ESF Outreach E-News
September 2013

A regular update on ESF’s outreach programs, projects, partnerships and people.

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Upcoming Programs- Register Now!

Radiation Curing Program

SUNY-ESF, along with RadTech International North America, the Manufacturers Association of Central New York (MACNY) and other partners is proud to announce a new Radiation Curing Program (RCP) comprised of three online courses and an Advanced Certificate.

Students matriculated at other colleges may use these courses as professionally-oriented upper-level electives focused on a specialized interdisciplinary application of chemistry, physics and engineering. Participating students will pursue coursework alongside practicing professionals. Students from other campuses may register on a visiting (non-matriculated) basis during the 2013-2014 academic year or 2014 Summer Session.

Practicing professionals and others seeking professional preparation or development will appreciate this convenient and affordable approach. Participants may pursue one or more “500” level course on a non-credit or credit basis.

Want to learn more about Radiation or Energy Curing? Learn more here.

10th International Phytotechnologies Conference
October 1 - 4, 2013 / Holiday Inn Liverpool, Syracuse, NY

ESF and Central New York are proud to welcome the 10th International Phytotechnologies Conference at the Holiday Inn in Liverpool. Led by Dr. Lee Newman, this conference brings scientists, consultants, designers, engineers, builders, regulators, and site owners together to explore how phytotechnologies are addressing current and emerging environmental challenges. A reception and a Practicing Phytotechnology workshop approved for 6 Professional Development Hours (PDHs) for New York State licensed engineers will be held at SUNY-ESF’s new Gateway Center. For details, visit http://www.esf.edu/outreach/pd/2013/phytotechnology/.

Online Certified Production Technician (CPT) training
Preparing individuals to succeed in Advanced Manufacturing

This is as convenient and affordable as it gets (thanks to a grant received by ESF and MACNY to support advanced manufacturing in CNY). Created by the Manufacturing Skill Standards Council and accredited by ANSI, CPT recognizes mastery of the core manufacturing production competencies at the front-line (entry-level through front-line supervisor).

Fall schedule / Open to the public
• Safety (October 7-18, 2013)
• Quality Practices & Measurement (October 21-November 1, 2013)
• Manufacturing Process & Production (November 4-15, 2013)
• Maintenance Awareness (November 18-December 6, 2013)
• Green Production (December 9-13, 2013) this module is introduced this fall at no additional registration cost.

Cost for all five modules is **$354** and includes registration, online access, all course materials, group and individual consultation, and module assessments. A web search will indicate that comparable programs cost upwards of $2,000!  Register now:  www.esf.edu/outreach/cpt/#Registration

For in-house, alternate scheduling options, and individual module pricing contact Howie Hollander or Sean Nicholson / 315.470.6817 / www.esf.edu/outreach/cpt

**SUNY SPARE (Solar Power as Renewable Energy)**
*Basic SPARE; September 23-26, 2013; Commercial SPARE; November 14, 2013*

Our **4-day Basic Photovoltaic Installer Course** is board-recognized by the North American Board of Certified Energy Practitioners (NABCEP). Participants learn the basics of site, design, and installation of photovoltaic (PV) systems, sizing systems for both grid-connected and off-grid PV systems, solar resources and problems associated with shading, orientation and tilt and more. The 4-day course is approved for 21 PDHs (Professional Development Hours) for engineers and 28 hours of classroom instruction. Coupled with a passing score on the NABCEP Entry Level Exam, this results in 18 hours of "prescribed hours" applicable toward certification.

**Commercial SPARE** addresses issues associated with larger commercial PV installations that typically have three-phase electrical systems. Weight and wind loading play a major part in the design of large commercial installations, as most commercial buildings have expansive, flat roofs. You will address issues for large, ground-mounted systems and review interconnection issues such as the necessary size of the local service, when a new transformer would be needed, when an entire substation would be needed and when the local utility might need the plant to provide reactive power (VAR support). Course and registration information at:  www.esf.edu/outreach/spare.

**FE/PE Exam review classes begin this October!**
*October 2013 – March 2014 / C & S Companies and ARCADIS, Syracuse, NY*

Engineers can prepare for the spring exam by taking Fundamentals of Engineering (FE) and Principles of Engineering (PE) review classes hosted by SUNY-ESF. Registration is available at http://www.esf.edu/outreach/pd/pe/

**Registration for Fall and full-year ESF in the High School courses is currently underway!**
For more information and registration procedures, visit ESF in the High School’s webpage.

**Save the Date**

**American Chestnut Foundation NYS Chapter Annual Meeting**
*October 10 – 12, 2013 / Gateway Center / http://www.esf.edu/outreach/chestnut/.*

**ESF in the High School Fall Teacher Professional Development Symposium**
*November 13, 2013 / 110 Moon Library*  
Contact Rick Beal (rebeal@esf.edu) for more information

**Kiln Drying Workshop**  
*January 6 - 9, 2014 / http://www.esf.edu/outreach/kiln/*

**Items of Interest to Outreach Friends and Colleagues**
SUNY, NY Academy of Sciences Expand Afterschool STEM Mentoring Program
New locations in Long Island and Central NY will serve more students

President Obama’s recent visit to Syracuse to promote his middle-class economic agenda, with a focus on its education components, underscores the timeliness and relevance of SUNY-ESF’s recent State University of New York (SUNY)/New York Academy of Sciences STEM Mentoring Initiative to Strengthen the Education Pipeline grant. ESF has a long-standing partnership with the Syracuse City School District (SCSD). As a result, we are enthused that this grant will enable us to build upon this established successful partnership with the SCSD to adopt, conduct, and institutionalize a structured after school mentoring program. This concerted State-wide effort will substantially strengthen middle school students’ STEM knowledge and engagement, and the professional development of ESF graduate students and postdoctoral fellows. Our service-research mentoring program reflects ESF’s STEM-focused mission and our vision of A Better World through Environmental Discovery. Participating mentors will become part of the ESF Science Corps and will bring STEM content and research expertise, passion, and excitement to learning activities for SCSD’s 21st Century after school programs for middle school students.

“The Afterschool STEM Mentoring Program is an elegant solution to two complex problems,” says Ellis Rubinstein, President and CEO of the New York Academy of Sciences. “First, it engages students from low-resource settings in STEM subjects; second, it provides STEM graduate students and post-docs with opportunities to hone their communication and teaching skills. The Academy is thrilled to work with SUNY which provides a large pool of outstanding mentors and robustly supports those mentors on an institutional level,” Rubinstein adds. “We are excited about the enormous potential impact of this collaboration all across the State.”

ESF graduate students may contact Brandon Murphy (315-427-5317) with interest and questions.

Congratulations to Dr. Thomas Amidon!
Dr. Amidon was awarded the SUNY College of Environmental Science and Forestry’s (ESF) Exemplary Researcher Award. This honor was awarded based on Dr. Amidon’s extraordinary level of activity in biorefinery research, exemplary leadership in the SUNY Bioprocessing Advanced Certificate program, and his dedication to teaching. See the full ESF news article here.

For complete calendar of Outreach events visit: www.esf.edu/outreach/calendar.asp
Learn more about these and other ESF Outreach activities at: www.esf.edu/outreach/