



A Collaboration of the Manufacturers Association of Central New York (MACNY) and the SUNY College of Environmental Science and Forestry (SUNY-ESF) made possible, in part, by a grant from the US Department of Labor

Certificate in

Sustainable Use of Renewable Energy (SURE)

Sustainable Use of Renewable Energy (SURE) is a certificate program offered by the Manufacturers Association of Central New York (MACNY) in cooperation with the SUNY College of Environmental Science and Forestry (SUNY-ESF). Potential participants include designers, architects, constructors, and consulting engineers who want to learn more about the current technology and business applications of renewable energy systems including photovoltaics, wind power and biomass and conversion to biofuels. This certificate program was developed through a collaborative effort between business and academia to take advantage of this region's unique expertise and resources.

Business Focus

The incorporation of renewable technologies for energy production is an emerging business and environmental opportunity for New York State and the world. This is especially true for the engineering and construction industries since forms of renewable energy are at the heart of cost-saving construction planning and cutting edge developments to reduce energy consumption on a large scale. Central New York (CNY) is rich in natural resources such as forests, agricultural products, and wind, and is home to a workforce that has the technological know-how to develop these resources into sustainable energy systems. Alternative energy producers and associated entrepreneurial activities such as developing bio-based products have the potential to greatly contribute to economic development in the CNY region.

Environment for Success

The *SURE* certificate instructors include leading industry experts throughout the region as well as recognized scholars from SUNY-ESF. The program Curriculum addresses:

State-of-Art of the Energy Source

- Fundamentals of chemical and physical processes underlying the technology
- System components
- Technical feasibility and limitations forecast for technical improvements over next 1-5 years

Current Business Practices Employing Alternative Energy Source

- Case studies showing places where technologies/systems have been deployed, particularly in NY and Northeast US
- Economic calculations: Return On Investment, Payback period
- Locations where equipment/systems may be purchased
- Challenges for business implementation

Government

- Federal, State, and Local financial incentives
- NYS Portfolio standard and NYSERDA programs

This certificate program is offered for March 2007 and may be completed within one month.

Workshop Schedule: Monroe Community College, Rochester, NY

Our tentative program agenda is provided below. Please note that information is subject to change.

Rochester, N.Y.	Topic and Instructors	Day, Date, Time
Workshop No. 1	<p>Biomass and Biofuels</p> <p>Dr. Timothy A. Volk, Senior Research Scientist, Forest & Natural Resources Management, SUNY-ESF</p> <p>Dr. Thomas Amidon, Professor, Paper Science and Engineering, SUNY-ESF</p>	<p>Friday, March 2</p> <p>8:00 am - 4:00 pm</p> <p>Monroe Community College (MCC) Empire Room Rochester, NY</p>
Workshop No. 2	<p>Photovoltaics, Wind Power, and Fuel Cells</p> <p>Dr. Gay E. Canough, President, ETM Solar Works</p> <p>Dr. Bruce H. Bailey, President, AWS Truewind, LLC</p> <p>Frank Wolak, Vice President, Fuel Cell Energy Inc.</p>	<p>Friday, March 9</p> <p>8:00 am - 5:00 pm</p> <p>Monroe Community College (MCC) Empire Room Rochester, NY</p>
Workshop No. 3	<p>Economics & Energy in Buildings</p> <p>John Vasselli, Corporate Chief of Technology for Indoor Air Quality, UTC Carrier Corporation</p> <p>Hugh Henderson, Principal, CDH Energy Corporation</p>	<p>Friday, March 16</p> <p>8:00 am - 4:00 pm</p> <p>Monroe Community College (MCC) Empire Room Rochester, NY</p>

SURE Program Costs and Related Options

Participants may

- Earn a MACNY Certificate upon completion of all three (3) workshops
- Register for one or more individual workshops
- Earn Professional Development Hours (PDHs)
- Earn Continuing Education Units (CEUs)

Option	Fee
Certificate (3 workshops)	\$250
One (1) Day Workshop	\$95

Workshops Will Apply to Re-licensing for Professional Engineers (PEs) and Architects

Attendees are expected to earn 7 Professional Development Hours (PDHs) for each workshop he/she attends for a total of 21 PDHs. Earned PDHs count toward the required New York State-mandated professional development training for engineers. Each workshop provides (0.7) CEUs for professional architects, depending upon professional licensing requirements.

Application Procedures

▪ MACNY Certificate information:

Susan Palé, Certificate Program Recruiter
315-469-1736 (phone)
sspale@pobox.com
www.reinventcny.com

▪ Program and academic advising information:

Dr. Robert W. Meyer, Professor
Construction Management and Wood Products Engineering Faculty
SUNY-ESF
1 Forestry Drive
153 Baker Hall
Syracuse, NY 13210
315-470-6880
bobmeyer@esf.edu

▪ Workshop registration:

ESF Outreach
SUNY-ESF
1 Forestry Drive
219 Bray Hall
Syracuse, NY 13210
315-470-6817 (phone)
315-470-6890 (fax)
www.esf.edu/outreach

*Participants are encouraged to register by 2/16/07.