SUNY SPARE (Solar Power As Renewable Energy) in 2010!

ESF is proud to continue its established tradition of SPARE in 2010. Our 4-day Basic Photovoltaic Installer Courses are a board-recognized training program through the North American Board of Certified Energy Practitioners (NABCEP). Our Advanced Photovoltaic courses are geared toward PV installers and engineers who have experience with photovoltaic systems and offer participants an overview of commercial PV systems in a 2-day workshop format.

Dr. Gay Canough, a NABCEP certified installer and educator, is continuing her relationship with ESF to provide quality and timely photovoltaic courses. We are excited to continue our relationship with one of our nation’s premier solar pioneers.

Dr. Canough has owned and operated ETM Solar Works for 20 years and is also treasurer of the New York Solar Energy Industries Association (NYSEIA).

We welcome Dr. Neal Abrams to SUNY SPARE starting in 2010! Dr. Abrams received his bachelor of science degree from Ithaca College in 2000. He earned his Ph.D. in 2005 from The Pennsylvania State University. He was a Postdoctoral researcher at Cornell University from 2005 – 2007 and a Lecturer from 2006 – 2007.

Dr. Abrams’s interests lie in the areas of materials and inorganic chemistry, encompassing areas of alternative energies such as energy storage, photovoltaics, and fuel cells.

Mark your calendar - 2010 Tentative dates:

**Basic Courses**
- February 8 – 11
- April 12 - 16
- May 10 - 13
- September 13 – 16

**Advanced Courses**
- June 23 - 24
- October 27 - 28

More Information
Take Courses Online!
We invite you to take a course at ESF next semester! We have many on-campus late afternoon and evening classes to fit your schedule OR try our ONLINE courses (http://www.esf.edu/esfonline/).
Whether you are a high school or college student, an educator or other working professional, or someone in transition, online courses offer extra flexibility in continuing your education and earning college credits. For the Spring semester 2010, ESF Online is offering four courses:

**EFB 120 - The Global Environment and the Evolution of Human Culture** (3 credits)
Instructor Rick Beal
http://www.esf.edu/esfonline/globalenvironment.htm
(This course also fulfills SUNY General Education credit in either Natural Science or Social Science.)

**ESC 296 - Climate Change Science and Sustainability** (1 credit)
Instructor Dave Eichorn
http://www.esf.edu/esfonline/climatechange.htm

**FOR 296 - Concepts in Watershed Hydrology** (1 credit)
Instructors Peter Black and Ginny Williams
http://www.esf.edu/esfonline/hydrology.htm
(This is a 7 week course offered twice a semester.)

**2010 Kiln Drying Workshop**
Led by Dr. Bill Smith, Director of Wood Utilization Service and Professor in Construction Management and Wood Products Engineering (ESF), this course will provide practical knowledge about how wood is effectively kiln dried, and scientific background on related wood properties and drying processes. It will have value for novice as well as experienced kiln operators, and sales, purchasing, marketing and manufacturing managers. Instruction, by university professors and various industry experts, will be in the classroom and through hands-on lab exercises using our modern kiln.
Information and Registration
We’re All “Green” When We Have a New Idea
A SAGE (Sustainability and Green Entrepreneurship) workshop for high school students to generate an idea to submit to the MDA Business Idea Competition. Join us for an afternoon and spend some time with Marcie Sonnenborn from CNY Technology Development and go through some activities to help expand and develop your business idea for submission to the MDA Business Idea Competition.

Don't miss out on this unique opportunity to explore new ways of thinking and to go through a process of generating an idea that could win! The workshop will be held on Sunday, December 13th from 2:30 – 5:30pm at the Rosamond Gifford Zoo in Syracuse. The event is free but space is limited. Pre-registration is required.

Information and Registration

SUNY-ESF Outreach Calendar – What’s happening December 2009 – January 2010
Wednesday, December 9, 2009
- **Principles of Engineering (PE-CIV) Review Classes**
  6:00 pm - 8:00 pm. ARCADIS (formerly Blasland, Bouck and Lee (BBL)), 6723 Towpath Road, Syracuse, NY 13214. Let us help you prepare for the Principles of Engineering exam. You can do it - we can help. PE-CIV classes begin on December 9, 2009.
  **Sponsor:** SUNY-ESF | **Contact:** Maureen Wakefield, 315-470-6888 | **Website:** [http://www.esf.edu/outreach/pd/2009/pe/](http://www.esf.edu/outreach/pd/2009/pe/)

Sunday, December 13, 2009
- **SAGE: Sustainability and Green Entrepreneurship Workshop**
  2:30 pm - 5:30 pm. Rosamond Gifford Zoo, One Conservation Pl., Syracuse, NY 13204. Join us for an afternoon and spend some time with Marcie Sonnenborn from CNY Technology Development and go through some activities to help expand and develop your business idea for submission to the MDA Business Idea Competition.
  **Sponsor:** ESF Outreach | **Contact:** Maura Stefl, 470-6889 | **Website:** [http://www.esf.edu/outreach/sage/](http://www.esf.edu/outreach/sage/)

Monday, January 11, 2010
- **Kiln Drying Workshop**
  139 Baker Lab, SUNY ESF campus, 1 Forestry Drive, Syracuse, NY 13210. This course will provide practical knowledge about how wood is effectively kiln dried, and scientific background on related wood properties and drying processes. It will have value for novice as well as experienced kiln operators, and sales, purchasing, marketing and manufacturing managers. Instruction, by university professors and various industry experts, will be in the classroom and through hands-on lab exercises using our modern kiln.
  **Sponsor:** SUNY ESF | **Contact:** Maureen Wakefield, 315-470-6888 | **Website:** [http://www.esf.edu/outreach/kiln/](http://www.esf.edu/outreach/kiln/)
  Ongoing through Wednesday, January 14, 2009

For a complete listing of SUNY-ESF Outreach events, please visit our calendar at [http://www.esf.edu/outreach/calendar.asp](http://www.esf.edu/outreach/calendar.asp)

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