2009 ~ A Year of Accomplishments

January:
- University Sustainability Coordinator position was established by President DeRosa who appointed Carol Brodie as the first University Sustainability Coordinator.

March:
- Residence for Earth & Environmental Living and Learning [REELL] conducted Water Awareness Week raising awareness and encouraging students to stop purchasing water in plastic bottles.

April:
- ASuop established the position of Sustainability Commissioner and Martha Valadez was appointed as the first Sustainability Commissioner.
- University “Sustaining our Pacific” web site was developed and goes on-line.
- Academic Council endorsed the charge and membership for the University Sustainability Committee.

May:
- President DeRosa appointed nine individuals to the University Sustainability Committee including students [two], faculty and staff representatives from each of the three campuses and all four University Divisions.

June:
- Dugoni School of Dentistry clinic implemented a paperless system of recordkeeping

August:
- Almost 900 Freshmen and Transfer students participated in the two-day Mountain Ocean Valley Experience [MOVE] and received reusable water bottles from ASuop and the Pacific Alumni Association.

September:
- Pacific joined the Association for the Advancement of Sustainability in Higher Education [AASHE].
- Construction began on the new Chambers Technology Center designed to meet LEED Silver or higher standard.
- Used battery disposal procedure was implemented by Physical Plant on the Stockton campus.

October:
- The Board of Regents approved a resolution requiring all new construction to meet LEED Silver certification standards (or equivalent).
- Pacific joined the United States Green Building Council [USGBC].

November:
- Sustainability Commitment/Policy statement endorsed by the Academic Council, Staff Advisory Council, and ASuop Senate.
- Sustainability is one of seven University-Wide University Learning Objectives approved by the Academic Council.

December:
- Don and Karen DeRosa University Center received official LEED Silver Certification.
Welcome

We are excited to present to you the first annual University Sustainability Report. The Report summarizes University sustainability policies and also itemizes the University’s educational and operational programs and initiatives on each of our three campuses. Because it is the first annual Sustainability Report, we have highlighted activities during 2009 and also included a list of sustainability and sustainability-related programs that have been ongoing for several years.

The University made significant progress in a number of areas during 2009. The position of University Coordinator was established in January, the University Sustainability Committee was appointed in May and ASuop established the position of Sustainability Commissioner. Three significant policies were put in place. The Board of Regents approved a resolution which will require all new buildings to meet LEED Silver standards, the Academic Council included sustainability as one of the seven University-wide Learning Objectives for all Pacific graduates, and a statement of commitment to sustainability was endorsed by the Staff Council, ASuop Senate, and the Academic Council. President Eibeck approved the statement as this Report was being completed.

Adding to the growing number of University sustainability curricular and co-curricular educational programs, the Department of Civil Engineering in the School of Engineering and Computer Science began offering students the opportunity to earn a minor in Sustainability in the fall semester of 2009. Thanks to the generous support of the Pacific Fund and the Division of Student life, almost 900 entering Freshmen and Transfer students participated in the two-day M.O.V.E. educational program, engaging in service projects and learning more about environmental issues in August before the start of fall semester.

During 2009 the University received notification that the Don and Karen DeRosa University Center had been LEED Silver certified and celebrated the ground breaking for the Chambers Technology Center which has been designed to meet, at a minimum, LEED Silver certification. The dental clinic at the Dugoni School of Dentistry implemented a paperless records system and on the Stockton campus a significant number of bicycle racks were installed. The Stockton campus continues to use non-potable water from the Calaveras River for irrigation, and require all waste leaving the campus to be sorted for recyclables before being taken to a land fill.

In 2010, with input from students, staff and faculty at each of the three campuses, we plan to develop a Three-Campus Sustainability Action Plan. We will also be working on implementing programs for students, faculty and staff which will focus greater attention on sustainable approaches.

We hope you find this report useful and informative. If you have questions about this report or information that should be included in next year’s report, please contact Carol Brodie at 946-7367

Members of the Sustainability Committee in 2009:
Carol Brodie, University Sustainability Coordinator
Eve Cuny, Dugoni School of Dentistry
Nicholas Griffen, ASuop Vice President
Scott Heaton, Director of Physical Plant
David Lambertson, McGeorge School of Law
Kelli Page, Alumni Relations
Gene Pearson, Earth & Environmental Sciences, Chair
Dan Shipp, Division of Student Life
Martha Valadez, ASuop Sustainability Commissioner
University Statement of Commitment
SUSTAINABILITY

Commitment
Responsible leadership requires individuals and organizations to carefully evaluate short- and long-term social, economic, and environmental impacts of decisions before acting. The University of the Pacific is committed to creating a campus culture that advances this approach for a sustainable future among all members of the Pacific community. The University will demonstrate this commitment through the use of sustainable practices in the conduct of all operations, as well as sustainability-focused educational programs, research, and outreach with our local communities.

To meet this commitment and ensure a high quality of life for ourselves and future generations, the University will implement the following proactive strategies to develop within the Pacific community an ethos of sustainable practice and an understanding of the complex inter-relationships between environmental, economic and social justice concerns.

Teaching, Learning, and Outreach
- Facilitating the development of innovative, multidisciplinary curricular and co-curricular programs to ensure that all Pacific graduates understand the interconnected nature of the social, economic, and environmental components of sustainability and sustainable decision-making.
- Encouraging students and faculty to advance our understanding of sustainability through scholarly activity and artistic expression by providing encouragement, financial support, and recognition.
- Engaging the Pacific community and its external constituencies through educational programs including scholarly and artistic activities that address sustainability practices and concerns at the local, regional, state, national, and global levels.

Stewardship and University Operations
- Supporting a culture that embraces sustainability by providing the Pacific community with guidance, information, educational programs, and best-practice modeling.
- Reducing consumption by using resources efficiently, employing cost-effective technologies and innovative approaches.
- Limiting potential air, water, and land pollution through effective waste management programs, reuse of materials when feasible, and reduction in the amount of waste produced.
- Ensuring that the University is meeting its commitment to sustainability through annual assessment of its programs and practices using established goals and metrics.

Policy Statement
In support of Pacific’s commitment to sustainability, all divisions of the University will use these practices and principles during strategic planning and development of programs, capital projects, and policies as well as ongoing day-to-day operations.

Endorsed by the Staff Advisory Council on November 6, 2009
Endorsed by the Academic Council on November 12, 2009
Endorsed by the ASuop Senate on November 23, 2009
Approved by the President on February 1, 2010
University Policies

Although the University had for several years implemented various programs and practices which address sustainability, the first University policies were approved during 2009. They included a formal resolution committing the University to green building and renovation standards, a University statement of commitment to sustainability, and approval of Learning Objectives and Outcomes for all Pacific graduates.

At their October meeting the University’s Board of Regents passed the following resolution regarding the University’s first green building policy.

UPON RECOMMENDATION OF THE FACILITIES COMMITTEE and after due consideration of the importance of having policies which promote sustainability to reduce reliance on non-renewable energy sources, the Board of Regents of the University of the Pacific hereby declares, as University policy, that as of January 1, 2010, the University will secure Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ “Silver” or its equivalent for all new buildings and to secure an estimate of the full cost to secure a LEED “Silver” (or its equivalent) for all proposed renovation projects costing at least $1 million and strive to meet this standard within project budget restraints.

During the summer, the members of the Sustainability Committee developed a draft University statement of commitment to sustainability. Between August and early October, members of the committee sought input by distributing the draft on E-News and posting it on the Sustainability website. In addition the draft document was presented to the Alumni Board, the Staff Advisory Council, the Academic Council, ASuop Senate, and Academic Council and was recently approved by President Eibeck.

As part of the upcoming WASC review process, the University developed a statement of University-wide Learning Objectives and Outcomes for all Pacific graduates. Under the leadership of Lou Matz, Associate Dean of the College of the Pacific, and Professor Bruce Peltier, Dugoni School of Dentistry, a statement was drafted, widely circulated, and discussed by each of the academic units of the University. In November the Academic Council formally approved the seven University-wide Learning Objectives and Outcomes, including sustainability:

Sustainability:
1. Identify the interconnectedness between humans and their natural environment.
2. Evaluate the social, economic, and environmental consequences of individual and group actions.
3. Engage in responsible environmental action.

In September the Institutional Priorities Committee added three sustainability-related action goals to the 20 Strategic Directions in the University’s Strategic Action Plan. They included:

11.5. Increase global responsibility
19.8. Ensure more efficient use of energy and other resources through staff and student education and targeted purchasing and use policies.
20.5. Develop guidelines for new construction and major building renovation projects to reduce life-cycle resource and energy costs.
University Coordination/Oversight

In January, 2009 a University Sustainability Coordinator position was established by President DeRosa. Carol Brodie, Research and Compliance Manager in the Office of Sponsored Programs, was appointed as the first Sustainability Coordinator as 25% of her workload. In her role as Sustainability Coordinator, Carol conducted an assessment of sustainability practices [STARS], obtained funding and supervised a student intern who is conducting a carbon footprint of the Stockton campus, and serves on the University Sustainability Committee.

Addressing what they also saw as a needed position, the ASuop Senate established the position of ASuop Sustainability Commissioner. Martha Valadez was appointed as the first Sustainability Commissioner. Martha brought together leaders from a several student group to form a Sustainability Coalition. During the fall semester Martha met with coalition members regularly, in addition to serving on the University Sustainability Committee and advising the ASuop Senate.

In April, 2009, Provost Phil Gilbertson, presented the Academic Council with a proposed charge and membership for a University Sustainability Committee. The Sustainability Committee is an administrative standing committee with faculty membership and charged to advise the President on the development of sustainability strategies and policies across the University.

The Sustainability Committee will:
1. advise on establishing and integrating sustainability strategies across the institution;
2. recommend policy, institutional goals and resource allocation;
3. monitor related indicators and progress through assessment and benchmarking activities; and
4. encourage the alignment and expansion of education practices, teaching and learning, scholarship, and co-curricular activities.

The Committee membership consists of at least two faculty members nominated by the Academic Council, two students nominated by ASUOP, a representative of each of the divisions, a representative from the Sacramento and San Francisco campuses (may overlap above positions), and the Sustainability Coordinator (ex officio, voting), not to exceed 12 members.

Endorsed by the Academic Council, President DeRosa, established the committee and appointed nine individuals to serve on the committee in May. The nine members collectively represent students, alumni, faculty, staff, the three campuses, and the four divisions of the University. During 2009, the committee drafted, circulated, and revised a University statement of commitment to sustainability which was endorsed by the Academic Council, Staff Advisory Council and ASuop Senate. The committee compiled the list of sustainable programs and practices which is contained in this report and also recommended to the University administration that a policy of purchasing only Energy Star rated appliances be implemented.

During 2009 the University demonstrated its commitment to join with other institutions in advancing sustainability by joining the Association for the Advancement of Sustainability in Higher Education [AASHE] and the United States Green Building Council [USGBC]. Monies to cover membership in AASHE were provided by the Office of the President. The Vice President for Business and Finance provided the monies for the membership in USGBC.
Assessment
In January 2009 President DeRosa appointed the university’s first Sustainability Coordinator. The primary task for that individual was to be to conduct a sustainability inventory of all three campuses: Stockton, Sacramento and San Francisco.

For the inventory, the Sustainability Tracking, Assessment & Rating System (STARS 0.5) instrument from the Association for the Advancement of Sustainability in Higher Education (AASHE) was chosen. It is a comprehensive instrument that looks at the areas of Education and Research, Operations, and Administration & Finance. Carol Brodie, Sustainability Coordinator, oversaw the collection of data – with the assistance of many individuals including Larry Brehm, Scott Heaton, Neil Kingston, David Lambertson, Michael Rogers, and Dan Shipp.

STARS is a voluntary, self-reporting framework for recognizing and gauging relative progress toward sustainability by colleges and universities. It was designed to:

• Provide a guide for advancing sustainability in all sectors of higher education.
• Enable meaningful comparisons over time and across institutions by establishing a common standard of measurement.
• Create incentives for continual improvement toward sustainability.
• Facilitate collaboration and information sharing about higher education sustainability practices and performance.
• Recognize sustainability achievements for all institutions.

During the summer of 2009 student Chris Brown conducted a Greenhouse Gas study for the Stockton campus. Following that, in the Fall of 2009, Pacific hired Sightlines LLC to conduct an additional survey of the Stockton campus, in particular the energy data that would be required if Pacific were to set a Greenhouse Gas reduction strategy, such as the American College and University President’s Climate Commitment (ACUPCC). The three surveys provide a comprehensive picture of Pacific’s environmental sustainability status.

Education – Curricular Programs
During 2009 the University Academic Council approved Sustainability as one of the seven University-wide Learning Objectives and Outcomes. Students will meet the Sustainability learning outcomes in a number of different ways including participation in the programs currently offered by the University.

In 2009 one new curricular program was added to the sustainability-related curricular programs of the University when the Department of Civil Engineering in the School of Engineering & Computer Science instituted a new minor in Sustainability. To complete the minor students complete 20 units of sustainability-related course work including two core courses: Sustainable Engineering, and Systems and Engineering Management.

To complete the unit requirement students can select from courses such as Solar Energy Engineering, Development, Modernization and Cultural Change, Water and Environmental Policy, and Environmental and Natural Resource Economics.

For many years all entering Freshmen are required to complete Pacific Seminar 1 and Pacific Seminar 2 during their first year at Pacific. Under the Direction of Lou Matz, Associate Dean of the College of the Pacific and Director of General Education, both of these seminar courses provide opportunities for students to address sustainability-related issues. Pacific Seminar 1 “What is a Good Society” includes a number of topics including the rights and responsibilities of citizens, and the place of humans in the natural world. Hence, Pacific students are introduced to some
of the components of sustainability in their first semester.

Pacific Seminar 2 is a topical course where students take an in-depth look at one or two of the topics covered in Pacific Seminar I. In the Spring Semester 2010 eight of the forty three sections focus on topics relating to sustainability including: Its Not Easy Being Green, Energy and Climate Change, A Sustainable Future?, People, Planet and Profit, and Gaia’s Got a Fever.

Since 1994 students interested in sustainability issues have had the opportunity to complete the interdisciplinary Environmental Studies major. The major, administered by the Department of Earth & Environmental Sciences in the College of the Pacific, requires students to complete a concentration in policy, biosciences or geosciences, and also take courses in ethics, economics, global studies and civil engineering including: Environmental Science: Informed Citizens, Environmental Ethics, John Muir’s World, Global Environmental Policy, Environmental and Natural Resource Economics, and Water and Environmental Policy.

Students wishing to pursue a more science-based approach to environmental and sustainability issues have been able to earn a Bachelor of Science degree with a major in Environmental Sciences since 2006. Housed in the Department of Earth & Environmental Sciences of the College of the Pacific, the major requires students to complete coursework in biology, chemistry and earth science as well as policy and humanities coursework dealing with environmental issues.

Established in 2006 the Global Center for Social Entrepreneurship in the School of International Studies has a mission which includes creating “a whole new generation of solution-minded pragmatists that are pioneering practical, inventive, and sustainable approaches to address the world’s most pressing social issues: poverty, disease, malnutrition, environmental degradation, injustice and illiteracy.”

To prepare attorneys to deal with regional and international water policy and water rights, the McGeorge School of Law recently established the L.L.M and J.S.D programs in International Water Resource Law.


The McGeorge School of Law study abroad program at the University of Salzburg includes the sustainability-related course Fundamental Human Rights in Europe and the United States. This program also offers the sustainability-focused course International Environmental Law, although the course is not offered every year. Beginning the 2008-09 year, McGeorge offered a study abroad program in Guatemala. The program consists of several externships with NGOs, most of which focus on environmental justice and human rights.

On the Stockton campus, sustainability or sustainability-related courses are offered in the departments of Biological Sciences, Civil Engineering, Curriculum and Instruction, Earth & Environmental Sciences, Economics, History, Philosophy, Political Science, and Sociology.

Education - Co-Curricular Programs
Thanks to the support of the Division of Student Life and the Pacific Fund, almost nine hundred entering Freshmen and Transfer students participated in the two-day Mountain, Ocean, Valley Experience M.O.V.E. the weekend before classes at the
end of August. Under the direction of Wendy Stratton, Director of Recreation, entering students chose participate in service projects and also reflected on environmental and social justice issues at a variety of locations including, the Yosemite Valley, Marin Headlands, Mount Diablo State Park, American River, Calaveras River and Stockton community locations. Thanks to the generosity of the Pacific Alumni Association and ASuop each of the participating students received a metal M.O.V.E. water bottle

Funded by a National Science Foundation grant, the Residence for Earth & Environmental Living and Learning [REELL] was established in the fall of 2008 and has been collaboratively directed by Drs. Laura Rademacher and Kurtis Burmeister, faculty members in the Department of Earth & Environmental Sciences in the College of the Pacific, and Steve Jacobson, Associate Vice President for Student Life. In April of 2009 the first REELL community planned and implemented a Water Week program which included water taste tests and encouraged members of the Stockton campus community to sign a pledge to forgo using bottled water. Twenty-five students in the 2009-2010 REELL community are planning to educate the Stockton campus on the adverse impact of plastic bags.

Several student groups have been actively involved with sustainability issues for several years. They include the Students for Environmental Action [SEA] on the Stockton campus and the Environmental Law Society, Pacific McGeorge Student Bar Association Sustainability Committee and the Pacific McGeorge Property/Land Use Club. In the Spring of 2009 the ASuop Senate established the position of Sustainability Commissioner. Martha Valadez ASuop Sustainability Commissioner, has been coordinating efforts of the Stockton campus student groups as part of a Sustainability Coalition.

During the 2008-2009 academic year a competition was held between two Greek houses to reduce electricity usage. It was funded by a Faculty Research Committee Scholarly/Artistic Activity Grant.

Pacific students on the Stockton campus will participate in national RecycleMania Program during the spring semester of 2010.

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**Education – Research Programs**

Sixteen faculty from eight different departments on the Stockton campus and six faculty on the McGeorge campus are involved in sustainability related research.

There has been an upward trend in sustainability research funding from external sources over the past 3 years. In 2007/08, $2,061,000 was received for sustainability research [14.2% of all external funding].

Externally funded, sustainability-related research includes water-quality studies in the San Joaquin Delta and local water drainages conducted by Gary Litton, Professor of Civil Engineering in the School of Engineering & Computer Science and Will Stringfellow, Director of the Ecological Research Engineering Program, and materials research on Sialite being conducted by faculty in the Pacific Resources Research Center in the School of Engineering & Computer Science.

There has also been an upward trend in sustainability research funding from internal sources over the past 3 years. In 2007/08 $23,565 [ 29%, of internal research dollars under purview of the Office of Sponsored Programs] were spent on sustainability being conducted by faculty in the departments of Biological Sciences, Civil Engineering, Earth & Environmental Sciences, History, Modern Languages & Literature, and Visual Arts.
Education – Outreach Programs
Staff in the Division of Student Life developed content and layout for the “Sustaining Our Pacific” website. The website http://www.pacific.edu/x29332.xml, which has an link on the University’s home page, is now managed by Carol Brodie, Sustainability Coordinator. The site provides information on sustainability practices, initiatives, and events on the three Pacific campuses.

The School of Engineering & Computer Sciences and the U.S. Army Engineer Research and Development Center (ERDC) Construction Engineering Research Laboratory (CERL) hosted a conference on “Fiber Reinforced Polymer (FRP) Composites for Infrastructure Applications” focusing on Innovation, Technology Implementation and Sustainability in San Francisco, California November 4 - 6, 2009.

The Institute for Sustainable Development at McGeorge School of Law hosts international conferences and produces publications on sustainability-related issues. There is at least one event or publication per year, although not necessarily per semester. The Institute is administered by Professor Gregory Webber.

The John Muir Center is directed by Bill Swagerty, Professor of History in the College of the Pacific. The Center promotes the study of John Muir and environmentalism and hosts Conferences which focus on John Muir’s legacy and environmental issues.

The Pacific Natural Resources Institute is directed by Margit Aramburu, Visiting Associate Professor in the School of Engineering and Computer Science. Designed to serve as a neutral forum for debate of critical, and controversial, natural resources issues, the Institute regularly hosts programs on water and other environmental issues of importance to the communities in central California.

Operations – Resource Use and Disposal
Resource Use – Small Appliances
The Sustainability Committee has recommended that the University establish a policy of only purchasing EnergyStar or equivalent equipment.

Resource Use – Paper
The Arthur A. Dugoni School of Dentistry has launched a new paperless clinic information system called AxiUm. The system will facilitate centralized billing, insurance processing, collections and cashiering. AxiUm will improve collaboration among faculty, students and other dental schools for the school’s research initiatives. Students and faculty are able to search a large patient health history database and a large pharmaceutical formulary to identify trends.

Resource Use - Transportation
OIT has implemented technologies that support users to telecommute from home. The technology involved to support telecommuting is Voice over Internet Protocol and Virtual Private Networking. These technologies allow the user to work from anywhere in the world as if they were sitting at their desk on the campus. Several departments are utilizing this technology. Pacific has a Telecommute Policy to support this activity. The number of telecommuters for the entire campus is unknown. OIT currently has 9 staff that telecommutes 1 to 2 days per week. This saves an estimated 22,000 miles per year in greenhouse gas emissions and gas consumption.

The campus encourages alternative modes of transportation. In the fall of 2009 Human Resources held a Rideshare Week, with Rideshare Pledge cards and rideshare registration. This was conducted in conjunction with Commute Connection of San Joaquin County.
Student Life and Physical Plant have developed a bicycle rental program. Each year, more bikes are added to the program. Presently, 10 bikes are being rented. The Sacramento Campus owns 10 bikes that are loaned to international students during the school year. There is no charge to the student for this program. In 2008 and 2009, 130 bicycle parking spaces have been added on the Stockton campus. This includes 22 by the swimming pool, 50 near Grace Covell, and nearly 30 by instructional buildings.

In the fall, three Mail Services electric carts were converted to solar energy by adding stick-on panels to reduce the amount of electricity needed for battery charging. Additionally an old propane forklift has been replaced by a battery model.

**Green Cleaning**

All cleaning on the Stockton campus is done by green methods and green materials. The cleaning products include those that are certified to contain lower or insignificant amounts of toxic or hazardous chemicals and have reduced or minimal adverse environmental impacts.

**Food – Bon Appetit**

Campus dining services at Pacific has been selected as one of eight institutions in the nation to participate at the leadership level of their *Farm to Fork program*, promoting seasonal foods purchased from local markets and using recycled materials for disposable serving ware. Students are currently exploring the possibility of an on-campus composting program to reduce food waste.

The contracted provider, Bon Appetit, provides locally grown fruits, vegetables, milk and meat. The bread, baked goods and yogurt served are all processed locally. Some of the meats served and all of the fruits and vegetables are organic. 100% of the eggs used are cage –free, 100% of the beef and poultry are hormone- and antibiotic-free. Monterey Bay Aquarium Seafood Watch guidelines are followed for fish and seafood.

Customers who bring a reusable cup to the dining services facilities receive a discount.

**Recycling**

It is estimated that over 70% of the Stockton campus trash is recycled or diverted. In addition, there are 125 recycle totes at strategic locations, plus cardboard dumpsters behind the kitchens and at Physical Plant. Additionally, 100% of green waste is recycled, and at least 50% of non-hazardous construction waste (e.g., wood, metal, concrete) is recycled.

At the School of Dentistry, an average of 22% of the waste is recycled. However, that is about to change. An active composting program is being started, and the campus café is completely eliminating plastics from their waste stream, replacing them with compostable utensils, plates, etc. A one-yard container now used for waste is being converted to recycling. Additionally, trash cans under desks are being replaced with recycling containers with a small waste receptacle attached.

**Equipment Reuse**

Pacific also has a very strong surplus program. Usable items – computer equipment, furniture, etc. – that are no longer needed are held in a surplus inventory, and the university sends out regular e-notices about the items available. They are first offered to the campus, and then to charities. Additionally, at the end of every semester when students move out of the dorms the Housing and Physical Plant Departments collect students’ leftovers and donate them to charity.
Waste Disposal and Reduction
A battery recycling program was begun in 2009 in both Stockton and Sacramento. The program allows employees to send their batteries to Mail Services for collection and recycling.

All three campuses have comprehensive recycling programs for university-owned electronics. During the 08/09 fiscal year, the Stockton campus recycled over 42,000 pounds of these materials.

On the Stockton campus, employees can save waste paper that requires shredding for Mail Services to pick up. Mail Services then shreds and recycles the paper. On the Sacramento campus, employees can save waste paper that requires shredding for Buildings and Grounds to pick up. Buildings and grounds then shreds and recycles the paper.

To aid in reducing the use of plastic water bottles, Physical Plant installed an Hydration Station at Baun Fitness Center for filling reusable water bottles. The station has a sensor for hands-free operation, and provides filtered water

Operations – Infrastructure
New Construction & Building Renovation
All future buildings and building renovations that cost more than $1 million at University of the Pacific will be green. The University’s Board of Regents approved the new policy at their fall meeting in October. The new green building policy took effect January 1, 2010.

The policy calls for new buildings to meet Leadership in Energy and Environmental Design (LEED) “Silver”-level certification requirements. Pacific will also secure a cost estimate for LEED certification or equivalent of all renovation projects costing more than $1 million.

The old Office of Information Technology Building was removed to provide a site for the Chambers Technology Center. This was done to reserve a maximum amount of green space to the east. Physical Plant removed three efficient HVAC units and relocated these to the Psy/Com Building to replace three old inefficient HVAC units. Fourteen florescent lighting fixtures were removed and installed in the new Sialite Building. Numerous electrical panels, lock sets and other items were reused or stored for re-use in other buildings. After these items were removed and re-used, a demolition contractor removed the remainder of the building and recycled approximately 84% of the waste. Overall, we estimate approximately 87% of the building was recycled.

The Chambers Technology Center has been designed to meet LEED Silver or higher.

Energy Use
The following charts indicate the Stockton campus’ historical natural gas and electricity usage.

In the 1980s Pacific instituted the summer hours program to avoid air conditioning and other electrical uses in the summer afternoons when that power is very costly and when they
must start the very air polluting “peak” electrical plants.” We avoid 104 such peak hours each year when PGE applies the peak demand charges, and electricity is in short supply.

In the fall, three Mail Services electric carts were converted to solar energy by adding stick-on panels to reduce the amount of electricity needed for battery charging. Additionally an old propane forklift has been replaced by a battery model.

In 2009 several hundred thousand dollars were spent on energy reduction projects, continuing Physical Plant’s efforts to reduce Pacific’s environmental footprint.

Water Use
At the School of Dentistry in San Francisco, water usage averages 500 units per month, a unit being 748 gallons.

On all three campuses, water saving devices such as auto flush toilets and urinals, motion sensing faucets, low flow aerators continue to be installed.

In 2008, Pacific installed a new computerized campus irrigation control system on its Stockton campus, which is projected to help reduce water use by 30% annually. In addition, nearly 80% of Pacific’s non-potable irrigation water comes from the Calaveras River.

Findings and 2010 Goals
Because of the commitment of many dedicated faculty, staff and students on all three campuses, Pacific has made great strides towards becoming a sustainable university. Even before 2009, many individuals were doing their best to include sustainability in their teaching, business practices, and activities. The STARS assessment found evidence of those efforts, and we realized that we had an excellent base from which to begin the process of formalizing the University’s commitment to the principles of sustainability.

The University made significant progress in 2009. And as we look forward to 2010, the Sustainability Committee has set the following goals we hope to achieve this year:

- Develop a strategic action plan, based on recommendations from four working groups: Curriculum and Research, Co-Curricular Activities, Resources, and Infrastructure.
- Encourage greater awareness of sustainability on all three campuses.
- Implement policies and procedures that further sustainability, such as in the areas of resource use and reduction.
- Set in place a mechanism for ongoing assessments, and extend the Greenhouse Gas Inventory process to the Sacramento and San Francisco campuses.

Working together towards a sustainable Pacific is a “community” effort, needing input from everyone. And so, members of the university community are encouraged to express their thoughts and ideas to the Sustainability Committee. We look forward to hearing from you!