



2009 WISCONSIN

## Renewable Energy Summit

Renewables, Sustainability, Energy Efficiency,  
Social Responsibility, and Green Energy Practices

# Curriculum Programs/Course Design Session #4-1

**DATE:**

**WEDNESDAY, MARCH 25, 2009**

**Breakout Session 4-1:**

**Time:**

**1:30pm - 3:15pm**

**Presenters:**

**A Model for Collaboration: CERET's Renewable Energy Technology Certificate**

Barb Anderegg, Madison Area Technical College  
Ken Walz, Madison Area Technical College

This presentation will describe Madison Area Technical College's Renewable Energy Certificate, funded through a National Science Foundation grant. The certificate includes online and face-to-face courses taught by seasoned renewable energy experts from Madison Area Technical College, Oakland Community College, Solar Energy International, and the Midwest Renewable Energy Association. The design of the certificate attracts a wide range of students, from those who are already entrepreneurs to those who want to pair it with an existing program. Two-year colleges can also use the certificate as they develop their own courses and programs as well as for faculty professional development.

**Infusing Sustainability at Northeast Wisconsin Technical College**

Amy L. Kox, Northeast Wisconsin Technical College

**Solar Power Your School with SolarWise**

Chip Bircher, Wisconsin Public Service Corp.  
Scott Liddicoat, Green Bay Public Schools

SolarWise® for Schools is a hands-on renewable energy education program for high schools served by Wisconsin Public Service. This session will summarize this successful program and provide a detailed overview of the curriculum from an experienced SolarWise teacher. You'll also learn how to apply for a free solar-electric system and renewable energy curriculum package. Since 1996, 41 schools have received this unique renewable energy education program, and 125 teachers and 12,000 students have used the curriculum materials.

**See presenter  
biographies  
next page**



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### Presenter Biography:

#### **Barb Anderegg**

Barb Anderegg is the Principal Investigator of an NSF grant, Partnerships in Educational Resources for Renewable Energy Technologies, that delivers a certificate in renewable energy technologies. She is also a faculty member at Madison Area Technical College (MATC). In August 2007, Anderegg finished a two-year rotation with the National Science Foundation where she worked in the Division of Undergraduate Education as a Co-Lead on the Advanced Technological Education Program. Ken Walz, a Co-Principal Investigator on the NSF grant, is a chemistry and engineering instructor at MATC. Walz served in the Department of Energy Academies Creating Teacher Scientists Program at the Colorado National Renewable Energy Laboratory (NREL) in the summer of 2008.

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#### **Chip Bircher**

Chip Bircher is the Renewable Energy Product Manager at Wisconsin Public Service Corporation. His responsibilities include developing and managing the utility's "green" products and services, including the SolarWise® for Schools program and the NatureWise® green energy program.

Chip has been active in the renewable energy field for 31 years. He has authored or co-authored 28 papers on solar energy and energy conservation and presented them at state and national conferences. He speaks to public groups frequently about renewable energy, making 10-15 presentations each year.