

American College & University Presidents' Climate Commitment:

Chancellor's Executive Council

Findings and Recommendations 2009



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American College & University Presidents' Climate Commitment

**Chancellor's Executive Council:
Findings and Recommendations 2009**





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Friends of Maricopa:

Greetings!

On behalf of the Maricopa Community College District, on Wednesday, February 17, 2010, I signed the American College and University Presidents' Climate Commitment (ACUPCC). My action reflects a strong pledge by Maricopa employees to the goals and responsibilities of the Climate Commitment and sustainability. This action also aligns with our Governing Board's December 2008 adoption of a resolution affirming Maricopa's commitment to sustainability.

Adopting the Triple Bottom Line means we make decisions and take actions within the context of sustainability related to environmental responsibility, social justice and equity and economic viability. Across the district, colleges and district work teams are making laudable progress toward such important goals as reducing our carbon footprint, creating curriculum that informs and engages students in important discussions, and collaborating with our community partners toward mutual and forward-learning benefit.

This report provides a glimpse of the study that resulted in my decision to sign the Climate Commitment. We have accomplished much and we have much to do. My thanks to the members of the Chancellor's Executive Council Task Force, and to the many Maricopa employees who continue to make sustainability an important part of their work and service.

I know you will find this 'good reading.'

Rufus Glasper, Ph.D., CPA
Chancellor

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A Community of Colleges...Colleges for the Community

| Chandler-Gilbert | Estrella Mountain | GateWay | Glendale | Mesa |
| Paradise Valley | Phoenix College | Rio Salado | Scottsdale | South Mountain | Skill Centers |



AMERICAN COLLEGE & UNIVERSITY PRESIDENTS' CLIMATE COMMITMENT

American College & University Presidents Climate Commitment

We, the undersigned presidents and chancellors of colleges and universities, are deeply concerned about the unprecedented scale and speed of global warming and its potential for large-scale, adverse health, social, economic and ecological effects. We recognize the scientific consensus that global warming is real and is largely being caused by humans. We further recognize the need to reduce the global emission of greenhouse gases by 80% by mid-century at the latest, in order to avert the worst impacts of global warming and to reestablish the more stable climatic conditions that have made human progress over the last 10,000 years possible.

While we understand that there might be short-term challenges associated with this effort, we believe that there will be great short-, medium-, and long-term economic, health, social and environmental benefits, including achieving energy independence for the U.S. as quickly as possible.

We believe colleges and universities must exercise leadership in their communities and throughout society by modeling ways to minimize global warming emissions, and by providing the knowledge and the educated graduates to achieve climate neutrality. Campuses that address the climate challenge by reducing global warming emissions and by integrating sustainability into their curriculum will better serve their students and meet their social mandate to help create a thriving, ethical and civil society. These colleges and universities will be providing students with the knowledge and skills needed to address the critical, systemic challenges faced by the world in this new century and enable them to benefit from the economic opportunities that will arise as a result of solutions they develop.

We further believe that colleges and universities that exert leadership in addressing climate change will stabilize and reduce their long-term energy costs, attract excellent students and faculty, attract new sources of funding, and increase the support of alumni and local communities.

Accordingly, we commit our institutions to taking the following steps in pursuit of climate neutrality:

1. Initiate the development of a comprehensive plan to achieve climate neutrality as soon as possible.
 - a. Within two months of signing this document, create institutional structures to guide the development and implementation of the plan.
 - b. Within one year of signing this document, complete a comprehensive inventory of all greenhouse gas emissions (including emissions from electricity, heating, commuting, and air travel) and update the inventory every other year thereafter.
 - c. Within two years of signing this document, develop an institutional action plan for becoming climate neutral, which will include:
 - i. A target date for achieving climate neutrality as soon as possible.
 - ii. Interim targets for goals and actions that will lead to climate neutrality.
 - iii. Actions to make climate neutrality and sustainability a part of the curriculum and other educational experience for all students.
 - iv. Actions to expand research or other efforts necessary to achieve climate neutrality.
 - v. Mechanisms for tracking progress on goals and actions.

(continued...)

2. Initiate two or more of the following tangible actions to reduce greenhouse gases while the more comprehensive plan is being developed.
 - a. Establish a policy that all new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent.
 - b. Adopt an energy-efficient appliance purchasing policy requiring purchase of ENERGY STAR certified products in all areas for which such ratings exist.
 - c. Establish a policy of offsetting all greenhouse gas emissions generated by air travel paid for by our institution.
 - d. Encourage use of and provide access to public transportation for all faculty, staff, students and visitors at our institution.
 - e. Within one year of signing this document, begin purchasing or producing at least 15% of our institution's electricity consumption from renewable sources.
 - f. Establish a policy or a committee that supports climate and sustainability shareholder proposals at companies where our institution's endowment is invested.
 - g. Participate in the Waste Minimization component of the national RecycleMania competition, and adopt 3 or more associated measures to reduce waste.
3. Make the action plan, inventory, and periodic progress reports publicly available by providing them to the Association for the Advancement of Sustainability in Higher Education (AASHE) for posting and dissemination.

In recognition of the need to build support for this effort among college and university administrations across America, we will encourage other presidents to join this effort and become signatories to this commitment.

Signed,



President/Chancellor Signature

Dr. Rufus Glasper

President/Chancellor Name

Maricopa County Community College District

College or University

February 17, 2010

Date

Please send the signed commitment document to:

Presidents' Climate Commitment
c/o Second Nature
18 Tremont St., Suite 1120
Boston, MA 02108

or fax to: 320-451-1612
or scan & email to: ACUPCC@secondnature.org

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ACKNOWLEDGEMENT

Thank you to those who contributed to the MCCCDC College Inventories. Individual college surveys were completed by campus representatives comprised of Trina Larson – Chandler Gilbert Community College; Christina Flora – Rio Salado College; Janet Langley – Gateway Community College; Sue Tavakoli – Estrella Mountain Community College; – Janet O Felton Ed. D. – Mesa Community College; Ronnie Elliott – Phoenix College; Jacalyn Askin – Paradise Valley Community College; Thomas Williams – Scottsdale Community College; Charles F. Jeffrey – Glendale Community College; and Lorrie Shelton – South Mountain Community College.

Chancellors Executive Council Taskforce on Sustainability

Members:

Lionel Diaz	Associate Vice Chancellor Capital Planning & Special Projects, District Office
Jan Gehler	President, Scottsdale Community College
Linda Lujan	Interim President, Chandler Gilbert Community College
Maria Hesse	Past President, Chandler Gilbert Community College
Pushpa Ramakrishna	Biology Faculty, Chandler Gilbert Community College
Donna Schober	Executive Assistant to the Chancellor, District Office
Todd Simmons	Vice President Administrative Services, Rio Salado College
Linda Thor	President, Rio Salado College
Thomas Williams	Sustainability Coordinator, Scottsdale Community College

Chancellors Executive Council Members:

Chancellor:

Dr. Rufus Glasper

Vice Chancellors:

Dr. Maria Harper-Marinick – Academic & Student Affairs
Debra Thompson – Business Services
Dr. Phillip D. Randolph – Human Resources
Darrel Huish – Information Technology Services
Dr. Steven Helfgot – Resource Dev.& Community Relations
President & CEO, Maricopa Colleges Foundation

College Presidents:

Dr. Linda Lujan – Chandler Gilbert Community College (interim)
Dr. Ernie Lara – Estrella Mountain Community College
Dr. Eugene Giovannini – Gateway Community College
Dr. Velvie Green – Glendale Community College
Dr. Shouan Pan – Mesa Community College
Dr. Paul Dale – Paradise Valley Community College (interim)
Dr. Anna Solley – Phoenix College
Dr. Chris Bustamante – Rio Salado College (interim)
Dr. Jan L. Gehler – Scottsdale Community College
Dr. Kenneth Atwater – South Mountain Community College

DEFINITIONS

AASHE - The Association for the Advancement of Sustainability in Higher Education

AASHE is an association of colleges and universities that are working to create a sustainable future. The mission is to empower higher education to lead the sustainability transformation. This is done by providing resources, professional development, and a network of support to enable institutions of higher education to model and advance sustainability in everything they do, from governance and operations to education and research.

Retrieved from <http://www.aashe.org>

ACUPCC - The American College & University Presidents' Climate Commitment

"The ACUPCC provides a framework and support for America's colleges and universities to implement comprehensive plans in pursuit of climate neutrality"

Retrieved from <http://www.presidentsclimatecommitment.org>

CEC - Chancellors Executive Council

Members of the CEC carry out the policies of the Governing Board, perform the duties assigned to them by the Chancellor, and perform such duties and responsibilities with professional skill in order to ensure wise utilization of the Maricopa County Community College District resources for the implementation of the educational program. Members of the Chancellor's Executive Council report to the Chancellor.

LEED - Leadership in Energy and Environmental Design

LEED is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO₂ emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts. The LEED Certification reflects four qualitative levels based on LEED Certified, LEED Silver, LEED Gold and LEED Platinum.

MCCCD - Maricopa County Community College District

The Maricopa Community College District is one of the largest community college districts in the nation. It includes 10 colleges - Chandler-Gilbert Community College, Estrella Mountain Community College, GateWay Community College, Glendale Community College, Mesa Community College, Paradise Valley Community College, Phoenix College, Rio Salado College, Scottsdale Community College and South Mountain Community College. The District also includes the Maricopa Skill Center, SouthWest Skill Center, several satellite campuses and business, technical and customized training institutes and serves more than a quarter million students annually. The Maricopa Community Colleges employ 7,935 employees and offer approximately 1,000 occupational programs (degrees and certificates) and 37 academic associate degrees, for a total of 10,254 courses.

PCC - Presidents Climate Commitment

(Abbreviation of ACUPCC)

Sustainability

For purposes of this report, authors use the 1987 Brundtland Commission definition.

"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs. It contains within it two key concepts:

- the concept of 'needs', in particular the essential needs of the world's poor, to which overriding priority should be given; and
- the idea of limitations imposed by the state of technology and social organization on the environment's ability to meet present and future needs." (Gro Harlem Brundtland, 1987)

The Triple Bottom Line

The Triple Bottom Line refers to the concept of fusing together environmental responsibility, social justice and equity as well as economic viability, to make sure that all decisions are made in a responsible way with consideration of each component.



USGBC - The United States Green Building Council

Is a nonprofit organization, with mission is to make green building available to everyone. It oversees the accreditation of LEED as well as the LEED certification for buildings.

ABSTRACT

The MCCCCD Governing Board and Administration are committed to active pursuit of the Triple Bottom Line, or sustainability through environmental responsibility, economic viability and social justice. Relative to the districts' environmental stewardship, this report is more limited in scope and attempts to answer the question, "What are the fiscal and operating implications of the Chancellor's action, on behalf of the Maricopa County Community College District, to become signatory to the American College & University Presidents Climate Commitment (PCC)?" To answer this question Dr. Rufus Glasper charged a task force of the Chancellor's Executive Council (CEC) and other district personnel to assess the district's current status against PCC required elements, review best practices and PCC-related actions of higher education institutions, and formulate a recommendation for the district. Recognizing that five of the colleges are currently signatories, the question remains as to whether or not the district should do likewise and if so what are the implications for the remaining five colleges.

In fact, most MCCCCD colleges are working diligently toward achieving the goals set forward in the PCC, from strategies focused on facilities to those reflected in curriculum and supporting sustainable student services, i.e. transportation, recycling, food services, computer technology. Understandably, the costs and effort to move all colleges to carbon-neutrality vary widely depending on the age of the campus and level of commitment to this goal. Newer colleges and newer buildings on older campuses are already adhering to the district's guideline of building/renovations that meet LEED Silver standards. Challenges come from larger scale and more dramatic requirements to bring older facilities to standard. And beyond environmentally sustainable practices, all colleges are engaged in curricular and student support services and student life activities that reflect the principles of the Triple Bottom Line, or a sustainable *environment, economic system and social justice*.

After due consideration of current effort and collegiate best practices and resource requirements the task force recommended the Chancellor:

- Sign the PCC on behalf of the district.
- Recognize and support the five existing colleges as signatories.
- Encourage all MCCCCD colleges to pursue PCC criteria if not become signatories as well.
- Affirm an aspirational goal of carbon neutrality district wide, within the larger context of the Triple Bottom Line.
- Affirm active commitment to the Triple Bottom Line by developing a district wide sustainability council.
- Make achieving sustainability goals an explicit part of CEC administrative responsibilities.

BACKGROUND

The American College & University Presidents' Climate Commitment (ACUPCC) is a high-visibility effort to address global warming by garnering institutional commitments to neutralize greenhouse gas emissions, and to accelerate the research and educational efforts of higher education to equip society to re-stabilize the earth's climate.

Building on the growing momentum for leadership and action on climate change, the Presidents Climate Commitment (PCC) provides a framework and support for America's colleges and universities to become climate neutral. The Commitment recognizes the unique responsibility that institutions of higher education have as role models for their communities and in training the people who will develop the social, economic and technological solutions to reverse global warming and to mitigate its effects.

Presidents signing the Commitment are pledging to eliminate their campuses' greenhouse gas emissions over time. This involves all three commitments below:

- **Commitment One:**
Completing an emissions inventory, and within two years, setting a target date and interim milestones for becoming climate neutral.
- **Commitment Two:**
Taking immediate steps to reduce greenhouse gas emissions by choosing from a list of short-term actions as well as integrating sustainability into the curriculum and making it part of the educational experience.
- **Commitment Three:**
Making the action plan, inventory and progress reports publicly available.

College and university presidents and chancellors who are joining and leading the Commitment believe that exerting leadership in addressing climate change will stabilize and reduce their long-term energy costs, attract excellent students and faculty, attract new sources of funding, and increase the support of alumni and local communities.

Maricopa County Community College District Governing Board Action – Sustainability Policy

On December 9, 2008, MCCC'D's Governing Board adopted a resolution that outlines the support for sustainability across the district colleges. The intention was to "help guide employees and students in framing decisions and district-wide discussions with due consideration for the economic, social, and environmental effects of MCCC'D's actions." For a complete version of the Resolution, please see Attachment D.

Chancellors Executive Council Consideration of Presidents Climate Commitment Implementation

In reaction to a CEC proposal that Chancellor Gasper sign the Presidents Climate Commitment on behalf of the Maricopa district, several members questioned the fiscal and operational obligations that would accrue to college presidents, as well as to the district at large. From this discussion the Chancellor organized a Presidents Climate Commitment PCC Task Force to determine the impact of becoming a PCC signatory. The PCC Task Force was asked to review the related issues and CEC questions and return in the fall with a report and recommendation to the Chancellor.

Composed of Dr's. Maria Hesse, Jan Gehler, Linda Thor, Linda Lujan, Pushpa Ramakrishna, Donna Schober, and Lionel Diaz, Todd Simmons and Thomas Williams, the Task Force began work in June and presented Dr. Gasper its report in January 2010.

The seven member group convened in June to identify the task force work program and timeline. While a task list was generated, little work proceeded in July due to vacations and absences, followed by August demands of the beginning of the academic year and the responses to the Alvarez and Marsal visit and data requests. By late August task force members were refocused to: complete a college inventory of PCC sustainability practices, analyze efforts of other institutions, develop a recommended framework for a district-wide Sustainability Council, and work toward a quantitative and qualitative answer to the question of MCCC'D's future as a signatory.

FINDINGS

Current Status

The Task Force first sought to describe the district's current status of sustainable practices, relative to the PCC criteria. Each of the ten colleges completed a detailed inventory (included as Attachment A), and members identified existing district-wide practices that already comply with PCC requirements and/or move the district toward the sustainable standards of the Commitment (included as Attachment B). The Task Force also identified and examined other colleges and universities that appear to have successfully implemented the PCC requirements (included as Attachment C).

MCCCD Inventory

Not surprisingly, all ten colleges are actively working toward some level of commitment to reducing greenhouse gases, working toward climate neutrality. Attachment A includes a detailed summary of the inventory findings, addressing efforts related to: administrative support, facilities, student services, committees, curriculum, students and faculty. A thorough read of these entries yields an impressive array of activities focused on all three elements – economic, environmental and social – known as the Triple Bottom Line.

The Chancellor can take pride in knowing that Maricopa is doing much to reduce the districts negative impact on the environment. Several campuses have incorporated sustainability as a core value, but all colleges have implemented or are working towards the creation of recycling programs. Through conscious efforts to honor our desert environment, a continuous improvement process has lead to xeroscaping, reducing water usage for bathrooms, LED lighting for all new buildings, establishment of sustainability curricula such as the Sustainable Foods program at Rio Salado and the Sustainability Ecological Literacy Program at Chandler Gilbert Community College.

Maricopa Community Colleges has just created a new instructional council for sustainability in order to institutionalize sustainability curriculum content, outcomes, and values that will enable our students to succeed. The Sustainability Instructional Council will have a highly interdisciplinary focus and will strengthen the communications in the diverse instructional areas that do not fit into one of the established disciplines. The Maricopa faculty are developing lesson plans that integrate many disciplines to teach students about problem solving with a multi-dimensional holistic approach. In essence, many Maricopa faculty are exploring innovative teaching and learning pedagogy and are working to create a new learning paradigm in topics such as environmental responsibility, social equity, and economic viability, please see Addendum 1 at page 59 for more information. The Maricopa Center of Learning and Instruction (MCLI) has offered a 'Learnshop' series on 'Infusion of Sustainability in the classroom'. An MCLI network group has worked towards creation of professional development opportunities for employees. The MCLI network has met regularly in order to exchange best practices for interdisciplinary multi-campus programs. The colleges are experiencing an increased interest from their student body and with that are engaging students in their college efforts as well as empowering them to work towards their own projects regarding sustainability.

Several Colleges such as Chandler-Gilbert, Gateway, Mesa, Rio Salado and Scottsdale Community College have calculated their carbon footprint. The carbon footprint analysis was done to find out how much CO₂ each college emits into the atmosphere. Extensive studies were done in regards to transportation, travel, facilities, recycling efforts and energy usage.

All colleges are using utility companies, Arizona Public Service (APS), or Salt River Project (SRP), which generate as well as purchase a percentage of their energy from renewable resources.

In this effort, the five signatory colleges have submitted this data, which is accessible on the ACUPCC website <http://www.presidentsclimatecommitment.org>. Through this work the colleges are able to measure their progress in the above mentioned categories.

District Practices

In recent years, the district office has undertaken and implemented several improvements to save energy, and with that operating cost. A CEC sub-committee on sustainability was founded by the chancellor to drive the Triple Bottom Line forward on all the college campuses and the two skill centers that belong to the district. Facilities personnel are striving for the LEED Silver Building standard verified by the United States Green Building Council. These building improvements include using low VOC paints, upgraded energy management systems as well as energy star appliance and low energy usage computer including electronic equipment. The district will establish a Sustainability Council (Appendix D), that will be charged with creating a cohesive plan by which Maricopa County Community College District will reduce its carbon footprint over time.

Benchmark Institutions

Many institutions are creating more sustainable campus environments. Butte Glen Community College District, Middlebury College, Los Angeles Community College District, Foothill-De Anza Community College District, Portland College, Lane Community College, Oberlin College and Berkeley City College are just some of the colleges that have established programs and have either integrated sustainability in their strategic plans or have made serious commitments. All colleges have committed staff and sometimes entire departments to the field of sustainability, such as working with local businesses such as transportation companies to offer better transit alternatives. All are ACUPCC signatories and are recognized as leaders in their communities on sustainability achievements. Appendix B provides sample description of their resource commitments and operational structures. Several colleges have identified target dates by which they plan to achieve climate neutrality, and some, such as Los Angeles Community College District, announced that this goal has already been achieved. Since college experts in this field are currently limited, colleges and universities often use consulting firms to establish or expand their efforts.

Forecast Implementation Effects

To the question of cost and operating implications. It is very difficult to derive a single answer to this question, but listed below are recognized conditions for success.

- Governing board and executive leadership commitment in time, affirmed value, and budgetary resources
- Collaboration between the educational institution and local and regional business, government and non-profit sector partners
- Significant fiscal commitment in personnel, for ongoing climate/carbon monitoring, for pervasive curriculum and instructional redesign, for sponsorship of student services and student life yielding carbon-neutral activities, for developing carbon-neutral business practices (i.e. videoconference vs. travel, electronic communications, telecommute work assignments, etc.)
- Surveys of benchmarked institutions reflect various budget allocations depending on size of the institution.

ASSUMPTIONS AND CONDITIONS

Based upon the work of the PCC Task Force it appears that selected colleges and district-owned sites are likely to achieve the first and most difficult commitment of climate neutrality, however with considerable variability in their respective timelines. Many are already engaged in activities called for in the second commitment and are reporting progress as it occurs, thus meeting the third commitment. Task force members assume that the five colleges that are ACUPCC signatories remain focused on attaining conditions specified in the PCC, including ultimately attaining carbon-neutral status.

RECOMMENDATIONS

Therefore the CEC-ACUPCC Task Force recommends the Chancellor affirm MCCCCD's commitment to the Triple Bottom Line, by affirming MCCCCD's policy toward sustainability adopted December 2008, and maintain focus on district values and goals;

1. Support colleges as they carry out their responsibilities of ACUPCC signatories
2. Support all colleges and district organizations as they strive for reduced carbon use, by using, rewarding and supporting best practices where feasible across the district.
3. Develop and support a district-wide Sustainability Council (with name to be determined once group is formed) charged to move MCCCCD forward within the 21st century, across environmental, social and economic dimensions of a sustainable enterprise.
4. Include action expectations toward the Triple Bottom Line in annual performance review of all members of the Chancellors Executive Council.

Through these actions, Maricopa County Community College District can stand tall as an institution visibly committed to support sustainability.

ATTACHMENT A

CHANDLER GILBERT COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - Administrative Commitment of Operational Funds
- Vocal Advocates for Sustainability
 - ACUPCC signatory, Winner of the AASHE sustainability award for best practices in a college campus
- Written Policy, Regulations, Standards
 - Strategic Planning Elements – Goal #4 of Strategic Goals 2007-2012
 - Graduation Pledge of Social and Environmental Commitment

FACILITIES

- Green Building Design
 - All new construction LEED Silver. Engel Hall is on track for Gold. Bridget Hall is expected to be “high” silver.
- Green Water, Energy and Chemistry Practices
 - Reclaimed water for landscaping and college fields, two buildings with solar demonstrations
 - Waterless urinals saving 340,000 gallons of water annually. Dyson hand driers installed in Engel, Ironwood, and Baylor South replacing paper towels
- Sustainability Advocates on New Building Committees
 - LEED rep on all Architect new construction projects for LEED advisement
- Facilities Sustainability Coordinator
 - Bruce Scharbach
- Recycling Initiative
 - Recycling bins throughout the college, separation of paper products and cans. The Student group, Phi Theta Kappa coordinated cell phone recycling

- Connections Between Green Facilities and Curriculum
 - Building Environmental Tech Center for Green Classroom
 - Panel discussion on Campus Sustainability Day with faculty and VP of Administrative Services, Sustainability coordinator talked about campus sustainability issues to classes from Biology, English, History and Philosophy.
- LEED compliance buildings for future
 - Nothing less than Silver LEED for all new construction
- Green Purchasing Practices
 - Custodial chemicals are green. We are a registered Energy Star Partner
 - Currently purchasing 15% green power from SRP, will increase this percentage yearly- until carbon neutrality is achieved

STUDENT SERVICES

- Office of Student Life
 - Very dedicated to sustainability issues, involved in planning events such as Focus the Nation/National Teach-in, supports and encourages clubs such as the Heat Club to organize dumpster dives and guest speakers
- Service Learning Programs
 - Many service projects for students, i.e. Community Partner, Sunshine Acres
- Scholarships for related study
 - Recycling scholarships – money from the recycling program funds scholarships for students

COMMITTEES

- Global Learning Committee
 - Paul Petrequin, Chair
- Faculty Development Team
 - Heather Horn, Chair schedules many events relating to sustainability
- Civic Engagement Committee
 - Noel Morelos, organized Focus the Nation
- Diversity Committee
 - Caryl Terrell-Bamiro, Chair

CAMPUS

- Co-Curricular Events: Guest Speakers
 - Author of Garbage Land,
 - Author of Fast Food Nation
 - Energy Forums
- Interdisciplinary Activities
 - Sustainability Day, Focus the Nation
- Campus Sustainability Theme
 - See Your World
- Campus One Book
 - Fast Food Nation, Garbage Land, Oil on the Brain – Many of the college one book selections have sustainability themes
- Library Exhibits and Featured Collections
 - UN Millennium Goals - Chasing the Dream Exhibit displayed only at the UN headquarters in NY and CGCC Library. Library Exhibits from local artists for Garbage Land theme
- Service Learning Projects
 - Feathered Friends Festival with riparian preserve
- Center for Sustainability
 - In planning stages for Environmental Technology Center
- International education dealing with Sustainability
 - A Bridge to Belize program
- Sustainability programs training students for green jobs
 - Solar Installation workforce development program beginning
- Alternative Transportation Initiatives
 - Valley Metro Stop, Valley Park and Ride Stop, participation in Trip Reduction, Carpool parking

- Green-Based Community Partnerships
 - Service learning with the Riparian Institute in Town of Gilbert, SRP for Solar Demonstration
 - Community Partners involved in ETC
- Green Marketing Systems and Tools
 - Business system on recycled paper, organic inks for some marketing materials, discontinuation of printing schedules and catalogs moving to online only
 - E-newsletter CGCC Green with environmentally friendly tips sent to college employees

CURRICULUM

- Academic Certificate in Sustainability
 - Certificate program in Sustainability and Ecological Literacy
- Interdisciplinary Teach-Ins
 - Annual Dumpster Dive, Focus the Nation event
 - Teach In Event: For this event groups of faculty teaching at the same time will bring their classes to a common area and have teach-ins and world cafés on topics that are of interest to those classes. This is part of a national teach-in on global warming solutions for America-creating a dialogue at over a thousand colleges, universities, high schools, middle schools, places of worship, civic organizations and businesses, and directly engaging millions of students and citizens with the nation's decision-makers.
- Curriculum-Global Awareness
 - See Your World, Focus the Nation, Many classes teach global awareness in areas such as geological disasters, Environmental ethics
- Sustainability Infusion in Curriculum
 - See Your World, Focus the Nation – infused into Biology, Chemistry, English, History, Philosophy, etc.
- Learning Communities
 - Aztlan to Zoot Suit: Exploring Narratives of Mexican
 - American History & Culture
 - English and History classes around the sustainability theme
- Environmental Sustainability classes
 - Certificate Program, Environmental Biology, Plants and Society, Geological Disasters, Nature and Environmental Literature, Society and Business and Environmental Ethics

- Sustainability Projects
 - San Tan Pride: Clean-up Day
- Sustainability Course development

STUDENTS

- Environmental Club
 - HEAT Club (Hands on Environmental Action Team)
- Phi Theta Kappa or other Green Topic focused Group
 - Recycling Projects, HEAT
- Recycling clubs
 - HEAT, Phi Theta Kappa for general recycling & cell phone recycling

FACULTY

- Professional Development: Dialogue Days/Brown Bags
 - Many MCLI dialog days were hosted at CGCC
 - Focus the Nation
 - Making Climate Change a National Priority: A Forum with Your Political Leaders
- Professional Development (away from campus)
 - Presentations at various conferences such as Institute on Sustainability at Harvard University, League for Innovation Sustainability Institute, AASHE Conference and the NISOD Conference.
- Faculty and Professional Learning Community
 - Looking at our Consumption: A Panel Discussion (geology, history and psychology)
- District Sustainability Faculty Fellow
 - Pushpa Ramakrishna, AACC Fellow
- Summer Institutes
 - Shared Futures Grant: Global Learning and Social Responsibility Extension (Chris Schnick and Paul Petrequin)

ESTRELLA MOUNTAIN COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - Limited funding is available; however with the opening of the LEED Certified Mariposa Hall in January 2010 the funding support will be increase through possible rebate from APS
- Vocal Advocates for Sustainability
 - The Administrative Services team serves on the college Sustainability Team and is a strong advocate for all sustainability efforts.
- Written Policy, Regulations, Standards
 - Limited standards are established. However the College Strategic Directions include some Sustainability components.

FACILITIES

- Green Building Design
 - Mariposa Hall, January 2010
- Green Water, Energy and Chemistry Practices
 - The college Physical Plant equipment was upgraded this year to allow for more efficiency in the usage of electricity.
- Sustainability Advocates on New Building Committees
 - Randy Mauldin/Sustainability Team
- Facilities Sustainability Coordinator
 - Randy Mauldin
- Recycling Initiative
 - The college started a recycling program as of last year.
- Connections Between Green Facilities and Curriculum
 - Science faculty have been part of previous building design projects resulting in teaching spaces related to environmental topics, e.g. desert flora and fauna.

- LEED compliance buildings for future
 - If additional GO Bond dollars become available, attempts will be made to design and build additional LEED certified buildings.
- Green Purchasing Practices
 - The desk top cleaning products are green. All restrooms are equipped with automatic towel dispensers.

STUDENT SERVICES

- Office of Student Life
 - Sustainable Bags Project – students worked with marketing department to develop business and marketing plan
- Service Learning Programs
 - Same as above – clubs sell reusable bags
- Scholarships for related study
 - Scholarship funded from sale of bags – none awarded yet

COMMITTEES

- Sustainability Committee
 - The College Sustainability Team was established last year. Membership includes faculty and staff.
- Diversity Committee
 - Supported student conference

CAMPUS

- Co-Curricular Events: Guest Speakers
 - Leilani Munter, noted NASCAR driver; Lori Riddle, and 4 EMCC faculty who spoke at student conference,
- Library Exhibits and Featured Collections
 - Newest acquisition is Greenfile database with 4700 full text records on pollution, green building, global warming, renewable energy, and other related topics.
- Center for Sustainability
 - Sustainability team had display about dangers of plastic bags in our oceans and sold sustainable grocery bags. Later in Sept. the Team will partner with investment club to showcase a representative from APS discussing green ways to reduce utility bills.

- International education dealing with Sustainability
 - Financially supported the student conference

CURRICULUM

- Curriculum-Global Awareness
 - Quite a number of courses carry the general education designation of Global Awareness and satisfy AGEC requirements
- Sustainability Infusion in Curriculum
 - ECN 212 has a focus on economic approaches to reduce pollution. Also hosted viewing of “Energy Crossroads” film. In October will host a representative from the Concord Coalition for a discussion of the unsustainable projection of the US budget deficit and public debt.
- Environmental Sustainability classes
 - Student Conference on sustainability. Included 65 student presenters, approx 500 students in attendance, included students from other MCCDs. Conference also had a math zone where students were able to calculate their carbon footprint.
 - Art faculty will be presenting on “greenmatter”. An exploration of sustainability, ecology, and the world around us
- Sustainability Projects
 - Math awareness month featured math and climate (posters on campus). Class projects included efficiency of solar panels, recycling, tips on how to go green and save money, and landfill usage.

STUDENTS

- Environmental Club
 - Some interest, but no active club yet
- Phi Theta Kappa or other Green Topic focused Group
 - PTK initiated the current campus recycling program
- Professional Development: Dialogue Days/Brown Bags
 - Two faculties presented to employees and students on “Blasting the Coal Mine”. Also ECN faculty hosted “start composting at home” event with Phoenix Permaculture Guild.

GATEWAY COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Vocal Advocates for Sustainability
 - Charles Poure, Christine Taccone

FACILITIES

- Green Building Design
 - Conversion of exterior turf to xeriscape, Central Plant expansion includes major energy usage improvements. New tree plantings evaluated for carbon removal during the selection process. LEED Silver is standard.
- Green Water, Energy and Chemistry Practices
 - New xeriscape, Cooling Tower water management
- Sustainability Advocates on New Building Committees
 - Facilities review of all design aspects
- Facilities Sustainability Coordinator
 - Charles Poure, Christine Taccone
- Green Purchasing Practices
 - The Facilities Department has made major changes and now evaluates all cleaning chemicals to conform to good sustainability practices. Automotive was encouraged to and did convert from petroleum based cleaners to water based products. Our hazardous waste stream has steadily decreased over the past five years. The facilities office has eliminated all gas powered grounds keeping vehicles and is examining ways to eliminate gas powered trimmers and blowers. Our Facility Department is also analyzing the conversion of emergency lighting in buildings to LED technology.
- Recycling Initiative
 - “Go Green Gateway” involves significant staff and student participation. It is a major force in supporting the paper and plastic recycling efforts. The recycling program includes Paper, Plastics as well as Cardboard and Metals.

CAMPUS

- Service Learning Projects
 - GWECHS is notable for its continuing involvement in recycling efforts.

- Alternative Transportation Initiatives
 - The single largest source of carbon emissions for GWCC is student commuting. Our light rail stop may, in the future, begin to bring that figure down. We (GWCC) do not have official policies in place to discourage private vehicle use or encourage public transportation.

CURRICULUM

- Academic Certificate in Sustainability
 - Being built for Youthbuild

OTHER

- American College and University Presidents Climate Commitment
 - Gateway has submitted its report as required by the Presidents Climate Commitment. That report required that we calculate our carbon footprint. Christine Taccone and Charlie Poure collaborated on its completion.

GLENDALE COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - One time funding for recycle bins; temp wages @40 hrs./week for daily recycle pick-up around campus
 - Submitted grant to ADEQ requesting \$40,000 for recycling coordinator and additional recycle containers
 - Vocal Advocates for Sustainability
 - Green Efforts Committee (GEC) serves as college advocate. GEC is a cross functional committee composed of employees from across the College. GEC promotes Green Tips and Events each week via the college web network
 - Written Policy, Regulations, Standards
 - GCC participated with FP&D and other MCCCCD colleges to create several Capital Development Projects manuals for facilities remodel and construction (Administrative and General Design, Learning Spaces, Infrastructure Technology and Central Plant (TBP). These manuals address sustainability in design standards

- The Paperless Society
 - GCC encourages reduced paper consumption through:
 - Greater electronic data storage encouraged
 - Implemented more aggressive records and retention training program to reduce paper files and retain more e files
 - Increased use of the e syllabus and course assessment tools in instructional departments
 - Move to Share Point filing
 - Scanning practice encouraged
 - Use of high recycle content paper in all marketing initiatives (catalogs, brochures)
 - Development of on-line manuals and forms (i.e. Scholarship Program, Procurement, Project Management Team)
 - United Way Fund Raising Campaign now on-line
 - Installed electronic skill assessment recording and archiving system for Nursing – Vbrick
 - Purchased pay for print machines for installation in the Library and High Technology Centers

FACILITIES

- Green Building Design

Though the District/College does not seek certification, all remodel projects and new construction is designed to attain a LEED Silver rating. GCC has completed:

- Student Union remodel (2007)
- GCC North campus expansion (2008)
- New Life Sciences Bldg. (2008)
- Business Bldg. remodel (2009)
- Public Safety Sciences Bldg. (2010)
- Green Water, Energy and Chemistry Practices

Practices (water) include, but are not limited to:

- Use of low flow fixtures
- Use of IR controls and auto faucets
- Reduction of flood irrigation areas (by a factor of 2/3rds); implementation of sprinkler systems
- Added valves to water and chilled water lines; better compartmentalization of campus
- Increased use of xeriscape and low water plants
- Reduced number of exterior grass panels over seeded in winter

Practices (energy) include, but are not limited to:

- Use of low wattage, CFL or LED bulbs
- “Daylighting” and use of high e glass and clerestory is part of every remodel and construction design
- Motion sensors in all rooms to control lighting
- CO2 sensors in all rooms (control refresh rates)
- Limit use of “on peak” power
- Installation of VAV controls in buildings to improve building temperature control and save energy
- Improved HVAC maintenance to include more frequent inspection of temperature set points
- Use of BMS for campus energy management and systems optimization
- Discouraged use of space heaters and other personal comfort appliances
- Raised room temperatures 1 degree F during summer
- Consolidated classes during Summer I and II to allow closure of several buildings
- Increased use of window tinting
- Reflective roof surfaces
- Improved R values in all insulation

Practices (chemistry) include, but are not limited to:

- Safe disposal of all chemicals, solvents and other hazardous materials
- Recycle of toner cartridges
- Use of filtration systems in labs to reduce hazardous effluents
- Use of low VOC paints
- Increased use of natural pest and weed controls; reduced use of chemicals
- Use of “Green Cleaning Supplies”

Practices (green waste) include, but are not limited to:

- Designated green waste disposal area and disposal by City of Glendale
- Sustainability Advocates on New Building Committees
- See Green Bldg. Design above
- Recycling Initiative

GCC encourages recycling and reuse of materials in many areas:

- Paper and cardboard
- Computers and projection systems (see AWUP, EWUP and DPUP distribution and reuse plans)
- Use of old keyboards and phone bodies in Child Care Center
- Furniture – College has standardized its furniture lines and reuses all items, all to extending life cycle – cradle to cradle management

Recycle Program Funding

- One time funding for recycle bins; temp wages @40 hrs./week for daily recycle pick-up around campus
- Purchased paper recycle receptacles for all Administrative Assistants
- Established contracts with City of Glendale and Weyerhaeuser for the purpose of recycling paper and cardboard

Submitted grant to ADEQ requesting \$40,000 for recycling coordinator and additional recycle containers

- Connections Between Green Facilities and Curriculum
 - Although no formal competencies have been submitted, many faculty in science (BIO 145, 181 and 182) and ethics courses (selected PHI courses) have incorporated a “green component” into their classes
- LEED compliance buildings for future
 - Will continue to design all remodel and new construction to LEED Silver standards

- Green Purchasing Practices
 - All furniture to be 75 percent or higher recycled material content, and 90 percent or higher recyclable at life cycle end
 - All appliances Energy Star rated
 - Use of carpet tiles in lieu of rolled carpet

STUDENT SERVICES

- Office of Student Life
 - Environmental Club; works with Green Efforts Committee and its projects, i.e. Annual Dumpster dive to assess campus recycle efforts and promote same

COMMITTEES

- Sustainability Committee
 - Green Efforts Committee
- Civic Engagement Committee
 - Panel discussion during *Focus the Nation* event

CAMPUS

- Co-Curricular Events: Guest Speakers
Sponsor or participate in:
 - Annual *Focus the Nation* event on Climate Change
 - National Teach-In of Climate Change Solutions
 - *Earth Day*
 - Coordinate for selected academic and government speakers of climate change and sustainability
 - Dumpster Dives to highlight campus recycle efforts
- Interdisciplinary Activities
 - See Co-Curricular Events above
- Campus One Book
 - Spring 2009: Campus Book – Plan B 3.0
- Library Exhibits and Featured Collections
 - Displays in support of sustainability and climate and climate change events

- Service Learning Projects

Several classes:

- Bio 145
- Bio 181 and 182
- International education dealing with Sustainability
- International travel and classes (Dr. Robert Reavis – Biology. Marine Biology) conducts Field Experiences class-BIO 149AL and includes sustainability as a core theme
- Alternative Transportation and Mobility Initiatives
- Trip Reduction Program
- Bus Pass subsidies
- Designated parking for Car Pool drivers
- Installed bike racks near major buildings
- Expanded campus sidewalk network
 - Replaced service cart fleet with electric vehicles
- Green-Based Community Partnerships
 - Food Drive for Westside Food Bank

Green Marketing Systems and Tools

- Green Efforts Committee web site – <http://www.gccaz.edu/greenefforts>
- Brochures for Grand Opening of all new remodel and construction projects (sustainability/LEED highlighted)
- Published Green Planner, a Green Efforts and tips calendar, to encourage green behavior and the establishment of a green culture
 - College Master Planning Updates web site - http://www.gccaz.edu/admin_sevides/13874.htm

CURRICULUM

- Interdisciplinary Teach-Ins

Sponsor or participate in:

- Annual *Focus the Nation* event on Climate Change
- National Teach-In of Climate Change Solutions
- *Earth Day*
 - Coordinate for selected academic and government speakers of climate change and sustainability

- Sustainability Infusion in Curriculum
 - Class projects in BIO 145, 181 and 182
- Sustainability Projects
 - Class projects in BIO 145, 181 and 182
- Curriculum Delivery
 - Increased offering of hybrid and on-line courses

STUDENTS

- Environmental Club
- Phi Theta Kappa or other Green Topic focused Group
 - PTK planted trees, restored landscape around the Palo Soleri Amphitheater and tabled sustainability projects during campus-wide events

FACULTY

- Professional Development: Dialogue Days/Brown Bags
 - Annual Day of Learning (Spring each year – in place of Convocation)

OTHER

- Bookstore

Sale of products with green content or intent:

- Clothing
- Water bottles
- Book bags
 - Used (recycled textbooks)

MESA COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - \$6,000 Grant through the MCC Children's Garden from Project Learning Tree entitled *Green Works!* This project involves the construction of a Children's Garden that provides experiential learning opportunities. The project emphasizes nature and utilizing sustainability as a playful and educational theme and practice.
- Vocal Advocates for Sustainability
 - Steve Bass, Suzie Dodd
- Written Policy, Regulations, Standards
 - One of MCC's goals is to prepare learners to participate in a diverse global society in a learning environment that demonstrates a respect for differences. To address that goal one objective for MCC is to increase an awareness of environmental sustainability issues and develop related programs

FACILITIES

- Green Building Design
 - MCC's new Physical Science building is the first LEED certified building on campus and houses and powers the 53 seat planetarium through solar panels donated by SRP. The panels also double as a shade canopy for the Astronomy plaza on the lower level.
 - Sustainability features are incorporated into the building to meet the strict environmental standards needed for LEED certification and the building is equipped with technology to continually assess energy performance, temperature and air flow.
- Facilities Sustainability Coordinator
 - MCC has hired an Environmental Sustainability Coordinator Suzie Dodd to oversee sustainability and environmental compliance issues on campus.
- Recycling Initiative
 - (Program Handout available for review)
- LEED compliance buildings for future
 - The new Saguaro Building located at MCC@ RM is an innovative multi-purpose building designed to celebrate the college's history of environmental sensitivity. The 43,000 square foot bldg. reflects the environmentally respectful emphasis of the campus

- Green Purchasing Practices
 - The MCC Maintenance and Operations Department has installed low-energy use light bulbs, motion sensors, waterless urinals, low-toxic paint and carpets, etc. in and around campus. Waste products from renovation projects are recycled wherever possible. Non-toxic cleaning products are used by the custodial staff. Duties of the custodian staff have been shift from evening to day in order to power down buildings in the evening.
 - Campus vendors have been encouraged to adopt “green practices. The onsite campus café “Aramark” has reduced packaging within the food service area. Follett Bookstore now offer products composed of recycled material, such as “Green Books” composed of recycle paper.
 - Documentary completed by the students on Sustainability for the Saguaro Building at RM.

COMMITTEES

- Sustainability Committee
 - MCC has a standing Sustainability Committee with participation by all employee groups, students and community members. In addition, MCC employees participate and serve on the MCCCCD Sustainability Initiative and Curriculum Committees.

CAMPUS

- International education dealing with Sustainability
 - Global Leadership Retreat was held November 7 – 9, 2008 in Prescott Arizona. Program theme was “Sustaining Our World” (Environment, Cultures, Economics, Politics, and Social).
 - This was a collaborative effort between and among the International Education Offices within the Maricopa County Community College District. Program goals included: Participating in world culture immersion, building cross-cultural communication and conflict resolution skills, preparing students to be ambassadors for our communities and the world, developing global citizenship, and providing skills for international and U.S. students.
- Alternative Transportation Initiatives
 - MCC @ Southern and Dobson has one 2009 Toyota Prius, regular fuel hybrid vehicle and two (2) Chevy Cavaliers that utilizes Compressed natural gas.
 - MCC@Red Mountain has one Toyota Prius hybrid and one mini-van that utilizes compressed natural gas and is a bi-fuel vehicle.
 - MCC students and employees are eligible for reduced fares on Valley Metro buses and light rail. Preferred parking is provided on campus for registered carpoolers. Prizes are occasionally awarded for those who use alternative transportation in their commute to campus. The college also participates in a Maricopa County Trip Reduction Program.

- Green-Based Community Partnerships

- MCC partnered with Rhodes Junior High School in the annual “Dumpster Dive. The dumpster dive event is an audit to collect, sort, and tabulate one day’s trash from the Southern and Dobson campus. Each year there has been a reduction in the volume of waste generated. MCC attributes this reduction to expansion of the campus recycling program.
- In partnership with the City of Mesa, MCC has established an active waste minimization program. Paper, cardboard, aluminum, plastic, and glass are collected and recycled from offices, classrooms hallways, and campus malls. Batteries and ink cartridges are also recycled. An Arizona Department of Environmental Quality (ADEQ) Waste Reduction Grant was instrumental in fostering campus-recycling efforts.
- In partnership with Green Ideas, periodic Leadership in Energy and Environmental Design (LEED) exam preparation training seminars are offered to faculty and students. Green Ideas has also offered training on LEED to MCC employees involved in new construction projects.
- In partnership with the United States Green Building Council (USGBC) – Arizona Chapter MCC students have been given volunteer opportunities and free admission into local meetings and the upcoming Green Build International Conference November, 2009 in Phoenix.
- In partnership with the architectural firm, Smith Group, students have been given LEED internship opportunities.

- Green Marketing Systems and Tools

- In 2007 – 2008 sustainability initiatives (tools) were incorporated into the MCC strategic planning process. These initiatives are:
- Goal IV. G. “Increase awareness of environmental sustainability issues and develop related programs”.
- Goal VIII. G. Provide a safe, secure and aesthetically appealing college environment, employing green practices where feasible”.
- Two policies (tools) were adopted in November of 2007. First, a commitment that all new construction will be built to at least the U.S. Green Building Council’s Leadership in Energy and Environmental (LEED) Silver standards or equivalent.
- Second, a commitment that all products, appliances, and equipment purchased shall be Energy Star-rated whenever feasible.

CURRICULUM

- Academic Certificate in Sustainability
 - Two classes are currently being developed and are equivalents to required courses in the School of Sustainability at Arizona State University. Working with ASU in the development of a curriculum.
- Interdisciplinary Teach-Ins
 - In terms of interdisciplinary teach-ins many of our employees have attended and presented at Association for the Advancement of Sustainability in Higher Education (AASHE) conferences or League of Innovation Sustainability Conferences. These conferences have acted as a form of interdisciplinary teach-ins for MCC's employees.
- Curriculum-Global Awareness
 - MCC has a Global Citizenship Academic Certificate that includes science and environment component.
- Sustainability Infusion in Curriculum
 - One of MCC's objectives is to acquire a better understanding of sustainability learning outcomes that have been or are going to be incorporated into program curriculums across the college. For example, the interior design program has integrated six learning outcomes related to sustainability based on their recent program accreditation visit by the Council for Interior Design Accreditation (CIDA). The learning outcomes related to sustainability are:
 1. 2c environmental ethics and the role of ethics in the practice of interior design
 2. 2d a global perspective and approach to thinking and problem solving (understanding issues that affect the sustainability of the planet)
 3. 3g student work must demonstrate understanding of principles and theories of sustainability
 4. 4f information gathering research and analysis (sustainability issues)
 5. 6n students must demonstrate understanding of the concept of sustainable building methods and materials
 6. 8f assessment processes (life cycle assessment)

These learning outcomes are infused into the three-year curriculum at three levels: primary, secondary, and supplemental.

- Learning Communities
 - MCC started a faculty and professional sustainability learning community in the fall of 2006. This interdisciplinary group met once a month for two years (2006 – 2008). In the fall of 2007 an official Sustainability Committee was created replacing the learning community. The three overarching topics are: ACUPCC, curriculum, and campus events related to the triple bottom line: environment, social, and economic. One example of a joint effort event held by the sustainability learning community and committee was the April 11, 2007 ‘MCC Takes Action’ Interdisciplinary employee and student drop-in session. At this event participants were asked to provide input on cultural, learning, research, community, and facilities management initiatives. A hardcopy of the eleven-page report is available upon request.
 - MCC has an active Environmental Action Club that acts as a type of student learning community.
 - For the past three years, MCC have had a Faculty and Staff Learning Community in Sustainability. This group focuses on teaching and learning pedagogy, and the development of program in sustainability
- Environmental Sustainability classes
 - MCC offers a number of classes that pertain to environmental issues including:
 - Bio 105 Environmental Biology
 - CHM107 Chemistry and Society
 - GLG110 – Geological Disasters and the Environment
 - GPH210 Society and Environment
 - ASB226 – Human Impacts on the Environment
- Sustainability Projects
 - There have been numerous MCC sustainability projects. The most public is the undertaking of Leadership in Energy and Environmental Design (LEED) building certification for the Southern and Dobson Physical Science Building and Red Mountain Saguaro Building. These third party assessments will increase MCC’s reputational capital as a responsible leader in securing a sustainable campus for the future. MCC students and employees have been actively involved in these efforts. Other examples are our yearly dumpster dive and student driven standardization on interior materials facilities standards. Low volatile organic compound (VOC) paint (Dunn Edwards: Ecoshield) has replaced conventional paints. Linoleum (brand: Marmolium) low maintenance flooring made out of renewable resources has replaced vinyl composition tile.
- Sustainability Course development
 - Development of a sustainability (SUS) academic prefix is in process. Introductory level curriculum has been written and is awaiting approval. An Environmental or Sustainability Awareness graduation requirement will be explored with ASU.

STUDENTS

- Phi Theta Kappa or other Green Topic focused Group
 - Instrumental in meeting objectives for MCC @ RM new Saguaro Building for Gold LEED Certification

FACULTY

- Center for Teaching and Learning
- Faculty and Professional Learning Community

OTHER

- Sustainability Symposium
 - A sustainability symposium was held at MCC on 11/14/2008 which explored new ways of viewing sustainability from a spiritual, and social justice perspective while addressing the challenges and opportunities
- Forum on Cultural Sustainability in Indigenous Communities
 - Forum was held on April 22, 2009 with a focus of enhancing an understanding of the challenges facing indigenous communities, particularly in the area of cultural sustainability. Indigenous tribal leaders from within Arizona gathered with tribal leaders of Columbia to discuss commonalities of respective communities. Goal of the forum was to expand pedagogical knowledge of teaching subject matter relative to indigenous communities and their traditions, struggles, and aspirations of self-determination; provide faculty with an avenue to infuse their perspectives with an understanding of issues related to the study of indigenous peoples.
- Climate Action Plan
 - Work In progress (available for review)
- Education, Research and Community Outreach
 - Development of a Sustainability (SUS) academic prefix is currently underway. Introductory level curriculum has been written and is awaiting approval. An Environmental or Sustainability Awareness graduation requirement will be explored with partnership with Arizona State University (ASU).
 - MCC periodically offers community service classes related to Solar Energy and Biodiesel. These classes can be expanded and offered in conjunction with groups such as New Frontiers for Lifelong Learning.
- Creation of a Green Team at Summer Games for Special Olympics
 - Approximately 95 students donated over 1250 hours during the Special Olympics to clean up and recycle after the Summer Games in May 2009. This was the first time this had been

PARADISE VALLEY COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Vocal Advocates for Sustainability

FACILITIES

- Green Building Design
 - Life Sciences, “Q”
- Green Water, Energy and Chemistry Practices
 - Central Plant upgrade – APS Incentive Program and re-use of chillers at other MCCCCD facilities; green chemicals for campus cleaning; direct delivery of supplies to reduce transportation requirements
- Sustainability Advocates on New Building Committees
- Recycling Initiative
 - Paper and cardboard; ADEQ grant application submitted to expand
- LEED compliance buildings for future
 - Compliance with LEED Silver standards recommended for all new construction
- Green Purchasing Practices
 - See above
- Office of Student Life and Leadership
- Service Learning Programs
- Scholarships for related study

COMMITTEES

- Diversity Committee

CAMPUS

- Co-Curricular Events: Guest Speakers
- Interdisciplinary Activities
- Campus Sustainability Theme
 - Student environmental club
- Campus One Book
- Service Learning Projects
- Alternative Transportation Initiatives
 - Carpool parking, electric golf carts for DPS patrol of campus
- Green-Based Community Partnerships
 - Exploring integration of Cave Creek/Carefree community gardens in Black Mountain programs

CURRICULUM

(1) Instruction - Reduce Paper	X	Surveyed students with iCickers and had them email their brief "essays" to me.
	X	Students access syllabus online rather than hand out copies.
	X	Use the document camera when I lecture and use recycled (scrap) paper to write on as much as possible. I then give the notes to students who require a note taker. This reduces the number of copies made.
	X	BIO labs are e-format.
(2) Instruction - e-textbooks	X	Gave students the option to buy the etextbook if they did not mind reading from the screen and have ready access to a computer.
	X	Math textbook because it is online. Most use that version.
(3) Instruction - Classes	X	New course at PVCC Spring 2009: WED 124 Environmental Wellness
	X	Environmental Biology for Non-Major (BIO105)

	X	"Go Green Projects" in HES100 Healthful Living
(4) Instruction - Homework Assignments	X	Math homework is being done online via Web Assign.
	X	MAT 151 class assignment to analyze the relationship between car weight and city and highway miles per gallon. Students use information at http://www.epa.gov to collect mpg data on automobiles.
	X	Homework is on My Math Lab, so it's completely electronic.
(5) Instruction - Class/Lab Activities	X	First Year Experience (FYE) Research Project has the global topics of carbon footprint, sweatshops: fair trade v. free trade, food and hunger, and social activism.
	X	GPHIII lab assignment has students finding out and documenting different forms of alternative energy
	X	GPHIII lab assignment has students finding out and documenting different forms of alternative energy
	X	GPH212/214 lab assignment has students determine roof design to apply passive solar design concepts
	X	GPH212/214 lab assignment has students finding out and documenting different forms of alternative energy
	X	GPH213/215 lab assignment has students finding out and documenting different forms of alternative energy
	X	I do the water project in my GPHIII class.
	X	HES100 online & hybrid has a discussion board assignment on what students can do to include more "green" activities in their lives.
(6) Instruction - Content	X	The DT Program also teaches sustainability in our food service management courses.
	X	Use of Green Edition Textbook for HES100. This edition includes a "Green Guide" in every chapter offering information on how students can make healthy and environmentally responsible choices related to the chapter content.
	X	GPH classes include study of sustainability issues.

	X	Emerging Leaders I focuses on Homeless: box city
	X	Emerging Leaders II focuses on sustainability: backpacking trip
	X	GPHIII lecture discussion on water conservation and usage, especially as it pertains to living in a dry/desert climate (hydrosphere)
	X	GPHIII lecture discussion on edible plants and energy efficiency in food production(calories in / calories out) (biosphere)
	X	GPHIII - lecture discussions on location of construction vs. biome / landscape / landforms (biosphere & geomorphology)
	X	GPH213/215 lecture discussion on passive and active solar design and equipment and \ landscaping (applied climatology)
	X	GCU102 section on urban development
(7) Instruction - Awareness	X	Wellness program encourages and rewards "green" practices.
	X	GO GREEN – Learning Week session - 8/18/09, 11:45 – 12:45, KSC 212

STUDENTS

- Environmental Club
- Recycling clubs
 - Same as Environmental Club

OTHER

- Addition to Fleet of Hybrid Vehicle – Prius
- Technology – use of information Screens rather than printed docs; Pay for Print in Library and Computer Commons to induce thoughtful use of the printing function; Duplex Printers
- Park and Ride
 - College is a park and ride site for Valley Metro

PHOENIX COLLEGE

ADMINISTRATIVE SUPPORT

- Vocal Advocates for Sustainability
 - PC Green Committee Members

FACILITIES

- Facilities Sustainability Coordinator
 - Doug McCarthy, Director of Facilities
- Recycling Initiative
 - Plastic, aluminum, paper, cardboard. Also batteries and florescent light bulbs.
- LEED compliance buildings for future
 - On expansion and remodel of Hannelly Center, we will use LEED construction.
- Green Purchasing Practices
 - Purchases recycle products when possible.

STUDENT SERVICES

- Office of Student Life
 - Some clubs participate in Earth Day, and other recycling efforts.
- Service Learning Programs
 - Some club service activities include a reflective component

COMMITTEES

- Sustainability Committee
 - PC Green
- Civic Engagement Committee
 - Service-Learning
- Diversity Committee
 - District-wide and PC based
- Faculty Development Team

CAMPUS

- Co-Curricular Events: Guest Speakers
 - Earth Day speakers/exhibits
- Service Learning Projects
 - Campus caring initiative
- Sustainability programs training students for green jobs
 - Non-credit programs in place
- Alternative Transportation Initiatives
 - Trip Reduction Program participates in Earth Day.

CURRICULUM

- Academic Certificate in Sustainability
 - Credit certificate in Natural Resource Stewardship is under construction; various non-credit options available
- Sustainability Infusion in Curriculum
 - Included in health care related and culinary programs
- Learning Communities
- Environmental Sustainability classes
 - PHI 216, ECN 263, ENH 206, BIO 105, ENV 101, POS 285, FSC 110
- Sustainability Course development
 - Projected development in sustainability studies and building design and construction
- Phi Theta Kappa or other Green Topic focused Group
 - Phi Theta Kappa, Ursa Majors Science Club

FACULTY

- Center for Teaching and Learning
 - Focus on technology
- Professional Development (away from campus)

OTHER

- Technology
 - Converted to LCD displays. Purchasing only Energy Star compliant equipment. Several software systems are installed on campus that monitor computer activity which will timeout and switch to an energy savings mode to conserve power.

RIO SALADO COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - Currently funded within the normal operating budget. Possible bond initiatives in the future.
- Vocal Advocates for Sustainability
 - Rio Salado College has a Sustainability Leadership Council, consisting of officers, deans, associate deans, and faculty chairs.
- Written Policy, Regulations, Standards
 - Rio Salado is a Charter Signatory to the President's Climate Commitment (ACUPCC). There is also currently in place a Climate Action Plan and Energy Star Appliance Purchase Policy. The Plan is available online @ <http://acupcc.aashe.org/cap-report.php?id=254>
 - Goal 8 of Rio Salado's Strategic Plan is "We integrate environmental, economic and social sustainability practices."
 - One of the college's six core organizational values is "sustainability". These core values appear on Rio Salado's Culture Page which is distributed to every employee and posted in several locations around the college.
 - Rio Salado recognizes employees for exceptional achievement in six categories within the Rewards and Recognition Program. Nominated employees who further Rio Salado's core value of "sustainability" may receive a green Sustainability icon to add to their plaques.

FACILITIES

- Green Building Design
 - It is a MCCCDC policy that all new construction is designed to meet the LEED Silver certification standard.
 - Green Schoolhouses are in the planning stages at the future Green Learning Campus in downtown Phoenix.
- Green Water, Energy and Chemistry Practices
 - Rio Salado uses low and non VOC paints and cleaning supplies. Rio has mandated that outsourced janitorial companies use certified sustainable products, including cleansers and paper products.
 - Rio has also enacted a policy requiring all new appliance purchases to be Energy-Star Rated.

- Sustainability Advocates on New Building Committees
 - In every new building committee formed, Rio Salado sustainability advocates require of the architect, contractor, and furniture vendors their sustainability efforts and plans for use in the project.
- Facilities Sustainability Coordinator
 - Todd Simmons, Vice President of Business and Employee Services.
- Recycling Initiative
 - Abitibi Paper Retriever Program and Tempe Recycling Bins throughout campus. Blue recycling bins are supplied to all employees and materials are picked up on a daily basis during work hours.
- Connections Between Green Facilities and Curriculum
 - The curriculum at the Green Learning Campus (site currently in development stages) will focus on environmental concerns
- LEED compliance building for future
 - Rio Salado is in the planning stages to have all existing buildings LEED EB (Existing Building) Compliant.
- Green Purchasing Practices
 - Rio Salado has Toyota Prius hybrids for official use and has purchased Bi-Fuel Heavy Duty Vehicles.
 - Rio also continues to purchase only Energy Star appliances as well as low or no VOC paints and cleaners for use in offices and classrooms.
 - Whenever possible Rio only purchases products that are recycled, recyclable, organic, or fair-trade.

STUDENT SERVICES

- Office of Student Life
 - Rio Salado built a virtual student union through the RioLounge.

COMMITTEES

- Sustainability Committee
 - The Leadership Council serves as the College's sustainability committee

- Global Learning Committee
 - Erma Abeyta, the Director of International Education, is a participant in a district-wide international student leadership program which will be held in October 2009. A topic of the program is “Becoming Leaders in a Sustainable World.”
- Faculty Development Team
 - Faculty Chair meetings typically include discussion topics related to sustainability.
- Civic Engagement Committee
 - Pay 30 Forward Committee encourages all employees to volunteer at community organizations for 30 hours per year.
- Diversity Committee
 - Rio Salado has an Inclusiveness Committee

CAMPUS

- Co-Curricular Events: Guest Speakers
 - At the spring 2008 College-Wide Meeting (for faculty and staff), the guest speaker was Dr. Tom Kimmerer. He discussed sustainable living practices, thinking globally, and individual responsibility for sustainability.
- Interdisciplinary Activities
 - Rio held a movie screening of “Fresh” to motivate discussion on sustainable food sources and the new Sustainable Foods
 - Program involving the new café and culinary students. The program is a sustainable foods culinary program that teaches sustainability in the purchase, preparation and maintenance of food systems.
 - Rethinking Your Rubbish Brown Bag and Activity
 - “Story of Stuff” Brown Bag for employees on Earth Day
- Campus Sustainability Theme
 - On July 1, 2009, Rio launched Pay 30 Forward, which honors the way Rio employees embody the college’s core practices of:
 - Learning, Innovating, and Partnering.
 - Pay 30 Forward was formed to promote social sustainability development at Rio Salado College.
 - On September 30, 2009, Rio hosted a Triple Bottom Line Fair for employees. Topics of the day will center on recycling and composting. In addition, Rio will host a swap meet on that day for employees to trade gently used goods.
 - Rio Salado College is currently participating in Climate Culture’s “America’s Greenest Campus” Contest in the college’s efforts to reduce carbon footprints.
- Library Exhibits and Featured Collections (and other Sustainability Efforts)
 - The library developed an extensive bibliography of its holdings on different aspects of Sustainability. This is maintained on the library website and has also been posted on the Sustainability website: <http://www.riosalado.edu/library/pages/ntlTeachIn.aspx>

Updates are being made to this site as the library has acquired more resources on the topics.

- The library has three electronic book collections totaling approximately 45,000 full-text eBooks, as well as literally millions of online articles in thousands of online magazines, journals and newspapers.
 - Wherever possible, the library has replaced many of the DVDs previously used in courses with streaming video. Rio's library has over 200 licensed streaming films, with more being added monthly. This saves on the cost of purchasing and duplicating DVDs as well as mailing costs, while providing a far better course experience for students.
 - All incoming paper mailers from distance learning materials are recycled, along with cardboard boxes from book shipments.
 - CD/DVD cases are reused as many times as possible before being recycled.
 - The library switched from mailing paper overdue notices (three separate notices for each overdue item) to email notifications. This saves a great deal in paper supplies and postage.
- Service Learning Projects
 - Phi Theta Kappa recycling initiative on the Rio Salado Campus
 - Sustainability programs training students for green jobs
 - Rio Salado is currently creating a Sustainable Foods Culinary Program.
 - Rio offers an Academic Certificate in Sustainability and Ecological Literacy. Students who graduate from this program can work in a variety of fields such as consultancy, utilities, regulatory agencies and non-profits, as well as government institutions.
 - Alternative Transportation Initiatives
 - Rio offers close parking for carpoolers and free fitness center memberships to employees who carpool, rideshare, telecommute, bus, or bike to campus three or more days a week.
 - Many Rio Salado employees participate in the Maricopa Community College Trip Reduction Program.
 - Green-Based Community Partnerships
 - Rio Salado is partnering with the City of Phoenix in a Green Learning Campus Initiative. The current Adult Basic Education site will be retrofitted to sustainable LEED Existing Building standards. In addition, two new green schoolhouses will be built with funding help from the nonprofit organization, Brighten a Life, and Cause and Effect Evolutions, the lead management consultant for Brighten a Life. The curriculum will focus on energy efficiency and environmental concerns.
 - The Communiversity @ Surprise (a school-community partnership) has 500 chairs made from recycled materials. These chairs can also be recycled in the future.
 - Rio is partnering with four Clear Channel stations (KISS, MIX, KEZ and KNIX) to bring awareness to the Valley of things that people can start doing today to save both the environment and money.
 - Rio partnered with 98.7 The Peak and Chuck Powell. He will be giving a brown bag at Rio Salado on 9/10/09 regarding the "Project Give" program (a volunteering awareness initiative). The Peak will also highlight Rio Salado's Pay 30 Forward program.

- In October 2009, several Rio Salado employees will participate in the City of Surprise Green Fair. Shannon Corona will teach a sustainable foods class and Peter Conden will give a talk on sustainable urban gardens to community members.
- Green Marketing Systems and Tools
 - Rio Salado provided every employee with a free, reusable Nalgene water bottle imprinted with the words “Refill, not Landfill” and the Rio Logo.
 - For just \$2, Rio students and staff can purchase tote bags featuring the Rio Salado logo and help cut the use of plastic bags, which are made from petroleum. The tote bags are made from 100% recyclable polypropylene. These tote bags were also given away to area teachers in the “Tools for Teachers” Supply Drive (September 2009).
 - Whenever possible, the office of Institutional Advancement orders promotional items made from recycled material such as pencils made from shredded money or key chains made from recycled plastic.
 - Institutional Advancement strives to use papers and printers that have been certified by the Forest Stewardship Council.
 - Rio Salado only prints 500 copies of the college catalog which is a significant reduction from past yearly print orders of 25,000 copies. As a paperless alternative, Institutional Advancement promotes the use of the online catalog or the catalog CD.

CURRICULUM

- Academic Certificate (A.C.) in Sustainability
 - A.C. in Sustainability and Ecological Literacy
- Interdisciplinary Teach-Ins
 - Rio Salado participated in a National Teach-In on Global Warming Solutions on February 5, 2009.
 - In 2008, Rio participated in the National Teach-in “Two Percent Solution.”
 - One of the themes for the fall 2009 All Faculty Meeting was “E-Learning = Green Learning.”
- Curriculum – Global Awareness
 - PHI216 “Environmental Ethics” will go live in January 2010 and is in the development stages.
 - HUM201 “Universal Themes” focuses on cultural origins and sustainability and is in the development stages.
- Sustainability Infusion in the Curriculum
 - For fall 2009, a new RioLogo is being formatted with the topic of how to increase sustainability across the curriculum.
- Environmental Sustainability classes
 - PHI216 “Environmental Ethics” will have coursework in planet preservation.
 - BIO105 “Environmental Biology”
 - GLG110/111 “Geological Disasters and the Environment Lab”

- Sustainability Projects
 - Rio Salado is developing an agriculture course on community gardens where students will actually work in the garden.
- Sustainability Course Development
 - REC150AB “Outdoor Adventure Skills” is in the planning stages and will be added to the A.C. in Sustainability and Ecological Literacy. This course will be live by May 2010.
 - Rio Salado has also contracted with AKA Green to develop a non-credit course entitled, “Green in a Weekend.”

STUDENTS

- Phi Theta Kappa or other Green Topic focused Group
 - Phi Theta Kappa

FACULTY

- Professional Development: Dialogue Days/Brown Bags
 - In spring 2009, several faculty members presented sustainability topics (e.g. sustainable foods, methane-gas, e-learning as green learning, etc.) in a brown bag for all faculty.
- Professional Development (away from campus)
 - Rio’s Physical Science Faculty Chair, Shannon Corona, went to a Sustainability Conference at the University of California, Santa Barbara.
- Faculty and Professional Learning Community
 - Several of Rio Salado’s faculty are active members of Maricopa’s MCLI Sustainability Group.

SCOTTSDALE COMMUNITY COLLEGE

At Scottsdale Community College recycling started out with an effort of a PSA member, establishing recycling bins for paper being placed in some office areas. SCC's efforts now include not only expanding our recycling to include a compactor and over 200 campus wide distributed bins, but also changing to desert landscaping, green building practices, reduced energy consumption, sustainability related campus events, and student service projects.

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - Funding is available through administrative support
 - Revenue from recycling efforts.
 - Contract with Pepsi, reimbursement of \$5000 per year for recycling needs.
 - Applied for ADEQ Waste Reduction Grant, \$48,001 requested.
- Vocal Advocates for Sustainability
 - Member of AASHE, signatory of ACUPCC, working on Membership to Green Chamber of Commerce.
- Written Policy, Regulations, Standards
 - Currently working on Green Campus Purchasing Policy

FACILITIES

- Green Building Design
 - All new construction is build towards LEED Silver standard
 - Moving Landscape Design to Green Landscaping.
- Green Water, Energy and Chemistry Practices
 - Installation of Low-Flow toilettes, Waterless Urinals in all remodeled and new building bathrooms. Energy Efficient Light Bulbs are installed throughout the campus.
 - Use of low or non VOC-Paint
- Sustainability Advocates on New Building Committees
 - Architectural support on all Building Projects. All Architects are LEED AP accredited.
- Facilities Sustainability Coordinator
 - Thomas Williams

- Recycling Initiative
 - The Recycling Program was started on August 19th 2007. A Compactor for recyclables was purchased along with over 200 recycling bins since that day.
 - Partnering with Abitibi-Bowater for paper recycling. One custodian assigned to be recycling collector / 40hrs a week.
- Connections Between Green Facilities and Curriculum
 - Sustainability Incentives are taught at Facilities Management Classes. HRM 120 Hotel Facility Management class spends two weeks on LEED Program and teaches on:
 - ISO 14000, Environmental management certificate
 - Show video on Chicago and their sustainability efforts.
 - Students have to write a paper with a sustainability topic and hold one presentation.
 - The Center for Native and Urban Wildlife has the Toad Hall, an education center for the native plant and animal species in our SW region teaching 4th graders the importance of biodiversity.
- LEED compliance buildings for future
 - Committed to LEED Silver Standard or higher
- Green Purchasing Practices
 - All office paper purchased by the campus is FSC approved.
 - All cleaning products except Sanitizers are Green certified. All computer equipment and appliances are Energy Star approved.
 - The Marketing department is striving to use eco-friendly printers and print on FSC approved paper.

STUDENT SERVICES

- Office of Student Life
 - High Level of Support from the Student Life Office.
- Service Learning Programs
 - Partnered with Salt River Landfill and Scottsdale Stadium in recycling the stadium during Spring Training games. Students were given free admission.
- Scholarships for related study
 - In 2008 \$500 RECYCREATION Scholarship was established, this was increased to \$750 in 2009. Plans are to increase it again for 2010 and expand the application area to all of MCCCC.

COMMITTEES

- Sustainability Committee
 - A Sustainability Committee was established in January of 2007 and meets on a monthly basis during the spring and Fall Semesters. It is comprised of Students, Faculty and Staff.
- Global Learning Committee
 - International Education Committee. Chair Therese Tendick, comprised of Student Services staff and Faculty Members.
- Faculty Development Team
 - Chair – Susan Moore
- Diversity Committee
 - Chair – Darrel Copp
 - Dr. Bonnie Gray – Director of Diversity Infusion Program. A program to help Faculty infuse diversity in their curriculum and offers student internships.

CAMPUS

- Co-Curricular Events: Guest Speakers
 - McDowell Sonoran Conservancy, Director Ruthie Carll,
 - Lost Boys Center – Arizona
 - Anti Defamation League – Co Director Jennifer Twitchell.
 - Movie Screening of Dr. Seuss “The Lorax” to teach about deforestation. A discussion was held after the movie and participants filled out a questionnaire.
- Interdisciplinary Activities
 - Focus the Nation, Campus Sustainability Day, International Coastal Cleanup
- Library Exhibits and Featured Collections
 - Recycled Art Exhibits once a year, Art Pieces from RECYCREATION Contest. Sustainability Books featured once a semester in the Library Foyer.
- Service Learning Projects
 - Scottsdale Stadium Project
- International education dealing with Sustainability
 - Organized ICEED Conference, “Planting the Seed-Growing Sustainable Practices”
 - Participated in MCCCCD Global Leadership retreat. Held presentation on Global Sustainability.

- Sustainability programs training students for green jobs
 - HRM 290 “Ecotourism” Class offered.
- Alternative Transportation Initiatives
 - Valley Metro Bus Stop, Carpool Parking. Participation in Trip Reduction Program
- Green-Based Community Partnerships
 - Community Partnerships with McDowell Sonoran Conservancy, Liberty Wildlife, Center for Native and Urban Wildlife.
 - Did help Banner health Hospital
 - SCC Community Garden Club. Community Members can rent garden plot and grow their own produce.
 - Partnered with SRP “Energy Wise” Program, received 400 Energy efficient light bulbs.
- Green Marketing Systems and Tools
 - Established Green Website
 - Green Artie Facebook
 - Green Artie Twitter.
 - Use Water bottles, 100% post consumer recycled Notebooks and recycled denim Pens to promote website and Sustainability Program.

CURRICULUM

- Interdisciplinary Teach-Ins
 - Focus the Nation
- Curriculum-Global Awareness
 - Globalization is discussed in classes such as Ecotourism and Bio 105
- Sustainability Infusion in Curriculum
 - BIO 109 is teaching about Native Plant and Wildlife species and the Human Impact
- Environmental Sustainability classes
 - BIO 105 "Environmental Biology"
 - BIO 108 "Plants and Society"
 - BIO 109 "Natural History of the Southwest"
 - BIO 145 "Marine Biology"
 - BLT 140 "Environmentally Responsible Building"
 - BPC 171 "Recycling Used Computer Technology"
 - HRM 290 "Ecotourism"

- Sustainability Projects
 - “Get rid of your Baggage” Event
 - Move campus to Desert Landscaping
 - Establish Hybrid Parking

STUDENTS

- Environmental Clubs
 - Green Club was established in Fall of 2007. Recognized for Best Collaborative Community Service Project “Scottsdale Stadium”
 - Emerging Green Builders SCC Chapter.
- International Students Club
 - The Global Artichokes are a very successful club, encouraging communication between students of all cultures and national backgrounds to attend their meetings and work on creating lasting relationships.
- Phi Theta Kappa or other Green Topic focused Group
 - Keep America Beautiful – Trek against Trash event. Participation in International Coastal Clean Up.
- Recycling clubs
 - Green Club is taking on recycling initiatives such as helping clean up the campus at clean up days, hikes and participates in Statewide, National or International Events
 - Dumpster Dive – Students learn about recycling and receive extra credit for participation.

FACULTY

Several Faculty have implemented sustainability in their classroom teachings. Some inform students directly about the available recycling program on campus; others take a more scientific approach by teaching about the importance of biological diversity, ecology and social justice issues. Others have contacted book publishers to reduce the size of books to the content that they are actually teaching in their classes, since textbooks are not always used in their entirety.

OTHER

- Two (2) Honda Civics were purchased that use alternative Fuel
- Plans are in the works to partner with Follet for spring 2010, offering articles with the Green Artie logo for purchase. It was suggested to divert 10% to 15% of the sales of these items into the Sustainable Initiatives Fund.
- Adopt a Tree program was created to raise money for the Sustainability Efforts of the campus, and to promote the planting of native trees on campus.
- Working with Cintas for sensitive document shredding and recycling.
- Use of spray foam for building roof to decrease air conditioning costs

SOUTH MOUNTAIN COMMUNITY COLLEGE

ADMINISTRATIVE SUPPORT

- Funding for Sustainability Initiatives
 - All Budget requests go through the college Budget Development processes.
- Written Policy, Regulations, Standards
 - The college complies with MCCD regulations

FACILITIES

- Green Building Design
 - South Mountain Community College is currently building a Community Library with the City of Phoenix and will build toward LEED Silver status; it is not intended to become officially LEED accredited.
- Green Water, Energy and Chemistry Practices
 - Laboratory experiments for chemistry are green as possible with lab products being disposed of down the sinks.
- Sustainability Advocates on Green Building Committees
- Facilities Sustainability Coordinator
 - N/A
- Recycling Initiative
 - Coordinated through Phi Theta Kappa

STUDENT SERVICES

- Office of Student Life
 - Student Club activities
- Service Learning Programs
- Scholarships for related study

COMMITTEES

- Faculty Development Team
- Civic Engagement Committee

STUDENTS

- Phi Theta Kappa has adopted Operation Green in conjunction with Keep America Beautiful.

FACULTY

- Center for Teaching and Learning
 - South Mountain Community College set an example for the campus by recycling paper, plastic bottles, aluminum cans and card board. The bins to collect these items are labeled and visible.
- Professional Development: Dialogue Days/Brown Bags
 - Faculty Staff Development will be working with the sustainability Team in 09/10

ATTACHMENT B

DISTRICT WIDE INITIATIVES

Curricular Initiatives

In the past two years, there have been a series of events for faculty focused on global sustainability. These conversations have led to a synergy amongst faculty of different campuses; a listserve for global sustainability was created across the faculty across the district. This learnshop provides faculty the opportunity to learn about the latest research in sustainability. The participants make connections from the real world to the classroom.

Participants will be able to accomplish the following:

- Gather information about sustainability and be empowered to teach in the classroom with information on the latest advances in key areas.
- Empower the participants with knowledge and help them implement sustainability lesson plans into their respective curriculum.
- Demonstrate innovative pedagogy for infusing sustainability in the classroom.
- Demonstrate during workshops many teaching tools and best teaching practices that empower all learners to participate and engage in active learning
- Develop strategies for participants to evaluate, exhibit and celebrate sustainability education.
- Network and exchange ideas for fostering healthy, enduring development and learning opportunities.

Facilities initiatives

Architectural contracts require that buildings be designed to the equivalent of the LEED Silver level, even if the college is not seeking the actual certification. The requirements include higher standards for the building envelope, electrical and water consumption, and insulation, which will result in lower energy and water use along with a healthier environment for the users of our facilities.

The Maricopa Community Colleges have implemented many energy conservation measures including efficient central plant equipment, compact fluorescent light fixtures, and energy-efficient computers and monitors. Our central plant programs also include replacement or conversion from CFC-based refrigerants, which it is claimed, lead to depletion of the ozone layer and which have been banned by international environmental protocols, to more environmentally friendly refrigerants.

Energy management systems have been upgraded from pneumatic to electronic controls throughout the District to provide more comfortable environments that use less energy through more modern controls.

In order to save water, many Maricopa colleges have replaced grass with xeriscape landscaping and they have installed automatic flush valves and faucets as well as waterless urinals

Some colleges are attempting to control emissions by using low VOC (volatile organic compounds) paint and cleaning compounds

Societal Initiatives

- Tone at the Top; “Walk the talk”; Governance
- Talent Maricopa – Recruit, Hire, Retain “Right Fit” Employees
- Workplace Practices – Fairness and equity; Health and Safety; Labor Relations
- Diversity/Inclusion – Student and employee populations; mass customization of services for diverse students; broad definition of diversity
- Academic excellence; flexible delivery; global sustainability initiative; sustainability in the curriculum
- Empowerment Zones
- Maricopa Minority Male Initiative
- Recognition of four or more generations in the workplace together
- Self-Accreditation vs. Federal Government Accountability
- Providing health-care and educational benefits to our own employees, enriching the community in which we live.

Economic Initiatives

- Stewardship – Public Stewardship Training; Ethics; Blue Ribbon Panel; Ombuds Programs
- Risk Management – MIRA Initiative
- Sound Finances – Triple A Bond Rating; increased efficiency and effectiveness
- High impact service Initiative – Expanded stakeholder relationships
- Innovations and leveraging market opportunities (e.g., Rio Salado college’s COMMUNIVERSITY)
- “One Maricopa” Initiative – Collaboration

ATTACHMENT C

BEST PRACTICES AT OTHER COLLEGES AND UNIVERSITIES

Through phone conversations and research at several websites of other community college districts and universities across the country, the following information has been gathered. It is an impressive compilation of efforts to increase the awareness at their campuses about the rising expectation of higher educational institutions in the field of sustainability. Despite an environment of scarce resources, these colleges reflect sustained and persuasive commitment to the triple bottom line. The descriptions provided reflect approaches to finance and staff their effort.

Butte Glen Community College District

Modeling Sustainability is one of five initiatives in Butte College's Strategic Plan.

The college seeks to be climate neutral by 2015.

The on-campus solar arrays currently generate 43% of the college's electricity and have the capacity to produce up to 1.7 Megawatts - enough electricity to power over 500 homes. The college is also focused on energy efficiency. Each new building exceeds state-mandated energy efficiency standards by at least 25%.

The college signed the Talloires Declaration and the President's Climate Commitment. Specific objectives include infusing sustainability into the curriculum, fostering a culture of sustainability, focusing service learning around sustainability, achieving climate neutrality, certifying new and existing buildings to the LEED standard, using the campus as a living laboratory, implementing a sustainable land use plan, modeling democracy and inclusiveness in college practices, and demonstrating leadership in sustainable economic development. Infusing sustainability into the curriculum is an objective under this initiative. Last year the college developed and implemented a 17 credit hour Sustainability Studies Certificate.

The college demonstrates ongoing financial commitment to sustainability by financing approximately \$7 million for solar projects, resourcing a Sustainability Coordinator, and providing funds for the sustainability initiative.

The Sustainability Steering Committee, under the leadership of a Vice President and with representation from Instruction, Facilities, Student Services, and Workforce and Economic Development develops and oversees implementation of the sustainability initiative. The Campus Sustainability Committee, which is open to the entire campus, provides ideas, feedback, and assists in coordinating the initiative.

Berkeley City College

Berkeley City College committed to build all new buildings towards LEED Silver standards. By 2017 the college seeks to have all buildings re-commissioned, by hiring an Energy Service Company financed by bond-money. A full time Sustainability Director for the college, will manage the future college efforts on sustainability.

The college has several Green Programs underway, such as teaching students how to upgrade a house towards green standards.

Building a low input model house, directing a Diesel Technology Program to make diesel motors more efficient.

The college seeks to cut their carbon footprint by 50% by 2014, and to be carbon neutral in 2019.

All students pay a \$32 fee each semester, and are eligible for free bus passes if they take at least 9 credit hours.

80% of the student body voted to make the \$32 a requirement to pay for every student.

To promote Sustainability, the college holds an annual sustainability conference featuring such guest speakers as Karl Anthony, or environmental justice speakers.

Workshops have been established for students and faculty, as well as film festivals catering to the topic of going green and sustainability. Grant moneys are offered to faculty to invite speakers to their classrooms.

Los Angeles Community College District

In 2002, the Los Angeles Community College District's Board of Trustees committed to design and build environmentally friendly educational facilities that would reduce energy consumption and dependence on non-renewable power sources. Today, the District's award-winning \$6-billion Sustainable Building Program, which will add approximately 90 new green buildings throughout its nine colleges, has become one of the nation's largest green building efforts and a model for other educational institutions.

The LACCD has been promoting the issue of sustainability worldwide and it is leading by example. Its Sustainable Works Program at Valley College takes staff, faculty and students through a six-week program of workshops designed to teach them how they can incorporate sustainable habits into their daily lives. Once a week, participants meet to discuss environmental issues, watch movies and go on field trips. They also must perform community service.

The LACCD already operates solar farms on several of its campuses, including a three-acre farm with nearly 6,000 panels at East Los Angeles College and a 1,128-panel solar farm at Los Angeles Mission College. These solar farms produce energy without fossil fuels, noise, pollution or moving parts, making them some of the cleanest and safest ways to generate electricity in an urban environment.

The District also is trying to increase efficiency in other areas by installing and/or retrofitting hundreds of urinals with waterless units. Once the project is complete, the new devices will save the District nearly 50 million gallons of water annually, and reduce capital costs and water consumption.

The LACCD's green procurement policies also have resulted in an increased demand for recyclable materials and furniture. Thanks in part to the LACCD's demand for furniture, lighting and flooring products with substantial recycled content, manufacturers are now selling environmentally sensitive products, including furniture made with 100 percent renewable materials. The District has made its bulk purchasing process available to all California educational and governmental agencies as well as nonprofit organizations, giving these groups the opportunity to bulk purchase sustainable products at discounted rates.

The District has established a Green Building Policy and hired a consulting company to do a carbon footprint analysis. They used about \$40,000 to hire this company once a year for the past 3 years.

This district has a power purchase agreement with their utility provider, and has installed solar panels through a third party entity (Johnson Controls) www.laccdbuildsgreen.org.

Lane Community College

Lane Community College has several sustainability programs in place. A Solar Electric Installation Class was established in spring of 2008, a Sustainability Coordinator Associates in Applied Science.

The Sustainability Office Staff include a Sustainability Coordinator, a Recycling Coordinator and an Energy Analyst which report to the Vice President of Operations. A Sustainability Committee, which meets monthly, advises the sustainability team and takes an active role in implementing projects. A Sustainability and Learning Committee, which is comprised mostly of faculty is also involved in the decision making. This planning has resulted in the following achievements:

- Meet or exceed U.S. Green Building Council's Leadership in Energy and Environmental Design Green Building Rating System certified standards.
- Construct climate responsive energy efficient facilities using integrated design.
- Offset the negative impact of construction such that there is no net loss of current ecological functions on the college's property.
- Maintained memberships with AASHE, Association of Oregon Recyclers, National Recycling Coalition, and USGBC.
- Received an Association of Oregon Recyclers recycling organization of the year award.
- Highlighted as sustainable campus of the month on the EFS website.
- Hosted many on campus workshops and lectures as well as prepared many articles and other materials for on campus distribution to help incorporate sustainability into the fabric of Lane.

Portland Community College

In December 2006, The Portland Community College Board of Directors passed the *Sustainable Use of Resources Policy* (Policy B-707), which commits PCC to "becoming a leader in academic programs and operational practices that model the sustainable use of resources, so that the needs of current generations are met without impairing the ability of future generations to meet their own needs."

In 2007, President Preston Pulliams joined hundreds of other colleges and universities as the 290th signatory of the *American Colleges and Universities President's Climate Commitment* (ACUPCC).

In late 2007, President Preston Pulliams convened the Climate Energy Leadership Taskforce (CELT) to act as the ACUPCC planning organization. CELT is co-chaired by the Sylvania Campus President and Director of Physical Plant, and is supported by the PCC Sustainable Practices Coordinator. It is made up of several other members, including VP of Finance, District Transportation Manager, Operations Managers, and ASPCC students. CELT hosted several experts on sustainability, each delivering cutting-edge presentations and workshops focused on building climate-positive institutions. CELT is now moving into the planning and writing phases of the ACUPCC Action Plan.

Staff positions include 1) District Sustainable Practices Coordinator, 2) Rock Creek Campus Sustainability Coordinator (part time) 3) three Sustainability Student Government positions at three campuses (part time) 4) soon hiring a Sylvania Sustainability Coordinator to work from the Sylvania Environmental Center, and 5) Several work study positions at three campuses.

PCC Green Teams are volunteer based groups that help support and develop campus sustainability. Green Teams are chaired and attended by faculty, staff, and students. The teams have been active at all campuses. PCC Green Teams organized events and held regular meetings to keep updated on 'pockets of sustainability' that pop up on all PCC campuses. The Rock Creek Green Team developed a 'green team' webpage that is still in the works. Sylvania and Rock Creek Green Teams supported the learning gardens, recycling, and many other sustainability initiatives on campuses. Green Teams at all campuses came together strongly to organize around Focus the Nation and Earth Week.

Grounds space has been allocated for three learning gardens. Within PCC buildings, Sustainability has two cubicles at Rock Creek campus, one cubicle in district physical plant, and the Sylvania Environmental Center, which was opened with the support of the Sylvania Campus President.

PCC is a member of AASHE and Natural Step.

Middlebury College

A vision for sustainability and an emphasis on cultivating leadership are supported by:

- policies of environmental stewardship and carbon reduction;
- strategic and master plans that empower the college community to work together on implementation;
- a full-time Dean of Environmental Affairs;
- a full-time Sustainability Coordinator;
- environmental liaisons in many departments, e.g.: Athletics, Residential Life, Communications, Study Abroad, Advancement, and Facilities.
- senior leadership at the highest levels that embrace and practice sustainability in carrying out their responsibilities to the institution; and
- an Environmental Council of students, faculty and staff has advised the President on sustainability issues and policy. This Council also administers a fund to support collaborative sustainability projects proposed by faculty, staff and students.

To illustrate how this all comes together, consider the process leading to a vote by the Trustees in May 2007 to become carbon neutral by 2016 and to sign the American College and University Presidents' Climate Commitment.

The process began in 2004 when Trustees set a goal to reduce emissions to 8% below 1990 levels by 2012. That goal was established after a task group of students, faculty and staff presented Trustees with a portfolio of carbon reduction actions, many of which were implemented, including a decision to go forward with construction of an \$11-million cogeneration system powered by woodchips - a local, renewable, carbon-neutral fuel. These efforts will help to cut the College's use of #6 fuel oil in half and put it very close to achieving its initial carbon reduction goal.

In October 2006, students proposed a new goal of carbon neutrality by 2016 pointing to scientific evidence that climate warming is proceeding at unprecedented rates and a need to move boldly toward solutions to this great challenge. The Trustees asked students to work with faculty and staff to develop strategies for carbon neutrality. The students presented a report to the Trustees in February'07 to which they responded positively by charging the College Treasurer to form a team of students, faculty and staff to analyze the risks of carbon neutrality and how to manage them. This team worked diligently to prepare an analysis which was presented at the Trustees May'07 meeting. The Trustees responded favorably and charged the college community to move forward with implementation of this new goal.

Oberlin College

In 2006 the College created the Office of Environmental Sustainability (OES). The OES provides leadership to the Oberlin community in implementing the College's comprehensive Environmental Policy in support of the College's strategic goal of sustainability. The OES interacts with the administration, faculty, staff and students to focus attention on ways to maximize the environmental

performance of Oberlin College and develop the tools and awareness required to respond dynamically to issues affecting them.

In November 2006 the General Faculty approved the creation of the Committee on Environmental Sustainability (CES). The OES works closely with the CES to develop a work plan for the office and sustainability priorities for the College. Together, the OES and CES review, propose, and oversee implementation of the Oberlin College Environmental Policy. Additionally, they support and facilitate efforts by the College to publicize its role as a leader in campus sustainability and environmental citizenship in general.

When Oberlin College agreed to purchase an estimated 40% of its electricity from green sources, the College worked with the municipal power utility and the City Council to create a Sustainable Reserve Fund from the money paid towards green attributes. This fund contains the \$2 per MWhr that Oberlin pays as a premium for green power. This money is overseen by the City Council and is available for local energy conservation and greenhouse gas reducing projects.

Foothill-De Anza Community College District

Foothill-De Anza aims to be a model for educational institutions nationwide. The Kirsch Center for Environmental Studies (a LEED-certified building), which opened at De Anza in 2005, teaches about sustainability, including showcasing passive solar design, energy efficiency and renewable energy technologies as a fundamental objective of educating students and the community. It includes a Statewide Energy Management Program (SEMP) promoting energy efficiency in state facilities and uses the entire building as a demonstration laboratory, among its unique features. The building was made possible by a generous \$2 million grant by community members Steve and Michele Kirsch through their Kirsch Foundation, the vision for which is "...a healthy world, one without disease and without pollution of our air, water and land, and one in which all species have the ability to survive and flourish."

The Kirsch Center is overseen by Executive Director Pat Cornely, whose unique position involves teaching about the building's resources and proper function and helping faculty, staff, students and the public learn about sustainable practices by leading tours of the Kirsch Center. She communicates and coordinates extensively with agencies and organizations such as the U.S. Green Building Council (USGBC), California Energy Commission, U.S. Army Corps of Engineers, Environmental Protection Agency (U.S. EPA and Cal EPA), California Native Plant Society (CNPS), Sierra Club and others. Cornely holds a certificate of completion in energy management.

ATTACHMENT D

Maricopa County Community College District Sustainability Resolution

The Maricopa County Community College District and its ten colleges are actively committed to sustainable stewardship of environmental resources and socially responsible practices. Through this resolution MCCCCD will pursue the implementation of the three elements of sustainability: environmental responsibility, social equity, and economic viability. We will make decisions and take actions to satisfy our present needs without compromising the ability of future generations to meet their needs.

MCCCCD seeks to strengthen efforts to protect the environment, to support equitable access to resources, and to foster and celebrate diversity. We will strive to prepare students with the knowledge, awareness, and technical competencies needed to steward the planet for generations to come. We will collaborate with our community partner through civic engagement and service to improve quality of life. Environmental stewardship, as well as concern for economic and social impacts and issues, is integral to MCCCCD's mission of providing the Phoenix metropolitan area, the State of Arizona, our nation, and the world with a well-educated and globally aware citizenry.

In carrying out this resolution, the MCCCCD leadership will recognize and encourage our internal and external communities to identify opportunities, to develop strategies, and to initiate and replicate practices that reflect our sensitivity toward the impacts of our social, economic, and environmental actions. Thereby we hope to achieve our goal of becoming a leader in our community and among educational institutions that value sustainability.

Governing Board – December 8, 2008

ATTACHMENT E

Maricopa County Community College District Sustainability Council

It is proposed to create a district-wide Sustainability Council, to plan, develop and sponsor strategic initiatives and activities by which MCCCCD will operationalize the tenets of the Triple Bottom Line, which includes environmental, economic and social justice stewardship.

Catering to MCCCCD's mission of educational excellence, this newly formed council will be charged to guide district efforts in fulfilling that pledge and to align with similar efforts within the Phoenix metropolitan area and across the State of Arizona, our nation, and the world.

Membership, Support and Expectations

The council will include members broadly representative of the district functional areas, with external advisors from its broader community, including those with expertise in any of the three elements, students, public school and other higher education representatives, and other categories deemed necessary to accomplish district goals. Members will also be selected based upon willingness and capacity for active council membership and participation. Officially appointed by the Chancellor, members will serve two or three-year terms, running from July 1 each year.

Reporting to the Chancellor, the council will be co-chaired by one college and one district-level member, elected/selected by the council as a whole. MCCCCD will provide administrative staff support for meetings as well as manage the council's work program.

The council will meet a minimum of three times annually, with additional council meetings and/or subcommittee meetings as needed to accomplish the work program. With assistance of MCCCCD administrative staff, in August of each year, the council will present to the Chancellor, an annual report of progress, plan renewal and priorities for the future.

Rationale for this Council

Sustainability is a core value for MCCCCD.

Through the adoption of the district's Sustainability Resolution, district personnel are working within the Triple Bottom Line framework; the district has the expertise, the critical mass and the ability to educate our students regarding the pathway toward a better future for our world.

Students and community members look to the colleges and universities to take the lead in addressing the persistent, perennial and often dramatic challenges to our physical, social and economic future.

Though not widely appreciated, even during this difficult economic climate, colleges and universities and cities are discovering the long-term fiscal advantage of sustainable practices.

The council, reporting directly to the Chancellor, is a highly visible statement to the district and community at-large, about the importance of this part of our mission.

Charge

The Council will be charged with developing an MCCCCD Sustainability Plan that reflects the elements of the Triple Bottom Line, and other strategic and operational plans, e.g. transportation, purchasing, solid waste, academic/instructional, IT, etc., to reduce the carbon emissions output of the district colleges and ultimately achieve carbon neutrality.

Membership:

TBA

Staff Support:

TBA

REFERENCES

The information included in this report was compiled by phone conversations with the following organizations, and from the following web-pages.

Los Angeles Community College

Retrieved from <http://www.gogreenlaccd.edu>

Lane Community College

Retrieved from <http://www.lanecc.edu/sustainability>

Oberlin Community College

Retrieved from <http://www.oberlin.edu/sustainability/>

The American College and University Presidents Climate Commitment

Retrieved from <http://www.presidentsclimatecommitment.org>

The Association for the Advancement of Sustainability in Higher Education

Retrieved from <http://www.aashe.org>

Foothill-De Anza Community College District

Retrieved from <http://www.fhda.edu/sustainability/>

Middlebury College

Retrieved from <http://www.middlebury.edu/enviro/>

Berkeley City College

Retrieved from <http://www.sustainableperalta.org>

Portland Community College

Retrieved from <http://www.pcc.edu/about/sustainability/>

ADDENDUM 1

Sustainability Instructional Council

March 3, 2010

Below you will find the latest updates about the sustainability IC in addition to the information on page 9 about the Sustainability Instructional Council and the teaching and learning issues:

The formation of the new sustainability instructional council is a critical step in order to develop curriculum for courses in the interdisciplinary area of sustainability. This is critical in order to develop quality well rounded education in sustainability and instill a sense of responsibility and values in our students. Programs and courses in sustainability will add to Maricopa's reputation as a forward thinking institution.

Due to the interdisciplinary nature of Sustainability, an email was sent to all 53 instructional council chairs and their members requesting that they send representatives from their disciplines to serve on the Instructional Council (IC) for sustainability if it applies to their discipline. Once the disciplinary representation was determined and identified, colleges lacking representation to IC sustainability were then contacted individually to identify members to serve on the IC sustainability.

The Sustainability Instructional Council members have currently determined three prefixes SUS (Natural sciences), SSH (Social sciences and Humanities) and SCT (Career and Technical education). The prefixes SUS and SSH were approved by the district curriculum committee in February 2010. Currently, a third prefix proposal SCT is being developed for Sustainability in Career and Technical education.

As a result of the efforts of the IC sustainability, courses and certificate programs are being developed by the Maricopa faculty. The district curriculum committee (DCC) has approved a set of guidelines that were developed by the Curriculum Design Facilitators for interdisciplinary Instructional Councils such as sustainability. Based on the DCC-approved guidelines, the hiring qualifications for the prefixes of sustainability are presently being developed and will be submitted to the Governing Board approval.

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Glendale Community College
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Glendale, Arizona 85302
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Mesa Community College
1833 West Southern
Mesa, Arizona 85202
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Paradise Valley Community College
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Phoenix College
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Phoenix, Arizona 85013
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Rio Salado College
2323 West 14th Street
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Scottsdale Community College
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