a pilot. The amount of paper towels purchased and used in these areas will be greatly reduced, thus saving the campus money and reducing our use of natural resources. Educational plaques will also be installed near the dryers to educate users about the project. The monetary savings and impact on electricity will be monitored during the project.

**Energy and Comfort Re-commissioning of the ICA Building ($15,550)**
Leveraging two successful previous TGIF projects (SRB and Student Health); this project focuses on another UCSB Student Affairs building to perform re-commissioning for building environmental systems. The ICA building is relatively new but consumes a significant amount of energy. An initial walk through suggests that better operation of the HVAC systems can be performed to save energy. Interns will use energy modeling and data analysis to identify optimal operation of the building.

**UCSB Farmer’s Market ($8,000)**
The UCSB Farmer’s Market project was brought to us by a group of staff participating in Human Resources’ new Gaucho U program. The TGIF grant will be used as initial funding for a one-year pilot project in which a weekly Farmer’s Market is held on campus. Farmer’s Markets provide local and sustainable food, and soon faculty, staff, and students will be able to stock up on fruits and vegetables for the week and learn the benefits of local and organic food.

**Green Grow Lights for Greenhouse Expansion ($38,785)**
The Ecology, Evolution, and Marine Biology department is finishing construction of a $1.7 million research greenhouse project funded by the National Science Foundation, which includes funds for 1000-watt high intensity discharge (HID) light bulbs and ballasts. The TGIF grant will enable the acquisition and installation of 325-watt light emitting diode (LED) grow-lights instead of the planned HID lighting. The LED lights produce the same light intensity but eliminate 70% of electricity consumed by HID lights. LED lights also facilitate plant growth and last over twice as long as HID lights.

**Interactive Campus Map Mobile Application ($8,861)**
This project will increase the number of impressions via the Interactive Campus Map (ICM) Sustainability Dashboard by developing a mobile application that can be used on smart phones. This is an exciting opportunity to further raise the bar regarding how universities can demonstrate to the online community the advanced, cutting-edge use of spatially displayed data. Recently, an Energy Dashboard module that works on standard computing platforms has been integrated into the ICM. The TGIF grant will allow for the continued development of this and other modules (sustainability tours, hydration station locations, TGIF projects, etc.) for use on a mobile application for smart phones, reaching a significantly larger part of the student population.

**Last Mile Delivery ($5,050)**
At UCSB, a large fleet of gas burning vehicles delivers packages to hundreds of locations in and around the campus every day. Many of these deliveries originate from a small population of vendors that could significantly reduce their carbon emissions by consolidating delivery routes to a single delivery point for "last mile" delivery by a dedicated campus-based fleet of low impact green vehicles. The TGIF grant will allow a student intern to work with purchasing staff to identify and convert high impact vendors to a last mile delivery model.

**Refuse & Recycling Research Center ($5,425)**
The Refuse & Recycling Research Center (R3C) will refine existing waste management programs and develop new programs and practices that will assist UCSB in meeting the University of California’s Zero Waste by 2020 goal. The TGIF grant will fund two student researchers that will have opportunities to collaborate with faculty, staff, and other organizations at UCSB, as well as with local, regional, and state agencies. They will investigate
new waste management technology, the UCSB community's behavior towards waste, and best management practices.

**Sustainable Food Distribution and Education ($1,861)**
The goal of this project is to increase students’ access to healthy and sustainable food by offering fresh produce at the Associated Students (AS) Food Bank and educating students about how they can grow more at home. In order to accomplish these goals, TGIF is granting funds that will be used toward cold storage for fresh produce and other perishable items at the AS Food Bank.

**UCSB Students GIVE! ($2,060)**
TGIF is supporting a brand new component of this project. Funds will pay two students to develop educational and outreach materials to explain the impact of our actions on the environment and raise awareness about sustainable and practical actions students can take locally, highlighting the benefits of donating items they no longer want or need to GIVE. The goals of this new educational component are to promote conscious consumption; showcase GIVE as an opportunity to reduce, reuse and recycle; and to generate a spirit of giving in the community. The students will disseminate the materials widely to their peers during student organization meetings, in classrooms, at events, in the residence halls, and through social media.

**Water Minimization ($44,450)**
This grant will be used to install faucet aerators and dual flush valves in the balance of the restrooms across campus. We anticipate that the water reduction from this project will garner an annual potable water savings of approximately 23,767,400 gallons, decreasing our total potable water consumption on campus by an additional 8%. This project will unify all restrooms on campus with the same low-flow infrastructure.

**Divestment Initiative**

In the winter and spring quarters 2013, both student and faculty governments at UCSB addressed the issue of UC divestment from the fossil fuel industry, in conjunction with a nationwide campaign for divestment that spread to over 300 colleges and universities. Since then, the cities of Seattle, San Francisco, Berkeley, and Cambridge have divested, and the 1.1 million member United Church of Christ has become the first religious organization to do so as well.

On the student level, UCSB’s divestment campaign was conducted as a project of the Environmental Affairs Board, coordinated by Emily Williams, an Environmental Studies major. In February, the Associated Students unanimously passed a proposal calling on the UC Regents to divest, and by the end of the academic year, seven UC campus student governments had passed similar resolutions. UCSB students presented the issues to the Regents three times during the year.

In March, a faculty group including David Cleveland (Environmental Studies), John Foran (Sociology), Harold Marcuse (History), and Bruce Tiffney (Earth Science) asked the Faculty Legislature to instruct the Academic Senate to hold a forum on the merits of UC divestment in May, and a website was established for all members of the UCSB community to continue the discussion. At the May 30, 2013 meeting of the Faculty Legislature, after considerable debate, a motion passed by a vote of 11 to 7 (with one abstention) that stated:

> we, the Faculty Legislature of UC Santa Barbara, call upon the Regents of the University of California to divest the UC General Endowment Pool from direct ownership of fossil fuel public equities and corporate bonds, and of any commingled funds that include such equities and bonds, and to do as soon as possible and no later than five years from now, and to explore vigorously the reinvestment of such funds in ways that contribute to limiting global warming to 2 degrees Celsius, including investments in clean, alternative, renewable energies and sustainable economic activities. Furthermore, we request that the Regents
issue an annual public update [within 90 days after the end of the fiscal year] of the progress made to date on the divestment of such holdings from the UC investment portfolio.

This campaign will be taken to other UC campuses in the coming academic year, and both students and faculty at UCSB intend to play a role in the effort to bring a formal memorandum to the Regents on the issue.

**SYSTEM WIDE TASK FORCES**

**TASK FORCE ON REPORTING FOR SUSTAINABILITY IN ACADEMICS**

**Members:**

**Faculty/Academic**
- Ann Savageau Professor of Design Davis
- Stephen Wheeler Associate Professor of Environmental Design Davis
- Cully Nordby 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
- John Foran Professor of Sociology Santa Barbara
- Jane Teranes Director, Environmental Systems Program San Diego
- Arianne Teherani Associate Professor, School of Medicine San Francisco

**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
- Carl Greenfield Undergraduate student Santa Barbara
- Tiffany Wise-West Graduate student Santa Cruz

**Sustainability Officers/Staff**
- Camille Kirk Assistant Director of Sustainability Davis
- Abby Reyes Sustainability Researcher, Institute of Environment 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
- Lacey Raak Sustainability Director Santa Cruz
- 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

**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 Findings**

Nine UC campuses have completed inventories of sustainability curriculum and research activities, and the 10th campus, UCSF, is planning to conduct an inventory of its School of Medicine curriculum in the coming year. Since each campus used a very different methodology for their inventory, the initial Task Force effort
focused on collecting inventory data from each campus, contrasting current reporting methods, and developing
draft system-wide guidelines for the campuses to report to Sierra magazine for their “Cool Schools” ranking
and to AASHE for STARS ratings. This addresses Action Item #4 of the Task Force’s charge from the
Sustainability Steering Committee. Preliminary progress has also been made on Action Items 1, 2 and 3, and
the task force will focus on these items moving forward.

**Action Item 1 – Share best practices in how UC campuses and peer universities are participating in the
American College and University Presidents’ Climate Commitment that all UC chancellors have signed:
“Actions to make climate neutrality and sustainability a part of the curriculum and other educational experience for all students.”**
After reviewing each campus’ Climate Action Plan, the task force determined that all UC campuses, with the
possible exception of UCSF, include climate neutrality and sustainability in their curriculum. However, only
UCSB has a comprehensive effort to include these topics as part of the curriculum for all undergraduate
students and to actively engage graduate students across all departments (Appendix B). To facilitate best
practice sharing in this area, the task force will start collecting syllabi of applicable classes and will review
successful efforts at peer institutions. This will inform the task force of the appropriate actions needed to
address item 1.c.iii of the ACUPCC at UC campuses.

**Action Item 2 - Catalogue and facilitate the sharing of best practices for sustainability education and
research, including academic/facilities collaborations toward the use of a campus as a living
laboratory, at UC campuses and at peer universities.**
The task force has started the large task of collecting and synthesizing best practices across the UC system in
curriculum, research and campuses as living laboratories for sustainability. It reviewed and summarized the
responses that campuses submitted to Sierra Magazine in 2012 for education and research credits and
created an organizational structure on the UC Sustainability SharePoint site for collecting best practices
moving forward.

**Action Item 3 - Make recommendations for how, on an ongoing basis, to share best practices across
campuses.**
Currently, the task force uses periodic conference calls and the SharePoint site to share best practices. In
addition, several sessions at the recent 2013 California Higher Education Sustainability Conference (CHESC)
focused on infusing sustainability into academics and were well attended by staff and faculty from UCs and
other institutions. The nine talks and two lunch break-out sessions generated a vibrant and healthy dialogue
that permeated the conference. Two areas of great interest were: what would be included in the metrics for
sustainable curriculum and research, and what the relationships are / could be between faculty and staff in
promoting/enabling sustainability curriculum and research on the campus. Participants expressed a strong
desire for continuing this conversation at future conferences. The task force recommends continuing these
forms of best practice sharing in the future and also recommends that this task force continue meeting during the
2013-2014 academic year.

**Action Item 4 - Share current methodologies for reporting on sustainability in education and research,
and work towards developing a common and efficient methodology of data collection and reporting.**
To date, the task force’s efforts have mostly focused on this action item in preparation for campuses to report
to Sierra magazine for their “Cool Schools” ranking and for completing the comprehensive Sustainability
Tracking, Assessment and Rating System (STARS). The task force collected and contrasted each campus’s
definition of sustainability, methodology for assessing sustainability courses and research activities, and
resulting inventories. Through discussion and consensus, the task force developed a draft set of guidelines to
assure consistent and accurate reporting across the UC system (Appendix C). It was agreed that the
guidelines should be vetted by additional personnel from each campus, ideally including Academic Senate
faculty members. A new version of STARS is being released in September 2013 so the Task Force will revisit
the draft guidelines in light of any changes to the academic metrics and then proceed with the campus vetting
process.
Conclusion
There is great enthusiasm among task force members to continue the work and facilitate a system-wide conversation on sustainability in academics. Most importantly, the task force recognizes the importance of the Academic Senate in these endeavors. While all UC campuses have strong and extensive records of sustainability curriculum and research, thus far only three campuses (UCSB, UCLA and UCSF) have sustainability initiatives that have originated within the Academic Senate.

Next Steps
1. Task Force members will present draft reporting guidelines to their respective campuses for feedback.
2. Task Force will continue meeting in 2013-14 with priority on finalizing reporting guidelines and assessing and sharing best practices across UCs and peer institutions.
3. The Task Force will propose to host a special session at the summer 2014 CHESC.

TASK FORCE ON REPORTING ON Socially RESPONSIBLE INVESTING (SRI)
MEMBERS
- Regents
  - Student Regent Designate Cinthia Flores
- Treasurer’s Office
  - Deputy Treasurer Mel Stanton
  - Director of Client Relations Bill Ryan
- Foundation CFOs
  - Davis: Isabella Corbin
  - San Diego: Marlene Shaver
  - Santa Barbara: Eric Sonquist
- Faculty
  - Berkeley: Kelly McElhaney, Professor, Haas School of Business and Director, Center for Responsible Business
  - Santa Barbara: Bruce Tiffney, Dean of the College of Creative Studies
- Students
  - Santa Barbara: Emily Williams, California Student Sustainability Coalition
- Sustainability Officers
  - Berkeley: Lisa McNeilly, Sustainability Director
  - Davis: Sid England, Assistant Vice Chancellor for Environmental Stewardship and Sustainability
  - Merced: Jim Genes, Special Assistant to VC for Administration and Chair of Chancellor’s Advisory Committee on Sustainability
  - Santa Cruz: Lacey Raak, Sustainability Director
  - Santa Barbara: Mo Lovegreen, Sustainability Director; Kate Kokosinski, Sustainability Coordinator
  - Irvine: Richard Demerjian, Sustainability Director
  - San Diego: Kristin Kielich, Sustainability Program Manager
- UCOP
  - Sustainability Manager Matt St.Clair
  - Sustainability Specialist Rashmi Sahai

MISSION
1. Develop consensus to ensure 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.

Summary Findings
All three action items in the Task Force’s charge from the Sustainability Steering Committee have been completed. Most importantly, all campuses and the Treasurer’s Office came to a consensus on the responses to provide to Sierra magazine prior to the April 15 reporting deadline for their “Cool Schools” ranking.

Action Item 1 – Develop a common understanding of current socially responsible investing practices that will lead to consistent reporting and will save time on data collection

The task force reviewed all UC responses to the 2012 Sierra survey and discussed what responses for this year’s survey would yield the highest amount of points while still addressing the credit intent.

All campuses and the Treasurer’s Office came to a consensus on the 2013 responses to provide to Sierra prior to the April 15 reporting deadline for their “Cool Schools” ranking. The rankings will be published in the fall, and the points achieved across all UC campuses should be consistent for the first time.

The Treasurer’s Office provided an overview of the General Endowment Pool (GEP) and the SRI practices that apply to it. They also clarified the difference between the foundation endowments at each campus and the GEP.

Action Item 2 - Develop an understanding of current best practices in socially responsible investing among peer universities

The task force collected and synthesized the AASHE STARS SRI credits for peer institutions that received a gold rating, as well as the SRI responses of the Green Report Card for peer institutions that received an “A” in the investments category. Brief phone interviews were conducted with the University of Washington, Cornell University, and Georgia Tech.

Action Item 3 - Identify STARS credits where current investment practices by the Treasurer’s Office or campus Foundations can be improved and make recommendations for how to make those improvements in order to earn higher scores for UC in the investment category of STARS and other surveys.

Research on this topic focused on the credit for “Positive Sustainable Investments.” There is no list of specific companies that count towards this credit, although there are several lists of funds that do. The Treasurer’s Office indicated that it does not currently invest in any of the funds on Bloomberg’s List of Socially Responsible Funds. Both the UCSB and UCSB Foundations are exploring the development of a new “sustainability” or “social” fund for donors that prefer to have their money in SRI funds. Additional points could also be earned in a different credit category if the Foundations form a Committee on Sustainable Investing.

Next Steps
1. The UCOP Sustainability Office will provide information on sustainable investing best practices to the Foundation CFOs and support any pilot projects initiated by the Foundations, in particular by the UCSD Foundation and the UCSB Foundation.
2. The Task Force will convene again in November 2013 to discuss any best practices that have been identified and check in on the progress of the student divestment campaign and general SRI practices.
3. The Task Force will convene in February or March of 2014 to review responses to Sierra before the 2014 submission deadline in April.
AS BIKE SHOP
The AS Bike Shop did over 4000 flat repairs last year. Other repairs are harder to track because the labor charges are variable, but that being said, other repairs were on par with flat repairs. The AS Bike Shop delivered 600 lights to AS Bike Committee. Staff ran two one hr. basic maintenance workshops for the Graduate Student Association, the Women's Center, Residential Housing, and the Transportation Alternatives Program. In conjunction with A.S. Bike Committee, we have also distributed bike lights and taken over the maintenance of the seven bike pump stations scattered around campus.

STAFF SUSTAINABILITY RECOGNITION AWARD
This was our first year implementing the staff sustainability recognition award. It was conferred on Bonnie Crouse, the Assistant Director in Residential Dining Services for her leadership, vision, and impact on campus sustainability. Bonnie has dramatically changed Residential Dining for the better, some of her accomplishments include:

- Purchasing 78% local and/or organic produce
- Purchasing 100% sustainable fish
- Composting 100% of pre and postconsumer food waste
- Recycling 100% of our waste oil and having it converted into biodiesel fuel
- Standardizing the purchasing of energy efficient kitchen equipment
- Going tray-less at all 4 dining commons reducing food waste by 50% and saving more than one million gallons of water per year
- Certifying all 4 dining commons, and Catering & Concessions units under the Santa Barbara County Green Business Certification Program
- Educating countless students through Sustainability Week in the dining commons
- Organizing tours of local farms for dining staff/chefs/cooks
- Institutionalized sustainability into dining’s “Strategic Plan”
- Partnering with academic departments for sustainable agricultural studies

The award was given out at the May staff celebration luncheon.

UCSB’s CAMPAIGN
UCSB’s student government passed a resolution calling for UC to start taking steps towards divestment from the 200 publicly-traded companies that hold the majority of the world’s fossil fuel reserves. The students at UCSB recommended that the Academic Senate vote in favor of this as well. The UCSB Academic Senate held a symposium to educate themselves on the topic before voting on the resolution.

At the April 2013 Regents meeting, the students spoke in the public comment period, requesting that the Regents put the topic of divesting from fossil fuel companies on the agenda of their next meeting. To everyone’s knowledge, the Regents have not put this on their agenda for the May meeting. It is likely that students will be at every Regents meeting until the issue is addressed. In their campaign, the students are referring to a report released by Aperio, called “Do the Investment Math: Building a Carbon Free Portfolio,” which claims that divesting from the “Filthy Fifteen” dirtiest fossil companies does not have a statistically significant impact on an endowment’s return. The Treasurer’s Office ran the list of the 200 fossil fuel companies through their database, which resulted in 69 stocks and close to $2 billion.

As the CSC looks to the 2013/14 academic year, we will continue to encourage and coordinate the efforts of our faculty, staff, and students who are the front line of “making a difference” by their actions and efforts. Working with all sectors of the campus community, we look forward to helping UC Santa Barbara maintain its visionary leadership in developing sustainable practices.
Pamela Lombardo  
Co-chair, Sustainability Committee  
Acting Associate Vice Chancellor, Administrative Services

Bruce H. Tiffney  
Co-chair, Sustainability Committee  
Dean, College of Creative Studies  
Professor, Earth Science