

UCSC Student Environmental Center College 8 Student Commons, Room 210 831-459-1714 www.enviroslug.org

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Introduction

On February 26th, 2009 over 350 people gathered for the 8th annual UC Santa Cruz Campus Earth Summit. Hosted by the Student Environmental Center, this annual event brings together campus and community members to further campus sustainability efforts. At the Summit participants convened fourteen Topic Groups to envision sustainability projects and actions for the future of our campus. The Summit is designed to produce this Blueprint, inspire the groups to continue working together, and to further their ideas throughout the year.

Purpose of the Blueprint for a Sustainable Campus

Modeled after the Blueprint for a Green Campus at the University of Colorado Boulder, the Blueprint for a Sustainable Campus is a living document that describes our visions and ideas for improving the sustainability of our campus community. These visions and ideas serve to inspire and inform groups and individuals looking to make positive tangible change at UCSC. While the Blueprint does not represent any official commitment from the UC administration, its collaborative nature allows for a systems approach to thoughtful, responsible planning, ensuring that we have a fertile, vibrant world for generations to come, beginning with the University of California at Santa Cruz. The Blueprint for a Sustainable Campus will continue to be developed collaboratively at UC Santa Cruz in years to come. Each year's Blueprint is posted online at http://www.enviroslug.org/blueprint.

2009 Campus Earth Summit

Highlights of the 2009 Summit included opening comments by Green for All's Nikki Henderson; a panel of sustainability activists representing UCSC students, staff, faculty, administration, and Santa Cruz community; tables and booths from sustainability organizations across the University and the City; a delicious local and organic lunch prepared by UCSC's Terra Fresca restaurant and served by UCSC Catering; workshops on many subjects taught by local organizations; as well as the presence of UC Santa Cruz's first officially sanctioned Sustainability Working Groups. As a zero waste event, the Earth Summit featured a local, organic lunch, recycling and composting services, and literature printed on recycled paper.

Earth Summit Topic Groups

This year each Topic Group meeting was held in two parts; before lunch the groups shared information about current sustainable policies and practices in each topic area at UCSC. This allowed for the individuals from different backgrounds present to share their own knowledge with the rest of the community. After lunch the groups reconvened to create a shared vision for how sustainable UCSC could be in that topic area in the year 2020. The information shared, and ideas generated were compiled into this document, The Blueprint for a Sustainable Campus. There has traditionally been a Nuclear Investments Topic Group at the Earth Summit, but in 2009 the group did not produce notes.

CSS Working Groups

The hope of the Earth Summit has been for many years to convene Topic Groups that may continue as officially sanctioned Working Groups throughout the years. This year the administrative Committee on Sustainability and Stewardship has approved six Working Groups, each led by student and staff co-chairs and supported by the Sustainability Office.

The Working Groups include Transportation, Waste Reduction (also known as 0 Landfill), Green Purchasing, Food Systems, Funding, and ECOS (Education, Communication, and Outreach for Sustainability). These working groups meet regularly to promote and incorporate sustainable

practices in their area of campus operations. They use the Earth Summit space and the information recorded in the Blueprint to get ideas and feedback from the greater campus community on their initiatives and projects at UCSC. For more information on the CSS Working Groups, contact UCSC's Sustainability Office at sustain@ucsc.edu, or (831) 459-3011.

Funding for Student Projects

Student organizations wishing to further sustainability efforts at UCSC may use the Blueprint for a Sustainable Campus as a guide for inspiration and education on what is already happening on campus. Using this document as a guide, these student organizations may apply for funding for sustainability projects through the Campus Sustainability Council, which distributes funds from student fees on a bi-annual basis to UCSC student organizations for programs and events that facilitate collaboration between students, the administration, faculty, and the community to create, implement, and monitor environmentally sound practices on campus. For more information and contacts visit http://www.enviroslug.org/csc.

Topic Group Notes

On the following pages you will first find notes from each of the topic groups. Most groups documented information on current projects in each area followed by opportunities and the detailed ideas generated by each group of what a sustainable UCSC would look like in 2020. A few topic groups followed their own unique agendas, still focusing on educating about the past and present and working towards a sustainable future. All sections on "Post-Earth Summit Progress" were updated in May 2009. As a compilation of ideas from all parts of our campus community, these notes from the Earth Summit are the voice of our community and are intended to inspire future projects towards sustainability. If you find yourself inspired by these notes, the Student Environmental Center very strongly encourages you to contact the appropriate individuals or groups indicated in the contact section of this Blueprint, and TAKE ACTION!

Campus & Community Relations

Participants:

Tyler Pitts (facilitator)	tpitts@ucsc.edu	student/ Good Neighbors CUIP
Kurt Hurley (facilitator)	bwv1064@yahoo.com	Ecology Action

Sorry, the contact sheet was lost!

Community present:

- Transition Santa Cruz: transitionsc.org
- Campus Subcommittee on Sustainability
- United Nations Association store in SC Coffee Roasting
- Ecology Action
- Project for Public Spaces
- Society for Campus and University Planning
- Oakes Core
- Kinetic Poetics Project
- Women's International Group For Peace and Justice
- Reel Works Film Festival
- UC Gray Bears

Missing potential participants:

Students, more UCSC staff

Current Policies & Practices:

Campus Development affects Santa Cruz Community:

- 47 years ago, before UCSC, Santa Cruz was a resort/vacation community. Now UC graduates, students, faculty, and staff have become involved in environmental issues in the community. There is a UC extension program for continuing students/adult education
- Santa Cruz's Wings Spread development proposal for 30,000 homes in the early 70's was defeated, likely UC community was involved in defeating this.
- As part of the Chancellor's Climate Compact with the city of Santa Cruz, UC has pledged to achieve a 2000 level carbon footprint by 2014, and a 1990 level carbon footprint by 2020. There is a phased continuation of decrease, aiming for 75% water waste reduction by 2012, and a 2010 goal for 20% renewable energy, starting a move towards solar power (this is hard with the forest).

Campus and Community Collaborate on many projects;

- There has been improvement in communication between UC and Santa Cruz city efforts towards sustainability. We are getting on each other's mailing lists, bringing students physically down from the hill to help with city projects, developing rapport with local schools (Cabrillo, high schools, etc.).
- UCSC could do a better job at letting community feel welcome on campus
- Santa Cruz chapter of the United Nations Association works with College Nine to coordinate the Model UN program
- May 2 at Live Oak Range will be the Reel Work Labor Film Festival. Open to student and community orgs to speak for free. There are Reel Work shows in Kresge.
- Transition Santa Cruz is working on a Community Water Conservation and Eliminating Plastic Bottle Initiative, this is an example of a UCSC/Community collaborative opportunity

 Community Agroecology Network connects with several groups and supplies coffee/tables to events in town

Opportunities:

- Check out the Grey bears website: http://www.californiagreybears.org/
- Use local land to exhibit sustainable farming and gardening. Ask people to donate properties to garden on.
- Get students interested in Transition Santa Cruz, start a UCSC chapter on campus.
- Outreach to different communities for Earth Day.
- Groups like Grey Bears, Transition Santa Cruz have listserves, these can be used by event organizers on campus to advertise to the community.
- Set up different channels for students to interact with community organizations and businesses.
- Parking is awful on campus, going to each others' meetings is inconvenient!
- PRT personal rapid transit to and from campus would help make connections
- Make it part of Oakes Core to put students into community somehow, becoming responsible for where they live (at least one professor does this already)
- Collaborate with the community for solar panel installation in campus and town

Visions for the Future

- UCSC produces all its own energy and food, doesn't drain city's resources
- Energy descent plan for the city of Santa Cruz. Environmental resource center for campus has developed an energy descent plan for UCSC as well.
- UCSC student environmental organizations come under one umbrella
- Resource sustainability center operating and fully funded
- UCSC hosts green campus tour for world leaders.
- UCSC partners with City to make SC the greenest city of the decade in 2020
- Campus is catching rain water to achieve water independence.

Post-Earth Summit Progress:

- The grant money from the Department of Conservation that helped Ecology Action to work with UCSC for waste diversion was pulled by Sacramento, so that program is no longer functional.
- The Good Neighbor Initiative is researching a recycling and donation program for end of the year move out for students living off-campus. This is mostly at condos and apartment complexes in town.

Climate

Participants:

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Daniel Press	Faculty	dpress@ucsc.edu
Jennifer Pimentel	College 8 CUIP	
Ken Foster	Transition Santa Cruz	

Current Policies & Practices:

In March 2007, the president of the University of California system signed the American College and University Presidents Climate Commitment (ACUPCC).

In September of 2007, the Mayor of the City of Santa Cruz, the County Board of Supervisors, and the Chancellor of UC Santa Cruz signed the Climate Action Compact (CAC), a document in which parties agreed to take action on climate change. The commitments involved in the signing of this document for UCSC include:

- * Setting a greenhouse gas (GHG) reduction goal by September 30, 2007
- * Identifying cooperative projects to reduce GHG emissions while stimulating local investment by January 1, 2008
 - * Present a GHG Reduction Action Plan by January 1, 2009
 - * Invite others from the region to participate

The Chancellor's Council on Climate Change at UCSC is currently working on a Climate Action Plan for the campus, which will set the goals outlined in the climate commitment. The Climate Action Plan will set a target date for climate neutrality by quantifying emission sources, identifying projects to reduce those emissions, and implementing the projects. Currently UC carbon reduction goals are:

- * 2000 levels by the year 2014;
- * 1990 levels by 2020;
- * 80% below 1990 levels by 2050.

UCSC is a little bit behind, C4 produced a draft Climate Action Plan that addressed those 2014 and 2020 goals, and has been waiting for the Chancellor to support it or choose a different plan of action, but they are concerned about the cost of implementation.

- -The draft Climate Action Plan is available here: www.steps.ucsc.edu/climate_report08/UCSCDraftClimateActionPlanDec2008.pdf, and people will have a chance to respond with comments.
- -Highlights of the draft:
- a. Half of our Carbon Footprint is from electricity (PGE), 1/3 from mobile sources like driving to campus. Campus fleet of buses is a small part of it.
- b. 14 % is air travel, though this is based only on air travel for which the purchasing department reimbursed the travelers, so actual air travel carbon output could be much higher, though 14% is still a huge part. C4 is recommending reducing our air travel collectively, and proposes an air travel fee of \$30 that would generate

\$100,000 dollars a year to put into a fund to fight climate change. C4 has to present this to the academic senate because most air travel is done by faculty and they would have to support such a fee.

Concerns are the budget regarding carbon production. Projects like buying a hydrogen bus, etc, need a sustained source of funding and we need to think creatively to get this source of funding in order to make the deadlines set out for us.

-We were purchasing from Arizona Power, which funds a lot of coal power, pretty dirty. We've gone back to PGE now, that has a mix of about 18 percent renewable energy, and the Governor wants it at 35 percent, so the government is investing in solar and thermal power.

Opportunities & Visions for the Future:

We cannot run our boilers and turbines at the same time. Do we shut down the cogeneration plant and simply buy our power? Engineers don't like it in case of a black out from PGE because of the risk of losing data, for example.

- -UCSC is close to releasing a request for solar panels on the West Field House through a Power Purchase Agreement.
- -Proposed air travel reimbursement fee, because staff and faculty can afford it more than students can.
- -Focus more on bike shuttles instead of hybrid buses because of the monetary cost, another option is changing schedule of classes to control flow of traffic, or rather alter it.
- -There are UC-Wide On-Site Renewables Guidelines as part of the UC Policy on Sustainable Practices, but these are only guidelines, not policy. They need more teeth; unless there is pressure on administrators to point directly to these guidelines, they won't use them. One would have to tell them the direct chapter of the sustainability Policy to have them utilize the guidelines for UCSC.
- -Transition Santa Cruz is a community group that focuses on redesigning communities, getting the city to move from oil dependency, focusing on climate change, and developing a local food system all through grassroots movement. They want to learn and teach how to become more resilient and self-sustaining.
- -Stanford enters carpoolers into a lottery for a prize, increasing incentives. This is much more cost effective than getting a hydrogen bus.
- -UCSC cannot take part in collaborative carbon reduction projects with the city and county unless there is a funding source
- -Ask for a grant form the state to figure out the potential for renewable energy. Planning is cheap, the action is expensive.
- -Reducing parking is not the answer.

Post-Earth Summit Progress:

First draft of the Climate Action Plan was released, public comments have been received by the Chancellor's Council on Climate Change, and the Council will be reviewing the comments in late May.

The Chancellor still has not committed to the Climate Action Plan.

Curriculum

Participants:

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Current Policies & Practices:

- UCSC is about to change the GE requirements. Environmental awareness GE has been proposed.
- UCSC Environmethal Studies Major hosts an Internship program, a new green building class, a new faculty member who will focus on climate policy, and a new environmental education emphasis. The ENVS Major is torn between applied and theory, though applied seems to be winning right now.
- Recreation Department has started a food systems learning journey program for students and the community through OPERS.
- The new Sustainable Living Center in the Village, run by CAN and PICA, hosts classes in which students can come and do hands-on learning about the environment.
- Program In Community Agroecology hosts a seminar on food systems. They have great potlucks and are so popular that they are turning away students most quarters. Saturday workdays are open to the community.
- Center for Agroecology and Sustainable Food Systems hosts internships and classes.
- Education for Sustainable Living Program is a student organized- and student-run class with a 2-unit lecture series every spring and 5-unit Action Research Teams making tangible change in the UCSC community.
- SEED Faculty (Sustainable Engineering and Ecological Design) are doing innovative things in their departments. They include: Ben Crow (Sociology), Melanie Dupuis (Sociology), Steve Gliessmann (Environmental Studies), Ronnie Lipschutz (Politics), Ali Shakouri (Electrical Engineering). Their courses through Electrical Engineering are interdisciplinary with many guest speakers.

- Alternative education- get credit for major requirements, students can get credit for Sierra Institute
- Only one class outside of ENVS can be a substitute for the major requirements- but there's also the opportunity for an internship which is kind of like a substitute
- "Perspectives" is a new GE to teach an interdisciplinary perspective on contemporary issues for students. Students will choose a track in Technology & Society, Human Behavior, or Environmental Awareness. This is going to be implemented in fall 2012.

Opportunities:

- Ongoing faculty support and a permanent sustainable curriculum working group
- Students have interests that are not being met by Faculty. How do we create a useful network that can match up students with their sustainability related interests?
- SEC could create a clearing house on web of different groups, classes offered and other opportunities
- Sustainability office as a hub for sustainability opportunities
- Creating a campus wide sustainability internship hub for all majors
 - o Knowing what falls under the realm of sustainable internships. This could be an online hub, talking about what opportunities are available and what interns are working on.
- ECOS (Education, communication, and outreach for sustainability) working group promotes staffstudent partnerships.
- Include more equity and economy topics in sustainable curriculum
- A Faculty committee to support individual sustainability Majors
- Create a sustainability or minor.
- Individual Majors can focus on sustainability and be a guide for institutionalized majors
- Organizing a campaign among students to get G.E. credit for Student-run sustainability classes
- Active practical green workshops/ weekend workshop bringing professional trainings funded by multiple departments
- Representative Sam Farr is a huge supporter of sustainability and campus efforts. Utilize him as a research. Develop an internship with him in D.C.

UCSC Sustainable Curriculum in 2020:

- World famous PHD program in sustainability
- All undergrad students are required to have basic education in the 3 E's: Ecology, Economy & Equity
- UCSC excels in experiential sustainable courses
- Sustainable core topics in all core courses
- First university off the grid
- UCSC Pioneers Participatory Action Research with every class
- All students required to do community sustainability internships
- ESLP teaching model spreads to campuses world wide
- Hard sciences offer interdisciplinary programs on sustainability
- Visibility and accessibility to sustainability curriculum and programs
- Sustainable changes also utilized for informed education i.e. signs explaining green changes

Post-Earth Summit Progress

ESLP cannot fulfill the new Perspectives requirements. There is potential to fulfill upper-division requirements, but that would require much more faculty input and detract from the student power behind the class

Five faculty are working towards building a curriculum in sustainability that will be open to all students from campus, and from all majors. It might be a minor, it might be a certificate, or it might be connected to the new general educations requirements, they are not yet sure.

Energy

Participants:

		~ ~ ~
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Current Policies & Practices:

UCOP Sustainability Policy: http://www.universityofcalifornia.edu/sustainability/enrg effncy.html

<u>Wind power</u>: SEC Wind Campaign is working on having 2-4, 100 KW wind turbines (bird friendly, like most turbines) installed on Mount Hamilton. The cost for installation and running it might be cheaper than Pacific Gas and Electric. The best option for a turbine is called the "Hush" its bird friendly and quiet. PGE won't connect with anything that is double your demand because they don't want you to be a power generator.

<u>Power Purchase Agreement for West Field House</u>: University is considering a power purchase agreement in which a company would install solar panels on the West Field House roof, and UCSC would buy the energy from that company. This is cheaper than using PG&E. Because this is the first time UCSC has done this they are cautious about what company to use.

<u>Alliance to save Energy's Green Campus Program</u> is a student-led outreach program designed to educate the campus community about the importance of energy efficiency and water conservation.

<u>ESLP Class</u>: There will be an Energy Efficiency Action Research Team through the Education for Sustainable Living Program this Spring Quarter.

<u>Measure 38</u>: SEC's Green Building Campaign is working to pass Student Referendum Measure 38 in the Spring which will change the language of Measure 28 so that UCSC's 100% energy offsets will be from local alternative sources rather than sources on the East Coast.

Opportunities:

Funding from UCSC Foundation. Ian McDonald can help with giving the ammunition for the foundations.

Philip Johnson: Plenty of money there so be creative.

Hundreds of portable solar cells in Residence Buildings to use for everyday electronics could help reduce campus costs

Getting the bikes in the wellness center to generate power

CFL recycling to complement Green Campus's CFL handouts

Volunteer outreach especially for energy efficiency

ENVS department could have more energy-related internships

Expand Green Campus program

Retrofitting lights

Water catchment systems (water goes hand-in-hand with energy)

Alternative Funding, in collaboration with the alumni association.

Visions for the Future:

100% renewable energy on campus

Lowest carbon footprint in California

One Sustainable Body: Students and Staff

Solar Panels Installed on all roofs

Mt. Hamilton Wind Turbine is UP!

Solar Powered Buses

Public Light Rail

Plug in Hybrid Solar components

Santa Cruz's Grid decentralized

Strictest Energy + Water Conservation

UCSC is most Sustainable in terms of energy

UCSC Goes Paperless with Decreasing Carbon Footprint

UCSC utilizes PPA and PPP

PPA could put the school in the business of purchasing power for cheaper

Post-Earth Summit Progress:

ESLP Greening the Campus Action Research Team installed a digital energy monitor at PICA and will be doing an energy audit, track their usage, and show the results of energy conservation practices. Some of the ART's students are doing energy audits in Family Student Housing.

Some students are helping with the Delightful Dining- a week-long event in which daylight is incorporated into lighting systems, this will hopefully become an ongoing practice.

Family Student Housing will be doing a lot of retrofits for energy efficiency.

Food Systems

Participants:

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Steve Reeb (fac)	sreeb@ucsc.edu	ENVS/SEC
Robby Seid (fac)	rseid3@gmail.com	

Recent History:

- 2003-2004 FSWG Formed
- UCSC Dining went self-operated in 2004
- CAN coffee began being served in the dining halls in 2004
- FSWG worked with dining on sustainable food sourcing guidelines which are updated every year
- Dining is sourcing from the Monterey Bay Organic Farmers Consortium and sustainable food producers since 2004-2005 and steadily increasing each year
- PICA formed in 2003 and has grown as a prominent student living and learning program (i.e. located in the village and ENVS based courses)
- Dining is striving to get all dining operated facilities certified green by the City of Santa Cruz by the end of the year
- FSWG launched a sustainability tent at the annual fall OPERS Festival in 2005
- The Annual Campus Food Guide was launched in 2005-2006 and continues each year
- FSWG partnered with College 8 and the SEC to assist with the launching of sustainable service learning project options for incoming freshman in their annual fall core course beginning in 2006
- CASFS launched with farm to college internship project with FSWG to have an undergraduate student assist with farm to college efforts and help with the Harvest for Health program affiliated with College 8
- UCSC Sustainability Assessment was launched in 2007 and completed in 2008, FSWG affiliates assisted with the food section
- Each year FSWG has advised an ESLP Action Research Team on food systems
- FSWG & CAN have co-hosted a campus and statewide food and justice convergence for the last two years at UCSC
- FSWG launched the Food System Learning Journey Program with OPERS in fall 2008
- Dining went trayless in fall 2008 in an attempt to reduce food waste, conserve water and energy, and promote greater sustainability of their operations
- Dining also began a pre-consumer and pulper based post-consumer composting program with the Buena
 Vista landfill in summer 2008

- Dining is piloting cage-free eggs, fair trade bananas, and other items that students have expressed interest in
- Student leaders from FSWG are working on a ballot measure for Sustainable Food, Health, & Wellness for the spring ballot in 2009

What excites us about the campus food system work underway?

- Collaboration and getting to work with different stakeholders
- Student empowerment and support
- Eating and supporting the consumption of yummy and sustainable food for all!
- Integrating co-curricular and student educational programming into these efforts
- Garden and hands-on based learning
- Contributing to broader climate and campus sustainability efforts through changing our food system
- Building meaningful bridges with our regional community
- Partnering on community-based projects that engage students
- Finding innovative ways to increase our sustainable practices

What do we perceive as current challenges to our work and efforts in creating a more sustainable and just food system at UCSC?

- Finding enough time to do it all!
- Lack of imagination and willingness to step out of the box even further than we have
- Current budget cuts and challenges to programs and staff
- Getting connected with the right decision-makers and stakeholders to learn of past efforts before suggesting something new
- \$\$\$
- Balancing school work and activism and engagement in my community
- Resources
- Continuity in efforts as student leadership shifts each year or therein, so long-term projects are much more difficult and some short-term projects are seen by administration as not looking long-term enough
- Tracking and assessing food sourcing practices

What are concrete activities and next steps we will participate in over the next year to create a more sustainable and just food system at UCSC?

- Support more programming on engaging students with CAN
- Supporting the ballot measure process for this year
- Launching a college garden based program with Oakes as a model for other colleges to take on
- Creating more communication between the MBOFC growers and UCSC Dining staff to enhance relationships
- Exploring the development of a domestic fair trade certification with MBOFC growers
- Pass on past efforts and bridge them with current interests and activities
- Assess current real food purchasing at UCSC for this year and setting goals for the next year
- Exploring how to develop an onsite compositing systems (i.e. mobile in-vessel compost system) so we don't have to take our compost off-site
- Hosting fun events and programs to engage interest students in thinking about their food and the choices they make in purchasing and consuming food
- Get the Kresge Coop more plugged into the FSWG and campus community food activities underway
- Be involved with next year's campus food guide
- Conduct an analysis of GMOs and product sourcing up at the Merrill Multi-Cultural Center for the Food Systems ESLP ART this year

Green Building

Participants:

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Community Groups Represented: City of Santa Cruz, UCSC Capital Planning, Student Health Center, Students (interns, employees), Campus architects, Program in Community Agroecology, Community, Physical Plant, Student Environmental Center, Physical Planning and Construction Engineers, Local Architects & Green Building Teachers

Current Policies & Practices:

The University of California has committed to constructing all new buildings to the equivalent of LEED-NC (Leadership in Energy and Environmental Design for New Construction) Certified or equivalent level and to outperform California's Title 24 energy code by at least 20 percent.

State-funded building projects at UCSC are on hold due to the state budget. These include the Biomedical building and Long Marine Lab building.

UCSC is updating campus standards for Physical Planning and Construction (PP&C website) to be in accordance with LEED specifications.

In terms of retrofitting, PG&E has given all public California Universities a collective \$400,000,000 grant to do energy efficiency upgrades.

GREEN BUILDINGS ON CAMPUS

In 2008 Student Fee Measure 35 ensured that student fees will pay for the Cowell Health Center expansion to be the first LEED certified New Construction building on campus.

The Cowell Dining Hall will be LEED Commercial Interiors, striving to be certified but that is not yet finished.

Porter College dorms renovation is LEED certification NC (new construction) and includes a dual piping system with rainwater catchment.

The Biomedical building is an approved state funded project and will be LEED NC Silver equivalent.

Engineering 2 is the first LEED EB certified building on campus, it is LEED silver.

RELATED BENEFITS AND PROJECTS

SEC's Green Building Campaign will be working to pass student Ballot Measure 38, which will ensure that the money that UCSC decided to invest in 100% renewable energy credits in 2008 will be reallocated to support onsite renewable energy projects, energy efficiency, and local offsets. Ballot Measure 38 will NOT increase Student Fees. For more information on Measure 38 contact Katie Simkover at ksimkove@ucsc.edu.

UCSC aims to divert 75% of construction waste.

Water Reduction Project at UCSC plans to reduce water usage by 12% as part of the Long Range Development Plan.

Long Marine Lab has opportunities for wind and solar power

Green Buildings save in operating costs.

OPPORTUNITIES

LEED Certification is expensive for individual projects; Volume Certification for Existing Buildings is being developed so that you can certify projects all at once instead of individually certifying buildings.

Living buildings are carbon negative, and would be an ideal goal but are not financially feasible today.

SPECIFIC IDEAS FOR HOW TO BE GREEN

- More waste monitoring (construction & daily)
- Rainwater catchment/greywater
- Fixture upgrades in existing buildings to save energy
- Adding composting in a specific design element and generate money by providing compost for the community- this contributes to landfill diversion goals
- Streamline green/LEED processes at physical planning and construction to be more efficient (ie: updating campus standards, project managers working together, etc)
- Solar water heating for dormitory buildings and other older buildings
- Buildings are below tree-line
- Heat recovery and distribution
- Choosing local design/consulting firms supports the local economy
- Infill development means less affect on the natural environment
- A lot of behavior change

PROJECTS

 Creating a circular green building fund can help to pay for capital projects with savings from maintenance budgets

- Ron has a vision of a green building beyond platinum. There are limitations with funding and bureaucracy within the university, but there are opportunities for funding in the private sector. The "dream project" (by Delaware Homeless Garden) would exceed LEED certification and be a demo project that would "knock it out of the park" on green buildings.
- Would be great for policy to be signed off by the University president that will require buildings to be LEED silver certified
- There is a Spring 2009 student ballot measure to change UCSC to buying local offsets for energy sources rather than sources from Georgia

RELATIONSHIPS

- Public/private partnership for funding
- Bringing students in
- Partnerships with the city
- Building Committees have undergrad and graduate representatives: The Coastal Biology Building Committee has student seats open now
- SEC and ESLP can create connections between students and professionals
- CUIP is an opportunity for student input
- Educate staff, faculty, and students on campus. This helps encourage funding allocation for Green Buildings.
- Students can be in leadership roles connected with curriculum. There is a need for furthering Green Building Curriculum and education of students, faculty and professionals.
- Renata describes a broadening view with interdisciplinary aspects. In her work as an architect she has seen consultants from all areas of soc. Sciences
- Outreach to the community about the new projects and the work that's being done
- Cultural movement/behavioral change influences policy change
- Include staff/admin/faculty in freshman orientation and education in general
- Students-private sector-university collaboration for funding

Visions for the Future:

- UCSC is carbon negative
- Solar monorail
- Beyond LEED towards smart building
- Building around the trees
- Going carless
- Gardens on the roof
- Solar panels
- Living roofs
- Living buildings and microbes/ Integrated Pest Management
- UCSC eco architecture design
- Passive solar design integrated to all building
- Modular/multi-use design
- UCSC is a green tech hub
- Marine science building as an example of sustainability building
- Restorative building
- Zero waste
- Circular green fund
- Wave powered facility
- Unlimited funds for sustainability
- People power from the gym
- Enough energy generated for the whole city

- Grey water
- Solar water heating
- Water reclamation
- No storm water runoff
- Hands on GB curriculum
- UCSC opens architecture program
- University as a living laboratory
- Renewable energy education laboratory

Post Earth Summit Progress

LEED 3 has a regional priority category, so each USGBC chapter chooses 6 credits that are most important for their region.

First retrofit Green Building at UCSC is the Engineering 2 building, which was LEED certified as of April.

Measure 38 did not pass because not enough students voted.

Green Purchasing

Participants:

- u		
Vlad Metrik		SEC/CSC alum
(Facilitator)		
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(facilitator)		
Sergio Costa	Svcosta10@gmail.com	SEC/CSC
(Facilitator)		
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Kathryn	kecunningham@ucsc.edu	UCSC Purchasing
Cunningham		
Sophie Bassett	sbassett@ucsc.edu	CAN
Julieanne Echols	jechols@theultimategreenstore.com	TheUltimateGreenStore.com
Summer Matern	smatern@ucsc.edu	UCSC student
Alex Henriquez	ahenriqu@ucsc.edu	Student/SCTV

Community Present:

UCSC Alumni, UCSC Grounds, UCSC Purchasing Department, Community Agroecology Network, Campus Sustainability Council, Student Environmental Center, Green Purchasing Working Group, theultimategreenstore.com staff

Missing potential participants:

UCSC Dining Physical Planning and Construction (PP&C) Information Technology (IT)

Current Policies & Practices:

- The Green Purchasing Working Group was created to address needs mentioned in the 2004-2006 Blueprints for a Sustainable Campus, the Campus Sustainability Assessment, and the UC Policy on Sustainable Practices.
- •The new Working Group is housed under the Committee on Sustainability and Stewardship and is currently meeting, this quarter every other Monday from 9-10:30 am, Contact Kate Cunningham to get involved.
- •UCSC Purchasing department was established in 2004 as a result of recommendations from consulting firm Avcor; no other UC has a centralized purchasing environment that serves the entire campus. This saves resources.
- •UC Policy on Sustainable Practices emphasizes "cradle to cradle" purchasing decisions
- •All purchasing decisions for goods and services (exclusive of construction) are overseen by BUS 43, a document outlining the purchasing rules set forth by the UC Regents, the State of California, and the federal government. http://www.ucop.edu/ucophome/policies/bfb/bus43.html has more information.
- •EPEAT (Electronic Product Environmental Assessment Tool) is a sustainable certification system for technology with ratings of bronze, silver, and gold. UCOP Sustainability Policy suggests a minimum of all purchases be bronze level.

Opportunities:

- -Purchasing Department and Sustainability Office collaborate on creating and distributing a Green Purchasing Guide (GoodGuide.com/ResponsibleShopper.com are commercial examples)
- -Utilize CruzBuy (e-procurement tool) as a tool to communicate green choices by indicating on items if they're green, and therefore allowing shoppers to search for green items. Cruzbuy message board can also be used to advertise sustainable products.
- -Assess carbon emissions and other indirect implications of purchasing through a purchasing assessment
- -Prefer local and green for purchasing
- -Boycott companies that sponsor war, environmental degradation, or anti-social justice.
- -Create student opportunities for product research (volunteer, credit, etc).
- -Buy EPEAT -Certified technology. Pick a commodity and assess the top 10 items/suppliers, based on efficiency in different areas. Use CruzBuy for this.
- -There is potential for UCSC to serve as a unique model to other campuses
- -Cooperation between public & private to learn about issues like green washing
- -More purchasing researchers for UCSC
- -Creation of a list of questions to ask before buying products
- -TheUltimateGreenStore.com is working on lists of questions for producers and willing to collaborate
- -Assess amount of supplier traffic on campus

Visions for UCSC in 2020

- UCSC launches pilot program for state of the art nano-tech re-shaper (this product of the future can reshape atoms to turn, for example, a discarded soda bottle into a usable pen)
- Organic, local, sustainable products now 85% of all purchases
- New Campus storehouse ensures all green purchases
- Local businesses supply 76% of all materials
- Green Guide is more informative and better than ever!
- UCSC ends all support for nuclear weapons production
- UCSC out of the market for radioactive and petrochemical materials
- The rest of the UC System takes a page from CruzBuy
- UCSC is now 100% paperless
- UCSC improves economies of scale for local green businesses
- All freshmen receive free laptops from the University thanks to savings on paper
- Central storehouse reduces shipping by 80%
- Equipment standardization reduces staff training time
- Fire sale on cabinets! (Because we don't use paper anymore!)
- Chancellor's historic final paper memo available for viewing at McHenry Library
- UCSC Purchasing promotes local businesses to go green!
- Cost per item at exciting new low due to economies of scale
- Tuition down to 1998 prices

Post-Earth Summit Progress:

The Green Purchasing Working Groups (Co-Chairs: Kate Cunningham, Strategic Sourcing for Procurement and Business Contracts and Sergio Costa, 3rd Year Environmental Studies Student) meets every two weeks in the Purchasing Department at 2300 Delaware. Their mission statement is: To ensure that UCSC's first priorities are to reduce, reuse, recycle and offer sustainable alternatives in the procurement of goods and services while leveraging UCSC's market influence to reduce our negative impact on the earth. They are currently pursuing procurement of 100% recycled printing paper for all of UCSC, beginning with education for departments to promote the idea of using 100% Post-Consumer-Waste paper. They are very eager for staff and students to join the group.

Institutionalizing Sustainability

Participants:

T : G : (6 :11:)		0.1.000
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Bob Forsythe	forsythe@ucsc.edu	Purchasing

Missing potential participants:

Information Technology Services

Current Policies & Practices:

What is institutionalizing sustainability?

- Way of making it a part of everyone's job, not just part of a project or campaign
- Culture of safety on campus, making everyone involved as a way to "be" rather than imposed on
- Taking grass roots efforts and coordinating it across campus, built into infrastructure of university
- Bringing together grass roots and providing structures on campus
- Who is involved in keeping sustainability in each department and how they do it are important questions to answer in order to institutionalize sustainability.

What are the examples in departments?

- Identified staff positions in different divisions. There are no ways of connecting these different positions in a coordinated way.
- Look at details of governance and sustainability in the sustainability assessment http://sustainability.ucsc.edu

Departmentsts involved

- Committee on sustainability and stewardship (CSS) & their Working Groups
- Chancellor's council on climate change
- Campus welfare committee
- Advisory committee on facilities (ACF)
- Planning stewardship
- Sustainability Office (Sustainability.ucsc.edu)

Sustainability Office is creating an organizational chart of sustainability groups on campus. Sustainable operations and maintenance group is missing on chart. The org chart looks static in a classic structure but the organization is evolving through the lifecycle; introduction, growth, maturity, renewal/decline. We are in the introduction stage, version 1.0 of a sustainable organizational structure.

Other important groups:

- Campus Sustainability Council Is a student committee that allocates funds to student sustainability projects on campus.
- ECOS working group (Education, Communication, and Outreach for Sustainability) is a source of information on campus-wide projects, a clearinghouse and a means to keep the working groups connected.

3 main sustainability policies of UCSC

- 1. UC policy on sustainable practices (created under pressure by California Student Sustainability Coalition)
- 2. American Colleges and Universities President's Climate Commitment
- 3. Climate Action Compact with the City of Santa Cruz

Relevant Documents

- Blueprint for a Sustainable Campus is made up of the notes from each year's Earth Summit Topic Groups. It directs Student Environmental Center campaign projects and funding from the Campus Sustainability Council for any student sustainability projects on campus.
- Sustainability Assessment was released in 2008 and shows where UCSC is sustainable and where we need improvement.

Opportunities:

Someone from ITS should be integrated in sustainability, they are not present in CSS or working groups. Mary Doyle is the Vice Chancellor for Information Technology and is in strong support of institutionalizing sustainability and interested in getting a representative involved or a working group started.

UCSC should have a Campus Sustainability Plan.

To institutionalize sustainability, we need to transform the ideas from earth summit into concrete operational plans. Figure out how to prioritize the great ideas to move the campus towards sustainability. Set up or utilize an existing advisory committee to review, vet, prioritize ideas.

Engage resources from the students and community. It's not just raising the idea to administration to get them sign off on it.

Student turnover rates make institutionalizing sustainability difficult. Creating structures for organization and classes to get people involved and engaged will be more permanent. Allow people to plug in and allow continuity to build beyond the 4 years of the students' time.

Create structures for organic ideas from staff, students, etc to turn into institutionalized projects or programs. This requires good communication channels between the idea-makers (staff, students, etc) and the project/program implementers (administration).

Promoting Sutainability is important. We can utilize new technology to move this forward. Facebook page just started on UCSC sustainability, the idea of a UCSC sustainability wiki is in the works. This is more efficient

communication than traditional methods. Talk to Warren Sack about art/image to promote sustainability. Organize programs by staff for staff to promote sustainability (green gifts, etc.). Recognition and award ceremony for advocates of sustainability.

Re-invent the sustainability movement to dissolve stereotypes and to be all inclusive.

Immediate Opportunities:

Push for sustainability coordinators/contacts in each department

What can we do to get a vice chancellor of sustainability?

Show support!

Like the students in Berkeley- write a job description and get endorsement

Email Aurora when you have an idea- she catalogues ideas and support

sustain@ucsc.edu

Create a vision for sustainability

Maybe hold a vision-writing contest?

Hold a student survey to get their ideas

Maybe an opinion poll/survey on next year's ballot?

Students- get involved with campus business, committees etc.

Ask Tom Vani to have each of his department heads draft and give him a sustainability report by July

Visions for the Future:

- Every student learns about sustainability as part of life (through engaging programs and practices)
- UCSC "Principles of Community" has sustainability at the top
- There is no E-Waste: the virtual environment allows for less transportation and more communication
- Every Department has a sustainability plan, this is part of every job description and evaluation
- Everyone takes a sustainability pledge with incentives
- "Green points" sustainable tracking assessment and rating system for the entire university
- Sustainability incorporates more than just the environment
- We have a definition of sustainability
- Students live in green dorms
- Campus has 0-Waste move outs
- UCSC has highest number of sustainability staff, their efforts pay for themselves
- UCSC generates its own energy
- UCSC has a Vice Chancellor of Sustainability
- Students outreach to the community
- We use storm water for irrigation
- Sustainability is economically efficient
- Students educate staff
- Sustainability Training for staff
- Sustainability GE, major, and minor
- Annual Earth Summit is one week long
- CUIP involves 100 students
- Faculty lecture on Sustainability in all departments
- When engineering buildings for campus, sustainability outweighs capital cost
- LEED Platinum Buildings
- UCSC Budget is sustained and sustainable

Post-Earth Summit Progress

- Three sustainability ballot measures will be voted on by students in May 2009: Ballot measure 41 will provide funding to the Sustainability Office, 39 will support organic food and sustainable food systems in the dining halls at UCSC, 38 will redirect funds students already pay toward Renewable Energy Credits to support local energy offsets rather than offsets produced in Georgia.
- Advisory Committee on Facilities is changing its name to incorporate sustainable initiatives.
- The structure of the Blueprint for a Sustainable Campus is being redesigned to be more practical.
- UCSC campus sustainability definition is officially in the works
- UCSC's Climate Action Plan is up for public review until May 9, 2009. Comment at sustainability.ucsc.edu.

Long Range Campus Planning

Participants:

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Jono Kinkade (facilitator)	Alumnus	
Leah Blair (facilitator)	Student, eslp	
David	Student	
MacKenzie	Student	
John Barnes	Director of Campus	
	Planning	
Frank Zwart	Campus Architect	
Bryce Winter	Alumnus	
Jim Velzy	Director UCSC	
	Greenhouses	
Jenna Marx	Student	
Alyssa	Student	
Malia	Student	
Dylan	Student	
Jenna	Student	
Peter	Student	
Max	Student	

Missing potential participants:

Tree sitters, LRDP architects

Introduction to Participants

David – How the LRDP will affect water bills, the community and impact on rent. Further expansion means more students impacting the town of Santa Cruz. Resident of Santa Cruz and community representative.

McKenzie – student. I live here, breathe the air, which makes me qualified to speak to this issue.

John Barn – Director of Campus Planning. Very involved. Interested in participating in the discussions to all different views.

Frank – Campus architect. Worked here for years and have been developing on this campus.

Bryce Winter – Sierra Institute. Ecological health on all levels. Environmental growth stems, Mecca in Santa Cruz. Highly concerned about the LRDP Ecological health. The environmental health. Ever since I started being a conscious person on this earth

Jim Velzy – UCSC greenhouse. Staff. Support botanical gardens, research invasive weeds and helping facilitate projects. Seen a lot of buildings go up and want to help preserve the natural surrounding on this campus. There will always be a left liberal, where will they go.

Jenna – Facilator of nuclear heritage group. Similar path that the UC can take in the future.

HISTORY

3 new UC campuses built in the mid-1950's: Santa Cruz, Irvine, San Diego

In 1963 they planned for 27,500 students over 2000 acres by 1990 with 20-25 residential colleges and professional schools (including environmental sciences, forestry, and law). This was based on projections compared to Berkeley and UCLA.

The 1988-2003 LRDP was adjusted to predict for 15,000 students with a core of academic buildings. It anticipated growth in Northern campus that never occurred.

The Physical framework is to prepare for students of the future based on projections of growth. After the original 1950's projections there was a rise in ecological consciousness. This resulted in a shift to a focus on development for a small, undergraduate university.

CEQA, the California Environmental Quality Act, requires development projects submit documentation of their potential environmental impact. UCSC development is subject to this.

"Gentle be the hand that lay on the land" is a document that outlines the University's philosophy about growth. It outlines McHenry and Kerr's visions for a campus focused on environmental stewardship.

How do we manage change? Visions for the future may or may not accommodate what's to come. UCSC was built in 1965 when suburbia was the ideal. In planning we must account for new opportunities, rapid changes, external forces. Today healing of the environment and development are often at odds.

POINTS OF CONTENTION

Addressing polarization of the community. There are fundamental disagreements between developers and the community, the development model and those opposed to it, fundamental philosophical disagreements.

Language: "Development" "smart growth" "value of land" "private property" "mandate" "indigenous perspective" "longer long range perspective" "Dominion of Nature," the meaning of all of these terms is fundamentally different from the perspectives of students and those of administrators.

Humans' vs. Nature's will over land

There are disconnects and generational conflicts between students and the rest of the University (admin, staff, faculty)

Institutional changes/personal agency/experience; we are all part of the bureaucracy which detracts from all of our individual power in the system.

Continue student engagement; Students want input into the planning process, but lack of transparency of administrative processes and rapid student turnover rate makes that very difficult

What are priorities and defining qualities of the UCSC campus?

What is it that attracts students to UCSC instead of other campuses?

Carrot and the stick mentality of growth; UC is constantly trying to live up to an ever-increasing projection of expansion. When will UCSC reach capacity, or "maturity"?

CEQA is the primary process for regulating growth, but it is unwieldly and inaccessible to students or the average person.

COMMON GROUND:

Preserve forest ecosystem

Consider ecological and environmental impact

Student & community engagement are important for the planning and implementation process (sua.ucsc.edu/scoc, there are 84 campus committees that have student seats)

While the LRDP is the "envelope," each project takes into account its own ecological, budgetary, and community impacts

VISIONS/FUTURE CONSIDERATIONS

How campus expansion will affect disadvantaged communities

"Socially responsible" contracts with construction companies that do not benefit from war, prisons, dirty energy, and other such industries; or conflicts of interest (UC stakeholders having no financial stake in development)

More clear/informed communication of where we are at in growth process

If expanding state population warrants growth, what factors justify maintaining campus size? Integrity, sustainability, experience, budget, educational quality?

How do capital improvements affect the budget crisis? How does the budget crisis affect capital improvements?

Transparency in development process and how it affects academics/research; not only what buildings are being built, but what will be done in those buildings. How does the physical development correlate with the academic and research planning & development?

NEXT STEPS

Keep finding common ground

Minimize "destruction," replanting native plants, improving building standards and codes if needed

Restoration efforts with academic components

Maintain integrity and cultural atmosphere of this campus

Explore the possibility of restructuring the LRDP

Explore what the LRDP really means and how it will transform the campus

Outreach to the whole student body

Question what is really sustainable

Establish a process for dialogue (apart from mandatory CEQA hearings):

- -Support making the CEQA process more approachable to the community
- -Intergroup meetings to raise awareness (Possibly monthly)
- -Crossing the divides
- -Creation of an official student group
- -Study/working group
- -Functional communication
- -Creating a mechanism for University employees to discuss campus development and policies without repercussions
- -More focus on the campus climate in classes, furthering the sustainability mindset
- -Encourage staff/admin to continue clear dialogue

Social Justice

Participants:

Jasmin Vargas (facilitator)	jxvargas@ucsc.edu	Student, ESLP, Climate Action Intern
Jeff McClenahan	This.peace@gmail.com	Student, SEC
(facilitator)		
Eric Gabriel	eric@ucsc.edu	Community
Danna Berger	dlberger@ucsc.edu	Student, sustainability
		Office
Richard Snow	Snowrich2002@yahoo.com	Community

Community Groups Present: Waldorf Teacher/Activist, Vet for Peace, Santa Cruz Peace, UCSC Educational Opportunities Program Alum, Community Agroecology Network Alum, Sustainability Office, Student Environmental Center, Chancellor's Council on Climate Change

Missing potential participants:

Many people, especially those knowledgable about UCSC's social justice policies

Current Situation:

Attendees know little about official policies and the history of social justice at UCSC.

The 3 E's of Sustainability are Equity (related to equality), Economy, and Ecology

CAN promotes fair trade, shows a greater return to producers and a direct relationship between producers and consumers. CAN emphasizes visibility and transparency to create supply change and purchasing

UCSC needs a social justice assessment; Sustainable reporting would show impacts of UCSC on the world and our local community

AFSCME is working on jobs at UCSC, including treatment of workers and their benefits

UC invests directly in Bechtel (which owns reconstruction contracts for after the wars in Iraq and Afghanistan) and manages nuclear labs in Los Alamos and Livermore with Bechtel. UC also indirectly invests in corporations that support the occupation of Palestine. There is a lot to learn about this because of little transparency.

ESLP Spring 09 Environmental Justice through Activism Action Research Team is researching UC's world investments.

Opportunities:

SOCIAL JUSTICE "IN THE LOCAL"

- New model of living together emphasizing community, sharing, and cooperation
- Emitting less CO2 locally means promoting local community and social justice: chain stores reduce, local food and supply streams increase.
- Look at the full picture: how much organic produce is local?
- If UCSC made commitments to the Homeless Garden Project there could be great synergy by directly supporting local food, local economies, and people from our community

UCSC DEVELOPMENT

Growth and expansion as outlined in the 2005-2020 LRDP are social justice issues:

- -housing rental rates are rising for everyone
- -water cost is rising for the community because of UCSC's demand

This historical moment in UCSC's development gives the community the potential to change, to find solutions, to promote sustainable housing and transportation.

We should have town hall discussions across all different factions of community in Santa Cruz to make decisions as a community.

Hold a Community and UCSC summit to discuss interactions

There need to be mechanism to reevaluate and modify/change agreements that are made. Have an annual review of compacts, agreements and relationships and their social impact. These will include democratic, public, transparent reflection and adjustment of what works and doesn't. Indicators and outcomes in a compact need to be both quantitative and qualitative.

ECONOMIC PRACTICES

Responsible Purchasing/Investments/Contracting is equitable, ecological, and economically sound as well as accountable for externalities, ie: effects of outputs/waste practices.

We don't know how socially just the employers we are buying from are. Is there some kind of certifying body? There should be.

Purchasing transparency on who UCSC is buying from and forcing to show that information through Sustainability Reporting on purchases and impacts.

Purchasing should support our local community (social justice is local) through more sourcing of local products, this way the University shows a commitment to support those directly impacted.

This could require the creation of a certifying body with a questionnaire to ensure purchases are socially just and include public reporting to incorporate Social Justice along with transparency of investment. The products and businesses/corporations we're investing in must meet Social Justice Criteria.

Responsible Criteria (this should all be included in UCSC sustainability reporting like the Assessment):

- -Contracting: hiring diverse business, minority/local/women-owned. Promote the return of power to workers, return to community. There should be a questionnaire for potential contractors, or social justice.
- -Investment: Transparency in investment, where are the stocks going, and are they sustainable?
- -Purchasing: local (like organic food), from direct exchange and co-ops, ensure a greater return to workers/producers.

Currently UCSC supports Office Max instead of Palace, which is local. This is based strictly on price, not looking at all other factors like contributing to the community.

DISPARITY IN UNIVERSITY MANAGEMENT

UC President Yudoff makes \$940,000 per year while UCSC workers do not receive a living wage.

Regents are appointed and do not represent the desires of California

UC is a public trust, not private

There is a lot more troubling information on this subject.

STUDENT ACTIVISM

Demonization of certain acitivsts at UCSC is problematic.

Framing excludes some activists that are painted as extreme from the larger movement.

The community around us is negatively impacted by repressive elements of the establishment. Student and community activists are working against ICE raids, the defense budget, and other threats to social justice. Social justice awareness on campus is essential for more solidarity.

Social Justice activism and consciousness must be emphasized as something positive—making activism not a dirty word.

OTHER

Social Justice could be a factor in tenure.

Is equity the same as equality?

Social Justice should be more in the curriculum locally in Santa Cruz as well as at the University

Community Service requirement as part of our educational values

Incorporating K-12 engagement in social justice education and issues

Visions for the Future:

- A publicly and democratically decided definition of what social justice means.
- Social Justice Assessment with all campus relations 100% reported and transparent to the entire community, and a call to other universities to do the same
- UCSC commits to prioritize supporting local economy, whenever possible even at high monetary cost.
- UCSC accountable to the people, finally!
- Social justice is institutionalized
- UCSC empowering students, students empowering the community
- Student fees slashed, we have a free university!
- Workers have a living wage!
- Any company considered sustainable employs workers with a living wage- UCSC only does business with these companies
- Complete supply chain transparency
- UC works to benefit its community while nurturing community and student work
- UCSC finds a community network of with collective processes mutually beneficial
- UC divestment from nuclear labs and war profiteering
- UC leading the country in socially conscious practices
- UC supports diverse student activities
- 100% local purchasing at UCSC
- Social Justice incorporated in the curriculum across all majors of study
- Award winning ethnic studies department
- UC engages and commits to supporting K-12 Education and local underrepresented communities
- UC regents disbanded and are now democratically elected by students, staff, & faculty
- UCSC setting a model for other campuses
- UCSC holds its suppliers accountable to the community and students, not the bottomline

Post-Earth Summit Progress:

Environmental Justice through Activism ART is working on UC's investments, working with purchasing working group to get policy and criteria for socially responsible investing and purchasing into climate action plan. Main roadblocks are lack of transparency of the budget, etc. Now talking about a call for transparency in the climate action plan. Looking at other universities that have socially responsible investment policies. By the end of the quarter intend to finish writing criteria for socially just policies and what a transparent process will

look like. This would send a message to the chancellor and the regents that this is important to our whole community. Contact Jasmin Vargas for more information.

Transportation

Participants:

	•
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Community Groups Represented: CSU Monterey Bay Transportation, Santa Cruz Green Station, UCSC Environmental Studies, Public Transit Commuter, UCSC Transportation and Parking Services, UCSC Bike Class

Current Policies & Practices:

TAPS (Transportation and Parking Services) was formed in 1972 and has been working towards sustainability since the beginning. TAPS is not state funded; funding comes from student transit fees (which fund campus shuttles and bills for the Metro), parking fees, and other grant funding (regional, state, and federal) typically for transportation infrastructure and vehicles (transit, vanpools, signals, etc.). There is a newly formed Transportation Working Group under the Committee on Sustainability & Stewardship (contact Teresa Buika for more info) and an independent Bicycle Working Group (contact Paul Hempstead for more info). The Transportation Advisory Committee (TAC) advises on transportation policies and practices and has student, staff, and faculty seats.

Cars and carpooling: Parking is limited on campus. The Vanpool program has 250 participants over a large area. Zipcar is on campus and allows registered users to occupy a Zipcar for a fee. 40% of people coming to campus drive here alone. The numbers of vehicles entering campus is back down to the same number as in 1989, despite campus growth- this is great! 2003 was probably the peak for trip generation (the number of vehicles entering campus). Gas prices, interest in climate change, and full available alternatives are the reasons for these drops TAPS thinks. Trip generation is counted by cordons on the roads, number of people and people per vehicle entering campus is counted 1-2 times per year by volunteers.

Biking: From Spring 2008 (893 bike trips) to Fall 2008 (1898 bike trips) we had a 110% increase in bike trips in one quarter! TAPS is now focusing on bike safety. They have completed a bike plan and are hoping to do a pedestrian plan. TAPS is trying to put bike lanes on existing main roads but financial cost and physical space

are limitations. The 2005-2020 LRDP indicates many more bike lanes; the soonest built will be an uphill bike lane on Heller Drive. For education TAPS supports Ecology Action's bike safety classes through OPERS (Office of Physical Education, Recreation, and Sports), but they want to work more on it. Nick is a student biking through California, teaching people about bike safety issues. The bike shuttle is a free service.

Public Transportation: Trying to educate pedestrians on crosswalk etiquette and share walking maps so buses can travel more efficiently. This pedestrian education could be part of freshman and transfer student orientations. UCSC's Good Neighbors interns Susan Van Loon and Tyler Pitts compiled campus walking maps (Page 20 of Gaia Magazine Spring 2009 Issue 1). There are green house gas emission and other emissions regulations from the UC Office of the President's Sustainability Policy, and the California Air Resources Board's Public Fleet Rules. UCOP's policy mostly has to do with fuel consumption, and TAPS needs to eliminate older buses that are not compliant with these policies. TAPS is seeking funding for alternative transportation projects. The Climate Action Compact was signed in 2008 by Chancellor Blumenthal and committed UCSC to working with local agencies to collaborate towards regional reductions. TAPS is now working with Zipcar, the metro, and others.

Opportunities:

- Personal Rapid Transit: A few universities, including Ithaca, are looking at PRT. The Pod takes you directly to where you want to go. We all need it to reduce time on road, emissions, etc. PRT could cost millions, but could save more in the end; PRT is very energy efficient while maintaining roads is a huge expense and inefficient, heavy vehicles make no sense. Personal Rapid Transit might not work because of staffing, earthquakes, and connectivity issues. There is other research going on which might fit UCSC better, like electric buses, hopefully new technology will develop.
- Have Air resources as part of UCOP Sustainability policy
- House more students on campus, this will reduce trips between home and campus
- Create more community by increased interaction while walking and biking
- More Carpooling out of UCSC can be furthered by using the Zimride Facebook Application to connect carpoolers
- During summer orientation have more education for new students about alternative transportation (ie: Bike tours around sustainability, community outreach, and campus walking tours)
- Encourage connections among universities around sustainability education
- Relating sustainability to our education, life and society
- Ban cars
- Alternate transit loops are laid out in the LRDP will make traveling across campus more convenient
- A Gondola has been proposed to rise over Pogonip up to the university. This would have to be initiated by the City because that is their land.
- TAPS subsidizes the vanpool, but there is talk of cutting the subsidies to leave room for self-sufficiency
- Lowered health insurance because of the health benefits of biking is a financial incentive for everyone
- Community building through education
- Change class times so buses can accommodate; the Metro schedule is in sync with UCSCs MWF class times, bussing would be more efficient if Tu-Th classes were on the same schedule.
- Well-distributed walking maps would help people walk more, also more education

Visions for UCSC in 2020:

- People at UCSC have the healthiest body and mind due to its transit options
- No Cars on campus
- UCSC utilizes people power
- UCSC reaches zero emission
- Bike and pedestrian paths take over

- Peace & quiet among the redwoods
- Zero bike accidents
- Private Rapid Transit Model is a huge success
- The internal combustion engine is extinct at UCSC
- UCSC Transportation maintains a self sustaining budget
- City and UCSC find transportation solutions
- Health Center turns into bike-shop
- Walking facilitates communication and builds community
- Every first year student gets a bike, light, and helmet
- Students from UCSC School of Sustainable Engineering design transport systems and other technologies.
- UCSC Transportation runs on 100% renewable energy
- Climate Action Plan reaches goals ahead of schedule
- Trees take over the roads
- Parking lots are converted into gardens.
- Parking structure becomes new sustainability center

Post-Earth Summit Progress:

The Transportation Working Group (Co-chairs: Teresa Buika TAPS Senior Transportation Planner, Sarah Olsen 3rd year Environmental Studies student) is eager for more students, staff, and faculty to join them.

Waste Prevention

Participants:

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Missing potential participants:

Non-university employees – students ASCME union Freshman education Faculty

Current Policies & Practices:

Committee on Sustainability & Stewardship has a Landfill Waste Reduction Working Group. Their mission is to create, develop, and implement programs and strategies to reduce wastes generated by all aspects of UCSC operations.

Compost: From the 2008 Earth Summit topic group session UCSC started composting. In collaboration with Santa Cruz county UCSC has composted 51 tons, mostly pre-consumer products, since last August. Five dining halls, three coffee carts, and the University Center (Terra Fresca, etc) are participating in composting. College 8 now has a pulper for composting dining hall waste, and there are no trays at college dining halls which saves water from washing. Dining services and catering are starting the movement toward compostable utensils and zero waste events

Recycling: Recycling program has expanded and it now involves purchasing and education. UCSC has had a battery recycling program since Earth Day 2008.

Ecology Action has grant money for multifamily housing facilities waste recycling/prevention that can be used towards student housing at UCSC. Therefore UCSC and the dorms may receive funding for more recycling bins. Ecology Action also does special events recycling, like at the County Fair.

Reduction: Campus mail services is working with the physical plant on recycling, updating their mailing lists, and working towards getting campus off of mailing lists with catalogchoice.org.

There are many groups working towards waste reduction and prevention:

Recycling Office works towards collaboration and expansion of the 0 Landfill Working Group.

The Village & Kresge have composting in dorms and do outreach about it.

Students. Cowell RA's, for example bring their own cups/bowls to RA meetings, educate their residents, put up signs in the bathrooms saying to use paper towels wisely, an RA in Cowell's Turner Building has a worm bin.

Environmental Health & Safety has made a poster of waste recycling options in community

Multibins are the blue bins in all the college mailrooms that recycle things like cellphones, batteries, cds, ink cartridges and small electronics. Silas from UHS collects and sorts them.

Physical Plant provides recycling containers and tracks waste streams.

There is a demonstration solar powered trash compactor in the Quarry Plaza. Trash compactors make it so staff can empty trash less often. These are great for high-volume, low-weight trash. They also keep out pests, which prevents garbage leaving the cans.

EH&S has completed installation of 3 of 5 purchased solar powered trash compactors now located at Crown, College 8 and 9/10. Cowell and Porter will have the other 2 installed over the next year. There is biodegradable hydraulic fluid used for each, which also have a bin lifters for easy use. Dining Staff appreciate preventing injury with these machines.

Landfill Waste Reduction Working Group is moving towards having custodial grab recyclable paper that is going in the trash and put it in recycle bins

Recycling Office and Grounds Services have a pilot program to reduce volume of landfill cans on campus

Opportunities & Visions for the Future:

There is a need for a program at University Inn for recycling

Education for students, staff, and faculty

All departments and members of the University interact more efficiently, especially when they are working towards similar goals

Compost in offices

One garbage can per office

Recycling Program (educational as well as recycling bins and pick up) expansion to all areas of campus, especially academic

Volunteers, students as waste assessment auditors

Recycle co-op for move-out, also "dumpster cops" to regulate/educate about what doesn't need to go to the landfill

UCSC negative waste

Infectious student movement towards 0-waste behavior and mentality

Zero lab and hazardous waste on campus

Chancellor declares 0-waste to be the bottom line, "we don't waste here"

Recycling compactors all over

E-paper moves paper waste out; UCSC is a truly paperless campus

New Degrees in Waste Elimination

Student Body certified 0 waste

Cultural shift towards green purchasing reduces waste on campus

All waterless toilets

Green roofs

Cogeneration plant powered by trash

UCSC produces alternative energy

Campus surplus store is a great success reusing furniture, etc, over and over again

All packaging is compostable/recyclable

Consumer ideology is addressed in classes

Per capita consumption drops to all time low; quality of life at an all time high

Students reach consciousness—excludes consumption!

In-vessel compost

There are campus jobs in sustainability/waste reduction

UCSC is a place for everyone to learn to live with zero waste

No packaging in stores

We rebuild/reuse e-waste

UCSC lifestyle halts landfill use

Moveout donates directly to those in need

Campus wide swapmeet eliminates waste

Post-Earth Summit Progress:

The Landfill Waste Reduction Working Group (Co-chairs: Dave Wade, Recycling Coordinator and Desiree Goehner, 3rd year Environmental Studies major) meets monthly. There are several Subgroups of the Landfill Waste Reduction Working Group; purchasing, education, best practices, etc. These are the results of planning retreats in January. Working Group needs to meet more often, and the Zone coordinators need to be part of the working group as part of their job description.

There are going to be swapmeets for move-out at Merrill, Stevenson, and Cowell. Silas has put together a donation drive with Goodwill for move-out.

Dining is putting together a 0-Waste template for event planning.

Since the Earth Summit, Ecology Action has lost much of their funding from the state due to state budget cuts and the project to provide on-campus housing with recycling bins is no longer possible.

SEC Waste Reduction Campaign is selling stainless steel water bottles at cost for their Spring Project.

The Good Neighbor Initiative is researching a recycling and donation program for end of the year move out for students living off-campus. This is mostly at condos and apartment complexes in town.

Water

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Missing potential participants:

UCSC Farm, Aboretum, Residential colleges.

Current Policies & Practices:

- I. Current Water Use at UCSC
 - 95% from surface sources (ex. San Lorenzo River)
 - 5% from wells in Live Oak area
 - There is a pilot desalination plant at Long Marne Lab; a couple years old, doesn't produce much. Testing the process, filter efficiencies, etc. Probably will not use it much.
 - A. This is used in drought years by city of SC (once every 6 yrs); other years by Soquel Creek Water District
 - B. The relationship between the UC and Soquel Creek Water District is unclear
 - C. The desal plant uses a lot of energy, there are solar panels to offset
 - Personal water use on campus
 - A. Showers
 - B. Toilets: to have 2 flush system UCSC would have to replace all toilets
 - 1. Dual flush system coming soon in new buildings- there are a few in College 8
 - 2. There is a program to replace non-low flow toilets within the next 3 years through UHS facilities
 - Mitigation measures in the LRDP EIR (Environmental Impact Report)
 - A. All water uses in buildings (sinks, showers, etc) will be inventoried & mitigation techniques discussed
 - B. There is a reclaimed water study underway by PP&C
 - C. 25% of water used at UCSC is landscape irrigation

- 1. There is a central computer that controls irrigation for large primary areas based on the weather
- D. 50% of UCSC water use is residential
- PP&C has 19 high priority water projects committed to because of the budget. These can be found in the Meddause Assessment on UCSC water conservation.
- Greenhouses at UCSC
 - A. Drip irrigation system on clocks
 - B. Hydrozoning: things that need more water are grouped together; things that need less are grouped together
- UCSC's water protection policy (partly from LRDP, partly from other sources) for the campus addresses:
 - A. Prevent pollution of stormwater
 - B. Unofficial pathways cause erosion
 - 1. Unofficial bike path on west side of campus (thru natural preserve) may become official
 - C. Educate students; the LRDP mandates UHS educate about water conservation at all times
- Kresge has a Water Conservation Month, they focus on a pledge form with incentives. Chuck Perry started this.
- College Laundry machines contract is up so we will get more efficient machines, though ours are pretty efficient right now
- Removing trays from the dining halls has saved significant amounts of water because of less dishwashing cycles, though our dishwashers are highly efficient.
- UCSC has policies on using native plants for landscapes to reduce use of water for irrigation

Opportunities

- Shut down some bathrooms in classroom buildings to save energy & water
- Turn off hot water to save energy
- Broad education campaigns to inform UCSC community about water conservation programs/residential buy-ins
- Locate an actively used residential site to test conservation practices in real time with real students
- Continue water audits through the Green Campus auditing process
- Partnership with coastal watershed council to educate UCSC students and Santa Cruz youngsters on where their water comes from
- UCSC interns educate Santa Cruz youngsters on water conservation
- Encourage student interns to become involved in investigation of grey water system
- Collaboration across schools; UCSC and CSUMB work together
- Communication through e-mail because people do not have enough time to commit to a continuing working group
- Chancellors Advisory Committee on Water Conservation
- Look at models of past greywater use at UCSC and elsewhere

Visions for UCSC Water Management in 2020

- UCSC reuses 100% of their water
- UCSC installs breakthrough greywater system
- UCSC involved with watershed clean-ups around Santa Cruz

- Basins of relations comes of age; water conservation integrated in education system from a young age
- Every child knows where their water comes from
- Desalination plant out of commission- no longer necessary thanks to water conservation
- UCSC embarks on a major education campaign about water use
- Plastic Bottles go under, are illegal
- Facilities retrofit all water structures to best available technology
- Riparian restoration
- Tap water=Fountain of Youth
- Santa Cruz leads the way with purple and blue pipes (Purple for reused, blue for rainwater)("Purple People Pipers")
- Carbon Neutral Desal. Plant In Operation
- We share our space with salmon and other organisms that share our watershed
- 10% of Santa Cruz homes have cisterns for caught water
- "Basins of Relations; a citizens guide to protecting and restoring our watersheds" is written, published, and widely distributed
- Underground cisterns on campus for water storage
- Establish 60% drought tolerant plants over campus

Post-Earth Summit Progress:

Green Campus Program will work on a summer project to install aerators in sinks and low-flow shower heads in bathrooms (mostly dorms) across campus as part of the 19 projects in the Maddeuse Assessment

City of Santa Cruz has declared a stage 2 Water emergency. UCSC has made a commitment to water conservation, the Chancellor sent a campus-wide e-mail and opened a website: http://www.ucsc.edu/conserving_water. UHS has instituted a campaign about water conservation.

Dining services is required to be under stage 2 water conservation all the time, and conference services has a water conservation program as well.

Student Environmental Center Spring Waste Prevention campaign is selling stainless steel water bottles.

OPERS staff is instituting a water-saving campaign, Silas from UHS is consulting

UCSC Sustainability Acronym Glossary

ACF Advisory Committee on Facilities ACUPCC American Colleges and Universities Presidents' Climate Commitment AFSCME American Federation of State, County, and Municipal Employees ART Action Research Team ASCE American Society of Civil Engineers ASES American Solar Energy Society **Business Administrative Services** BAS BSAS Be Smart About Safety Chancellor's Committee on Climate Change C4 CAN Community Agroecology Network CASFS Center for Agroecology & Sustainable Food Systems CEQA California Environmental Quality Act Compact Fluorescent Lightbulbs CFL CRAFT Creatively Rethinking and Foundational Tools, 2-unit ESLP class Campus Sustainability Council CSC CSS Committee on Sustainability Stewardship CSSC California Student Sustainability Coalition CSU California State University Colleges and University Housing Services CUHS Chancellor Undergrad Internship Program CUIP EcoAct Ecology Action Education, Communication & Outreach for Sustainability ECOS EH&S Environmental Health and Safety **ENVS** Environmental Studies department/major EPEAT Electronic Product Environmental Assessment Tool ESLP Education for Sustainable Living Program E-Waste Electronic Waste FoCAN Friends of the Community Agroecology Network FSH Family Student Housing Food System Working Group FSWG GB Green Building GCP Green Campus Program General Education credit GE GMO Genetically Modified Organism Information Technology Services ITS LEED Leadership in Energy and Environmental Design -CI **Commerical Interiors** -EB **Existing Buildings** -NC **New Construction** LRDP Long Range Development Plan MBOFC Monterey Bay Organic Farmers' Consortium OPERS Office of Physical Education, Recreation, and Sports PG&E Pacifc Gas & Electric Company PICA Program in Community Agroecology PPA Power Purchase Agreement PP&C Physical Planning and Construction PPP Public Private Partnership PRT Personal Rapid Transit RA Residential Assistant

Student Environmental Center campaigns

SBCC

SC

SEC

Santa Barbara City College

Santa Cruz

SEED Sustainable Engineering and Ecological Design
SLC Sustainable Living Center
SO Sustainability Office
SOAR Student Organizations Advising & Resources

SOAR Student Organizations, Advising & Resources

SOS Students for Organic Solutions

STEPS Science, Technology, Engineering, Policy & Society

SUA Student Union Assembly

TAC Transportation Advisory Committee
TAPS Transportation and Parking Services

UCOP University of California Office of the President

UCSC University of California, Santa Cruz

UHS University Housing Services

USGBC United States Green Building Council

DISCLAIMER

Diverse groups of individuals with varying levels of knowledge and understanding of sustainability work being done on campus and in the community make up the Earth Summit Topic Groups. While the Blueprint Coordinator each year does their best to check facts and confirm the information in the Earth Summit notes that make up the Blueprint, there is no guarantee that the information presented here is 100% accurate. Also, while intended to be a resource for the UCSC administration, staff, students, and faculty, the Blueprint for a Sustainable Campus in no way represents campus policy.

Every topic entry contains contact information of participants and facilitators so that readers who are interested in what they learn about in the Blueprint can find out more for themselves. If you're having trouble getting in touch with anyone from the contact lists in the Blueprint, contact the Student Environmental Center Co-chairs or staff http://www.enviroslug.org/contact, or the Sustainability Office at sustain@ucsc.edu.

This 2009 Blueprint for a Sustainable Campus was compiled by Blueprint Coordinator Sophie Carrillo-Mandel. It was completed and released to the public on June 8, 2009.