



ARIZONA STATE UNIVERSITY

SPRING 2009 CONVOCATION

MAY 14, 2009

GLOBAL INSTITUTE OF SUSTAINABILITY
ROOM 101



Message from the Director



Welcome to Arizona State University and the nation's first School of Sustainability, where faculty and students alike have embarked upon one of the boldest, most comprehensive approaches to sustainability attempted at any university.

Today we celebrate the first of what we hope will be a long and distinguished line of sustainability graduates, the intellectual capital upon which the future depends.


We believe we are engaged in a global-survival experiment, in a time when sustainable solutions must be envisioned and implemented.

How do we define sustainability? Sustainability is:

- An awareness of the connectivity of the world and the implications of our actions;
- Finding solutions through innovative approaches;
- Expanding future options through environmental stewardship;
- Building governance institutions that continually learn; and
- Instilling values that promote justice.

Sustainability is the “reframing” of the debate that has evolved from polarizing conversations of “either development or environment” to discussions of how humankind can transform its economic growth system into a sustainable approach to living on a delicate planet.

Let us all join in as we seek the best outcomes for both human and natural environments, both now and into the indefinite future.



Charles L. Redman

About the School of Sustainability



The School of Sustainability, established in 2007, offers transdisciplinary degree programs that advance practical solutions to environmental, economic, and social challenges of sustainability—especially as they relate to urban areas.

The School offers graduate programs leading to Doctor of Philosophy, Master of Arts, and Master of Science degrees in Sustainability and undergraduate programs leading to Bachelor of Arts and Bachelor of Science degrees in Sustainability.

We focus on collaborative learning, innovative approaches, and problem-oriented training to address sustainability challenges relating to energy and materials, water, ecosystems, urbanization, international development, social transformations, climate change, and food systems. For more information, visit: schoolofsustainability.asu.edu

The School is part of the Global Institute of Sustainability, which is the hub of ASU's sustainability initiatives. The Institute advances research, education, and business practices for an urbanizing world. For more information, visit: sustainability.asu.edu

ARIZONA STATE UNIVERSITY'S ALMA MATER

Where The Bold Saguaros
Raise Their Arms On High
Praying Strength For Brave Tomorrows
From The Western Sky
Where Eternal Mountains
Kneel At Sunset's Gate
Here We Hail Thee, Alma Mater
Arizona State

Order of Events

PROCESSIONAL

WELCOME

Grand Marshal

Charles L. Redman, Ph.D.

Director, School of Sustainability

Virginia M. Ullman Professor, Natural History and the Environment

MUSIC WITH VISUAL

With My Own Two Hands by *Ben Harper*

GREETINGS FROM THE GLOBAL INSTITUTE OF SUSTAINABILITY

Rob Melnick, Ph.D.

Executive Dean, Global Institute of Sustainability

Presidential Professor of Practice, School of Sustainability

2008 - 2009 AWARDS

Reader

Katherine A. Spielmann, Ph.D.

Associate Director, School of Sustainability

Awardees

Adrienne Uphoff, Norton and Ramsey Sustainability Scholarship

Timothy Plainfeather, Tempe Earth Day Scholarship

William Francis, Read Scholarship for Academic Excellence

STUDENT SPEAKERS

Graduate

Carolyn S. Mattick, M.S.

Undergraduate

Candice "Nikki" Swaim, B.S.

Order of Events, continued

INTRODUCTION OF MASTER'S DEGREE CANDIDATES

Reader

Joshua Abbott, Ph.D., Assistant Professor

Advisors

Rimjhim Aggarwal, Ph.D., Assistant Professor

Eli P. Fenichel, Ph.D., Assistant Professor

Leah Gerber, Ph.D., Associate Professor

Kelli Larson, Ph.D., Assistant Professor

Clark Miller, Ph.D., Associate Professor

Arnim Wiek, Ph.D., Assistant Professor

Eric Williams, Ph.D., Assistant Professor

INTRODUCTION OF BACHELOR'S DEGREE CANDIDATES

Reader

Matthew P. Fraser, Ph.D., Associate Professor

Co-Director of Research Development, Built Systems

Global Institute of Sustainability

ALMA MATER – ARIZONA STATE UNIVERSITY

Music and Lyrics by *Ernest Hopkins and Miles Dresskell*

CLOSING REMARKS

RECESSIONAL

RECEPTION

Please join us at a reception immediately following the ceremony.

Photography provided by Tim Trumble

Candidates for Master's Degrees

Fall 2008

Brigitte Bavousett, M.A.

Corporate Sustainability Initiatives: Development and Implementation of a Forestation Project in an Evolving Carbon-Credit Market

Spring 2009

Carolyn S. Mattick, M.S.

Energy and Civilization: A History of Energy Production and Consumption in a Global Cultural, Technological, and Economic Context

Summer 2009

Brittany Ann DeKnight, M.A.

Land Conversion from Agricultural to Residential Use in Phoenix, AZ

Benjamin Max Funke, M.A.

Developers and 30 Years of Advertisements in Phoenix Magazine: Changing Cultural Constructs of Residential Landscapes and Implications for Urban Sustainability

Clea McGregor Senneville, M.A.

Knowledge-Action Integration, Institutions, and Sustainability: A Study of the Arizona Water Institute

Carissa Anna Taylor, M.A.

Local Food in the Phoenix Metropolitan Area: Perceptions and Heterogeneity of Local Food System Stakeholders

Zachary David Hughes, M.S.

Integrating Social Decision Making into Conservation Management Decisions

Candidates for Bachelor's Degrees

Spring 2009

Lucas Daniel Hanover, B.S.

Candice Nicole Swaim, B.S.

Summer 2009

Andrew Krause, B.A.

Courtney Dykstra, B.S.

Ross Fisher, B.S., Magna Cum Laude

Felicia Smith, B.S.

Graduation with Academic Recognition

A baccalaureate degree candidate must have completed at least 56 semester hours of resident credit at Arizona State University to qualify for graduation with academic recognition. For purposes of this ceremony, grade point averages from the end of fall 2008 semester were used. Final designations will be noted on the student's diploma and transcript.

Summa Cum Laude designates those candidates with a cumulative grade point average of 3.80 – 4.00

Magna Cum Laude designates those candidates with a cumulative grade point average of 3.60 – 3.79

Cum Laude designates those candidates with a cumulative grade point average of 3.40 – 3.59

School and Faculty Awards

ASU's School of Sustainability received both a Crescordia Award in the category of environmental education/communication and the overall President's Award for 2008 from Arizona's Valley Forward Association for outstanding environmental achievement of the year.

Decision Center for a Desert City (DCDC) co-directors Patricia Gober, Ph.D., and Charles Redman, Ph.D., accepted the Prince Sultan Bin Abdulaziz International Prize for Water in a November ceremony in Saudi Arabia. DCDC, which is a unit of the Global Institute of Sustainability, will split the \$133,000 award with one other institution. Gober and Redman are both School of Sustainability faculty.

FACULTY MEMBERS

Patricia Gober, Ph.D., was elected fellow of the American Association for the Advancement of Science, the world's largest general scientific society, in the Geology and Geography Division. In addition, Dr. Gober received the ASU Faculty Achievement Research Award sponsored by the ASU Alumni Association for her role in advancing the issues of water management and environmental change in metropolitan Phoenix. She also serves on the faculty of the School of Geographical Sciences.

George Maracas, Ph.D., was honored by the *Phoenix Business Journal* with its Green Pioneers Award, which is given to businesses, governments, and individuals that take steps to become more eco-friendly. He also serves on the faculty of the Department of Electrical Engineering and is CEO of ASU's Solar Power Laboratory.

Douglas Webster, Ph.D., was awarded the 2008 Phoenix Global Power Player award by the *Phoenix Business Journal*. He also serves on the faculty of the School of Government, Politics & Global Studies.

Jianguo Wu, Ph.D., was chosen as one of 19 Leopold Leadership Program Fellows based on scientific excellence, leadership qualities, and desire to expand communication and outreach skills beyond traditional scientific circles. He also serves on the faculty of the School of Life Sciences.

School and Faculty Awards, continued

AFFILIATED FACULTY MEMBERS

Braden Allenby, Ph.D., was named a 2008 U.S. Professor of the Year by both the Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education. He is also the Director, Center for Earth Systems Engineering and Management, and serves on the faculty of the Department of Civil and Environmental Engineering.

Nan Ellin, Ph.D., received Valley Forward's Environmental Excellence Award of Merit in the Environmental Education category for "Making Sustainable Communities Happen." She is also director of the Urban & Metropolitan Studies Program in the School of Public Affairs, College of Public Programs.

Stuart Fisher, Ph.D., won the Ecological Society of America's Eugene P. Odum Award for Excellence in Environmental Education. He also serves on the faculty of the School of Life Sciences.

Nancy Grimm, Ph.D., was elected fellow of the American Association for the Advancement of Science, the world's largest general scientific society, for her work in the area of urban ecology & sustainability. She also serves as co-director of the Central Arizona-Phoenix Long-Term Ecological Research Project and is a faculty member of the School of Life Sciences.

Mark Henderson, Ph.D., won the Creasman Award for Excellence from the ASU Alumni Association for his work as director of GlobalResolve, an interdisciplinary social-entrepreneurship initiative at Arizona State University that involves ASU students, faculty, staff, alumni, and international partners in projects that improve the lives of underprivileged people around the world. He also serves on the faculty of the ASU Polytechnic Department of Engineering.

School and Faculty Awards, continued

Margaret Nelson, Ph.D., was named a President's Professor in 2008, an award that recognizes tenured faculty who have made outstanding contributions to undergraduate education at Arizona State University. She is also Associate Dean, Barrett, The Honors College and serves on the faculty of the School of Human Evolution and Social Change.

David Pijawka, Ph.D., received the 2009 Outstanding Leadership in Education award from the NAACP, Maricopa Branch. He also serves on the faculty of the School of Geographical Sciences and Urban Planning.

Bruce E. Rittmann, Ph.D., NAE, FAAAS, won the Simon W. Freese Environmental Engineering Award and Lecture from the American Society of Civil Engineers. He is also director of the Center for Environmental Biotechnology in the Biodesign Institute. Rittmann was just named a Regent's Professor, the highest faculty honor bestowed by the University.

Everett Shock, Ph.D., was named 2009 Geochemistry Fellow by the Geochemical Society and The European Association for Geochemistry, an honor that is bestowed upon outstanding scientists who have, over some years, made a major contribution to the field of geochemistry. He also serves on the faculty of the School of Earth and Space Exploration.

What is a Gonfalon?

A gonfalon is a flag or banner of medieval origin, traditionally displayed during ceremonies and processions. In academia, gonfalons represent the different fields of study within a university. They typically include the established academic color for the discipline as well as a representative symbol or emblem.



THE SCHOOL OF SUSTAINABILITY GONFALON

This banner of ASU maroon and gold features fields of scarab green, the shade established by Arizona State University as the academic color for the new discipline of sustainability. The symbol adorning the School of Sustainability's gonfalon is a city skyline surrounded by a vine growing in an unbroken circle. The skyline denotes economic growth and social justice, while the twining vine signifies the natural environment and its relationship to all things.

Students whose names appear in this program are candidates for the degrees listed, which will be conferred subject to completion of requirements.

University commencement and convocation ceremonies are special events for all involved. Please show respect for everyone who has come to share in the experience. As a courtesy to those around you and to our graduating students, please turn off pagers and cellular phones during the ceremony.



SCHOOLOFSUSTAINABILITY.ASU.EDU