

ESF Outreach E-News

October 2013

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



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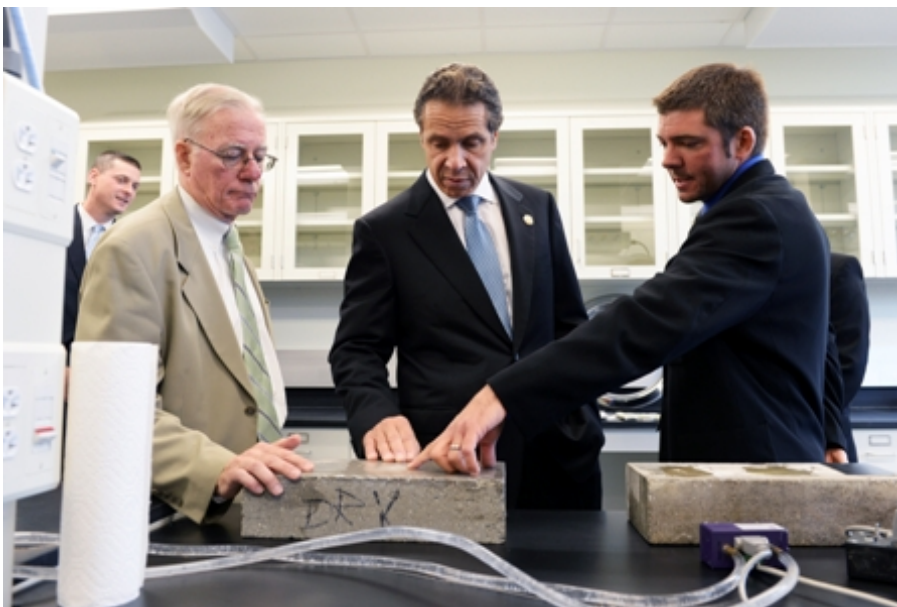


Photo (L-R): Robert M. Simpson, President & Chief Executive Officer, CenterState CEO; Dr. Cornelius B. Murphy, Jr., President, SUNY-ESF; NYS Governor Andrew M. Cuomo; and Dan Montoney, Chief Technology Officer / Owner, Rapid Cure Technologies, demonstrating a UV coating system startup.

SUNY-ESF launches new program to serve business and advanced manufacturing

The State University of New York College of Environmental Science and Forestry (SUNY-ESF), along with RadTech International North America, and other collaborators has launched a new program in radiation or energy curing, the [Radiation Curing Program](#) (RCP). Supported in part by a U.S.

Department of Labor, Employment and Training Administration H-1B Technical Skills Training Grant, the program is comprised of three online courses and an Advanced Certificate.

RCP prepares upper-level undergraduate and graduate students (along with practicing professionals) in the science and technology of energy curing such as ultraviolet (UV) or electron beam (EB) processing.

UV and EB curing refers to a special way in which coatings, inks, adhesives, composites and other materials may be cured as an alternative to traditional energy-intensive methods that create harmful emissions. In short, these processes entail using ultraviolet energy from a UV lamp and the focused electrons in EB to instantly cure/crosslink specially formulated chemistries, using less energy and at lower cost than conventional/incumbent methods.

Energy cured applications are part of your everyday experiences ranging from your morning cereal box, to your CD or DVD, magazine, credit card, cell phone, contact lenses, keyboard, driving your car, or just walking on your floor. The advantages of UV & EB are well-documented--particularly when used with manufactured products that require fast processing and/or on substrates that are sensitive to heat. In addition, UV & EB are considered environmentally responsible since most or all of the solvents in traditional processes can be eliminated, due to the special capabilities of UV & EB curing.

The RCP program was developed by a team of academic and experienced energy-curing practitioners to reflect current and emerging industry-relevant content and applications. 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. Students from other colleges may register on a visiting (non-matriculated) basis during the academic year or Summer Session. Participants may

- Pursue one or more "500" level courses on a non-credit or credit basis.
- Apply and earn an Advanced Certificate in Radiation Curing by meeting application requirements and successfully completing all three courses for credit (participants may register and work on one or more courses at a time)

Spring 2014 Schedule

- Introduction to Polymer Coatings /February 3, 2014 - April 18, 2014 / Online
- Radiation Curing of Polymer Technologies / February 17, 2014 - May 2, 2014 / Online
- Radiation Curing Equipment, Instrumentation and Safety / February 17 , 2014 - April 18, 2014 / Online

Complete information is available at www.esf.edu/outreach/radcuring or contact

SUNY-ESF STEM Mentoring Initiative

SUNY-ESF was recently awarded a *State University of New York (SUNY)/New York Academy of Sciences STEM Mentoring Initiative to Strengthen the Education Pipeline* grant. Through this project, ESF will adapt and institutionalize a structured afterschool mentoring program for Syracuse City School District (SCSD) middle school students. As part of a concerted State-wide effort, this initiative 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. Participating mentors will become part of the *ESF Science Corps* and will bring STEM content and research expertise and passion to

learning activities for middle school for students through the SCSD 21st Century Community Learning Center (CCLC) afterschool programs.

ESF graduate students and postdocs are invited to contact Brandon Murphy, Project Coordinator, at 315.470.6817 or bmurphy@esf.edu and to visit the project web page at www.esf.edu/outreach/STEMMentor

SUNY and the New York Academy of Sciences are able to expand their Afterschool STEM Mentoring Program with funding from the National Science Foundation (NSF). "The STEM Afterschool Mentoring Program is off to a promising start, with nearly 300 middle schoolers already having received mentoring from SUNY students," says SUNY Chancellor Nancy Zimpher, who also chairs the Academy's Board of Governors. "We are proud to expand this program to Long Island and Central New York, where more of today's youth will benefit from increased exposure to these critical disciplines and SUNY students will gain valuable experience in their field."

"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."

Upcoming Programs- Register Now!

13th Annual SyracuseCoE Symposium: Urban Reinvention and Resilience

Monday, October 21, 2013 - Tuesday, October 22, 2013

<http://www.syracusecoe.org/coe/sub1.html?skuvar=254>

Student On-campus Visit for ESF in the High School

Tuesday, October 22, 2013

<http://www.esf.edu/calendar/event.asp?EventId=1594>

Student Campus Visit for ESF in the High School

Thursday, October 24, 2013

<http://www.esf.edu/calendar/event.asp?EventId=4186>

Student campus visit for ESF in the High School

Tuesday, October 29, 2013

<http://www.esf.edu/calendar/event.asp?EventId=1978>

Certified Professional Constructor Examination

Saturday, November 2, 2013

Contact [Kenneth J. Tiss \(kitiss@esf.edu\)](mailto:kitiss@esf.edu) for more information.

ESF 2013 Twilight Review

Monday, November 4, 2013

<http://www.esf.edu/calendar/event.asp?EventId=6914>

TEC Tuesday at Fulton Companies

Tuesday, November 5, 2013

<http://amtec.syracusecoe.org/upcoming-events.html>

Fall ESF in the High School Teacher Professional Development Symposium

Wednesday, November 13, 2013

<http://www.esf.edu/outreach/esfhs/>

Commercial SPARE PV Installation Training

Thursday; November 14, 2013

www.esf.edu/outreach/spare

CPT Green Production Module Orientation: Webinar

Monday, November 18, 2013

<http://www.esf.edu/outreach/cpt/>

TEC Tuesday at O'Brien & Gere

Tuesday, December 3, 2013

<http://amtec.syracusecoe.org/upcoming-events.html>

Save the Date

FE/PE Exam review classes begin this October!

December 2013 – March 2014 / C & S Companies and ARCADIS, Syracuse, NY

<http://www.esf.edu/outreach/pd/pe/>

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Contact [Rick Beal \(rebeal@esf.edu\)](mailto:rebeal@esf.edu) for more information.

Kiln Drying Workshop

January 6th-9th, 2014

<http://www.esf.edu/outreach/kiln/>

12th Annual New York State Green Building Conference

March 27th-28th, 2014

<http://www.esf.edu/greenbuilding/>.

2014 Northeastern Recreation Research Symposium

April 6th-8th, 2014

<http://www.esf.edu/nerr/>.

2014 Biotechnology Symposium

May 15th-16th, 2014

<http://www.esf.edu/outreach/pd/2014/biotechnology/>.

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/