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Higher Education Associations Sustainability Consortium (HEASC)
Disciplinary Associations Network for Sustainability (DANS)

Education for a Sustainable Future—What You Need to Know

Wednesday, June 6, 2007

1:00 pm–2:00 pm Eastern
12:00 noon–1:00 pm Central
11:00 am–12:00 noon Mountain
10:00 am–11:00 am Pacific



Today's Moderator & Presenter:



Debra Rowe
President
U.S. Partnership for Education for Sustainable Development



US PARTNERSHIP
DECADE OF EDUCATION FOR SUSTAINABLE DEVELOPMENT
UNITED NATIONS DECADE (2005-2014)



Co-Presenters



Judy Walton
Director of Strategic Initiatives
Association for the Advancement of
Sustainability in Higher Education (AASHE)



Terry Calhoun
Director
Media Relations and Publications
Society for College and University
Planning (SCUP)



Education for a Sustainable Future—What You Need to Know



Debra Rowe
President
U.S. Partnership for Education for
Sustainable Development





Education for a Sustainable Future What You Need to Know

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Today's Topics

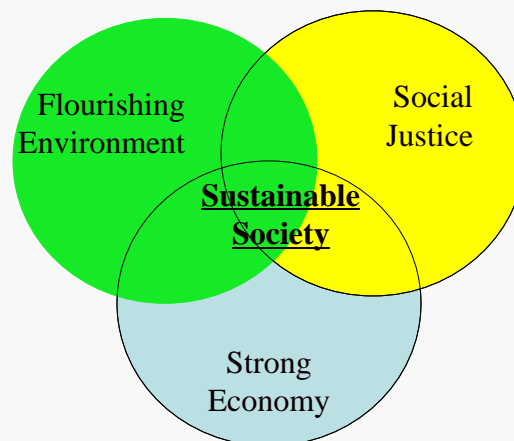
- Part I **What is Sustainable Development?**
- Part II **National Trends**
- Part III **Examples**
- Part IV **Resources**
- Part V **Questions and Answers**



Sustainable Development is often defined as:

“meeting the needs of the present
without compromising the ability of
future generations to
meet their own needs”

*World Commission on Env. and Development. (1987).
Our Common Future. England: Oxford University Press.*



**The Three Components of Sustainable Development
What Businesses call “The Triple Bottom Line”**

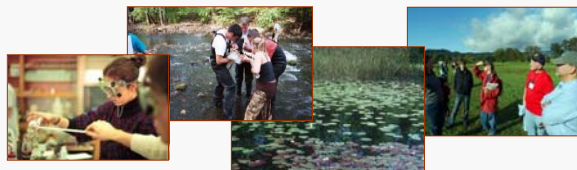
**The United Nations
has declared a**

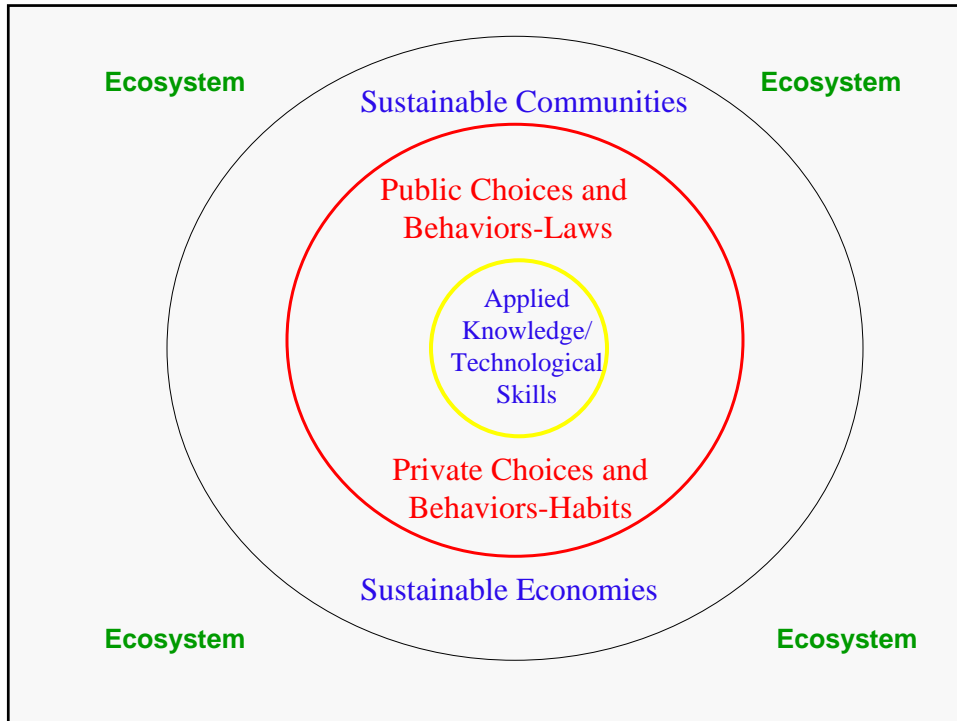
**Decade of Education for Sustainable
Development
2005-2014**



**Education for a
Sustainable Society:**

“enables people to develop the knowledge,
values and skills to participate in decisions
..., that will improve the quality of life now
without damaging the planet for the future.”





Why Sustainability Now?

We are the first generation capable of determining the habitability of the planet for humans and other species.



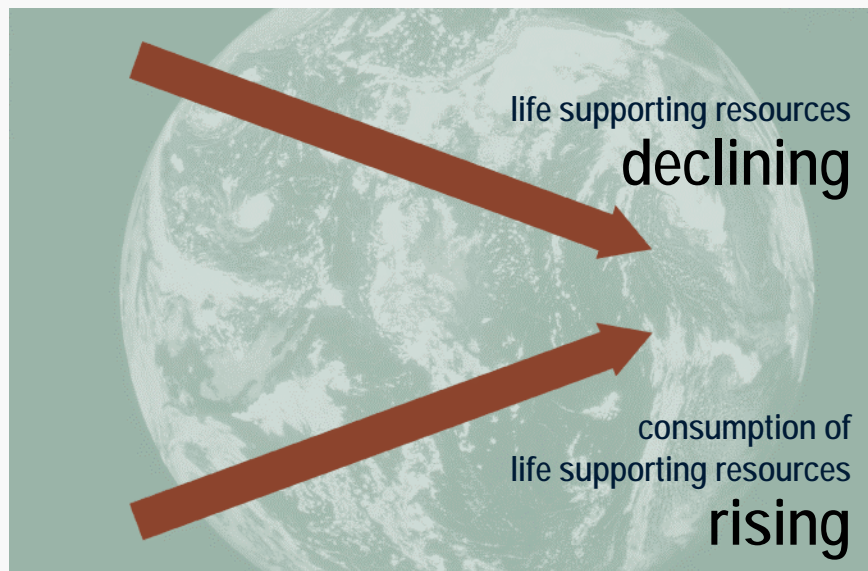
Why Sustainability & Why Now?

"There is no longer any doubt that every ecosystem that life depends on is compromised and in danger."



U.N. Millennium Ecosystem Assessment, 2005

Global Perspective





Why Sustainability & Why Now?

"Climate change is for real.
We have just a small
window of opportunity and
there is not a moment to
lose."

*Dr. Rajendra Pachavri, Chairman,
Intergovernmental Panel on
Climate Change, January, 2005*



Effects in Our Lifetime

- ◆ Disruption of food production and the food chain
- ◆ More extreme weather events
- ◆ Disruptions of ecosystems, including water supplies
- ◆ Spread of disease e.g. West Nile, Malaria
- ◆ Submersion of land masses –
was 1 to 4 foot sea level rise - **now up to 48 feet**
50% of world's population lives on the coasts
- ◆ = **Civilization Disruption**

Sources: Intergovernmental Panel on Climate Change, EPA



Why is EFS so Important?

- Public unaware that we are exceeding the carrying capacity of the planet.
- The U.S. has approximately 5% of the world's population and is consuming 25% of the world's resources.
- Public unaware that we can build stronger economies that will produce quality of life and reduce human suffering, environmental degradation and social injustice now.
- A rapid shift in mindset is needed and **education to action is the key.**

Global Transition

From

- Fossil powered
- Take, make, waste
- Living off nature's capital
- Market as master
- Loss of cultural & biological diversity
- Individual centered
- Materialism as goal

To

- Renewables powered
- Cyclical production
- Living off nature's income
- Market as servant
- Increased cultural & biological diversity
- Community centered
- Human satisfaction goal

- Sustainability is the lens through which we can collectively examine and act upon our shared world systems and through which we can analyze our own individual lifestyles.
- Outcome – a more just, healthy and prosperous society.



Part II National Trends



U.S. Partnership for Education for Sustainable Development

Sector Teams: Business, Higher Education, K-12, Communities, Faith, Youth...



Business principles of sustainability:

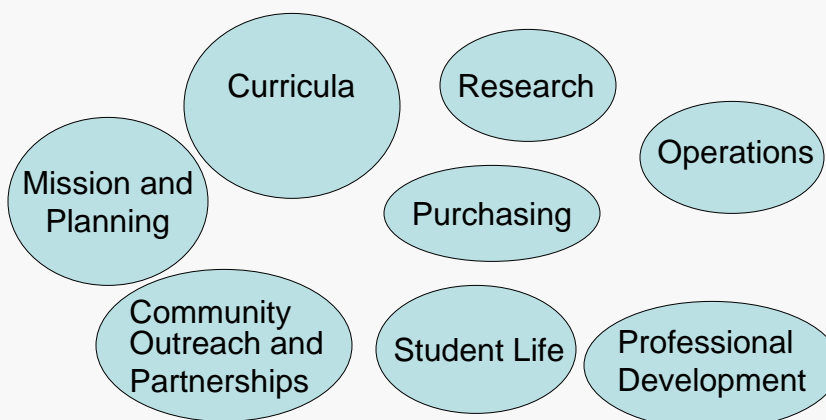
- Cradle to Cradle (McDonough)
- Biomimicry (Benyas – Like nature, efficient and not toxic)
- World Business Council for Sustainable Development (www.wbcsd.org)
- Natural Step (Sweden and U.S.)
- Natural Capitalism (Lovins, Harvard Business Review)
- Ethical Markets – Hazel Henderson



Trends and resources in sectors – some examples

- **Business** - LOHAS, SOL Sustainability Consortium, CERES, Businesses for Social Responsibility, Shareholders, Investors (e.g. Goldman Sachs and Swiss RE)
- **Communities** - Mayors Climate Protection and Smart Growth, Grand Rapids model
- **K-12** – Nat. Assoc. of Independent Schools, U.S. Partnership resources
- **Faith** - National Religious Partnership and Interfaith Alliance, Regeneration Project
- **Youth** – Climate Challenge, Reduce Your Impact, Action Campaigns...

For higher education, Sustainable Development integrated into:





GREAT NEWS!!! Growing National Trend:

Over 17 national higher education associations are creating initiatives in education for sustainable development

Engaged National Associations

1. ACE—Am. Council on Ed.
 2. AAC&U – Assoc. of American Colleges and Universities
 3. AACC – Am. Ass. of Community Colleges
 4. AASCU – State Colleges and Universities
 5. AGB – Governing Boards
 6. NACA – Campus Activities
 7. NAEB – Educational Buyers
 8. APPA – Facilities Officers
 9. NACUBO – Business Officers
 10. SCUP – College and University Planners
 11. ACUI – Student Unions
 12. ACPA – Student Affairs
 13. NACUFS – Food
 14. ACEED-I – Events and Conference Directors
 15. NACS – Campus Stores
- AND MORE*

Higher Education Associations Sustainability Consortium - HEASC

- Shared professional development,
- Shared publications,
- Greening of offices and conferences
- Informing the public about higher education's commitment to sustainability

www.heasc.net

Disciplinary Associations Network for Sustainability - DANS

- American Psychological Association
- Sociology
- Religion
- Philosophy
- Math
- Broadcasting
- Architecture
- Engineering (civil, mechanical, eng. ed.)
- Ecological Economics
- Chemistry
- Biology
- American Association for the Advancement of Science
- Computer Research
- Humanities
- Women's Studies
- Political Science
- Anthropology
- More...

**Building self-concepts in yourself
and others:
You can help change society!!**

Imagine students literate in the real world
sustainability challenges and engaged in the
solutions

Provide the models and opportunities for practicing the
changing of behaviors and policies

www.playagreaterpart.org

Imagine a country where all college students get
credit for helping to solve our societal problems
through their academic assignments.

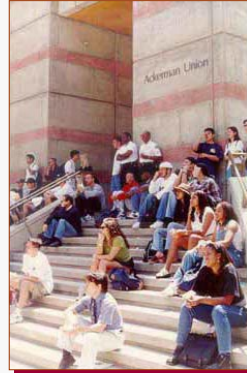




KEY THRUST

Change norms so all students and the community become:

- environmentally responsible
- socially responsible
- economically responsible



Education for a Sustainable Future—What You Need to Know



Judy Walton
Director of Strategic Initiatives
Association for the Advancement of
Sustainability in Higher Education (AASHE)





Part III Examples

Sustainability Initiatives on Campus

Judy Walton

www.aashe.org

All of the following information (with links to relevant URLs) will be available to participants at:

www.heasc.net/sustainablefuture



Resources Used

- AASHE Bulletin (weekly, free)
- AASHE Digest 2006 (annual digest of news stories by topic)

1. Institutional Leadership and Planning



Pledges & Declarations

- American College & University Presidents Climate Commitment
 - 280 signatories
 - Middlebury – climate neutral by 2016
- Talloires Declaration
 - International, 350+ signatories (40% U.S. & Canada)
- Other Pledges, Targets, Resolutions
 - Graduation Pledge - social and environmental responsibility



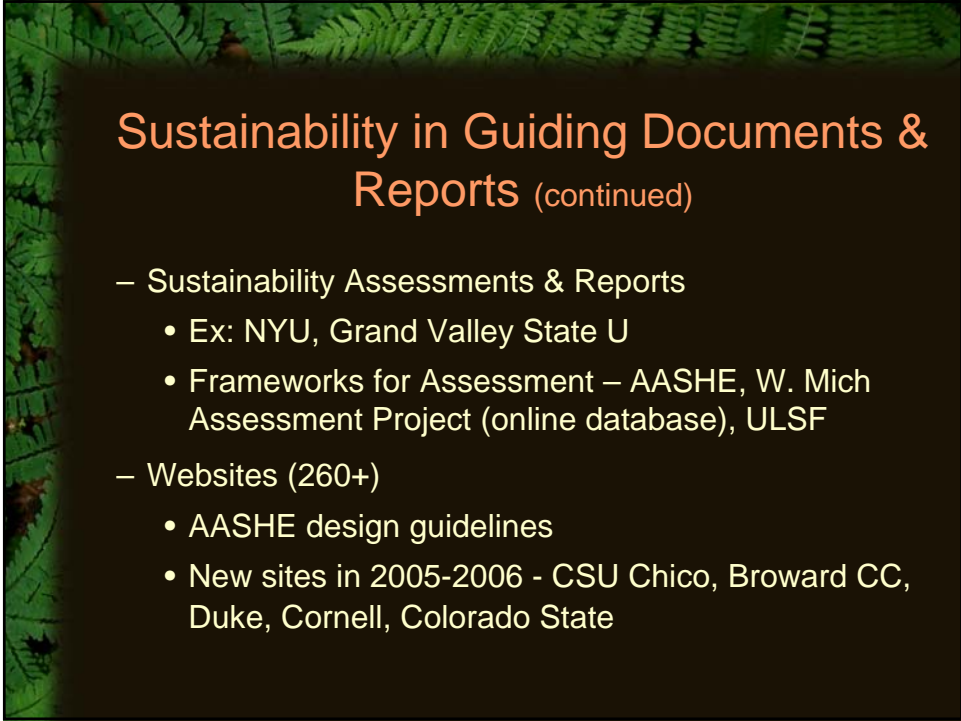
Sustainability in Guiding Documents & Reports

- In Vision, Values, or Mission Statement
 - Ex: Lane CC – core value
 - Ex: Warren Wilson – mission statement
 - City College of San Francisco - trustees resolution
- In Institution's Strategic Plan (35+)
 - Ex: Dickinson; Oberlin; Georgia Tech
- In Campus Master Plan (40+)
 - Ex: CSU Chico; U Vermont; Carnegie Mellon; Green River CC



Sustainability in Guiding Documents & Reports (continued)

- Sustainability Plan or Report
 - Ex: UC Santa Barbara; Mount Wachusett CC; Furman U
- Policies (Sustainability, Procurement, Investment, Energy, Building, etc.)
 - Ex: Western Carolina U - energy conservation
 - Ex: Houston CC – green procurement
 - Ex: Duke – socially responsible investing
 - Ex: Bemidji State U – environmental policy



Sustainability in Guiding Documents & Reports (continued)

- Sustainability Assessments & Reports
 - Ex: NYU, Grand Valley State U
 - Frameworks for Assessment – AASHE, W. Mich Assessment Project (online database), ULSF
- Websites (260+)
 - AASHE design guidelines
 - New sites in 2005-2006 - CSU Chico, Broward CC, Duke, Cornell, Colorado State



Sustainability Staff & Structure

- Committee, Task Force, Green Teams
 - UNC Chapel Hill – reports to vice chancellor
 - Keene State College – Presidents Council for a Sustainable Future
- Office of Sustainability
 - U New Hampshire
- Coordinator, Director, Officer (70+)
 - 11 new hires in 2006
 - AASHE – online directory, job descriptions, guide to hiring, salary survey

Awards, Recognition, Celebration

- Campus Sustainability Day (CSD) – Oct 24
 - CSD in fall; Earth Day in spring
- Campus Theme for Year (or Month)
 - Ex: St. Olaf College (2005-6)
 - Ex: Willamette U – Sustainability Month
- Internal Awards & Recognition
- External Awards
 - AASHE Leadership Awards. 2006 winners: Lane CC, Warren Wilson, Berea, U British Columbia
 - State & locality awards

2. Incorporating Sustainability into Facilities



Green Buildings

- Green Building Policies (70+)
 - New, Remodeled, and Existing Buildings
 - Ex: Mesa CC – Sustainable Bldg Remodel Program
- Green Buildings
 - Ex: Berea College – Ecovillage
 - Ex: Cape Cod CC – Applied Tech Bldg (LEED Gold, 85% less water; 35% less energy)
 - Ex: Haverford College – Athletic Facility (LEED Gold, 1st certified athletic facility)

Sustainable Dining

- Farm-to-Cafeteria Movement (200+ campuses)
- Sustainable Dining Initiatives
 - Ex: Oberlin College – Social Responsibility (Bon Appetit)
 - Ex: Yale – Sustainable Food Project (Aramark)
 - Ex: Colby College – Community Service (Sodexo)
 - Ex: UC Berkeley – Environment & Community (self-operated) 1st certified organic kitchen.
- Sustainable Gardens, Farms, Dairies
 - Ex: CSU Chico – Organic Dairy Teaching Facility
 - Ex: St Olaf College – Organic Garden (student-run, supplies all cafeteria's produce)



Fuel & Energy

- Biofueled Fleets
 - Ex: Rice U, Appalachian State U - biodiesel
 - Ex: U. Arizona motor pool - ethanol (E85)
- Bicycles
 - Ex: Texas Christian U. – “purple bike” program
- Renewable Energy & Energy Conservation
 - Ex: Carleton College – wind turbine
 - Ex: Central Oregon CC – student fee increase for renewable energy (75% of total energy)
 - Ex: Los Angeles CCD – solar initiative
 - Ex: U Buffalo – conservation saves \$4 mil/yr.



Water & Waste

- Water Conservation and Quality
 - Ex: Portland State U – “salmon safe” certification
 - Ex: U. Idaho – reclaimed water (90% of irrigation)
 - Ex: Lane CC – aerators save 1/3 of building’s water (student-led project)
- Waste Reduction
 - *Reduce* - ex: U. Northern Colorado - pay-for-printing program
 - *Reuse* - ex: Youngstown State – composting kitchen scraps
 - *Recycle* - ex: U Washington – e-media recycling

3. Residential Living, Student Life



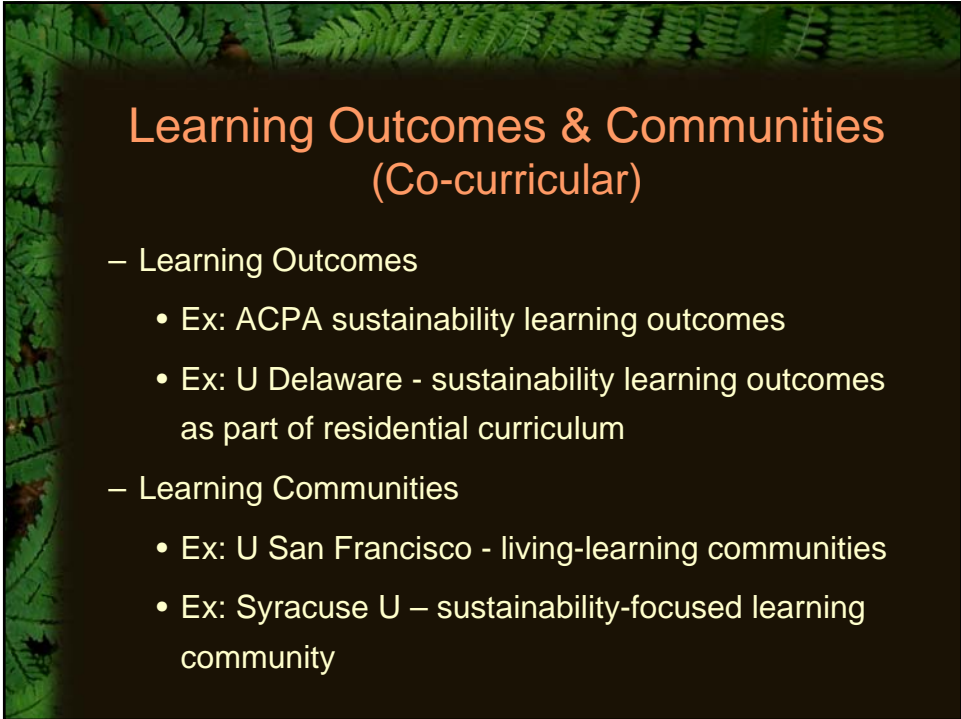
Campaigns

- Campus Climate Challenge
 - 30+ youth organizations for clean energy
 - MTV/ThinkMTV Break the Addiction campaign
- Sustainable Living
 - Eco-Reps, peer-to-peer sustainability outreach campaigns
- Student Green Fees
 - Renewable energy; sustainability projects
- Fair Trade (coffee, tea, sugar, choc.)
- Divestment (ex: Sudan)



Competitions & Awards

- Recyclemania - 200+ campuses in 2007
- NWF Chill-out – annual video competition
- Focus the Nation Student Award
- AASHE Student Award
- EPA P3 Award (People, Planet, Prosperity)
- Sustainable Building / Design Competitions



Learning Outcomes & Communities (Co-curricular)

- Learning Outcomes
 - Ex: ACPA sustainability learning outcomes
 - Ex: U Delaware - sustainability learning outcomes as part of residential curriculum
- Learning Communities
 - Ex: U San Francisco - living-learning communities
 - Ex: Syracuse U – sustainability-focused learning community

4. Curriculum



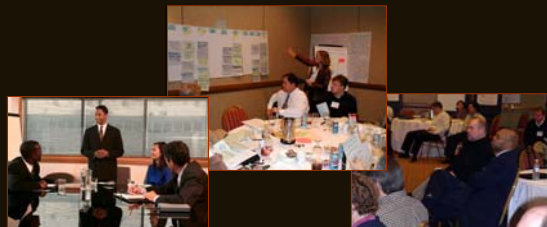
Curricular Initiatives

- In General Education Core
 - Ex: Oakland CC
 - Ex: Minnesota Colleges & Universities
- Infused Throughout Curriculum
 - Ex: Chandler-Gilbert CC
 - Ex: Emory U – Piedmont Project
 - Ex: Miami Dade College – Earth Ethics Institute

Curricular Initiatives (continued)

- Programs, Degrees, Institutes, Centers
 - Ex: Arizona State U – PhD in Sustainability
 - Ex: Duquesne U – MBA in Sustainability
 - Ex: Washington State U – B.A. in Organic Agriculture
 - Ex: U Minnesota – Minor in Sustainability
 - Ex: Coastal Carolina U – Center for Campus & Community Sustainability

5. Community Partnerships



Community Partnerships

- Ex: Santa Fe CC (NM)
 - Center for Community Sustainability – partnership w/industry, training students
- Ex: U. Louisville
 - Energy Conservation Partnership w/city & public schools (DOE-funded), \$65,000 savings
- Ex: City of Grand Rapids
 - Community Sustainability Partnership - colleges, universities, K-12, mayor, business working on sustainability projects



Education for a Sustainable Future—What You Need to Know



Terry Calhoun
Director
Media Relations and Publications
Society for College and University
Planning (SCUP)



Part IV Resources

www.heasc.net/sustainablefuture

- We've created an online list of links to major higher education sustainability resources just for this presentation
- List focused on information-dense sources but is representational, not comprehensive

Outline

- Curriculum & Academics
- Governance & Management
 - Student Services
 - Planning & Management
 - Presidents & Trustees
- General Sustainability Resources
 - Newsletters & Discussion Lists
 - Meta-Pages, Lists of Links, Databases
 - 2007 Events
- Climate Change
- Higher Ed & Context

Curriculum & Academics

DANS

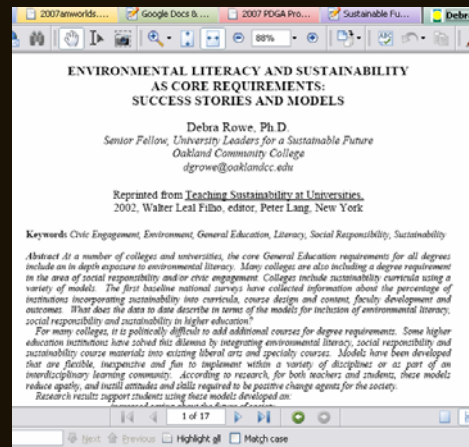
Disciplinary Associations
Network for Sustainability,
20+ organizations like . . .

American Psychological
Association
American Academy of
Religion

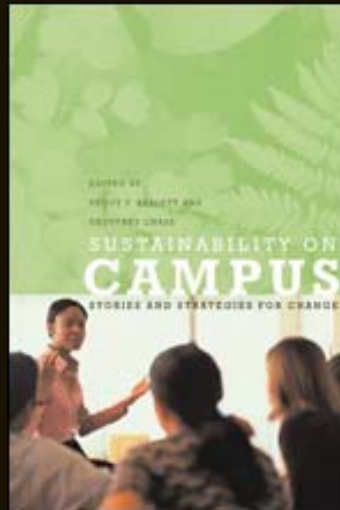
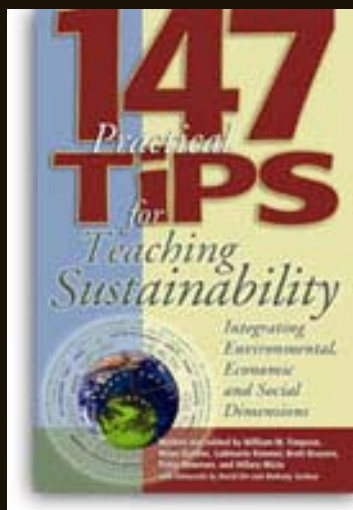
Website image not
currently available;
temporarily at

www.aashe.org/dans/

Curriculum Success Stories



Curriculum & Academics



Curriculum & Academics

The screenshot shows the 'Projects' page of playagreaterpart.org. The page features a navigation menu on the left with links to Home, About Us, Contact Us, Discussion List, and various FAQs. The main content area includes a header with the text 'Play a Greater Part: Healthier Planet, Campuses, Communities, and Economies'. Below this, there is a table listing 17 projects. The table has columns for Project Name, Status, Discipline, and Manager.

Project	Status	Discipline	Manager
Back-to-democracy.Org Web Site	Available	Public affairs	Dineen,Michael
Campus Carpooling	Available	Community service	Cataldo,Stephen
Campus Green & Clean Campaign	Available	Education	Da Silva,Linda
Campus Sustainability Day - Marketing	Available	Mass communications	Cahoun,Terry
Disciplinary Contributions To Sustainability	Available	Education	Rowe,Debra
Focus Groups On Effective Messages	Available	Behavioral science	Kuha,Mai
Green Purchasing	Available	Business	Lopez,Krista

Governance & Management

•HEASC

Higher Education Associations for Sustainability Consortium

Student Services
Planning & Management
Presidents & Trustees

The screenshot shows the 'Resource Center' page of the Higher Education Associations Sustainability Consortium (HEASC). The page features a navigation menu on the left with links to HEASC Home, About HEASC, Programs, HEASC Issues, Forums, Professional Development, Events, Resource Center, Membership, Contact Us, and Search. The main content area includes a header with the HEASC logo and the text 'Resource Center'. Below this, there is a section titled 'Recently Added' with a link to 'HEASC Sustainability Workshop at ACUHO-I (PDF)'. The page also contains a paragraph of text describing the workshop and its purpose.

Governance & Management Student Services

Many orgs like the following HEASC members have sustainability initiatives:

- **ACUHO-I**, College Housing Officers (21st Century Initiative)
- **ACPA**, Student Educators International
- **NIRSA**, Intramural Sports & Recreation
- **NACA**, National Association for Campus Activities

Governance & Management Student Services

ACUHO-I's 21st Century Project, ACUI's "Why Sustainability" Page, NAEP's Sustainable Purchasing Page



Governance & Management Student Services

ACPA main sustainability page, student flyer, primer, list of possible campus activities, and chart of learning outcomes!

Student Outcomes	Domains of Outcomes (Components)	Possible Intergovernmental Experiences for Learning Outcomes	Level of Knowledge
1. Each student will be able to define sustainability.	<ul style="list-style-type: none"> Understand the definition of sustainability. Understand the concept of sustainability as a balance of economic, social, and environmental factors. Understand the role of higher education in sustainability. Understand the role of the individual in sustainability. 	<ul style="list-style-type: none"> Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). 	<ul style="list-style-type: none"> Basic Intermediate Advanced
2. Each student will be able to explain the importance of sustainability.	<ul style="list-style-type: none"> Understand the importance of sustainability. Understand the role of higher education in sustainability. Understand the role of the individual in sustainability. 	<ul style="list-style-type: none"> Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). Participate in a sustainability program (e.g., recycling, energy conservation, etc.). 	<ul style="list-style-type: none"> Basic Intermediate Advanced

Governance & Management Planning & Management

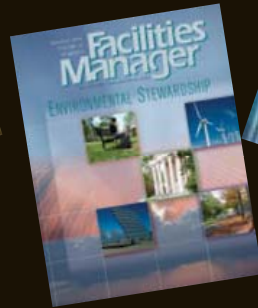
Many orgs like the following HEASC members have sustainability initiatives:

- **APPA**, Serving Educational Facilities Leaders
- **NACUBO**, Business Officers
- **NAEP**, Procurement Leaders
- **SCUP**, Planning for Higher Education

Such as * resource pages * books * magazine & journal articles * workshops * conference tracks * webcasts * more

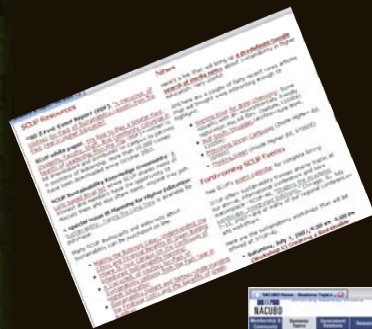
Governance & Management Planning & Management

Association Publications:
*Business Officer, Facilities
Manager, Planning for
Higher Education, and
many more*



Governance & Management Planning & Management

Association
Resource
Websites:
**SCUP,
NACUBO,
NAEP**



Governance & Management Planning & Management Collaboration – HEASC & More



Alternative energy book from APPA, NACUBO & SCUP; Smart & Sustainable Campuses Conference (many collaborators); Sustainability Track at joint APPA, NACUBO, SCUP conference in 2006

2nd Annual Smart and Sustainable Campus Conference
 April 21-19, 2007
 University of Maryland
 Student Union Building
 College Park, MD (USA)

Registration for this conference is being handled by NACUBO. For further information and links to registration, please visit:
www.nacubo.org/2007

Co-sponsor: A Case of the Green Program (2007)

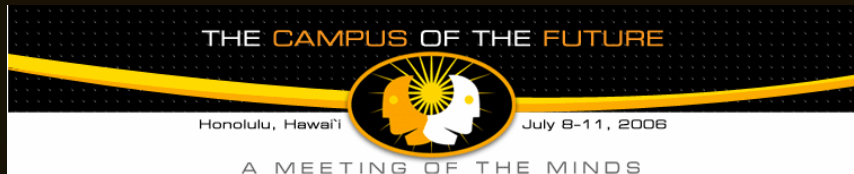
Co-sponsors include:

- AASHE: Association for the Advancement of Sustainability in Higher Education
- APPA: The Association of Higher Education Facilities Officers
- CEEP: Campus Consortium for Environmental Excellence
- CEMBA: Campus Consortium for Environmental Management Association
- NACUBO: National Association of College and University Business Officers
- SCUP: Society for College and University Planning
- USEPA: United States Environmental Protection Agency, and
- the University of Maryland, College Park

On April 21-19, 2007, NACUBO will join with the Environmental Protection Agency (EPA), the Association for the Advancement of Sustainability in Higher Education (AASHE), the Association of Higher Education Facilities Officers (APPA), the Campus Safety, Health, and Environment Management Association (CSHEMA), the Campus Consortium for Environmental Excellence (CEE), the Society for College and University Planning (SCUP), and the University of Maryland College Park to deliver a comprehensive conference on green practices and sustainable practices that serve the student, the community, and the environment. Sessions and workshops will be offered in the areas of campus planning, engaging the campus in sustainability, facility construction and operation, and assessment and measurement.

Who Should Attend:

- Sustainability Coordinators
- Facilities Managers
- Finance and Accounting Officers



Governance & Management Presidents & Trustees

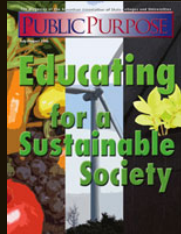
Many orgs like the following HEASC members have sustainability initiatives:

- **AASCU**, Serving Educational Facilities Leaders
- **AACC**, Business Officers
- **AGB**, Procurement Leaders

Such as * resource pages * books * magazine & journal articles * workshops * conference tracks * webcasts * more

Governance & Management Presidents & Trustees

AASCU's *Public Purpose* Magazine; Sustainability Article in ACE's *The Presidency Magazine*; Sustainability Panel at AGB Conference; AACC's Education for Sustainable Development Website



General Higher Education Sustainability Resources Meta-Sites

Longstanding advocacy sites with substantive resource lists or databases: ULSF, Second Nature, NWF's Campus Ecology Project (very student-focused)



General Higher Education Sustainability Resources **AASHE**, the Association for the Advancement of Sustainability in Higher Education

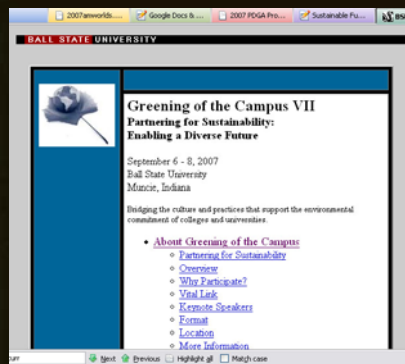


Be looking for info about the 2008 AASHE conference, tentatively in Pittsburgh, 2,000+ to be in attendance



Subscribe to the AASHE weekly bulletin!

General Higher Education Sustainability Resources Forthcoming 2007 National Events



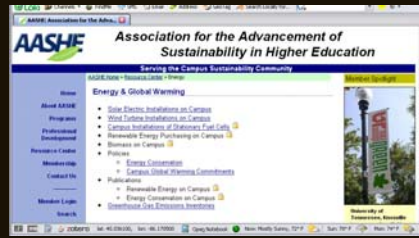
9/6–9/8
Greening of the Campus VII,
 Ball State University



10/24
Campus Sustainability Day V,
 On Your Campus!

Climate Change Resources

HECAP (for credibility with administrators), the Presidents' Commitment (270+ signers so far); the Campus Climate Challenge (national, student-run), and AASHE's "Energy & Global Warming" Resource List



US Partnership, Decade of Education for Sustainable Development



UN Decade of Education for Sustainable Development



Sectors: K-12, Adult Learning, Higher Ed, Faith, Business



Conclusions

1. The U.S. public is not educated enough about sustainability issues and solutions.
2. We need sustainability literacy and engagement for ALL. We all need skills to change consumption, investment and civic behaviors and to support appropriate market modifications (legislation).
3. Be a systems change agent.
4. Some exciting developments, too many to report, but much more needs to be done. You are in a key position to make this happen.
5. There are many resources and strategies to help you infuse sustainability into all aspects of higher education and the larger society.
6. Document all you do and share with others.

The Power of What You Do



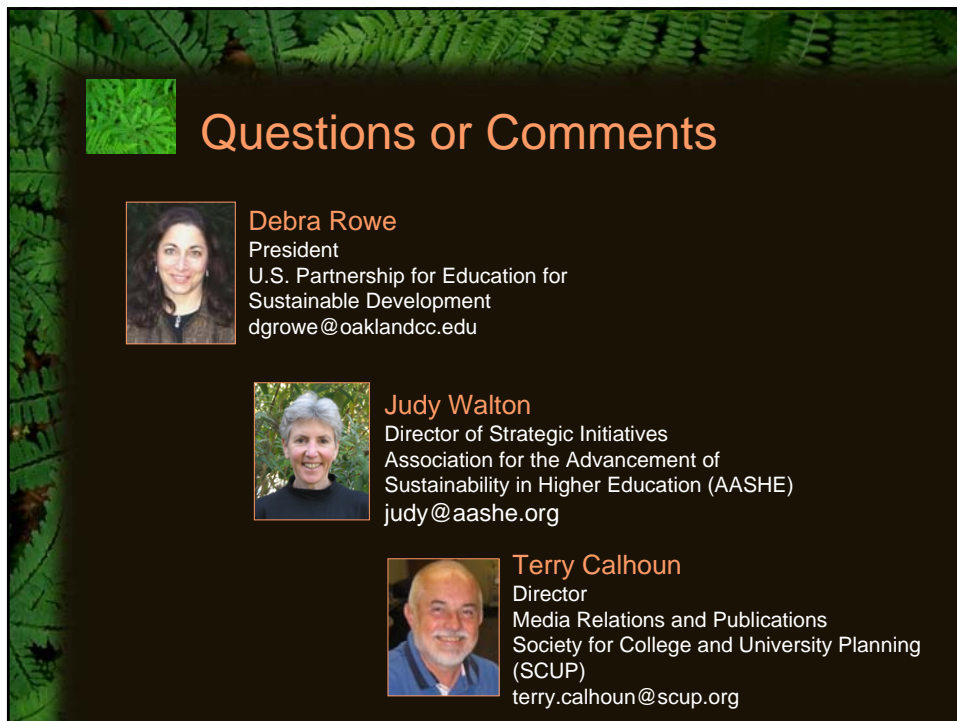
We can choose a sustainable future




Core Questions for Next Steps


1. What low hanging fruit can we implement immediately?
2. What are the key strategic actions we can take to shift to a sustainable institution and society as soon as possible?


Let our enthusiasm show!



Questions or Comments

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