Sustainability education is about not only content but also process in education, and education is becoming more outside of the classroom and into the community — where students are engaged in studying and helping to solve real community problems. This approach to education provides benefits to communities and it also excites the education process and improves learning. It is a galvanizing time to be in education and the stakes are high. The decisions being made today and the patterns of thinking being developed will have consequential and long-lasting impacts. Thank you for attending this conference to learn, share, network, and collaborate with colleagues about these important themes and trends. You are contributing the energy and focus that will help transform education and our world to support a sustainable future.

Welcome to the Education for Sustainability Summer Institute 2011. Educators and schools everywhere are implementing sustainability education into classes across the disciplines and at all levels. This generation of students and the next will be faced with unprecedented challenges to address, and the major sustainability crises being experienced today — climate change, natural resources depletion, economic turmoil, a growing number of failing states. Noted environmental educator David Orr believes the crises we face are primarily related to perceptions and values, at what he calls a crisis of mind. He therefore sees the challenge as an educational one and that teachers and schools have the opportunity, and also responsibility, to build new habits of mind in their students and develop their skills in critical thinking, systems thinking, collaboration, and change.

Education for Sustainability Summer Institute

The facilities for this conference were selected as models of sustainability. The conference is being held in the new Gary A. Ransdell Hall, with the evening reception to be held at the Service One Credit Union branch on Campbell Lane.

Gary A. Ransdell Hall is home to the WKU College of Education and Behavioral Sciences. It is Kentucky’s first large-scale building on a university campus built to LEED standards. Some features include use of recycled and local materials; energy efficient heating, cooling and lighting; recycling stations; maximum daylighting; low VOC materials; reflective roof; pervious pavement; rain gardens; and a green roof.

Facilities

Construction team carefully kept all excavated materials on site for dual geothermal heating and cooling and also责任感, to build new habits of mind in their students and develop their skills in critical thinking, systems thinking, collaboration, and change.

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Service One Credit Union on Campbell Lane is the second building in Kentucky built to LEED Platinum standards (the highest level). Features include use of reclaimed wood timbers from a historic mill, a green roofing system, earth berms, dual geothermal heating and cooling system, interior day lighting. bioretention basin, and grass paver integration. Special glass filled with Manoseg give the windows an R-value of 20 while the ICF walls have an R-value of 50. The construction team carefully kept all excavated materials on site for reuse, resulting in the removal to landfill of only one dumpster of waste.

Education for Sustainability Summer Institute 2011 is hosted by the WKU College of Education and Behavioral Sciences and Center for Environmental Education and Sustainability. The Office of Sustainability and MBA program provided valuable assistance and support.

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Sponsors:

• Institute for Citizenship and Social Responsibility
• MBA Sustainability Concentration
• Philosophy and Religion Department
Office of Sustainability

A special thanks to:

• Our speakers, session presenters, and exhibitors
• The String Classics Trio for the reception music
• Quinna Sydnor for the rain barrels artwork
• Valerie Brown, President, CEEED, and Rob Atipio, Facilities Manager, of Service One Credit Union

Conference Planning Committee:

Nancy Givens, Sustainability Programs Development Coordinator
oral Environment Education & Sustainability, Jeannine Huss, Assistant Professor, School of Teacher Education, Roxanne Spencer, Associate Professor, Library Public Services; Terry Wilson, Director, Center for Environmental Education and Sustainability, Dr. Kay Canda, Associate Professor, School of Teacher Education, Dr. Vicki Stayton, Retired, School of Teacher Education

Thursday, July 21

8:30 am Check-in for Registrants – Room 2002

Exhibitor’s Hall and Poster Sessions – Room 2003

10:00 am – 11:50 am Interactions Sessions

1) Creative Journalism, Dr. Bill Hammond – Room 2002

2) Geos-Caching, Dr. Kay Canda – Room 2001

3) PLT Gardens for Sustainable Earth, Gary A. Ransdell Hall, Eric Enty – Room 2001

11:50 am – 12:00 pm Break

A visit to Riss Rock & Tole Technology Hall (RRTTH)

12:00 pm – 12:50 pm Lunch – Gathering and welcome – MWTH Atrium

KSAK Lunch

Break – Return to Gary A. Ransdell Hall (GAR)

1:00 pm – 2:00 pm Opening Session – GM Auditorium

Break by Joe Texas, Superintendent, Bowling Green City Schools and Tim Moore, Superintendent, Warren County Public Schools

Introduction to speaker by Dr. Terry Wilson

Keynote Address: International Trends in ESP

Dr. Rosalyn Hixson, Secretary of the UNCUS Chair on Revisiting Teacher Education in Address Sustainability

2:00 pm – 2:10 pm Break

2:10 pm – 3:05 pm Concurrent Session 1

SESSION A: Sustainability as a 21st Century Literacy: Core Principles and Practices, Nancy Givens – Room 2002

SESSION B: Encouraging Sustainability Ideas with Mannheim Can Field Experiences, Dr. Irene Hess, Cheryl Mesinger, and Lauren Bell – Room 2002

SESSION C: The KIEPU Energy Initiative: A Partnership with Earth Force, Dr. Terry Wilson, Dr. Joe Texas, and others from KIEPU – Room 2001

SESSION D: Practical Approaches to Sustainability via Community Engagement, Laura Lewis and Rhonda Taylor – Room 2006

3:10 pm – 4:05 pm Concurrent Session 2


Note: This session will be transmitted live via Skype from 3rd International Conference on Climate Change, in Brazil.

SESSION B: Global Climate Change: International Collaborations Through STEM and I. Dr. TrOOth Philoasopher Menor and Dr. Lauren Henry – Room 2001

SESSION C: The Ethical Challenge of Sustainability and Institute for Citizenship and Social Responsibility (ICSR) Programs, Dr. Eric Bann Selbo – Room 2002

SESSION D: Enhancing Student Learning and Remoteness with Community Partnerships, Dr. George Kenis – Room 2005

4:10 pm – 5:05 pm Concurrent Session 3

SESSION A: ORIGINATION: continuation – Room 2002

SESSION B: Diverse Classroom and MICE Habitat Development: Growing Gardens, Patricia Sowell, Deborah Sherley, Kyra Fric, and Linda Jenkins – Room 2001

SESSION C: Effecting Change and Growing Sustainability through K-12 GMO, Christian Ryan Downey – Room 2005

SESSION D: Community University Partnerships for Environmental Safety and Sustainability, John Voss and Carol Norton – Room 2008

5:05 pm – 5:30 pm Exhibitor’s Hall and Poster Sessions – Room 2003

5:30 pm – 7:30 pm Wine & Cheese Reception / Green Building Tour* – SOCU Building Gather in lobby to board bus. Reins for SOCU at 5:30 and 8pm. Enjoy wine and cheese, a green building tour, and music from a classical trio. Buses will return at 6:45 and 7:30 pm.

*This will be held at Service One Credit Union’s LEED Platinum building

Friday, July 22

7:30 am – 8:30 am Check-in for Registrants – Room 2002

Continental Breakfast – Room 2002

8:30 am – 12:00 pm Field Trips – Gather in lobby at 8:30 pm to board buses for transportation

1) “Buildings That Teach” – Dr. Terry Wilson, SOCU Building

2) “Outstanding Learning Centers” – Tour of WKU farm, WKU Campus – “Hole in the ground” day care garden, herb gardens, and Parker Bennett Gary Elementary School/Well Pond Ot

Project Learning Tree Certification Program (for K-8) – Room 2001

*This is an award-winning environmental education program designed for lesson plans for all grades and subject areas. Facilitators: Robin Hume and Randy Poor

12:00 pm – 12:45 pm Lunch – MWTH Atrium

12:45 pm – 1:00 pm Break – Attend to GW

1:00 pm – 2:00 pm Primary Session – GM Auditorium

Introduction to speaker by Dr. Terry Wilson

Engaging the Entire Community in EFS

Dr. B.J. Rosson, Professor Emeritus at Florida Gulf Coast University

2:00 pm – 2:10 pm Break

2:10 pm – 3:05 pm Concurrent Session 4


SESSION B: Including Sustainability Ideas into an Elementary Science Methods Class, Dr. Jeanine Hatt and Tamara D’Alon – Room 2003

SESSION C: Sustainability in Business Education Concepts and Best Practices, Dr. Brian Sullivan – Room 2003


3:10 pm – 4:05 pm Concurrent Session 5

SESSION A: From Sustainability to Resilience? How Best to Communicate Great Challenges, Wolfgang Brauner – Room 2002


SESSION C: Adapting the Earth Force Model at WKU’s McChesney Field Campus, Steve Spencer – Room 2003

SESSION D: WKU Habitat for Humanity Green Community: A Model for Engagements and Partnerships, Nancy Givens and Rodney Goodman – Room 2006

4:10 pm – 4:30 pm Closing: door prizes – GM Auditorium

*See Speakers List and Program Descriptions inside.
Global Climate Change International Collaborations Through STEAM Education: Lessons Learned and Successes

This session will be broadcast from the third International Conference on Climate Change in Franca, Brazil. Sue Leher will share how the learning of sustainability across cultures will enable educators to engage students in STEAM education and sustainability into the curriculum. Participants will also learn how to structure the three partnerships and explore opportunities for educational interventions to engage communities in environmental and sustainability standards and are models of sustainability at the center.

Keynote Speakers

Dr. Rosalynn McKeown is Secretariat for the UNESCO Chair on Reorienting Teacher Education to Address Sustainability and Food Director of the Center for Geography and Information Research at the University of Nebraska. She is also the principle author for the Education for Sustainability Development Toolkit, Revised Edition (2014).

Dr. McKeown has published widely and is a frequent presenter at conferences and workshops. She will speak about the UN Decade of Education for Sustainable Development and international trends in Education for Sustainability.

Plenary Speaker Dr. Bill Hammond is a Professor Emeritus at Florida Gulf Coast University and serves as a Lead Consultant for Environmental Education for over fifty years as a teacher, faculty member, program director, and consultant. Dr. Hammond presents widely in the U.S. and internationally. He is a co-founder and nonprofit organizer. His most recent project is to work as a consultant for Babcock Ranch Community, which is being designed as the nation’s largest sustainable community plan. Dr. Hammond will speak about his work with collaborations among schools, governments, NGOs, and community groups to build sustainable communities, and will also create a Creative and Educational Workshop as an Interactive Session.

Special Events

Field Trips (choose one)

1. Biodiversity at the Donald C. Lightner Elementary School, former net zero energy school in the country; tour the WMU TV high-definition recording studio and the STEM Center; visit with the Honorable Ken Hechler; tour of WMU’s Rey Center for Business and Development. 2. Outdoor Education Center – explore sites at WMU’s campus, the WMU Farm, and Parker Bennett Elementary School. Field trip will be guided by the Dr. Beth Hechler; tour of WMU’s Outdoor Education Center led by Honorable JoAnne Reddick; Public Relations Coordinator; Women’s Center; and Dr. Trudy Cooper.

2. Outdoor Learning Center – explore sites at WMU’s campus, the WMU Farm, and Parker Bennett Elementary School. Field trip will be guided by the Dr. Beth Hechler; tour of WMU’s Outdoor Education Center led by Honorable JoAnne Reddick; Public Relations Coordinator; Women’s Center; and Dr. Trudy Cooper.

3. Wolf Pack Night at the WMU’s Pecan Grove Community Heritage Center; tour of WMU’s Pecan Grove Community Heritage Center led by Dr. Beth Hechler; tour of WMU’s Outdoor Education Center led by Honorable JoAnne Reddick; Public Relations Coordinator; Women’s Center; and Dr. Trudy Cooper.

4. Visit to the WMU’s Pecan Grove Community Heritage Center; tour of WMU’s Pecan Grove Community Heritage Center led by Dr. Beth Hechler; tour of WMU’s Outdoor Education Center led by Honorable JoAnne Reddick; Public Relations Coordinator; Women’s Center; and Dr. Trudy Cooper.

Food

A “take one, leave one” table will be set up outside with cooks and others as they will know how to prepare the food. Recycling and composting bins will be provided throughout the conference.

Exhibitors & Posters Hall

The Conference is purposefully designed to provide collaborative opportunities to look at the following at the conference: the conference facilities are built to LED standards, and will be illuminated with LED lighting. Self-sustaining and Local foods will be featured at the conference.

• Flash days will be provided to attendees with conference proceedings, vegetables, and other food.

• Hybrid lineups from WMU Parking and Transportation Services will provide.

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