The Role of Higher Education in Creating a Sustainable World
Welcome to Arizona State University and the Association for the Advancement of Sustainability in Higher Education’s inaugural conference, AASHE 2006: The Role of Higher Education in Creating a Sustainable World. We are honored to have been selected to host this extraordinary event.

As ASU moves forward in implementing its University-Wide Sustainability Initiative and building the Global Institute of Sustainability, we are placing an emphasis on vigorously engaging the intellectual energies of our entire university. ASU is building an environment where we can be organized as a university around the central theme of sustainability. In September, we gathered to assess our progress in this task. A number of efforts throughout research, teaching and operations indicated that momentum is building. However, I would argue that the challenges we are facing continue to move faster than the university-wide efforts of ASU or the collective efforts of our global community are confronting them.

Like ASU, AASHE recognizes the need to pursue an integrative approach to sustainability. This inaugural event marks the expansion of efforts to coordinate around issues of sustainability in higher education at a national level and the beginning of a new trajectory for ASU. AASHE’s embrace of NGOs, government agencies, and businesses as critical partners in the effort to advance sustainability reflects the type of collaborative approach that ASU is committed to.

AASHE 2006 will provide all of the attendees a chance to conduct an intellectual exchange that could catalyze a new approach to the issue of sustainability. We hope that you enjoy your time at our campus and the conference. Even more importantly, we hope that you arrive with the sense of urgency our current situation demands and leave stimulated to achieve the cultural transformation necessary for higher education to lead the way in achieving a sustainable society.

Michael M. Crow
President
Arizona State University
Welcome!

We are pleased to welcome you to ASU’s campus for the inaugural North American conference of the Association for the Advancement of Sustainability in Higher Education (AASHE).

AASHE 2006 offers an exciting and unique opportunity for every sector of higher education to come together to demonstrate how colleges and universities can lead the way to a sustainable future. Whether you are a student or administrator, faculty or staff, community or business member, your participation in this inspiring event is appreciated. While at ASU, please take time to visit the Global Institute for Sustainability, the Decision Theater, The Biodesign Institute, the Interdisciplinary Science and Technology Building, and many of the other wonderful and innovative units dedicated to sustainability.

James Buizer                                             Anthony Cortese
Conference Co-Chair                                    Conference Co-Chair
Arizona State University                                       Second Nature, Inc
The Association for the Advancement of Sustainability in Higher Education thanks you for attending its inaugural conference. We are thrilled to see the sustainability movement in higher education growing in leaps and bounds, as there is much urgent and important work to be done. Over 650 people have registered for AASHE 2006, in addition to more than 100 exhibitors and volunteers, making this the largest campus sustainability gathering in North America to date.

The conference showcases the depth and range of sustainability initiatives at colleges and universities in North America. Every sector of higher education is represented, from students to upper level administrators to professional association staff, as well as businesses, NGOs and government agencies interested in sustainability in higher education.

I encourage you to attend sessions outside your usual range of interest. With over 230 different presentations, from papers and field reports to panels, roundtables, workshops and posters, the choices are many. Special thanks to the review committee, which worked to select presentations that reach beyond “sustainability 101.”

I hope this conference inspires, reinvigorates, instructs, and supports your work on campus, and that you connect with colleagues and make many new friends. Thank you for your part in working to create a sustainable world, and enjoy the meeting!

Judy Walton
Executive Director, AASHE

Welcome to AASHE 2006. We are excited to have you here and hope you enjoy the conference. The Local Logistics Committee consists of a multi-partnership from Facilities Management, University Business Services, Global Institute of Sustainability, and the Office of Sustainability Initiatives. This group has given a Yeoman’s effort working very hard to make this event a success; it would not have been possible without them and the extensive support from their departments. Sustainable practices have been demonstrated in the planning and execution of the conference, but one of the best outcomes has been in the longer terms impact for the ASU. As a result of this conference we are expanding our already extensive sustainability practices on campus, developing new ideas ranging from the materials used in our buildings, to the products and practices in our daily operations and food services. This component is a critical piece to the University-wide Sustainability Initiative at ASU. Thank you for this opportunity.

Have fun and enjoy your visit to ASU.

Bonny Bentzin
Assistant Director, Sustainability Initiatives, Office of the President
Arizona State University
Chair, Local Arrangements Committee
AASHE 2006
AASHE would like to thank the following sponsors for their generous support:

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- Second Nature
- SRP
- Sterling Planet
- University of Arizona
- Valley Forward
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Bill McKibben

McKibben is a visiting scholar in environmental studies at Middlebury College, and the author of The End of Nature, (1989) which sounded one of the earliest alarms about global warming. His six other books include Hope, Human and Wild, Long Distance, and Maybe One which took on the most controversial of environmental problems, population. A former staff writer for The New Yorker, his work appears regularly in The Atlantic, The New York Review of Books, The New York Times, Harpers, Outside, and many other national publications. McKibben continues to question society’s path and advocates for simplifying our everyday lives and recovering the things that really matter. Prior to his arrival at Middlebury, he was a fellow at the Harvard University Center for the Study of Values in Public Life. He is the recipient of Guggenheim and Lyndhurst fellowships, and the winner of the 2000 Lannan Prize in Nonfiction Writing. McKibben holds honorary doctorates from several institutions and received a Bicentennial medal from Middlebury College in 2000. He lives with his wife and daughter in the Adirondack Mountains of New York.

Ray Anderson

Anderson is chairman of Interface, Inc., the world’s largest producer of commercial floor coverings, whose modular carpet tiles helped revolutionize the modern office. He founded the company in Atlanta in 1973 and has turned Interface into an environmentally friendly enterprise, reducing its environmental footprint by one-third. His book Mid-Course Correction: Toward a Sustainable Enterprise: The Interface Model, helped prove to other businesses that they could protect the environment while increasing profits. Today, Anderson is recognized as one of the world’s most environmentally progressive chief executives, having served as co-chair of the President’s Council on Sustainable Development during the Clinton administration and having been recognized by Mikhail Gorbachev with a Millennium Award from Global Green in 1996. His honors also include the prestigious Mitchell International Prize for Sustainable Development (2001); SAM-SPG Sustainability Leadership Award (2001); U.S. Green Building Council’s Inaugural Leadership Award (2002); and National Wildlife Federation’s Conservation Achievement Award for Corporate Leadership (2002). He was recently named a Senior Fellow and Leading Voice for Green and Sustainable Design by the Design Futures Council. An honors graduate of Georgia Institute of Technology, he holds honorary doctorates from Northland College, LaGrange College, and N.C. State University.
Beverly Wright
Wright is a sociologist and leading scholar on environmental and economic justice and public policy. She is the founder and director of the Deep South Center for Environmental Justice, one of the few community/university partnerships that address environmental and health inequities in the Lower Mississippi River Industrial Corridor, commonly referred to as “cancer alley.” Wright has conducted groundbreaking research in the area of environmental justice and has developed an environmental-justice curriculum for use at the elementary-school level. She has directed numerous grassroots, community-initiated health surveys, evaluated community buyouts, and supervised community development initiatives around contaminated sites. She has served on the National Environmental Justice Advisory Council, chaired the Second National People of Color Leadership Summit, and co-chairs the Environmental Justice Climate Change Initiative.

Hunter Lovins
Lovins is president of Natural Capitalism, Inc. (www.natcapinc.com). She holds a JD and several honorary doctorates, and has taught at numerous universities including Dartmouth College and the Universities of California and Colorado. Currently a professor of business at Presidio World College, Lovins has founded and grown several businesses and co-founded the Rocky Mountain Institute, where she served for 20 years as CEO. She has lectured extensively in over 15 countries, including at the World Economic Forum at Davos, The International Symposium on Sustainable Development in Shanghai, and the World Summit on Sustainable Development. She has consulted for industries and governments worldwide, as well as such multinational companies. She has also worked with community groups, local economic-development agencies and municipal governments. Lovins shared a 1982 Mitchell Prize, a 1983 Right Livelihood Award (often called the “alternative Nobel Prize”), the 1993 Nissan Prize, and the 1999 Lindbergh Award. In 2000 she was named Time Magazine Hero of the Planet. She has co-authored nine books, including Natural Capitalism (1999), and hundreds of papers, including briefings for Presidents Clinton and Bush and British Prime Minister Tony Blair. She is currently working in Afghanistan on a variety of projects, including the Afghan Cluster Competitiveness Project.
Society for College and University Planning

Sustainability and Planning: An Integrated Approach to Academics, Resource Planning, and Facilities

October 14 Workshop
At the InterContinental Kansas City at the Plaza

The need for increasing sustainability has never been greater. Colleges and universities can lead the way, but it’s not always clear how best to do that. Join colleagues and top experts to learn how you can help empower your campus to successfully integrate sustainable practices.

What you will gain:
• An enhanced understanding of how to bridge the gaps across existing initiatives.
• Best practices for bringing integrated planning to campus sustainability efforts.
• Techniques for engaging others in sustainability.

www.scup.org/calendar/

Where Is Your Campus on the Continuum of Integrated Sustainability Planning?

October 25 Webcast

This no-travel webcast will share comprehensive case studies about how the following campuses are integrating sustainability in operations, policy, resource planning, and curriculum:

• Arizona State University
• Harvard University
• Grand Valley State University
• Pima Community College

Many campuses make the most of this event by inviting people from all departments, and disciplines, even from across the campus edge, to share in poster sessions, demonstrations, and pre- or post-webcast panels. They make Campus Sustainability Day a major celebration on their campuses. Purchase one license to share the webcast in your auditorium.

www.scup.org/csd/4/

We thank our sponsors—Baltix Sustainable Furniture, Gilbane Higher Education, and Itron. Special thanks to University Business for promotional assistance. Sponsorships are available, contact Betty Cobb at betty.cobb@scup.org.

339 E. Liberty Street, Suite 300, Ann Arbor, MI 48104 • 734.998.7832 • info@scup.org
Join SCUP today! Visit www.scup.org/membership/.
Wednesday, October 4

MU = Memorial Union

12:00 – 4:00 Optional Tours & Events – see pg. 7
3:00 – 6:00 Poster Set-Up; Expo Set-Up
3:30 – 5:00 Registration

4:45 – 6:00 Opening Reception (Sponsored by GIOS)

Jim Buizer – Special Advisor to the President, ASU
Chuck Redman – Director, Global Institute of Sustainability, ASU

6:30 – 7:00 Welcoming Remarks

Jonathan Fink – VP for Research & Economic Affairs, ASU
Julie Walton – Executive Director, AASHE

7:00 – 8:00 Keynote: “Global Warming as the Ultimate Teachable Moment”

Bill McKibben – Author, Journalist, Lecturer

8:00 on Night on the Town

Thursday, October 5

6:30 – 7:30 “A” Mountain Hike (optional)
7:30 – 6:00 Registration
7:30 – 8:30 Continental Breakfast
8:30 – 9:00 Conference Opening Remarks

Jim Buizer – Conference Co-Chair
Julie Wrigley – Co-Chair, Global Institute of Sustainability Board

9:00 – 10:00 Keynote: “New Thinking – A Better Way!”

Ray Anderson - Interface Flooring

9:30 – 4:00 Expo, Posters
10:00 – 10:15 Break
10:15 – 11:45 Concurrent Sessions A
11:45 – 1:00 Lunch & Expo
(Lunch will be available at the Expo and in the Memorial Union)
1:00 – 2:30 Concurrent Sessions B
2:30 – 3:30 Poster Session
3:30 – 5:00 Concurrent Sessions C
5:00 – 6:00 Reception (Sponsored by HDR Architects)

Wellington Reiter – Dean, College of Design, ASU

6:00 – 7:00 Dinner (Hosted by Sodexho Campus Services)
7:00 – 8:15 AASHE Awards & Recognition (Sponsored by Office Depot)

Julian Dautremont-Smith – Associate Director, AASHE
Sheri Tonn – Chair, Board of Directors, AASHE
Anthony Cortese – President, Second Nature
Thursday, Continued


Beverly Wright – Director, Deep South Center for Environmental Justice

Friday, October 6

6:45 – 7:45  Yoga (optional)

7:30 – 3:00  Registration

7:30 – 8:30  Continental Breakfast

8:30 – 10:00  Concurrent Sessions D

9:30 – 3:00  Expo, Posters

10:00– 10:15  Break

10:15 – 11:45  Plenary 1: “Higher Education and Global Warming” (Sponsored by Powersmiths International Corp)

Introduction: Anthony Cortese – Second Nature
Julian Keniry (moderator) – National Wildlife Federation
Eban Goodstein – Lewis & Clark College
Billy Parish – Energy Action Coalition
Brandon Armstrong – Tennessee Alumni and Students for Sustainable Campuses

11:45– 12:45  Lunch

12:45– 2:15  Concurrent Sessions E

2:15 – 2:30  Break

2:30 – 4:00  Plenary 2A: “Rebuilding as We Sail: Creating New Norms for Sustainability”

Introduction: Brenda Shears – Arizona State University
Yolanda Moses (moderator) – University of California, Riverside
Debra Rowe – US Partnership for Education for Sustainable Development
Jean MacGregor – The Evergreen State College
Jim Farrell – St. Olaf College

Plenary 2B: “Feeding Institutional Transformation Through Local Food Systems” (Sponsored by Aramark)

Introduction: Kathy Jacobs – Arizona Water Institute
Ginny Peckinpahugh (moderator) – Oregon Campus Compact
Tom Kelly – University of New Hampshire
Tim Galarneau – University of California, Santa Cruz
Celine Fitzmaurice – Portland State University
### Conference Overview

#### Friday, Continued

<table>
<thead>
<tr>
<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>4:00 – 5:30</td>
<td>Concurrent Sessions F</td>
<td>MU 2nd Floor</td>
</tr>
<tr>
<td>5:30 – 6:00</td>
<td>Break</td>
<td>MU AZ Ballroom/Ventana</td>
</tr>
<tr>
<td>6:00 – 7:00</td>
<td>Keynote: “Natural Capitalism, Path to Sustainability, Education … And a Lot Else”</td>
<td>MU AZ Ballroom/Ventana</td>
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*Hunter Lovins - Natural Capitalism Solutions, Inc.*

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<th>Time</th>
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<tr>
<td>7:00 – 7:15</td>
<td>Conference Closing Session</td>
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*Jim Buizer- Special Advisor to the President, ASU*

*Anthony Cortese– Second Nature*

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<th>Time</th>
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<tbody>
<tr>
<td>7:15 - 9:00</td>
<td>Student Convergence</td>
<td>TBA</td>
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#### Saturday, October 7

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<th>Location</th>
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<tr>
<td>8:00 – 5:00</td>
<td>Student Convergence</td>
<td>MU212, 219 and 221</td>
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#### Optional Tours & Events

**Wednesday, October 4th**

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<th>Time</th>
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<tr>
<td>12:00 – 1:00</td>
<td>Tour of Decision Theater (sign-up @ reg desk required)</td>
<td>Tempe Brickyard</td>
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<tr>
<td>1:30 – 2:30</td>
<td>Tour of Decision Theater</td>
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<tr>
<td>3:00 – 4:00</td>
<td>Tour of Decision Theater</td>
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<tr>
<td>2:30 – 4:00</td>
<td>Sneaker Tour of ASU Arboretum (sign-up required)</td>
<td>Old Main Fountain</td>
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**Thursday, October 5th**

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<th>Time</th>
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<tr>
<td>6:30 – 7:30</td>
<td>“A” Mountain Hike (optional)</td>
<td>Mill Ave &amp; 3rd St.</td>
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<tr>
<td>12:00 – 1:00</td>
<td>Tour of Decision Theater (sign-up @ reg desk required)</td>
<td>Tempe Brickyard</td>
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<tr>
<td>1:30 – 2:30</td>
<td>Tour of Decision Theater</td>
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<tr>
<td>3:00 – 4:00</td>
<td>Tour of Decision Theater</td>
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**Friday, October 6th**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:45 – 7:45</td>
<td>Yoga</td>
<td>Student Recreation Center</td>
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<tr>
<td>12:00 – 1:00</td>
<td>Tour of Decision Theater (sign-up @ reg desk required)</td>
<td>Tempe Brickyard</td>
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Sodexo’s Corporate Responsibility journey in North America encompasses responsible practices related to social, environmental and business integrity concerns. Within each of these three areas, Sodexo has many practices, programs and services that are dedicated to improving the quality of daily life for our clients and our customers.

Environmental
- Sustainability Initiatives
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- Easter Seals Recycling Initiative
- Supplier Code of Conduct
- Increased Communication, Education and Awareness-building with Clients and Employees
- Newly-launched Environmental Sustainability Initiative

Social
- Stop Hunger
- Diversity and Inclusion
- Nutrition and Wellness
- Employee Health & Safety
- Growth and Development of our Employees
- Work/Life Balance
- Sodexo University
- Recognition Programs
- Community Outreach
- Disaster Relief

Business
- Senior Vice President of Corporate Responsibility & Corporate Affairs
- Vice President of Compliance
- CP-101 Ethical Company Policy
- Business Conduct Guide
- Ethical Value Training
- Annual Ethical Survey
- Ethical Abuse Hotline
- Legal and Ethical Compliance Committee
- Project CLEAR (Sarbanes-Oxley Act compliant)
- Food Safety and Quality

Sodexo
Making each day a better day
Thursday, October 5
Session A (10:15-11:45)

Papers

A1 LEEDing the Way
MU218-Pima
Chair: Jerry Yudelson, Greenway Consulting Group, LLC
10:15 Best Practices for Facilities Management: Using LEED EB to Improve the Bottom Line
Tia Heneghan, Sustainable and Green Economics
10:35 How to Achieve the Best LEED Results Cost-Effectively: Lessons from the Front Lines
Mark Wilhelm, Green Ideas, Inc.
10:55 U of W Merrill Hall Center for Urban Horticulture: Lessons Learned
Matthew Younger, Stantec Consulting
11:15 Case Study on LEED Prototype Credits
Cynthia Hughes-Doyle, Davis Langdon

A2 The Road to Greenhouse Gas Reduction
MU222-Mohave
Chair: Robert Cole, The Evergreen State College
10:15 The Role of Graduate Students in the Next Industrial Revolution
Daniel Worth, National Association of Environmental Law Students
10:35 The Winding Road to Greenhouse Gas Reduction at Middlebury College
Jack Byrne, Middlebury College
10:55 New Jersey Higher Education Presidents’ Innovative Commitment to GHG Emissions Reductions
John Casack, New Jersey Higher Education Partnership for Sustainability
11:15 Measuring Evergreen’s Campus Carbon Budget
Robert Cole, The Evergreen State College

A3 Marketing, Finance, and Sustainability
MU213-Santa Cruz
Chair: Kate Lancaster, Cal Poly San Luis Obispo
10:15 Integrating Sustainability into the Marketing Curriculum
Claudia Bridges, California State University Sacramento
Wendy Wilhelm, Western Washington University
10:35 Sustainable Endowments: Harnessing University Investment Power
Mark Orlowski, Sustainable Endowments Institute
10:55 The Role of Institutional Investment Policies in Creating a Sustainable World
Rex LaMore, Michigan State University

11:15 Teaching Accounting and Financial Management to Support Sustainability
Kate Lancaster, Cal Poly San Luis Obispo & Bainbridge Graduate Institute

A4 Sustainability In and Out of the Classroom
MU212E-Cochise E
Chair: Greg Peterson, Arizona State University
10:15 The Community Sustainability Partnership- Working Together to Build Sustainable Communities in West Michigan
Norman Christopher, Grand Valley State University
10:35 Teaching Skills and Sustainability: Using a Thematic Approach to Addressing Sustainability in Skills-Based Courses
Heather Burns, Portland State University & University of Portland
10:55 Do Sustainability Courses Affect Environmental Attitudes and Behavior? Evidence from a Liberal Arts College
Scott Steele, Bema College
11:15 A University-Wide Model for Teaching Sustainable Cities
David Pijawka, Arizona State University
Greg Peterson, Arizona State University
Priya Madhavan, Arizona State University

Field Reports

A5 Leveraging Change
MU-208F Turquoise
Chair: Carol Brodie, University of the Pacific
10:15 Broadening Participation in Sustainability 1
Susan Swensen, Ithaca College
10:25 Broadening Participation in Sustainability 2
Jason Hamilton, Ithaca College
10:35 Rewire: Community-Based Social Marketing at the University of Toronto
Chris Camer, University of Toronto
10:45 University of Toronto Sustainability Office: Academic and Operational
Chris Camer, University of Toronto
10:55 Two Bucks Each: How Student Fees Can Add Up to Big Changes for the Campus Sustainability Movement
Steve Mital, University of Oregon
11:05 Student Leadership for Regional Sustainable Transportation
Daniel Roth, Cornell University
11:15 Student-Centered Sustainability
Courtney Voss, California State University, Chico
AASHE 2006 Sessions

Panels, Roundtables, Workshops (10:15-11:45)

A6 Panel: Changing the Way We Think in Universities
MU203-Gold
Moderator: James Biggar, University of British Columbia
Changing the Way We Think in Universities
James Biggar, University of Victoria
Making the Cultural and Environmental Commons the Focus of Reforming Universities
Chet Bowers, University of Oregon
The Importance of Big Ideas or, How to Encourage Active Wisdom.
Marcus Ford, Northern Arizona University
Towards the "Planetary University"
Michael M’Gonigle, University of Victoria

A7 Panel: Campus Environmental Master Plans: Balancing Growth and the Environment
MU219-Navajo
Moderator: R Umashankar, HGOR, Inc.
Martha Droge, Ayers/Saint/Gross
James R Johnson, Emory University
Cindy Pollock Shea, University of North Carolina at Chapel Hill

A8a Panel: Collaborative Water Harvesting at the University of Arizona (45 mins)
MU215-Pinal
10:15 Moderator: Emilie Brill Duisberg, University of Arizona
Grant McCormick, University of Arizona
Jim Riley, University of Arizona
Prabjit Virdee, University of Arizona

A8b Panel: Green Computing on Campus (45 mins)
MU215-Pinal
11:00 Moderator: Maureen Cane, Silicon Valley Toxics Coalition
John Katz, US Environmental Protection Agency

A9 Roundtable: A Cohort-Based Model for a PhD Program in Sustainability Education
MU223-La Paz
Organizer: Rick Medrick, Prescott College
Janice Crede, Prescott College
Henry Esharh, Prescott College
Linda Edwards, Prescott College
Jane Nichols, Prescott College
Gregory Roberts, Prescott College
Terril Short, Prescott College
Paul Sned, Prescott College
Chad Thatcher, Prescott College

A10a Panel: Campus as Community: Using Saul Alinsky’s Organizing Principles for Sustainability (45 mins)
MU208D-Havasupai
10:15 Moderator: Riley Neugebauer, American University
Jared Duval, Sierra Student Coalition
Taylor Jackson, Arizona State University

A10b Roundtable: Red State Sustainability: Making Effective Arguments for Sustainability within Conservative Communities (45 mins)
MU208D-Havasupai
11:00 Moderator: K.D. Hatheway-Dial, University of Idaho
Claudia Hemphill Pine, University of Idaho

A11 Workshop: Engaging Imagination: Encouraging a Culture of Sustainability on Campus
MU208E-Kaibab
Liz Forsberg, York University
Laura Reinsborough, York University
Andrew Wilson, York University

Thursday, October 5
Session B (1:00-2:30)

Papers

B1 Service Learning for Sustainability
MU218-Pima
Chair: Jim Farrell, St. Olaf College
1:00 Jumping from the Ivory Tower: Connecting Colleges and Communities to Promote Environmental Leadership
Rosemarie Russo, Front Range Community College

B2 Energy Management & Green Power
MU222-Mohave
Chair: Andrea Putman, The Cadmus Group, Inc.
1:00 Developing and Implementing Energy Management Tools at Rice University
Richard Johnson, Rice University
AASHE 2006 Sessions

John Petersen, Oberlin College

1:40 Making the Grade with Green Power
Anthony Amato, ERG on behalf of EPA

2:00 Are We Being Aggressive Enough? Rethinking REC's
Davis Bookhart, Johns Hopkins University

B3 Ecological Literacy
MU213-Santa Cruz

1:00 Evaluation of the University of Georgia's Environmental Literacy Requirement
Guyeth Moody, University of Georgia

1:20 Eco-Literacy for the Whole Campus
Stephanie Kaza, University of Vermont

1:40 Technical Issues in and Ethical Matrix: Implications for Teaching Sustainability in Early Undergraduate Education
Christine Mondor, Carnegie Mellon University

2:00 Placing Sustainability at the Center of General Education
William Throop, Green Mountain College

B4 Working in Partnerships with Communities
MU212E-Cochise E

1:00 The Role of the Cooperative Extension System in Social, Environmental and Economic Sustainability: A Case Study
Carolyn Gregov, University of Florida/IFAS Sarasota County Extension

1:20 Imagining a Sustainable Meadville: Center for Economic and Environmental Development (CEED)'s Community Engaged Research
Erin Kirk, Allegheny College

1:40 Sustainability in Berea, Kentucky: College and Community Perspectives
Tammy Clemons, Berea College

2:00 Achieving Sustainability through Community Partnerships
Gary Deason, Northern Arizona University

Field Reports

B5 Lessons from the Field 1
MU208F-Turquoise

Chair: Noelle Studer, Portland Community College

B6 Panel: Designing a Coherent Sustainability Curriculum: From Policy to Implementation
MU224-Coconino

Moderator: Edward Quevedo, WSP Environmental
David Johnson, William McDonough + Partners
Jane Lorand, GreenMBA
Heather Schofield, University of British Columbia

B7 Panel: Using LEED for Portfolios – Translating Individual Building Lessons Learned into Overall Portfolio Performance
MU203-Gold

Moderator: Marc Heisterkamp, US Green Building Council
Riley Neugeberger, American University
Ryan Schandl, University of California, Santa Barbara

B8 Roundtable: Moving from Theory to Practice on a Sustainable Campus: Service Learning Projects to Build Campus Community
MU219-Navajo

Moderator: Kurt Teichert, Brown University
Julie Newman, Yale University
B9  Roundtable: Developing a Campus Sustainability Rating System  
MU223-La Paz  
Moderator: Dave Newport, University of Colorado at Boulder  
Julian Dautremont-Smith, AASHE  
Judy Walton, AASHE

B10  Roundtable: Regional Consortia: Strength in Numbers to Promote Environmental Collaboration  
MU212W-Cochise W  
Moderator: Jean MacGregor, Curriculum for the Bioregion Initiative  
Virginia Brown, Alabama Environmental Education Consortium  
Michelle Land, Environmental Consortium of Hudson Valley Colleges and Universities

B11  Roundtable: Translating Sustainability to the Media  
MU208D-Havasupai  
Moderator: Shana Weber, Princeton University  
Greg Peterson, Arizona State University  
Betsy Rosenberg, EcoTalk Radio

B12a  Roundtable: Working Together to Build A Greener Campus (45 mins)  
MU208E-Kaibab  
1:00  
Moderator: Jim Newman, BuildingGreen, inc.  
Anna Stefanidou, Boston Architectural College

MU208D-Kaibab  
1:45  
Organizer: Ron van der Veen, Mithun

Thursday, October 5  
Session C (3:30-5:00)  

Papers

C1  Sustainability and Equity  
MU223-La Paz  
Chair: Peter Bardaglio, Ithaca College  
3:30 Including Social Equity in your Building Product Decisions  
Antoinette Bunkley, HDR Architecture, Inc.  
Katrina Rasa, HDR Architecture, Inc.  
3:50 Strategic Sustainability  
Joel Baskin, SRG Partnership  
Michelle George, Seattle University

4:10 Sustainable Building Project/Environmental Design Advice  
Edward Quevedo, WSP Environmental  
David Johnson, William McDonough + Partners  
4:30 Creating Competitive Advantage through Sustainable Design  
Susan Engelkemeyer, Ithaca College  
Peter Bardaglio, Ithaca College

C2  Institutional Transformation: Campus Case Studies  
MU222-Mohave  
Chair: Gord Lovegrove, University of British Columbia, Okanagan  
3:30 Inspirations & Aspirations: Developing and Implementing a Sustainability Strategy at UBC  
Heather Scholefield, University of British Columbia  
3:50 Inspirations & Aspirations: Developing and Implementing a Sustainability Strategy at UBC  
Heather Scholefield, University of British Columbia  
4:10 Institutional Transformation at the University of Michigan: Development of the Graham Environmental Sustainability Institute to Promote Interdisciplinary Research and Education  
Jeremy Semran, University of Michigan  
4:30 The Elephant in the Room-Social Sustainability in a Bottom Line World: Teaching and Research at UBC Okanagan on Sustainability to Protect Ourselves and Future Generations  
Gord Lovegrove, University of British Columbia, Okanagan

C3  Students Leading the Way  
MU213-Santa Cruz  
Chair: Mark Stemen, California State University, Chico  
3:30 Student-Led Sustainability Initiatives at Ithaca College  
Daniel Carrion, Ithaca College  
Jack Hanrin, Ithaca College  
3:50 How Student Participation has Jump-Started Recycling and Composting at the University at Buffalo  
Erin Cala, University at Buffalo  
4:10 Developing Student Partnerships for Sustainability  
Corinna Kester, University of Texas at Austin  
4:30 Creating a Sustainable Student Community  
Mark Stemen, California State University, Chico

C4  International Perspectives & Partnerships  
MU208D-Havasupai  
Chair: Charles Redman, Arizona State University  
3:30 A Service Learning Course on Sustainability in Ecuador  
David Saiia, Ithaca College
3:50 Building Bi-National University Partnerships in Sustainability
Linda Oviedo, ITSON, Mexico
David Pijawka, Arizona State University

4:10 Creating Agents for Change: K-16 Sustainability Education Program
Donald Boonstra, Arizona State University
Sheri Klug, Arizona State University

4:30 International Institutional Collaborations for Sustainable Development
Leti McNeil, Engineers for a Sustainable World

C5 Teaching Sustainability
MU202-Alumni Lounge
Chair: David Secord, University of Washington, Seattle

3:30 Teaching Sustainability Through Story: The Role of Writing Local Natural History
Rochelle Johnson, Albertson College of Idaho

3:50 Teaching Sustainability Planning
Stephen Wheeler, University of New Mexico

4:10 Project-Based Learning for Sustainable Development
Marcia Nation, Arizona State University

4:30 Choices and Change in the Arctic National Wildlife Refuge: Wild Adventures in Transdisciplinary Education on Complexity, Controversy, and Sustainability
David Secord, University of Washington, Seattle

Panel: Integrating Sustainability Throughout a University’s Core: A Case Study of the University of New Hampshire’s Energy and Climate Initiatives
MU203-Gold
Moderator: Tom Kelly, University of New Hampshire
UNH Energy Task Force: One Innovative Means by which UNH is Meeting its Climate Protection Commitment
Tom Kelly, University of New Hampshire
Investment in Energy Efficient Operations and Management: An Investment in UNH’s Future
Sara Chaves, University of New Hampshire
Branding Clean Fuel Vehicle Fleets: UNH’s Eco-Cat Program
Steve Pesci, University of New Hampshire
Towns, Gowns and Climate Changes: Connecting UNH to Political Debates about Climate Policy
Stacy VanDeVeer, University of New Hampshire

C6 Lessons from the Field 2
MU203-Gold
Chair: Debra Rawe, US Partnership for Education for Sustainable Development

3:30 Community Service Learning Health Education Project: Reducing Exposure to Endocrine Disrupting Chemicals
Allison Butler, University of Alaska Anchorage

3:40 Getting Every Inch Out of the Landscape
Craig Chatburn, Seattle University

3:50 Waste Management: A Solid Foundation for Campus Sustainability
Mark Darling, Program Ithaca College

4:00 Reducing Our Waste: A Campus-Community Sustainability Partnership
John Hickey, University of Puget Sound

4:10 Pursuing Environmentally and Socially Sustainable Custodial Practices at Rice University
Richard Johnson, Rice University

4:20 Universities Leading the Way for California’s Clean Energy Future
Stephen Miller, Strategic Energy Innovations

Panel: Campus Environmental Management Systems: Where are We/Where are We Heading?
MU221-Apache
Moderator: Thomas Balf, Campus Consortium for Environmental Excellence
Gloia Thompson, University of Vermont
Harvest Collier, University of Missouri-Rolla

Panel: Mountain Air Makes You Smarter: Seeking Sustainability at 7000 Feet
MU221-Apache
Moderator: Mark Flynn, Northern Arizona University
Challenges of Platinum Certification at High Altitude
Paul Dufek, Northern Arizona University
A Coordinated Approach to LEED Certification at NAU
Mark Wilhelm, Green Ideas, Inc.
Using LEED Buildings as Educational Tools
Tom Weinert, Northern Arizona University
Converting to Renewable Energy: A Major New PV Installation and Two Biomass Generators
Mark Flynn, Northern Arizona University
**C10 Roundtable: Aligning for Sustainability in Academia**
MU219-Navajo
Moderator: Lorinda Rowledge, Bainbridge Graduate Institute
Kate Lancaster, Bainbridge Graduate Institute and Cal Poly San Luis Obispo

**C11 Workshop: Campus Climate Challenge**
MU224-Coconino
Organizer: Kristin Kranendonk, National Wildlife Federation
Melissa Fries, Campus Ecology, National Wildlife Federation
Kristy Jones, Campus Ecology, National Wildlife Federation

**C12a Panel: Environmental Sustainability across Carnegie Mellon (45 mins)**
MU215-Pinal
3:30
Melissa Cicozi, Carnegie Mellon University
Barbara Kriz, Carnegie Mellon University
M. Shernell Smith, Carnegie Mellon University

**C12b Workshop: But Does It Work? Operational Lessons from Building Green (45 mins)**
Mu208E-Kaibab
4:15
Organizer: Bruce Alperin, Aramark Higher Education
Steve Guenther, Aramark Higher Education

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**Friday, October 6**
Session D (8:30-10:00)

**Papers**

**D1 Whole Campus Approaches to Sustainability**
MU219-Navajo
Chair: Robert Koester, Ball State University
8:30 Creating a Culture of Sustainability
Gary Deason, Northern Arizona University
Heather Farley, Northern Arizona University
Mike Madigan, Northern Arizona University
8:50 Whole-College Approaches to Sustainability in Teacher Education in Jamaica
Marceline Collins-Figueroa, University of the West Indies, Mona
9:10 An Integrated Approach to Sustainability at the University of Rochester
Rebecca Neville, University of Rochester
9:30 Productive Collaboration: a Whole Systems Approach to Sustainability
Robert Koester, Ball State University

**D2 Walls and Windows: The Case for Green Building**
MU208E-Kaibab
Chair: Philip Ling, Powerssmiths International Corp.
8:30 Building a Case for Sustainability in Higher Education Facilities
Jordan Lerner, Abacus Engineered Systems
8:50 Environmental Metric Development and Reporting at the University of Michigan
Andrew Berki, University of Michigan
9:10 As Easy as Opening a Window?
Jim Kakelvage, Optis Architecture
Matthew Younger, Stantec Consulting
9:30 If These Walls Could Talk - Connecting Buildings and People
Philip Ling, Powerssmiths International Corp.

**D3 Multidisciplinary Programs**
MU208F-Turquoise
Chair: Jennifer Evertt, De Pauw University
8:30 The Greening of a Professor: Committing to a Sustainability-Themed Honors Program
Heather Burns, Portland State University and University of Portland
Laura Steffen, University of Portland
8:50 Inventing a Multidisciplinary Graduate Certificate in Sustainability
David Ervin, Portland State University
9:10 Transdisciplinary Foundations and the Education of Tomorrow’s Leaders
Lewis Gilbert, The Nelson Institute for Environmental Studies at the University of Wisconsin, Madison
9:30 The Emergence of Interdisciplinary Graduate Education for Sustainability
Dhara L. Kothavala, Arizona State University & Prescott College

**D4 Approaches to Sustainability Education**
MU224-Coconino
Chair: Sandra Lubarsky, Northern Arizona University
8:30 The Universe Story, Sustainability, and Higher Education
Paul Morgan, West Chester University of Pennsylvania
8:50 The Naïve Dream of the Return to Nature:A Depth Psychological Perspective on Environmentalism
Lori Pye, Santa Barbara City College
9:10 How Can We Clone the "Green Gene"?
Betsy Rosenberg, EcoTalk Radio
9:30 Toward a Beauty-Centric Education
Sandra Lubarsky, Northern Arizona University

**D5 Engaged Students and Staff**
MU212-Cochise
Chair: Joe Bowersox, Willamette University
8:30 Tangible Evidence for Smart Design in a Green World
David Damon, Sasaki and Associates
AASHE 2006 Sessions

8:50 Engaging College Students in Energy Efficient Strategies in Their Community
Mildred C. Dandridge, Strategic Energy Innovations

9:10 Beyond Compliance: Using Compliance Programs to Launch and Leverage Sustainability Initiatives
Joy Grillon, Woodard & Curran

9:30 Re-Inhabiting the Lost Landscapes of Sustainability in the Community
Terril Shorb, Prescott College

Panels, Roundtables and Workshops (8:30-10:00)

D6 Panel: Making Sustainability Social
MU222-Mohave
Moderator: Dave Newport, University of Colorado at Boulder
Hunter Lovins, Natural Capitalism, Inc.
Beatrice Barr, Presidio School of Management

D7 Roundtable: Thinking Beyond the Campus Boundaries
MU213-Santa Cruz
Moderator: Kristine Kenney, Mithun
JP Kemmick, Pacific Lutheran University
Dave Kohler, Pacific Lutheran University
Sheri Tonn, Pacific Lutheran University

D8a Workshop: From Sustenance to Sustainability: Involving Internal Constituents and External Stakeholders in Common Conversations (45 mins)
MU221-Apache
8:30 Organizer: B. David Rowe, LaGrange College
Mark Y. Alex Davies, Oklahoma City University

D8b Workshop: The Bequest, A Film about Sustainability (45 mins)
MU221-Apache
9:15 Organizer: Monty Hempel, University of Redlands

D9a Workshop: Stop Messing With Creation! Christianity as Part of the Environmental Movement (45 mins)
MU208D-Havasupai
8:30 Organizer: Audrey deCoursey, Pacific School of Religion, Berkeley

D9b Workshop: Creating Patterns that Connect: Sustainability Education as Lived Experience (45 mins)
MU208D-Havasupai
9:15 Organizer: Barbara Widhalm, University of New Mexico and California Institute of Integral Studies

D10 Workshop: The Business of Sustainability-Integrating Sustainability into Undergraduate Business Courses
MU223-La Paz
Organizer: Paul Hudnut, Colorado State University
Emily Bonner, Colorado State University
Ken Peterson, Colorado State University

D11 Workshop: EMS as a Tool for Achieving Sustainability
MU203-Gold
Organizer: Susan Sakaki, Sustainable Earth Initiative
Dorothy Atwood, Zero Waste Alliance

Friday, October 6
10:15-11:45

Plenary -- Global Warming

Global Warming and Higher Education
MU207-Arizona Ballroom
Introduction: Tony Cortese, Second Nature
Moderator: Julian Keniry, National Wildlife Federation
Eban Goodstein, Lewis & Clark College
Billy Parish, Energy Action Coalition

Friday, October 6
Session E (12:45-2:15)

Papers

E1 Planning Sustainable Campuses and Communities
MU215-Pinal
Chair: Ron van der Veen, Mithun Architects+Designers+Planners

12:45 Implementing Smart Growth On and Off Campus
Kevin Nelson, US Environmental Protection Agency
1:05 Planning for Sustainable Campus Development
Pat Sommio, Sasaki and Associates, Inc.
N. Scott Smith, Sasaki Associates, Inc.

1:25 University of California Merced: A Model for a Sustainable Campus
Carrie Byles, Skidmore, Owings & Merrill LLP
Aidan Hughes, ARUP
Ellen Lon, Skidmore Owings & Merrill LLP
1:45 The Sense of Site: Rediscovering a Sustainable Campus Environment
Mike Abbate ASLA, LEED™, GreenWorks Landscape Architects
**AASHE 2006 Sessions**

**E2 Beyond Low Hanging Fruit**  
**MU208E-Kaibab**

*Chair: Julie Zimmerman, US Environmental Protection Agency*

12:45 Changing Campus Food Service through Student Initiatives  
*Gary Deason, Northern Arizona University*  
*Ben Williams, Northern Arizona University*  
*Bret Wojciak, Northern Arizona University*

1:05 Making Food Service Sustainable: Portland State University's Experience  
*Jennifer Allen, Portland State University*

1:25 Northern Arizona University's “Sustainable is Attainable” Pledge Campaign: A Case Study  
*Lea Parker, Northern Arizona University*

1:45 Educating the next generation through EPA's P3 Award Program  
*Julie Zimmerman, US Environmental Protection Agency*

**E3 Leading Change Toward Sustainability**  
**MU208F-Turquoise**

*Chair: Monty Hempel, University of Redlands*

12:45 What Is a Provost to Do? or The Role of the Chief Academic Officer in Advancing Campus Sustainability  
*Peter Bardaglio, Ithaca College*

1:05 Sustainable Idaho: Making Sustainability Sustainable in Higher Education  
*Max Dakins, University of Idaho*

1:25 Champions of Organizational Change toward Sustainability and Pivotal Experiences that Influenced their Work  
*Brian Dunbar, Colorado State University*

1:45 Searching for Sustainability in Southern California  
*Monty Hempel, University of Redlands*

**E4 Mapping the Way Forward**  
**MU224-Coconino**

*Chair: Walter Simpson, University at Buffalo, SUNY*

12:45 Developing Research Priorities with a Cohort of Higher Education for Sustainability Experts  
*Tarah Wright, Dalhousie University*

1:05 A Definition of Sustainability for Higher Education  
*John McGovern, Cleveland State University*

1:25 Psychological Obstacles to Sustainable Environments  
*Edward Sadalla, Professor, Arizona State University*

1:45 Understanding Sustainability  
*Walter Simpson, University at Buffalo, SUNY*

**E5 Lessons from the Field 3**  
**MU219-Navajo**

*Chair: Dave Newport, University of Colorado at Boulder*

12:45 Steering in the Right Direction for Sustainability  
*Ron Hubert, Northern Arizona University*

12:55 A New Campus Sustainability Assessment Framework: a Comparative Tool for Students, Faculty, and Staff to Evaluate Their Campus Sustainability  
*Lia Wetzstein, University of Washington, Tacoma*

1:05 Identifying the Perceived Challenges to Implementing Sustainability Initiatives on Campus by a Cohort of Talloires Signatory University Administrators  
*Tarah Wright, Dalhousie University*

1:15 Bridging Sustainable Development with Water  
*Daniel Baker, University of Vermont*

1:25 Carbon Offset Initiatives on Study Abroad Programs  
*Daniel Greenberg, Living Routes - EcoVillage Education*

1:35 Sustainability at the Human Scale  
*Taylor Jackson, Arizona State University*

1:45 Creating a Just Community: A Model for Collaborative Action  
*Geoffrey Milz, University of Cincinnati*

**Panels, Roundtables and Workshops (12:45 – 2:15)**

**E6 Panel: A Journey to Sustainability: How Furman University has Traded the SUV for a Hybrid**  
**MU212-Cochise**

*Moderator: Frank Powell, Furman University*

*How We Arrived at Where We Are: The Role of Strategic Planning*  
*Bill Ranson, Furman University*

*Help from Our Neighbors: Furman University and the Associated Colleges of the South*  
*Scott Salzmann, Furman University*

*Boyd Yarbrough, Furman University*

*Consumption and the Triple Bottom Line*  
*Phil Lewis, Furman University*

*Help from Our Neighbors: Furman University and the Associated Colleges of the South*  
*Scott Salzmann, Furman University*

*Boyd Yarbrough, Furman University*

*Consumption and the Triple Bottom Line*  
*Phil Lewis, Furman University*

*Jeff Redderson, Furman University*

*Recruiting Sustainably-Minded Students and Growing Our Own at Furman University*  
*Trevor Cutsinger, Furman University*

*Colin Hagan, Furman University*

*James Wilkins, Furman University*
Field Reports

E7  Panel: Arizona Water Institute – Experiments in Collaboration
    MU222-Mohave
    Moderator: Kathy Jacobs, Arizona Water Institute, University of Arizona
    Len Drago, Intel Corporation
    Charlie Ester, Salt River Project
    Chuck Graf, Arizona Water Institute
    Jim Holway, Arizona State University
    Karen Smith, Arizona Department of Water Resources

E8  Roundtable: Sustainability and Planning: An Integrated Approach to Academics, Resource Planning and Facilities
    MU2132-Santa Cruz
    Moderator: John Raffo, WRNS Studio
    Katie Maynard, University of California Santa Barbara

E9  Panel: Challenges of Implementing a University-Wide Sustainability Initiative: Lessons Being Learning from Arizona State
    MU218-Pima
    Moderator: Charles Redman, Arizona State University
    Bonny Bentzin, Arizona State University
    Jim Buizer, Arizona State University
    Brett Perozzi, Arizona State University
    Austin Shangraw, Arizona State University

E10 Workshop: Focus the Nation: Climate Stabilization in the 21st Century
    MU203-Gold
    Organizer: Eban Goodstein, Lewis & Clark College

E11a Workshop: Federal Funding Opportunities (45 mins)
    MU221-Apache
    Organizer: James Elder, Campaign for Environmental Literacy

E11b Workshop: Why Green Purchasing? (45 mins)
    MU221-Apache
    Organizer: Brian Yeoman, NAEP/ Houston Advanced Research Center

E12 Workshop: Engaging Students in Issues of Health and Justice
    MU223-LaPaz
    Organizer: Jean MacGregor, The Evergreen State College
    Katherine Davies, Antinich University, Seattle
    Lin Nelson, The Evergreen State College
    Cynthia Updegrave, University of Washington

Friday, October 6
2:30-4:00
Plenary -- Curriculum

Rebuilding as We Sail: Creating New Norms for Education for Sustainability
    MU207-Arizona Ballroom
    Introduction: Chuck Redman, ASU
    Jean MacGregor, The Evergreen State College
    Jim Farrell, St. Olaf College
    Yolanda Moses, University of California, Riverside
    Debra Rowe, US Partnership for Education for Sustainable Development

Plenary -- Food

Feeding Institutional Transformation through Local Food Systems
    MU218-Pima
    Introduction: Kathy Jacobs, Arizona Water Institute
    Moderator: Ginny Peckinpaugh, Oregon Campus Compact
    Celine Fitzmaurice, Portland State University
    Tim Galarneau, University of California, Santa Cruz
    Tom Kelly, University of New Hampshire
F1 MU215-Pinal Assessing Sustainability on Campus
Chair: Almut Beringer, University of Prince Edward Island.
4:00 Crucial Curricula for Sustainable Development
Philip White, Arizona State University.
4:20 Peeking in Closets: An Environmental Sustainability Assessment at Portland State University
Amy Dvorak, Portland State University.
4:40 Sustainability in Higher Education in Atlantic Canada
Almut Beringer, University of Prince Edward Island.

F2 MU208E-Kaibob Models and Demonstrations: Towards a Green Future
Chair: Wynn Calder, University Leaders for a Sustainable Future.
4:00 Using Sustainability to Connect Academia with Government
William Leahy, Eastern Connecticut State University.
Stephen Kunselman, University of Michigan.
Yoshiko Hill, University of Michigan.
4:40 The Future of Higher Education Infrastructure
Roger Ebbage, Lane Community College.
5:00 Green Residence Hall Demonstrations: A First Step Towards Sustainability
Stephen Miller, Strategic Energy Innovations.

F3 MU208F-Turquoise Connecting with Communities
Chair: Peggy Green, Broward Community College.
4:00 Community-based Planning for a Sustainable Future
Nancy Parkes, The Evergreen State College.
John Pumilio, The Evergreen State College.
4:20 Collaborative Graduate Research for Sustainability: Spatial Analysis of Campus Storm-water Runoff using GIS
William Lotz, Western Illinois University.
William Brewer, Western Illinois University.
4:40 Reducing Water and Energy Use on Arizona Farms and Ranches
Tom Acker, Northern Arizona University.
Gary Deason, Northern Arizona University.
Mark Glauth, Northern Arizona University.
AASHE 2006 Sessions

5:00  How the Trees Brought Us Together  
Peggy Green, Broward Community College

F4  Curriculum and Pedagogy  
MU224-Coconino  
Chair: Steve Woolpert, Saint Mary's College
4:00  Principles of the Sustainable Classroom  
Carole Huber, University of Colorado at Colorado Springs
4:20  Combining Science with the Arts: An Effective Way to Enhance Student Understanding of Sustainable Development  
Brett Robbs, University of Colorado at Boulder
4:40  Sustainability in Unexpected Places: Integrating the Ideas into "Regular" College Courses  
Linda Vanasopa, Cal Poly, San Luis Obispo
5:00  Teaching and Assessing "Ecological Thinking" as a Liberal Art  
Steve Woolpert, Saint Mary's College

Field Reports

F5  Sustainable Campuses: Reports from the Field 4  
MU219-Navaajo  
Chair: Victor Nolet, Western Washington University
4:00  The Process of Learning Sustainable Design in Interior Architecture  
José Bernardi, Arizona State University
4:10  Incorporating Green and Sustainable Chemistry into the Undergraduate Curriculum: Pedagogy, Research and Outreach Activities  
Edward Brush, Bridgewater State College
4:20  Cal Poly Land: The Place of the University  
Steven Marx, Cal Poly, San Luis Obispo
4:30  Experiential Learning: Standard Sustainable Interior Materials Binders  
Janice Jennings, Mesa Community College
4:40  One Classroom at a Time: Sustainable Renovation at the Classroom Scale  
Michael Rogers, Ithaca College
5:00  Teaching for a Positive Future: Education for Sustainability in a Teacher Preparation Program  
Victor Nolet, Western Washington University

F6  Panel: From Public Policy to Sustainable Campuses  
MU213-Santa Cruz  
Moderator: Woodrow Clark, Los Angeles Community College District
Larry Eisenberg, Los Angeles Community College District
Mona Field, Los Angeles Community College District

F7  Panel: Tips for Teaching Sustainability  
MU222-Mohave  
Moderator: William Timpson, Colorado State University
Brian Dunbar, Colorado State University
Tony Cortese, Second Nature

F8  Panel: Accelerating Change in Renewable Energy and Climate Change Markets  
MU201-Gold  
Moderator: Greg Chambers, Sterling Planet Inc.
Blaine Collison, US Environmental Projection Agency
Chris Fanning, The Climate Trust
Byron Fischer, Oregon Climate Trust
Marcus Krems, Sterling Planet, Inc.

F9  Panel: Sustainable Campuses as Learning Tools: Green Buildings and Grounds and the Educational Mission of the University  
MU223-La Paz  
Moderator: Joe Booversoz, Willamette University
Michael Sestric, Lewis and Clark College
Sheri Tonn, Pacific Lutheran University
Bob Snyder, Zimmer Gunsul Frasca Partnership

MU212-Cochise  
Moderator: Andy Cogbill, Alliance to Save Energy
Joelyn Orr, Humboldt State University
Joanne Panchana, California State University, Chico
Shyla Raghab, University of California, Irvine
Ryan Schanland, University of California, Santa Barbara

F11a  Workshop: Green Demonstration Areas: Practical Demonstration of Sustainable Living (45 mins)  
MU221-Apache  
4:00  Laura Moreno, University of California, Berkeley

F11b  Workshop: Incorporating Sustainability into the Residence Halls (45 mins)  
MU221-Apache  
4:45  Laura Moreno, University of California, Berkeley

Thursday, October 5  
2:30-3:30  
Poster Session  
(LAWN)

P1  Sustainability Partnership: Bringing Science to Practice, and the Practical to Science  
Anne Ellis, Arizona State University

P2  Student Contributions to Campus Sustainability  
Stephanie Kazo, University of Vermont
Glória Thompson, University of Vermont
P3 Ecovillages as Campuses for Sustainability Education
Daniel Greenberg, Living Routes - Ecovillage Education

P4 Implementing Smart Growth On and Off Campus
Kevin Nelson, US Environmental Protection Agency

P5 Go With the Flo: Designing Social Benefits into A Product
John Takamura, Arizona State University

P6 Tracking the Literature: A Bibliometric Study of Higher Education for Sustainability Journal Articles
Tarab Wright, Dalhousie University

P7 A Campus-Community Partnership for Biodiesel Production
Karin Warren, Randolph-Macon Woman's College

P8 Collaborative Water Harvesting at the University of Arizona
Emilie Brill Duisberg, University of Arizona

P9 Involving Students in LEED Certification of a Sports and Activities Center
Karin Warren, Randolph-Macon Woman's College

P10 Keeping (the) House
B. David Reew, LaGrange College
Mark Y. Alex Davies, Oklahoma City University

P11 Pacific University & Mahlum Architects: A Model of Holistic Development
Kurt Haapala, Mahlum Architects
Deke Gundersen, Pacific University

P12 Auburn Sustainability Action Project (ASAP): Interdisciplinary Cooperation with Quick Visible Results
Lindy Biggs, Auburn University
Matthew Williams, Auburn University

P13 Positive Approach to Sustainability
Syed Hashim, Idaho State University/Idaho GemStars

P14 Creating a Student-Directed Farm at Colorado College
Miro Kummel, Colorado College
Tori W Ulrich, Colorado College
Marion R Pierre, Colorado College
Alysia H Crocker, Colorado College
Mary J Dilq, Colorado College
Alexander F Lippitt, Colorado College
Austin W Smith Colorado College

P15 Using Ecological Footprinting as a Quantitative Case Study for Assessing Personal and Institutional Sustainability
Phil Camill, Carleton College

P16 Sustainable Science and Engineering Education in the US
John Crittenden, Arizona State University

P17 Sustainable Schools, Sustainable Cities: A Service Learning Project
Nancy Crocker, University College, Arizona State University

P18 Creating a Culture of Sustainability: The Sustainable Foods Movement at Pacific Lutheran University
Rachel Eshjornson, Pacific Lutheran University
JP Kemmick, Pacific Lutheran University

P19 The Greening of Eastern

P20 School of Sustainability: A New Approach to Education
Lisa Murphy, Arizona State University

Marcia Nation, Arizona State University

P22 Arizona Water Institute: Building Innovative Collaborations
Peter Newell, Arizona State University

P23 Sea Kayaking among the Mangroves, Fishing with the Community: Lessons Learned in Cross Cultural Place Based Education
Mark Ritchie, International Sustainable Development Studies Institute

P24 Sustainability through Active Listening
Elizabeth Shophard, Carleton College

P25 Making it Official: Factors Associated with the Adoption of the Talloires Declaration
Daniel Sherman, University of Puget Sound

P26 Focusing Student Energy through Service Learning
Noelle Studer, Portland Community College

P27 SustainableCampus.Org
Robert Van Der Klok, Energy & Environmental Education Resources, Inc.

P28 Is PV Worth It? Only if you use it to Educate!
Walter Simpson, University at Buffalo, SUNY

P29 Campus Planning and Water Resource Management
Peter Doo, Hord Coplan Macht Architects
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</table>
The Global Institute of Sustainability sparks interdisciplinary research on environmental, economic, and social sustainability. The Institute brings together life, earth, and social scientists, engineers, and government and industry leaders to share knowledge and develop adaptive solutions for an urbanizing world.

In 2007, our new School of Sustainability will begin educating a new generation of leaders to address the environmental, economic, and social challenges of the 21st century through collaborative learning, interdisciplinary approaches, and problem-oriented training. The School will offer bachelor’s, master’s, and doctoral degrees in sustainability.

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Canon Americas seeks to harmonize environmental, economic and social interests in all business activities, products and services; offer products with lower environmental burden through innovative improvements in resource efficiency; and eliminate anti-social activities that threaten the health and safety of humankind and the environment.

Canon is pleased to partner with ASU to create a Sustainable Digital University.
AASHE Awards

Awards Ceremony

AASHE will present its Sustainability Leadership Awards from 7:00 – 8:00 pm following dinner on Thursday.

Introduction - Julian Dautremont-Smith

AASHE Campus Sustainability Leadership Awards – Sheri Tonn

♦ Community college or other two-year institution
♦ Four-year or graduate institution under 1,000 student FTE
♦ Four-year or graduate institution between 1,000 and 10,000 student FTE
♦ Four-year or graduate institution over 10,000 student FTE

AASHE Student Sustainability Leadership Awards – Matthew St.Clair

♦ 2006 Student Sustainability Leadership Award
♦ 2005 Evan Williams Student Award

Other Recognitions – Sheri Tonn, Anthony Cortese

THANK YOU!
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AASHE’s Campus Sustainability Leadership awards are endorsed by the Higher Education Associations Sustainability Consortium (HEASC)

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Association of College Unions International
Association of Governing Boards of Universities & Colleges
National Association for Campus Activities
National Association of College & University Business Officers
National Association of College Stores
National Association of Educational Procurement
National Intramural-Recreational Sports Association
Society for College & University Planning

Special Thanks to Our Judges:
Almut Beringer, Director of Environmental Studies and Sustainability, University of Prince Edward Island ♦ Jillian Buckholz, Sustainability Coordinator, CSU Chico ♦ Terry Calhoun, Director of Communications and Publications, Society for College and University Planning ♦ Liz Davey, Environmental Coordinator, Tulane University ♦ Jim Elder, Director, Campaign for Environmental Literacy ♦ Stephanie Erickson, Organizer, Bus Project ♦ Melissa Ezarik, Managing Editor, University Business
Melissa Garcia LaMarca, Sustainability Coordinator, Concordia University ♦ Richard Johnson, Sustainability Planner, Rice University ♦ Bob Koester, Professor of Architecture, Ball State University ♦ Terry Link, Sustainability Director, Michigan State University ♦ Tavey McDaniel, Sustainability Coordinator, Duke University ♦ Cindy Pollock Shea, Director of Sustainability, UNC Chapel Hill ♦ Janelle Simmons, Director of Orientation and First Year Experience, North Carolina Central University ♦ Gioia Thompson, Environmental Coordinator, University of Vermont
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Thursday - 9:30 am - 4 pm
Friday - 9:30 am - 3 pm

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- Indicates Poster

Student Groups

Einstein's Bagels

Memorial Union

Administration A-Wing

Administration B-Wing

Cady Fountain

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Indicates Booth
AASHE and ASU have taken measures to promote green practices at the AASHE 2006 conference. Environmentally responsible practices have been incorporated in planning and implementing conference materials, lodging, transportation, food services, and waste management. Not only do these greening efforts minimize the environmental impact of the conference, but they provide leadership and guidance for ASU and other universities, institutions, and individuals as they move toward a more sustainable future.

Conference Materials
- All conference materials, including the program, are printed on 30% post-consumer recycled paper.
- Signs and displays for the Sustainability Expo are being reused from previous events whenever possible. New signs are being created so that they may be reused at future events.

Lodging
- Conference hotels were selected on the basis of their proximity to the ASU campus. All hotels are within easy walking distance of the conference, local events, and attractions.
- Each conference hotel participates in environmentally responsible programs, e.g., of which reusing of linens and towels instead of daily laundering, recycling hotel waste materials, using of energy- and water-conserving fixtures, and minimizing of disposable toiletries in guest rooms.

Transportation
- All conference participants are being encouraged to use public transportation, walk, or bike between conference events and hotels. Public transportation options include the Tempe FLASH service and the municipal bus system.
- The ASU Bike Co-op program will have 10-20 bicycles available free-of-charge to attendees.

Climate Neutral Conference
- All greenhouse gas emissions generated by conference activities are being offset through generous donations by Sterling Planet, Climate Trust, and The Conservation Fund. These offsets include Renewable Energy Credits (RECs) equal to 50 tons of carbon donated by Sterling Planet to offset electricity used at the conference, and 100 tons of carbon offsets from Climate Trust and 225 tons from The Conservation Fund to offset CO2 emission used by conference participants in getting to and from the conference.

Food Service
- Attendees are encouraged to bring their own water bottles and coffee mugs to minimize the use of disposable items.
- Where possible, disposable items used during coffee breaks are created from recycled materials.
- All food preparation waste from the dinner and awards ceremony will be composted by a local composting company.

Waste Management
- Recycling bins will be available throughout the conference, expo and student fair.
- All recyclable material from the conference will be recycled by the City of Tempe.
AASHE members include campuses from Canada and the U.S. that are working to advance sustainability. In addition, businesses and NGOs participate as partner members. Dues support core operations, enabling AASHE to provide a wide range of services and resources to better serve our membership. We thank our members for their support.

### Four Year and Graduate Institutions

<table>
<thead>
<tr>
<th>Institution Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Allegheny College - Meadville, PA</td>
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<td>American University - Washington, DC</td>
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<td>Antioch University Seattle - Seattle, WA</td>
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<td>Arizona State University - Tempe, AZ</td>
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<td>Auburn University - Auburn, AL</td>
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<td>Bainbridge Graduate Institute - Bainbridge Island, WA</td>
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<td>Ball State University - Muncie, IN</td>
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<td>Bates College - Lewiston, ME</td>
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<td>Bemidji State University - Bemidji, MN</td>
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<td>Berea College - Berea, KY</td>
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<td>Boise State University - Boise, ID</td>
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<td>Bridgewater State College - Bridgewater, MA</td>
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<td>British Columbia Institute of Technology - Burnaby, BC</td>
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<td>Bucknell University - Lewisburg, PA</td>
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<td>California Polytechnic State University - San Luis Obispo, CA</td>
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<td>College of the Atlantic - Bar Harbor, ME</td>
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<td>Duke University - Durham, NC</td>
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<td>Eastern Connecticut State University - Willimantic, CT</td>
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<td>University of Redlands - Redlands, CA</td>
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<td>University of Rhode Island - Kingston, RI</td>
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<td>University of Rochester - Rochester, NY</td>
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<td>University of Saskatchewan - Saskatoon, SK</td>
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<td>University of South Carolina - Columbia, SC</td>
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<td>University of Texas at Austin - Austin, TX</td>
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</tbody>
</table>
Thanks AASHE Members!

University of Vermont - Burlington, VT
University of Victoria - Victoria, BC
University of Washington, Seattle - Seattle, WA
University of Washington, Tacoma - Tacoma, WA
University of Wisconsin-River Falls - River Falls, WI
Vanderbilt University - Nashville, TN
Vermont Technical College - Randolph Center, VT
Wagner College - Staten Island, NY
Warren Wilson College - Asheville, NC
Washington State University - Pullman, WA
West Chester University of Pennsylvania - West Chester, PA
Western Washington University - Bellingham, WA
Western Illinois University - Macomb, IL
Willamette University - Salem, OR
York University - Toronto, ON

Two-Year Institutions and Community Colleges
Broward Community College - Fort Lauderdale, FL
Chandler-Gilbert Community College - Chandler, AZ
City College of San Francisco - San Francisco, CA
East Los Angeles College - Monterey Park, CA
Ecosia Institute - Prescott, AZ
Edmonds Community College - Lynnwood, WA
Front Range Community College - Westminster, CO
Grand Rapids Community College - Grand Rapids, MI
Green River Community College - Auburn, WA
Harford Community College - Bel Air, MD
Howard Community College - Columbia, MD
Lane Community College - Eugene, OR
Los Angeles City College - Los Angeles, CA
Los Angeles Harbor College - Wilmington, CA
Los Angeles Mission College - Sylmar, CA
Los Angeles Southwest College - Los Angeles, CA
Los Angeles Trade Technical College - Los Angeles, CA
Los Angeles Valley College - Valley Glen, CA
Manchester Community College - Manchester, CT
Milwaukee Area Technical College - Milwaukee, WI
Northwest State Community College - Archbold, OH
Oakland Community College - Bloomfield Hills, MI
Ohlone College - Fremont, CA
Pierce College - Woodland Hills, CA
Portland Community College - Rock Creek Campus - OR
Red River College - Winnipeg, MB
Santa Barbara City College - Santa Barbara, CA
Spokane Community College - Spokane, WA
Spokane Falls Community College - Spokane, WA
West Los Angeles College - Culver City, CA

System Offices
Los Angeles Community College District
University of California Office of the President

Businesses
Aramark
BuildingGreen, Inc.
Interface Engineering
Interface Flooring

LPA, Inc
Mithun Architects + Designers + Planners
PortionPac Chemical Corporation
Portland General Electric
Powersmiths International Corps.
Sasaki Associates, Inc.
Saucier + Flynn Landscape Architects
Sterling Planet
The Stone House Group
Verdiem Corporation
Zimmer Gunsul Frasca Partnership

NGOs/Government Agencies
Alliance to Save Energy
American Association of State Colleges and Universities
Campus Consortium for Environmental Excellence
Idaho GEMStars
International Sustainable Development Studies Institute
Living Routes Ecovillage Education
National Association of College and University Business Officers
National Wildlife Federation
Net Impact
New Jersey Higher Education Partnership for Sustainability
Second Nature, Inc.
Sierra Youth Coalition
Solar Living Institute
 Strategic Energy Innovations
Society for College and University Planning
Sustainable Endowments Institute

K-12 Institutions
Upper Canada College - Toronto, ON
A very special thanks to all who helped put this conference together. It took many, many volunteer hours over several months, representing an enormous collaborative effort. Particular thanks to the ASU team!

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Terry Calhoun – Society for College and University Planning/University of Michigan  
David Pijawka – Arizona State University  
Charles Redman – Arizona State University  
Leith Sharp – Harvard University  
Sheri Tonn – Pacific Lutheran University  
Judy Walton – AASHE  
Bonny Bentzin – Arizona State University  
Riley Neugebauer – American University  
Dave Newport – University of Colorado at Boulder  
Cindy Pollock Shea – University of North Carolina at Chapel Hill  
Debra Rowe – US Partnership for Education for Sustainable Development  
Brenda Shears – Arizona State University  
Matt St. Clair – University of California Office of the President  
Jerry Yudelson – Greenway Consulting Group, LLC

**Advisory**

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Joan Langdon – ASU  
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Michele Roy – ASU  
Gina Webber – ASU  
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Julian Dautremont-Smith – Awards, Publicity, and Technical Support  
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Britt Kimball – Exhibitors and Sponsors