



Society for College and University Planning

A Six-Pack (recycled, of course) of Sustainability Lessons from the Past Year in Higher Education



Moderator:
Joe Palca
Science Correspondent
National Public Radio

A Six-Pack of Sustainability Lessons from the Past Year in Higher Education

Today's Reporters:



Anthony Cortese
EFS West



Robert Koester
Ball State



Anthony Bernheim
SCUP



Lander Medlin
APPA



Andrea Putman
NACUBO



Participants at your site?

- Your institution or business
- Number of people attending the program
- Are you hosting other activities in conjunction with Campus Sustainability Day? (yes or no)

Type-in Example:

Elmwood College, 27 people, yes



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EFS West

North American Conference on Sustainability and Higher Education
"Defining the Vision for Higher Education"



Reporter: Anthony Cortese

Date:
October 2004
University of Portland
Portland, Oregon

Conference Attendees

- 450 participants (110 institutions)
 - Presidents & senior administrators
 - Faculty
 - Students
 - Operations managers
 - NGOs, businesses, gov't agencies



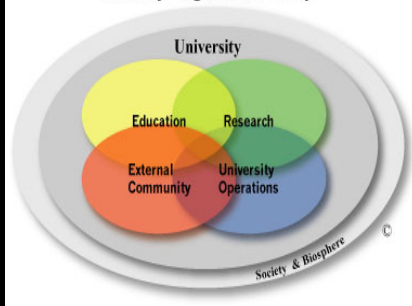
Sustainability Perspective

- All humans healthy
- Strong, thriving, diverse communities
- Economic opportunity for everyone
- Ecological integrity and restoration
- *Current and future generations*

Scope of Activities



Higher Education Modeling Sustainability as a Fully Integrated Community



Curricular Changes for Sustainability



Presidents' Luncheon



"Urgent Leadership by Higher Education"



Practicing What We Preach

- "Greening" the conference:
 - Public transportation; transit passes
 - Local, organic & Food Alliance certified foods (meals, snacks)
 - Green tags to offset GHGs
 - Minimize paper & resource use
 - Field trips using bicycles, public transit

AASHE (Ay-shee)

Association for the Advancement of Sustainability in Higher Education

Judy Walton, Exec. Director
Julian Dautremont-Smith, Associate Director
julian@asashe.org

AASHE

- Membership based
- All campus sectors
- Learning community
- Professional development
- Inform government policy

AASHE 2006 CONFERENCE

“The Role of Higher Education in Advancing Sustainability”

October 5-7, 2006
Arizona State University

Polling Question #1

How well does your campus integrate the student learning experience with campus operations?

(For example, are students assisting with campus sustainability assessment, greenhouse gas inventory, energy budget, campus ecological footprint measurement, transportation survey?)



National Association of College and University Business Officers

2005 Annual Meeting



Reporter:
Andrea Putman

Date:
July 10-12, 2005
Baltimore, Maryland



EPA Green Power Partnership

- Credibility
- Market Information and Assistance
- Recognition



Green Power Partners

1. University of Pennsylvania 40,000 MWh
2. Western Washington University 35,000 MWh
3. University of Utah 25,000 MWh
4. Syracuse University 22,000 MWh
5. Harvard University 20,500 MWh
6. Duke University 18,000 MWh
7. Pennsylvania State University 17,500 MWh
8. University at Buffalo 12,000 MWh
9. University of Colorado at Boulder 8,800 MWh
10. University of Maine, Orono 8,000 MWh

<http://www.epa.gov/greenpower>



Polling Question #2

Does your institution currently purchase green power or have an on-site renewable energy project?

Price Premium Range(¢/kWh)

- Green Power Electricity Products -0.3 - 3.6
- Renewable Energy Certificates 0.2 - 2.0
- On-Site Generation Varied



Sources:

- <http://www.eere.energy.gov/greenpower/home.shtml>
- <http://www.eere.energy.gov/greenpower/resources/pdfs/37388.pdf>

Ways to Lower or Cover the Cost

- Energy management savings
 - Reduce Peak Demand
 - “University Challenge”
- Aggregation
- Student fees
- Increasing the proportion of less expensive green sources
- Endowments and gifts



Ways to Lower or Cover the Cost

- State
 - Grants and rebates
 - Clean air funds for State Implementation Plan (SIP)
 - Clean energy funds
 - Homeland security funds
- Federal tax incentives
- EPA Supplemental Environmental Projects (SEP)
- Performance contracts

Carleton College



University of Iowa



Lessons from the Past Year in Higher Education



Society for College and
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Planning • Linking • Learning

Date:
July 23-27, 2005
Washington, DC

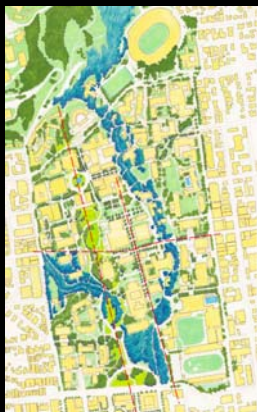
Reporter:
Anthony Bernheim



Introduction

4,000 Colleges and
Universities

15 Million Students



Connections

Smart Growth
Sustainable Development
Green Buildings



Construction Dollars

2003: \$11.4 billion
2004: \$13.7 billion
2005: \$14.5 billion (estimated)



Growth Patterns

Lose 2 acres of farmland every second



Impact of Growth



Smart Growth

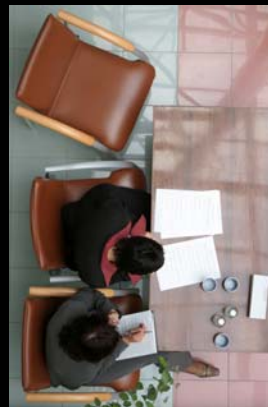


Incremental Advances

Campus Planning for Climate Change
Lewis and Clark College



Building Sustainability into the Curriculum



The Survey

The State of Sustainability in Higher Education

Energy
Transportation
Costs



The Next Generation of Green Building

Sustainable Development Research Institute, UBC



Next Steps Social Equity



Next Steps Occupant Health

Time for questions or comments



Joe Palca



Anthony Cortese



Andrea Putman



Anthony Bernheim

*To participate via telephone, please press *1 on your telephone.*

Greening of the Campus Conference 6: *Extending Connections*

Ball State University



Reporter:
Robert Koester

Date:
September 2005

BSU_GOC Conference 6

- Audience
 - 391 Participants
 - 106 Universities
 - 20 Private Firms
 - 15 Organizations
- Keynote Speakers
 - Basile
 - Berkebile
 - Cortese
 - Harris
 - Jenks-Jay
 - Orr
- Proceedings
 - 163 Authors



www.bsue.edu/greening

BSU_GOC Conference 6

- George Basile: The System Conditions

"We need a shared mental model that facilitates cooperation...across organizations, disciplines, and cultures."



The Four System Conditions of the Natural Step

BSU_GOC Conference 6

- Bob Berkebile: The Integration with Nature

"It will require a design revolution to meet humanity's greatest challenge."

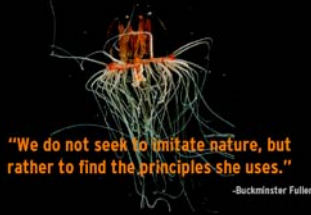


Tsunamis and Hurricanes Amplified by Global Warming

BSU_GOC Conference 6

- Anthony Cortese: The Tipping Points

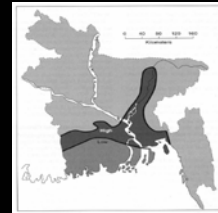
"Sustainability must become the foundation of all education and practice in higher education."



BSU_GOC Conference 6

- Jonathan Harris : The Use of Economics

"We've been looking through the wrong end of the telescope; economics must become a servant and cease being a master."



Potential For Bangladesh Coastal Reduction Resulting From Global Climate Change

BSU_GOC Conference 6

- Nan Jenks-Jay: The Regional Leveraging

"All individuals in this academic community have personal responsibility for the way their actions affect the local and global environment."



Local Foods, Waste Management, Carbon Reduction, Service Learning, Certified Forest Products

BSU_GOC Conference 6

- David Orr: The Political Dimensions

"If we don't get involved in politics, we're going to fail; we don't have a lot of time to get things right."



Since 1998 a million acres of verdant mountain tops in West Virginia have been removed to extract coal.



BSU_GOC Conference Series

- A Theme **for each**
 - 1 Greening of the Campus (GOC)
 - 2 GOC: *The Next Step*
 - 3 : *Theory and Reality*
 - 4 : *Moving to the Mainstream*
 - 5 : *Connecting to Place*
 - 6 : *Extending Connections (Sustainability)*

www.bsu.edu/greening

BSU_GOC Conference Series

- A Theme **from each**
The Importance of Peer-to-Peer Networking



www.bsu.edu/greening



Polling Question #3

Does your campus have a comprehensive sustainability policy or environmental policy?

APPA: The Association of Higher Education Facilities Officers

“Education Facilities Leadership Forum”



Date:
August 4-6, 2005
Orlando, Florida

Reporter:
Lander Medlin

SUSTAINABILITY FOCUS

- Leading edge plenary session
- Comprehensive educational sessions
- Informative experience exchange/roundtable discussions
- Award-winning effective and innovative practices

Leading Edge Plenary Session

- Theme of session - “The Many Faces of Sustainability”
 - Steven Piguet, architect and USGBC board member
 - Philip Wair, R. S. Means

Comprehensive Educational Sessions

- "Making the Grade with Green Power" – EPA & University of Colorado, Boulder (UCB)
- "Sustainability & University Design" – Emory University
- "LEED-EB" – Emory University pilot project
- "Building the Business Case for Sustainability" – Virginia Tech & Facilities Engineering Associates (FEA)
- "Value-Driven Approaches for Sustainability" – Aramark Facilities Services

Informative Experience Exchange/ Roundtable Discussions

- LEED and LEED-EB/ Application and Practice
- Effective Utilization of Building Commissioning
- Indoor Environmental Air Quality & Mold Remediation

Award-winning Effective and Innovative Practices

- "Campus Sustainability Office" – University of British Columbia (UBC)
- "Biomass Fuel Project" – The University of Iowa
- "Water Reuse Initiative" – University of Victoria



Through educational offerings, informational resources, recognition programs and other opportunities, APPA is committed to raising awareness about environmental sustainability with its members and increasing sustainability practices in general at our colleges and universities.

Questions or comments for all panelists



Joe Palca
NPR



Andrea Putman
NACUBO



Anthony Cortese
EFS West



Robert Koester
Ball State



Anthony Bernheim
SCUP



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APPA

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Society for College and University Planning

Thank you for joining us today!

Please complete your evaluation form, and let us know what sustainability programs would interest you in the future.

Email: profdev@scup.org

