



XI. ACKNOWLEDGMENTS AND RESOURCES

Acknowledgments

On behalf of National Wildlife Federation and Princeton Survey Research Associates, great appreciation is extended to the committed individuals, organizations, and institutions that provided substantive guidance and support, ensuring the success of this project. After many years in the making, it is truly a pleasure to have the first snapshot of campus greening efforts on a national scale in our hands.

This national survey of environmental performance and report, as well as National Wildlife Federation's Stakeholder Meeting, "*Assessing Progress Toward Sustainability in Higher Education*," were made possible by support from the Educational Foundation of America.

We would also like to extend our sincere appreciation to the co-sponsoring organizations and associations that provided in-kind support, including networking assistance to broaden awareness of the project and encourage the participation of their members through newsletters, publications and the Web.

American Society of Landscape Architects (ASLA)
Association of Higher Education Facilities Officers (APPA)
Center for a New American Dream
Center for Sustainable Systems
Higher Education Network for Sustainability and the Environment (HENSE)
Nathan Cummings Foundation
National Association of Educational Buyers (NAEB)
North American Alliance for Green Education (NAAGE)
North American Association for Environmental Education (NAAEE)
Rocky Mountain Institute (RMI)
Second Nature
Society for College and University Planning (SCUP)
University Leaders for a Sustainable Future (ULSF)
World Resources Institute

In addition to extending our appreciation to the National Wildlife Federation's Campus Ecology member institutions, Fellows and Technical Consultants, we wish to thank the following campus greening practitioners who lent great support and guidance in making the survey a success. As with any major undertaking, we apologize for not recognizing all who contributed to the success of this project.

Special Assistance Provided by

Terrance Alexander, Occupational Safety and Environmental Health, University of Michigan

Shehnaz Atcha, Management Institute for Business and the Environment, World Resources Institute

Michael Bauer, Everglades Project Office, National Wildlife Federation

Andy Buchsbaum, Water Quality Projects, National Wildlife Federation

Jonathan Bulkley, Center for Sustainable Systems, University of Michigan

Rick Bunch, Management Institute for Business and the Environment, World Resources Institute

Barbara Bush, Development-Institution, National Wildlife Federation

Wynn Calder, Center for Respect of Life and the Environment and the Association of University Leaders for a Sustainable Future

Rick Clugston, Center for Respect of Life and Environment and the Association of University Leaders for a Sustainable Future

Peter Blaze Corcoran, Environmental Studies, Florida Gulf Coast University

Anthony Cortese, Second Nature

Sarah Hammond Creighton, Tufts Climate Initiative, Tufts University

Elizabeth Davey, Office of Environmental Affairs, Tulane University

Jack DeBell, Environmental Center, University of Colorado-Boulder

Peter Ewell, National Center for Higher Education Management Systems

Thomas Feiler, Rocky Mountain Institute

Patricia Glick, Climate and Wildlife Program, National Wildlife Federation

Robert Gogan, Facilities Maintenance Operations, Harvard University

Tom Gonzales, President, Front Range Community College

Margaret Green, Biological Sciences, Broward Community College

John Hayes, Facilities Operations, SUNY Buffalo

Patricia Jerman, School of the Environment, University of South Carolina

Charles and Nicole C. Kibert, Greening UF, University of Florida

Gregory Keoleian, Center for Sustainable Systems, University of Michigan

Robert Koester, Center for Energy Research/Education/Service, Ball State University

Terry Link, Office of Campus Sustainability, Michigan State University

Susan Lovell, Wege Foundation

Terri McCarthy, Wege Foundation

Erin McKeown, Environmental Health and Safety, University of Washington

Lander Medlin, APPA: The Association of Higher Education Facilities Officers

Elizabeth Munsch, Facilities Management Services, Carnegie Mellon University

David W. Orr, Environmental Studies, Oberlin College

Peter Pasterz, Office of Recycling and Waste Management, Michigan State University

James R. Pittman, North American Alliance for Green Education

Peter Reppe, Center for Sustainable Systems, University of Michigan

Deborah Rowe, Environmental Systems Technology, Oakland Community College

Kim Shaknis, Second Nature

Walter Simpson, UB Green, Facilities Operations, SUNY Buffalo

Jeff Staudinger, Center for Sustainable Systems, University of Michigan

Will Toor, Environmental Center, University of Colorado at Boulder

Michael Totten, Conservation International

Carolyn Waldron, Southeastern Natural Resource Center, National Wildlife Federation

Peter Wege, Wege Foundation

Thomas Wojciechowski, Student Development, Northland College

Additional Feedback and Support

Henry Art, Environmental Studies, Williams College

George Bandy, Office of Facilities Planning and Development, University of Texas- Houston

David Berry, Sustainable Development Indicator Group, U.S. Department of Interior

Kerry Bolognese, National Association of State Universities and Land-Grant Colleges

Andrea Brown, Urban and Environmental Policy Institute, Occidental College

Gary A. Brown, Facilities Planning and Management,
University of Wisconsin—Madison

Joe Cady, Political Science Department, Augsburg College

Richard P. Chait, American Association of Higher Education

Jack Chin, Funders Forum on Environmental Education

Susan Comfort, Center for Environmental Citizenship

John Crittenden, Civil and Environmental Engineering,
Michigan Technological University

Mark J. Darling, Engineering & Auxiliary Services
Ithaca College

Mackenzie Davis, Engineering, Michigan State University

David Eagan, Independent Consultant

Marion Farrier, The Consultative Group on
Biological Diversity

Terrance Feravich, Facilities Services and Planning,
Grand Valley State University

Jeffery Flocken, Conservation International

Christopher Fox, graduate student, Harvard University

James Girard, Chemistry Department, American University

Harold Glasser, Environmental Studies, Western Michigan
University

Joan Haley, North American Association for
Environmental Education

Joanne Hartmeyer, Center for Sustainable Systems,
University of Michigan

Roald Hazelhoff, Environmental Center,
Birmingham-Southern College

Robert Huggett, Executive Management,
Michigan State University

Nan Jenks-Jay, Environmental Affairs, Middlebury College

Nick Keller, Aspen Systems

Rolfe Kellor, Kellor Associates

Tom Kelly, Office of Sustainability, University of
New Hampshire

Harry Knopke, President, Aquinas College

Robert S. Lawrence, Bloomberg School of Public Health,
Johns Hopkins University

Kai Lee, Environmental Studies, Williams College

David Jay Lieb, Transportation Services, Cornell University

Arend Lubbers, President, Grand Valley State University

Kevin Lyons, Procurement and Contracting,
Rutgers University

Craig H. Martinsen, NASA Sustainability and Global Change
Program, Prescott College

Chris McKee, Office of Facilities Planning and
Development, University of Texas-Houston

Aldo Morri, Calvert Ventures

Frederick Myer

Benjamin Nicholson, Center for Sustainable Systems,
University of Michigan

Richard Novak, Association of Governing Boards

Juan R. Olivarez, President, Grand Rapids
Community College

Robert Partridge, Research and Finance, Grand Rapids
Community College

Andi Pearl, Center for a New American Dream

Noel Perrin, Environmental Studies, Dartmouth College

Kim Posich, Center for a New American Dream

Mohammad H. Qayoumi, Office of Vice Chancellor
for Administrative Services, University of Missouri-Rolla

Robert Ries, Research, Carnegie Mellon University

Margaret Rivera, American Association of
Community Colleges

Marnin Robbins, graduate student,
Humboldt State University

Dianne Russell, Institute for Conservation Leadership

Michael Shriberg, graduate student, University of Michigan

Thomas Smith, Facilities, Grand Rapids Community College

Linda Suskie, American Association of Higher Education

Jason Tallant, student, Western Michigan University

Kurt Teichert, Brown is Green, Brown University

Craig Thompson, Western Studies Program, Western
Wyoming Community College

Christopher Uhl, Department of Biology,
Penn State University

Joanna Underwood, Inform, Inc.

John Watson, Independent Consultant

Arthur Weissman, Greanseal

Cheryl Wolfe-Cragin, Environmental Studies,
Oberlin College

Brian K. Yeoman, Office of Facilities Planning and
Development, University of Texas- Houston

Nelda Zehner, Office of Waste Management,
University of Missouri

National Wildlife Federation

Barbara Bramble

Carla Brown

Karyn Bundy

Mary Burnette

Heather Carskaddan

Dan Chu

Laura Hickey

Betsy Hodge
Doug Inkley
Phil Kavits
John Kostyack
Lori Liddick
James Lyon
Jerry Mulligan
Chris Palmer
Chuck Paquette
Cindy Petrick
Jessica Stine
James Stofan
William Street
Julie Tanner
Craig Tufts
Jean Tufts
Mark Van Putten
Carolyn Waldron
Susan Weil
Mark Wexler

Economicology Schools (Helped Pilot Survey)¹²

Aquinas College
Carnegie Mellon University
Grand Rapids Community College
Grand Valley State University
Michigan State University
Michigan Technological University
Western Michigan University
Williams College
University of Michigan

¹² Because of changes to the survey after the pilot, data for the University of Michigan was not included for the facilities and presidents sections. We thank the University for its assistance with the pilot and apologize that we were not able to include all of the pilot data in the final survey.

Print and Electronic Resources

Books and Reports

Brown, Lester, et. al., 2001. *State of the World 2001*. Washington, D.C.: Worldwatch Institute. (Available through www.worldwatch.org.)

Collett, Jonathan and Stephen Karakashian, editors, 1996. *Greening the College Curriculum: A Guide to Environmental Teaching in the Liberal Arts*. Washington, DC: Island Press.

Cortese, Anthony D., 1997. *Engineering Education for a Sustainable Future*. Boston, MA: Second Nature. (See also: www.secondnature.org.)

Creighton, Sarah Hammond, 1998. *Greening the Ivory Tower: Improving the Environmental Track Record of Colleges and Universities*. Cambridge, MA: MIT Press.

Eagan, David J. and Julian Keniry, 1998. *Green Investment, Green Return: How Practical Conservation Projects Save Millions on America's Campuses*. Reston, Virginia: National Wildlife Federation. (See also: www.nwf.org/campusecology.)

Filho, Walter Leal, editor, 1999. *Sustainability and University Life*. Frankfurt am Main: Peter Lang. (Available through www.ulsf.org.)

Filho, Walter Leal, editor, and Richard M. Clugston, deputy editor. *International Journal of Sustainability in Higher Education*. Bradford, West Yorkshire: Emerald Partnerships. (Available through www.ulsf.org.)

Finlay, Jennifer and Judith Samuelson, 1999. *Beyond Grey Pinstripes: Preparing MBA's for Social and Environmental Stewardship*. Washington, DC: World Resources Institute. (Available through www.wri.org.)

Heinz Family Foundation, 1995. *Blueprint for a Green Campus: The Campus Earth Summit Initiatives for a Green Campus*. Washington, DC: Heinz Family Foundation. (Available through www.cgv.org.)

Intergovernmental Panel on Climate Change (IPCC), 2001. *Third Assessment Report: Climate Change 2001*. Cambridge: Cambridge University Press.

Keniry, Julian, 2000. *Campus Environmental Management Systems*. Vienna, Virginia: National Wildlife Federation. (See also: www.nwf.org/campusecology.)

Keniry, Julian, 1995. *Ecodemia: Campus Environmental Stewardship at the Turn of the 21st Century*. Reston, Virginia: National Wildlife Federation.

Koester, Robert J., editor, 1999. *Conference Proceedings: Greening of the Campus III: Theory and Reality*. Muncie, IN: Ball State University. (See also: www.bsu.edu/greening.)

Orr, David W., 1994. *Earth in Mind: On Education, Environment and the Human Prospect*. Washington, DC: Island Press.

Orr, David W., 1992. *Ecological Literacy: Education and the Transition to a Postmodern World*. Albany, NY: State University of New York Press.

Poinsatte, Françoise, and Will Toor, 1999. *Finding a New Way: Campus Transportation for the 21st Century*. Boulder, Colorado: University of Colorado Environmental Center. (See also: www.colorado.edu/cuenvironmentalcenter.)

Simpson, Walter, 2000. *UB Guide to Green Computing*. Buffalo, NY: SUNY Buffalo.

Smith, April and the Student Environmental Action Coalition, 1993. *Campus Ecology: A Guide to Assessing Environmental Quality and Creating Strategies for Change*. Los Angeles, CA: Living Planet Press.

Strauss, Benjamin H., 1996. *The Class of 2000 Report: Environmental Education, Practices, and Activism on Campus*. New York, NY: Nathan Cummings Foundation.

Wixom, Robert L., Lisa L. Gould, Susan Schmidt and Louis Cox, editors, 1996. *Environmental Challenges for Higher Education: Integrating Sustainability into Academic Programs*. Burlington, VT: Friends Committee on Unity with Nature.

Articles

Betts, Kellyn S., 2001. "Greening of the Campus." *Environmental Science and Technology Magazine*, Vol. 35, Issue 9, pp. 189A-202A.

Bogo, Jennifer, 1999. "Sustainability 101." *E Magazine*, Vol. X, No. 6.

Clark, Charles S, 2000. "Campuses Move Toward Sustainability." *AGB Priorities*, No. 14, Spring. (See also: www.agb.org.)

Garland, Charlene, 2001. "Reducing Greenhouse Emissions: Northeastern Campuses Demonstrate Varied Approaches." *Campus Ecology Connection*, Vol. 12, Issue 1. (Available through www.nwf.org/campus-ecology.)

"Green Building Report: Slowly, Campuses Are Going Green," 2001. *Building and Operating Management*, May. (Available through www.facilitiesnet.com/bom)

Herremans, Irene and David E. Allwright, 2000. "Environmental Management Systems at North American Universities: What Drives Good Performance?" *The Declaration*, Vol. 3, No. 3, February. (See also: www.ulsf.org.)

Kohn, Bruce S., Walter Simpson, Julie Barrett-O'Neill, and Joseph A. Gardella, Jr., 1999. "Students Conduct Environmental Audits for Credit and Public Service." *The Declaration*, Vol. 3, No. 2, September.

Nicholson, Ben, Jonathan Bulkley, and Greg Keoleian, 2000. "Measuring Progress: Developing Standard Campus Performance Metrics." *Campus Ecology Connection*, Vol. 11, Issue 1.

Perrin, Noel, 2001. "The Greenest Campus: An Idiosyncratic Guide." *Chronicle of Higher Education*, April 6.

Petit, J.R., J. Jouzel, D. Raynaud, et. al., 1999. "Climate and Atmospheric History of the Past 420,000 Years from the Vostok Ice Core, Antarctica." *Nature*, Vol. 399, June.

Quigley, James, 2001. "All 56 Presidents Sign Environmental Plan." *New Jersey Higher Education Partnership for Sustainability*. (See also: www.ramapo.edu/content/units/tas/njheps/index.html.)

Savanick, Suzanne, 2001. "Campus Watershed Projects Abound." *Campus Ecology Connection*, Vol. 12, Issue 1.

Simpson, Walter, 1996. "Environmental Stewardship and the Green Campus." *Facilities Manager*, Vol. 12, No. 1, pp. 39-45. (Available through www.appa.org)

Stine, Jessica, 2001. "Demystifying 'Green' Purchasing." *NAEB Journal*, Summer, pp. 12-17.

Simpson, Walter, 1996. "Environmental Stewardship and the Green Campus." *Facilities Manager*, January. (See also: www.appa.org)

Sustainability Assessment Questionnaire (SAQ). Washington, DC: University Leaders for a Sustainable Future. (See also: www.ulsf.org)

Taylor, Robert W, 1999. "Environmental Sustainability in Higher Education: A Survey Analysis." *The Declaration*, Vol. 3, No. 2, September.

Toor, Will, 2000. "Making Earth Day Everyday on Campuses." *Campus Ecology Connection*, Vol. II., Issue 1.

Uhl, Christopher, Amy Anderson, and Garrett Fitzgerald, 2000. "Higher Education: Good for the Planet?" *Bulletin of the Ecological Society of America*, Vol. 81, No. 2, April.

Uhl, Christopher and Amy Anderson, 2001. "Green Destiny: Universities Leading the Way to a Sustainable Future." *BioScience*, Vol. 51, No. 1.