



# The Chemical Record

Volume 53, Number 2 – March, 2011  
Columbus Section of the American Chemical Society, Inc.  
Karen Irving, Section Chair [irving.8@osu.edu](mailto:irving.8@osu.edu)  
George Greene, Editor [george.greene@abbott.com](mailto:george.greene@abbott.com)  
<http://columbus.sites.acs.org>

## IN THIS ISSUE...

MEETING NOTICE .....	1
PROGRAM DETAILS .....	2
ABOUT THE SPEAKER: KEVIN LAMBRYCH.....	2
ABOUT THE TOPIC: <i>THERMOSET MATERIALS IN WIND TURBINE BLADE COMPOSITES</i> .....	3
URGENT LETTER FROM ACS PUBLIC AFFAIRS OFFICE: SUPPORT SCIENCE FOR FY 2011 .....	3
A NEW PROGRAM TO ENCOURAGE STEM EDUCATION: THE WOODROW WILSON OHIO TEACHING FELLOWSHIP PROGRAM.....	4
CONSIDERING A CAREER IN HIGH SCHOOL CHEMISTRY TEACHING? .....	4
2011 COLUMBUS SECTION EXECUTIVE COMMITTEE AND COMMITTEE CHAIRS .....	5
ACS ANNOUNCES THE 2011 SCHEDULE FOR WEBCAST COURSES .....	5
COLUMBUS SECTION ACS CALENDAR OF EVENTS .....	6
PHOTOGRAPHS FROM FEBRUARY, 2011 SECTION MEETING .....	7
ABOUT <i>THE CHEMICAL RECORD</i> .....	8
CHANGE OF ADDRESS .....	8
ADVERTISING RATES .....	8
SECTION E-MAIL ROUTING .....	8
PLEASE SUPPORT OUR SPONSOR... ..	8



## MEETING NOTICE

Columbus Section of the American Chemical  
Society, Inc.

<http://columbus.sites.acs.org>

*Thermoset Materials in Wind Turbine  
Blade Composites*

## KEVIN LAMBRYCH


Global Wind Energy Program Manager  
Ashland Performance Materials

**Wednesday, March 16, 2011**

4:30-6:15 Technical Tours  
45 minute tours - 1st group to begin at 4:45  
2nd group to begin at 5:15

Ashland Performance Materials  
5200 Blazer Parkway  
Dublin, OH 43017

### PROGRAM DETAILS

<b>4:30-6:00PM</b>	Arrival for those planning to attend the executive board meeting Main entrance – DA-2 (building 2)
<b>4:45-5:30 PM</b>	<b>Tour#1 for those attending the Executive Board Meeting</b>
<b>5:30-6:15 PM</b>	<b>Executive Board Meeting</b> (conference Room 1G, Building #2)
<b>5:15-6:00 PM</b>	<b>Tour #2 for those attending the meeting but not attending the Executive Board meeting</b>
<b>6:00-6:45 PM</b>	<b>Social Hour (cafeteria)</b>
<b>6:45-7:30 PM</b> <b>Dinner</b>	<b>Buffet Dinner</b> including salad, honey Dijon Chicken, twice baked potatoes, vegetable lasagna, rolls, vegetable medley, assorted desserts, soft drinks, coffee, and tea
<b>7:30 PM</b>	<b>Introductory Remarks</b> Dr. Fred Good (VP of Global Technology) (Auditorium)
<b>7:45-8:45 PM</b>	<b>Kevin Lambrych</b> <i>Thermoset Materials in Wind Turbine Blade Composites</i> (Auditorium)
<b>Cost</b>	\$25 per person members and non-members, \$20 for retired and unemployed members, \$10 per student. Payment will be collected at the door; cash and checks accepted. <b><i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</i></b>
<b>RSVP</b>	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow the template for reservations*. Alternatively, please send e-mail with the same information to The Columbus Section at the following e-mail address: <a href="mailto:acscols@earthlink.net">acscols@earthlink.net</a> or use the Meeting Reservation form on the web site <a href="http://columbus.sites.acs.org">http://columbus.sites.acs.org</a> .
<b>*Voicemail/e-mail Reservations Template</b>	<ul style="list-style-type: none"> <li>• First and last name: Please spell last name.</li> <li>• Membership category: member, high school teacher, non-member, retired, emeritus, unemployed, student, other.</li> <li>• Employer</li> <li>• Your phone number, in case we need to contact you.</li> </ul>
<b>Reservation Deadline</b>	<b>Thursday, March 10, 2011 at noon.</b>
<b>Program Contact</b>	<b>Karen Irving</b> , 614-292-1229; <a href="mailto:irving.8@osu.edu">irving.8@osu.edu</a>
<b>Directions &amp; Parking</b>	Ashland Performance Materials 5200 Blazer Parkway Dublin, OH 43017
	<p style="text-align: center;"><b>ABOUT THE SPEAKER: KEVIN LAMBRYCH</b></p> <p>Since 2002, Kevin has worked in the Global Wind vertical market at Ashland Performance Materials. Now stationed in Dublin, Ohio as the Global Wind Energy Program Manager, he previously served as Laboratory Leader in Sauveterre, France. Kevin holds a bachelor's degree in chemistry from the State University of New York (SUNY) Environmental College of Science and Forestry, as well as a master's degree in polymer chemistry. Market areas Kevin has previously supported are anti-corrosion, alternate reinforcements (non-glass) for composites, vacuum infusion and resin transfer molding, underground fuel storage tanks, and high performance infrastructure applications.</p>

**ABOUT THE TOPIC: *THERMOSET MATERIALS IN WIND TURBINE BLADE COMPOSITES***

Today's utility-scale (MW class) wind turbine blades are made from a variety of reinforcements, thermoset resins, adhesives and coatings. All of these materials must work well together for required blade performance, safety and longevity. As the wind market matures, more is known about factors that lead to successful blade design. This opens the door for leveraging technologies that optimize performance while lowering costs to the fabricator and OEM. This presentation will focus on:

- Types of materials used to make utility-scale wind turbines today.
- The importance of building effective partnerships for product development.
- How material selection can reduce blade production cycle times.
- How production costs can be reduced without compromising blade integrity.
- Case history experience from today's blade manufacturers.
- How green technologies can be leveraged to make Wind Energy greener.

**URGENT LETTER FROM ACS PUBLIC AFFAIRS OFFICE: SUPPORT SCIENCE FOR FY 2011**  
*Submitted by Manny Luttinger*

Dear ACS Member:

Please write to your [federal legislators](#) urging them not to make significant cuts to federal agencies that support basic research and science education when considering the FY 2011 Continuing Resolution that is now pending before Congress.

Last year ACS supported the administration's requests for science and technology programs and research. Due to multiple factors, the FY 2011 budget was not passed while Congress was in session last year. In an effort to prevent a government shutdown, lawmakers adopted a concurrent resolution to continue funding for 2011. This resolution is set to expire in three weeks, and legislators have announced that they will draft another resolution to fund the federal government for the seven months remaining in the fiscal year. This new bill has proposed significant cuts totaling \$100 billion from President Obama's FY 2011 budget request.

Details as to which programs would be cut are still being decided. The early list of cuts includes a possible \$1.1 billion reduction in the Department of Energy's Office of Science, \$1 billion from the National Institutes of Health and \$186 million from the National Institute of Standards and Technology, according to reports released by lawmakers and the House Leadership. House appropriators are also aiming for \$139 million in cuts from the National Science Foundation.

All of these reductions would be made against Obama's FY 2011 budget request, which means that several of the initiatives that ACS supported in the past would be cut.

It is therefore vital that ACS membership engage their legislators in Congress in an effort to avoid significant and disruptive cuts to basic scientific research and science education. Your letters can help ensure that the new bill includes predictable and sustained support for science, technology, and innovation in a year when the budget will be exceptionally tight.

We also ask you to specifically tailor and mention any connection you may have to some of these programs to emphasize that constituents and Americans across the country will be affected by their removal. [Click here](#) to send your letter today!

Thank you for your help.

Sincerely,  
Kathryn Verona/American Chemical Society Office of Public Affairs

**A NEW PROGRAM TO ENCOURAGE STEM EDUCATION: THE WOODROW WILSON OHIO TEACHING FELLOWSHIP PROGRAM**  
*Contributed by Karen Irving*

A prestigious new Ohio fellowship program seeks to recruit and prepare accomplished professionals and students as teachers in the STEM fields of science, technology, engineering, and mathematics.

Applications are now available online ([www.wvteachingfellowship.org](http://www.wvteachingfellowship.org)) for the Woodrow Wilson Ohio Teaching Fellowship program, which was created to prepare more STEM teachers and place them in some of Ohio's most-challenged public schools. Fellowships are open to high-achievers who have bachelor's degrees in math or science, including those who already work in a STEM field and want to try their hand at teaching. Fellows receive a \$30,000 forgivable loan and a \$12,500 tuition scholarship. They complete an intensive, one-year school-based master's degree in education and then agree to work in a high-need Ohio school district for three years.

The Ohio State University is one of four universities chosen to participate in the Fellowship program. Others include John Carroll University in Cleveland and the Universities of Akron and Cincinnati. Each institution will train 20 Fellows.

Fellows graduating from Ohio State's Fellowship program will take their expertise to the Columbus City Schools and other high-need school districts in the hopes of inspiring urban and low-income students to take a science- or mathematics-based career path. For more information on Ohio State's program, see <http://oaa.osu.edu/Woodrow-Wilson-Ohio-Teaching-Fellowship.php>.

Those chosen for Ohio's first class of Fellows will begin their master's programs in summer 2011.

The Woodrow Wilson Teaching Fellowship was introduced in Indiana in 2007. This year, six universities in Michigan will also participate in the program along with the four in Ohio. President Barack Obama heralded the expansion of the Woodrow Wilson Teaching Fellowships as part of his *Education to Innovate* campaign.

The Ohio program is supported through Choose Ohio First scholarship funds, the state's premier model for recruiting and retaining talented Ohio residents in STEM and STEM-education fields. It is also supported by six Ohio foundations and the participating universities, which have pledged funds that match the support from the Woodrow Wilson National Fellowship Foundation of Princeton, New Jersey.

Founded in 1945, the Woodrow Wilson National Fellowship Foundation ([www.woodrow.org](http://www.woodrow.org)) identifies and develops leaders and institutions to address the critical challenges in education. It supports its Fellows as the next generation of leaders shaping American institutions and also supports innovation in their institutions.

For information about participating in the Fellowship program, email [wwwteachingfellowship@woodrow.org](mailto:wwwteachingfellowship@woodrow.org) or telephone 609-452-7007, ext 141.

**CONSIDERING A CAREER IN HIGH SCHOOL CHEMISTRY TEACHING?**  
*From the ACS Website*

The American Chemical Society (ACS) can help you pursue your dream of becoming a high school chemistry teacher with the ACS-Hach Second Career Teach Scholarship. The ACS-Hach Second Career Teach Scholarship is awarded to professionals with work experience in chemistry-related fields. Scholarship recipients receive up to \$6,000 for full-time study and up to \$3,000 for part-time annually. Applications are due on April 1, 2011. Learn more about this exciting scholarship program at [www.acs.org/hach](http://www.acs.org/hach).

**2011 COLUMBUS SECTION EXECUTIVE COMMITTEE AND COMMITTEE CHAIRS**  
*From the Section Website*

Chair*	<b>Karen Irving</b>	Communications:	
Chair-Elect*	<b>Natalie Chilicki</b>	Coordinator	<b>Maria Rosenthal</b>
Immediate Past Chair*	<b>Steven Rosenthal</b>	Editor, <i>The Chemical Record</i>	<b>George Greene</b>
Secretary*	<b>David Speth</b>	Electronic Communications	<b>Robert Bird</b>
Treasurer*	<b>Michelle Schott</b>	Reservations	<b>Maria Rosenthal</b>
Treasurer-Elect*	<b>Robert Kroshefsky</b>	Webmaster	<b>Priscilla Ratliff</b>
Councilors*	<b>Theresa Huston</b>	Web Features	<b>Marlin Linger</b>
	<b>Virginia Songstad</b>	High School Chemistry Teachers Group	<b>Jeff Bracken</b>
	<b>Jeff Trent</b>	Hospitality	<b>Gordon Renkes</b>
<b>Ed King</b>			
Alternate Councilors*	<b>Geoff Babbitt</b>	Kids and Chemistry	<b>Jeff Trent</b>
	<b>Donald Songstad</b>	Mentoring/Minority Affairs	<b>Open Position</b>
ACS Communications	<b>Maria Rosenthal</b>	Membership	<b>David Speth (Temporary)</b>
Archives	<b>Steven Rosenthal</b>	National Chemistry Week	<b>John Blaha</b>
Auditor	<b>Art Beach</b>	Nominations	<b>Ron Mitchum</b>
Bylaws and Statutory Agent	<b>Steven Rosenthal</b>	Patterson-Crane Award	<b>Edward W. Badger</b>
			<b>Theresa A. Huston</b>
			<b>Steven Rosenthal</b>
Chemistry Olympiad	<b>Cynthia Hummel</b>	Project SEED	<b>Open Position</b>
Columbus Section Award	<b>Lewis Hogarth</b>	Silver Circle	<b>Tom Weeks</b>
Education	<b>Open Position</b>	State and Local Government Affairs	<b>Manfred Luttinger</b>
		State Science Day Coordinator	<b>Lisa Delp</b>
Fifty-Year Member Coordinator	<b>Wendy Reichenbach</b>	Tellers Committee	<b>Norman Rearick</b>
Finance	<b>Fred Costaschuk</b>	Younger Chemists Committee Chair	<b>Rosemary Loza</b>

\*The Executive Committee comprises the Chair, Chair-Elect, Immediate Past Chair, Secretary, Treasurer, Treasurer-Elect, Councilors (3), and Alternate Councilors (3). A quorum, required in order to transact business, constitutes seven of the committee members.


**ACS ANNOUNCES THE 2011 SCHEDULE FOR WEBCAST COURSES**  
*From the ACS Website*

The 2011 schedule for ACS Webcasts is out – and more courses have been added to the On Demand catalogue in addition to more dates for Webcast courses to fit your schedule. Please visit [www.ProEd.acs.org](http://www.ProEd.acs.org) for the full listing of courses and dates.

ACS Office of Professional Education has dramatically revamped its website and registration system so you can find the courses you're looking for in no time. **Bookmark this link today:** [www.ProEd.acs.org](http://www.ProEd.acs.org). You can now search short courses, webcast courses and on-demand courses by topic area, date, or location and even browse a full instructor list.

The Office of Professional Education is continuously investing in new course development, so if you don't see what you're looking for or have questions about a course, please contact us at [shortcourses@acs.org](mailto:shortcourses@acs.org) and we'll do our best to serve your technical training needs

**COLUMBUS SECTION ACS CALENDAR OF EVENTS**

Year	Month	Date	Day	Location	Comments
2011	Jan-Dec				 International Year of <b>CHEMISTRY</b> <b>2011</b> <i>International Year of Chemistry. See details in the March, 2009 issue of <i>The Chemical Record</i>.</i>
<b>2011</b>	<b>March</b>	<b>10</b>	<b>Thu</b>		<b>Deadline for reservations for March Section Meeting.</b>
2011	March	13-18	Sun-Fri	Atlanta	 Pittcon 2011, the world's largest annual conference and exposition for laboratory science.
2011	March	16	Wed	Ashland Performance Materials, Dublin, OH	Monthly Section Meeting: <i>Thermoset Materials in Wind Turbine Blade Composites</i> . See details elsewhere in this issue of <i>The Chemical Record</i> .
2011	March	27-31	Sun-Thu	Anaheim	241 <sup>st</sup> ACS National Meeting and Exposition
2011	April	22	Fri	Here, There, Everywhere!	 <i>Chemists Celebrate Earth Day. Stay tuned for information on Columbus Section activities and volunteer opportunities!</i>
2011	May	3-5	Tu-Thu	Pennsylvania Convention Center, Philadelphia	<i>Chemspec USA, The Fine and Specialty Chemicals Connection</i> . See details at <a href="http://www.chemspecevents.com/usa/symposium">http://www.chemspecevents.com/usa/symposium</a> .
2011	May	7	Sat	OSU French Fieldhouse	 State Science Day. Volunteers are needed to serve as judges. Contact <b>Bob Kroshefsky</b> , <a href="mailto:bobkro@embarqmail.com">bobkro@embarqmail.com</a> .
2011	June	8-10	Wed-Fri	Indianapolis	 42 <sup>nd</sup> Annual Meeting of the Central Region of the American Chemical Society. See details at <a href="http://cerm.regional.sites.acs.org/">http://cerm.regional.sites.acs.org/</a> .
2011	Aug-Sept	8/28-9/1	Sun-Thu	Denver	242 <sup>nd</sup> ACS National Meeting and Exposition
2011	October	16-22	Sun-Sat		 National Chemistry Week. Stay tuned for information on Columbus Section activities and volunteer opportunities!
2012	March	25-29	Sun-Thu	San Diego	243 <sup>rd</sup> ACS National Meeting and Exposition
2012	August	19-23	Sun-Thu	Philadelphia	244 <sup>th</sup> ACS National Meeting and Exposition

PHOTOGRAPHS FROM FEBRUARY, 2011 SECTION MEETING  
*By Steve and Maria Rosenthal*



**Beth Eddy**, High School Chemistry Teacher of the Year



**Karen Irving**, 2011 Chair, presents a certificate from ACS to **Steven Rosenthal**, Immediate Past Chair, in recognition of his service as Chair.



**Larry Krissik**, Speaker



Meeting attendees engage in some networking prior to the presentation.

### ABOUT *THE CHEMICAL RECORD*

*The Chemical Record*, official newsletter of the Columbus Section of the American Chemical Society, Inc., is published monthly, February-May and September-December (eight issues per year.) Opinions expressed by editors or contributors do not necessarily represent the official position of the Columbus Section or of the editorial staff. We welcome your contributions to your *Chemical Record*. Please submit them via postal or electronic mail to **George Greene**, PO Box 360941, Columbus, Ohio 43236-0941, [george.greene@abbott.com](mailto:george.greene@abbott.com). Electronic mail contributions should be in MS Word file attachments (preferred) or plain-text messages. When preparing electronic documents, please remember that you are no longer using the old Remington typewriter so you do not need to add a carriage return at the end of each line. *Thank you very much!*

### CHANGE OF ADDRESS

Changes in postal or e-mail address should be reported to the Membership Chair, **David Speth**, 614-688-5162, [drspeth@sbcglobal.net](mailto:drspeth@sbcglobal.net). David will forward the change-of-address information to ACS Headquarters.

### ADVERTISING RATES

Advertising rates for *The Chemical Record* are as follows (per single insertion): Full Page, \$250; Half page, \$150; Quarter Page, \$120; Eighth Page: \$60; Business Card, \$50. Discounts: 5% for four insertions or 10% for eight insertions during a calendar year. There is no charge for "help wanted" ads.

### SECTION E-MAIL ROUTING

Please send items for distribution to the Section e-mail list to **Maria Rosenthal** ([mrosentha@cas.org](mailto:mrosentha@cas.org)). Maria will perform any necessary formatting then she will forward the message to **Robert Bird**, Electronic Communications Coordinator, for distribution. If you would like to be added to the e-mail distribution list, please contact Robert Bird ([rbird@cas.org](mailto:rbird@cas.org)).

### PLEASE SUPPORT OUR SPONSOR...

*The Chemical Record* is brought to you in living color by the Columbus Section of the American Chemical Society and our fine sponsor, **Hogarth Chemical Consulting**:



**HOGARTH  
CHEMICAL  
CONSULTING**

**SPECIALIZING IN:**  
Training  
Research & Development  
Laboratory Design & Safety

Lewis Hogarth, Ph.D.  
**614.268.8534**  
**Fax 603.308.8133**  
email: [westwood@infinet.com](mailto:westwood@infinet.com)

**HOGARTH  
CHEMICAL  
CONSULTING**

**SPECIALIZING IN:**

Training  
Research & Development  
Laboratory Design & Safety

Lewis Hogarth, Ph.D.

Voice 614.268.8534  
FAX 603.308.8133  
email: [westwood@infinet.com](mailto:westwood@infinet.com)