

# the Catalyst



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April 2014  
Volume 99, No. 4



**April Meeting**  
**Dr. Carsten Reinhardt**  
**President and CEO, CHF**

## HIGHLIGHTS

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## ADVANCE NOTICE

### MAY MEETING

**Thursday, May 15, 2014**

**TBA**

See the MAY issue of *the Catalyst* for details,  
call the Section Office at (215) 382-1589 or email [PhilaACS@aol.com](mailto:PhilaACS@aol.com).

# *the Catalyst*

ACS Philadelphia Section

Founded April 15, 1899

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## Comments From The Chair



### Dr. Steven A. Fleming

I'm composing my April *Catalyst* Comments while attending the ACS National Meeting in Dallas. It has been a great meeting so far, and the technical sessions haven't even started yet! Those of you who attended the Philadelphia Section ACS Meeting at Ursinus on February 20<sup>th</sup> were treated to a chemical feast. Dr. Guy Crosby presented a scientist's perspective on cooking that was very satisfying. There were about 80 who attended Dr. Crosby's talk. At the Section Meeting on March 20<sup>th</sup> we had the opportunity to hear Prof. Carolyn Bertozzi present her recent research accomplishments. We had over 100 attendees for that event. She is the Edgar Fahs Smith awardee for 2014.

The annual Philadelphia Section Poster Session (March 24<sup>th</sup>) was organized and run by the Philly YCC. I appreciate the time More more than 80 posters were submitted for presentation, including posters by high school students, undergraduates, graduate students, and post-docs. Christine McInnis is the YCC Chair this year and she has done an impressive job of getting everything organized and mobilizing the YCC group. Thank you Christine. We also appreciate the extra effort expended by Renee Harris, Brady Werkheiser, Brian Koronkiewicz, Ogan Kumova, and Lauren Weinrich.

So you can see that March has been a busy month for those who are involved in the ACS. April will continue with the fun. The Section Meeting in April (April 17<sup>th</sup>) will be an opportunity to recognize the outstanding students from the universities and colleges in the Section. The Chemical Heritage Foundation CEO, Dr. Carsten Reinhardt, will be the speaker for the banquet. You are all welcome to attend.

We are in need of a volunteer for the position of National Chemistry Week Coordinator for the local section. This person would be the contact point for the National ACS NCW Office. We (the local section Board of Directors) are very appreciative of the time and effort that Judy Summers-Gates has expended over the years that she has served as NCW Coordinator for the Section. If you are interested in helping out, please contact Judy, Libby (philaacs@aol.com), or me (sfleming@temple.edu). We can fill you in on the details of the position.

**Philadelphia Section Councilors and Friends at the Spring National Meeting in Dallas.** Front, left to right: Kathy Shaginaw, Ella Davis, Anne DeMasi, and Kathie Lysko; Rear: Deborah Cook, Mark Forman, Judy Cohen, Judith Currano, Tom Barton (ACS President), Georgia Arbuckle-Keil, Melissa Cichowicz, Jim Murray, Rick Ewing, Tony Addison, Katie Hunt (former ACS President).



APRIL MEETING

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

presents

**Dr. Carsten Reinhardt**

**President and CEO, Chemical Heritage Foundation**

***The Past of Science and Technology. Why Bother?***

and

**Presentation of Scholastic Achievement Awards**

Thursday, April 17, 2014

7:00 PM

McCall Meeting and Conference Center  
201 North Lynn Boulevard  
Highland Park, PA 19083

Dinner at 6:00 PM

Dinner cost \$35.00; Students with reservations and ID: \$18.00

**RESERVATIONS** should be made by calling Mrs. Harper at the Section Office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM Thursday, April 11<sup>th</sup>. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, April 15<sup>th</sup>. UNCANCELLED RESERVATIONS WILL BE BILLED.

**DIRECTIONS:** <http://www.mccallgolf.com/directions/>

The Board of Directors will meet at 4:00 PM at the McCall Meeting and Conference Center.

## SPEAKER'S ABSTRACT AND BIOGRAPHY

**Dr. Carsten Reinhardt**

President and CEO  
Chemical Heritage Foundation

*The Past of Science and Technology. Why bother?*

**Abstract:** Scientists and engineers are forward looking, answering research questions and trying to fulfill future needs of society. A look at their past, however, may reveal much about how the scientific enterprise works, what the main features of science and technology are, and how we can shape their future course. In my talk, I will give examples of the 20<sup>th</sup> century development of US and international science and technology, addressing especially their mutual intertwinement, and the interplay of materials, instruments and theories in the research agendas.

**Biography:** Since August 2013, Carsten Reinhardt has been President and CEO of the Chemical Heritage Foundation in Philadelphia, PA. He joined the faculty of Bielefeld University in Germany as professor for the history of science in 2007. In 2006–2007 he held a fellowship at the Max Planck Institute for the History of Science, Berlin. Before that, he spent a decade at the University of Regensburg.

The author of three books, Reinhardt has contributed to 5 edited volumes and published nearly 40 academic articles. He has made more than 30 major presentations on topics in the history of science in a dozen countries in Europe and North America. In addition he has received many awards and fellowships, including being named a fellow at the Max Planck Institute and a visiting professor (*professeur invité*) in the Department of Philosophy, École Normale Supérieure, Paris. Reinhardt was an Edelstein Fellow at CHF in 1998–99. He was also an Edelstein Fellow at Hebrew University in Jerusalem in 1994.

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## NEWS ATOMS—*Alan Warren*

**Benjamin Garcia**, presidential associate professor of biochemistry and biophysics at Penn's school of medicine, received the Pittsburgh Conference Achievement Award at Pittcon in Chicago.

**P. Leslie Dutton**, Eldridge Reeves Johnson professor of biochemistry and biophysics at Penn's Perelman school of medicine, is recipient of the John Scott award for his work in electron transfer. The Scott award is one of the top prizes in science and medicine.



## DEATHS

**Ralph Churchill Reynolds**, biochemical toxicologist, July 12, 2013 at 84. Almost his entire career was spent with Eastman Kodak where he joined its laboratory of industrial medicine. His studies included metabolism of foreign substances, toxicology of dyes, and skin sensitization among others. He retired from Eastman Kodak's department of health, safety, and environment in 1995. He was a 55-year member of ACS.

**Hirsh S. Segal**, retired chemist, November 21<sup>st</sup> at 84. He was employed by Amchem Products in the field of herbicides. Segal was a 60-year member of ACS.

**Note:** News Atoms seeks to report on people in the field of chemistry in the greater Philadelphia area. If you have news about new hires, significant promotions, honors and awards, and those who have recently passed away, send it by email to [philcatalyst@aol.com](mailto:philcatalyst@aol.com) or by mail to the Philadelphia Section ACS.



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## 2009 ACS FELLOW DR. MICHELLE M. FRANCL

Michelle received her BS (1979) and PhD (1983) in chemistry, both from the University of California at Irvine and was a postdoctoral fellow at Princeton University (1983-1985). In 1986 she joined Bryn Mawr College as an Assistant Professor of Chemistry, and in 1992 was promoted to Associate Professor and in 2001 to full Professor, her current position. She is currently Professor of Chemistry on the Clowes Fund for Science and Public Policy. Michelle has had several visiting appointments: at the Lawrence Livermore National Laboratory (Physicist) (1998-1999); Princeton University (Visiting Fellow, 1992-1993); James Franck Institute, University of Chicago (Visiting Fellow 1992); and Haverford College (Assistant Professor of Chemistry, 1985-1986). Some of her awards and distinctions are the McPherson Award for excellence in teaching, research and service (2003); ISI List of Top 1000 most cited chemists (1981-1997); Christian R. and Mary F. Lindback Award (1994) and Rosalyn R. Schwartz Lectureship (1987-1991).

Michelle was nominated and selected as a 2009 ACS Fellow through her involvement in the technical Division of Computers in Chemistry. As a member of COMP she has held many positions, including Chair-Elect, Chair, and Past-Chair (2003-2005). Michelle represented COMP as a member of Council (1999-2007). She is currently Coordinator of Education Programs. Some of Michelle's national involvement in ACS was as a member of the Divisional Activities Committee (2000-2005), of which she was Vice-Chair (2005) and Secretary (2003-2004). She was on the Nominations & Elections Committee (2006-2008) and on the Board Oversight Group on Leadership Development of the ACS (2004-2009). Some of Michelle's other professional activities are columnist in *Nature Chemistry*, Board of Examiners (Chemistry GRE), and OXIDE (Open Chemistry Collaborative in Diversity Equity) Advisory Board. She is currently serving on the *C&E News* Editorial Advisory Board.

In addition to her position as Professor of Chemistry, Michelle has held the following positions at Bryn Mawr College: Co-Director, Emily Balch Seminar Program; Chair, Department of Chemistry; and Director, Katharine Houghton Hepburn Center. Some of Michelle's other service at Bryn Mawr College are as a member of the Curriculum Committee, the Abu Dhabi Working Group (Chair in 2008), the College Seminar Steering Committee (1998-2007), Faculty Grand Marshal (2000-2006), among others.

Michelle has written a couple of articles for *Slate* magazine and these can be located at [http://www.slate.com/authors.michelle\\_m\\_franc1.html](http://www.slate.com/authors.michelle_m_franc1.html) and the URL <http://cultureofchemistry.fieldofscience.com> is for her blog.

The above is only a snapshot of Michelle's career accomplishments and her many contributions to ACS.

## **GUIDELINES FOR STUDENT AFFILIATE CHAPTERS TO REQUEST FUNDS TO ATTEND NATIONAL ACS MEETINGS**

Undergraduate students from ACS Student Affiliate Chapters in the Philadelphia Section are encouraged to consider attending National Meetings of the American Chemical Society. In this regard, a limited amount of funding will be provided to chapters requesting sponsorship based on the following general guidelines.

### **GENERAL GUIDELINES**

- 1) First consideration will be given to student(s) who wish to attend a National Meeting of the American Chemical Society (ACS) to give a presentation (oral or poster). Students attending for other purposes, i.e., to receive an award or attend a specific workshop, etc., are also eligible to apply for support.
- 2) The student(s) must have requested support from their College or University (including department and/or advisor) to assist in defraying the travel costs. Please attach a copy of the correspondence.
- 3) The student(s) should have a clear idea of the benefits of attending the meeting. Please attach a short paragraph from each student indicating which sessions, including workshops, etc., the student plans to attend and why these sessions will help them obtain their professional goals.

All applications must include an itemized list of the projected costs of the trip, i.e., registration, airfare, train or car expenses, hotel, etc., and indicate which of these costs (if any) are being provided by other sources.

An application for travel support can be made at any time to the Philadelphia Section, but for full consideration, the application must be received by the Section Office by January 31<sup>st</sup> for the Spring meeting and May 31<sup>st</sup> for the Fall meeting.

The Philadelphia Section will evaluate all applications received by the deadline and vote at the February meeting for the Spring ACS meeting applications and at the June meeting for the Fall ACS meeting applications. The amount of funding available may be influenced by the number of applications for a particular meeting and the costs of attending that meeting, i.e., where it is being held.

The successful applicant must submit a brief report highlighting the conference experience to the Philadelphia Section at the completion of the trip. The original receipts should also be submitted to the section office for reimbursement.





## CHEMICAL CONSULTANTS NETWORK APRIL 9, 2014 Meeting JOINT WITH conet

Visit our websites at [www.chemconsultants.org](http://www.chemconsultants.org) and [www.philaconet.com](http://www.philaconet.com)

**CCN MEMBERS WHO REGISTER FOR THIS MEETING MAY ATTEND THE APRIL 10<sup>th</sup>**

**JPS MEETING WITH A GUEST FOR FREE. EMAIL [JFLNEWPORT@YAHOO.COM](mailto:JFLNEWPORT@YAHOO.COM) FOR DETAILS**

**Date and Time:** Wednesday, April 9<sup>th</sup>, at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

## The International Executive Service Corps

**Andrea Patrick**

**Associate Vice President, IESC**

**Abstract:** IESC – the International Executive Service Corps – is a US not-for-profit that sends consultants and volunteer experts to developing countries whose private enterprises, emerging industries, financial institutions, and governments need our managerial and technical expertise. For half a century, the IESC has fielded highly qualified executives and professionals to support the interests and meet the needs of small and large businesses all over the world. Although we are based in Washington, our perspectives are focused on challenges and opportunities wherever they may be, creating private sector business success, introducing cutting edge technology, achieving economic growth and providing cost-effective solutions across a wide spectrum of enterprises and government entities. Recently IESC/AARP signed a groundbreaking agreement to support Chinese efforts to restructure their economy and industry to more closely align with domestic consumer needs and to help encourage safe and sustainable manufacturing. As the lead implementing partner, IESC is now actively recruiting interested volunteers for this exciting new initiative.

**Biography:** Andrea Patrick serves as the IESC Associate Vice President for Volunteer Services. In this capacity, she is responsible for building the volunteer practice through outreach, strategic marketing and development, and recruitment. Ms. Patrick brings a range of relevant international professional experience to her new role that includes management consulting, non-profit operations, and international education administration for Arcadia University. In addition to Washington and Philadelphia, she has worked and lived in Moscow, Almaty, Amsterdam, and Johannesburg.

A graduate of Georgetown University, Ms Patrick also earned an MA from George Washington, and an MBA from the University of Cape Town.

**Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at (610) 667-4524, ext. 2. [MAP](#)

**Reservation:** To make or cancel a dinner reservation login to [chemconsultants.org](http://chemconsultants.org), or e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the ACS office at (215) 382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$30 by Saturday, April 5<sup>th</sup>, \$35 afterwards. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Dietary restrictions accommodated on a limited basis. There is no charge for talk only, but registration is suggested using contact information above.

## PHILADELPHIA SCIENCE FESTIVAL CARNIVAL

How can you mix your love of chemistry and getting involved with your community? Volunteer at the Philadelphia Science Festival!

The Young Chemists Council of the Section's Younger Chemists Committee is looking for volunteers to help run their booth at the Philly Science Carnival on May 3, 2014 from 10 AM – 4 PM on the Benjamin Franklin Parkway.

The YCC will be conducting demonstrations on the chemical, physical, and biological aspects of soap bubbles.

Please contact Francis, [tub57042@temple.edu](mailto:tub57042@temple.edu) or JD, [jdxv13@comcast.net](mailto:jdxv13@comcast.net) for more information!

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### Interested in Working for ACS?

We're drawing up the slate of candidates for the fall 2014 election. Specifically, there are openings for chair-elect, treasurer, directors, and councilors. The chair-elect has several responsibilities, including chairing the Section awards and program committees during the first year of the term and running the Section during the second year. The treasurer is mainly responsible for paying bills and keeping those records. Directors form the governance of the Local Section and meet monthly September-June. Councilors represent the Section at ACS national meetings.

If you would like to run, please get in touch with JP Northrop ([john.northrop@anton-paar.com](mailto:john.northrop@anton-paar.com)) or Libby Harper ([PhilaACS@aol.com](mailto:PhilaACS@aol.com) or (215) 382-1589).

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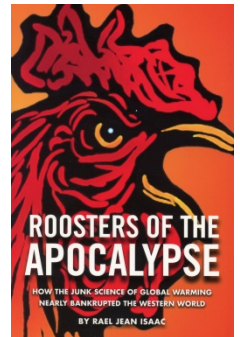
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**BOOK REVIEW**—Alan Warren

*Roosters of the Apocalypse: How Junk Science of Global Warming nearly Destroyed the Western World* by Rael Jean Isaac. 118 pages, 5 by 7 ½ inches, card covers, perfect bound, Heartland Institute, Chicago, 2012. ISBN 13-978-1-934791-37-0, \$8.95 from The Heartland Institute, One South Wacker Drive #2740, Chicago, IL 60606.



The author, a sociologist who studies social movements in the United States, opens her book with the thought: “Apocalyptic movements have much in common with one another, no matter the gulf in time and educational level of the participants.” With this springboard she engages readers to take a closer look at climate change and global warming, and those who initiate and support such movements as “roosters.”

She analyzes the “Climategate” scandal of the Climatic Research Unit at the University of East Anglia, and describes transgressions of the reports of the United Nation’s Intergovernmental Panel on Climate Change. What was first called “global warming” converted to “climate change” around 2002 when the apparent warming abated. The climate roosters themselves were alarmed when scientists pointed to the Medieval Warm Period from 950 to 1300 A.D. Efforts were made to issue a report in which this period vanished.

Climate change in the hands of politicians has generated economic pain in light of tax dollars, efforts to reduce emissions, and carbon credits that all render carbon dioxide a valued commodity in world trade. The author also comments on the money spent on renewables, pointing out that the thousands of wind turbines installed by Denmark and Germany have not enabled a single coal-fired plant to be replaced.

The author also reminds the reader that during 1975-79, *Time*, *Newsweek*, and the *Christian Science Monitor* all published articles predicting another Ice Age and the Big Freeze, due to industrial emissions. Recent legislation to put on hold permits and licenses for oil drilling, efforts to ban fracking, and draconian air quality regulations are causing the coal, oil, and gas companies to recognize the loss of jobs, reduction in GDP, and the potential to increase oil imports rather than decrease them. Spain’s heavy investment in green energy has caused the price of energy in that country to rise 17% above the European average.

The author sees the roosters influencing legislators and working over the decision makers in Washington. The efforts of the Sierra Club and the Natural Resources Defense Council as parts of the environmental movement are well endowed with funding and lawyers to achieve their misguided goals.

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All committees are looking for new members and several are looking for "take charge" chairs. Some, like the Teller's Committee, involve minimal work—one night per year and pizza provided. Others, like positions on Communications or Social Committees, involve one or two hours per month.

Committee details can be found at:  
<http://www.membership.acs.org/p/philadelphia>

or by calling Mrs. Libby Harper at the Philadelphia Section Office (215) 382-1589.



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## PHILADELPHIA SECTION, ACS 2014 CURRENT CALENDAR OF ACTIVITIES

Date	Event	Locations
Thursday, April 3	2014 Chromatography Forum of the Delaware Valley Spring Symposium: <i>New Horizons in Sample Preparation for Chromatography</i>	Holiday Inn Fort Washington, PA <a href="http://www.cfdv.org/">http://www.cfdv.org/</a>
Friday, April 4	First Friday Event: <i>Night at the Alchemical Laboratory</i>	Chemical Heritage Foundation Philadelphia, PA <a href="http://www.chemheritage.org/visit/events/first-fridays/index.aspx">http://www.chemheritage.org/visit/events/first-fridays/index.aspx</a>
Saturday, April 5	Philadelphia Girls Enjoying Science Program for Sixth Grade Girls (PAGES™)	Chestnut Hill College, Philadelphia, PA <a href="http://www.pagesprogram.org">www.pagesprogram.org</a>
Wednesday, April 9	Chemical Consultants Network: Andrea Patrick Associate Vice President, IESC: <i>The International Executive Service Corps</i>	The Cynwyd Club Bala Cynwyd, PA <a href="http://www.chemconsultants.org">www.chemconsultants.org</a>
Thursday, April 10	Hirschmann Visiting Professor Abraham Nitzen, Tel Aviv University: <i>Molecular Electronics and Plasmonics: The Interaction of Molecular Conduction Junctions with Light</i> .	Department of Chemistry University of Pennsylvania Philadelphia, PA <a href="http://www.chem.upenn.edu/events-list">http://www.chem.upenn.edu/events-list</a>
Thursday, April 10	Cain Conference Lecture: Ian Inkster, University of London and Wenzao University, Taiwan: <i>Global Commodities and Connectivities – Chemistry in Birmingham and Camphor Wars in Formosa, 1860s-1914</i>	Chemical Heritage Foundation Philadelphia, PA <a href="http://www.chemheritage.org">www.chemheritage.org</a> <a href="http://www.chemheritage.org/visit/events/index.aspx?month=April">http://www.chemheritage.org/visit/events/index.aspx?month=April</a>
Friday, April 11	Hirschmann Visiting Professor Abraham Nitzen, Tel Aviv University: <i>Molecular Heat Transport &amp; Energy Conversion</i>	Department of Chemistry University of Pennsylvania Philadelphia, PA <a href="http://www.chem.upenn.edu/events-list">http://www.chem.upenn.edu/events-list</a>
Monday, April 14	Delaware Valley Mass Spectrometry Discussion Group: Benjamin A. Garcia, University of Pennsylvania School of Medicine: <i>Quantitative Proteomics for Understanding the Histone Code</i>	Mendel Hall 154 Villanova University Villanova, PA <a href="http://science.widener.edu/svb/msdg/">http://science.widener.edu/svb/msdg/</a>
<b>Thursday, April 17</b>	<b>Dr. Carsten Reinhardt, President, Chemical Heritage Foundation: <i>The Past of Science and Technology. Why Bother?</i> and Presentation of Scholastic Achievement Awards</b>	<b>McCall Meeting and Conference Center Upper Darby, PA</b>
Thursday, April 17	Philadelphia Organic Chemists Club: Lawrence T. Scott, Boston College: <i>TBA</i>	University of Pennsylvania Philadelphia, PA <a href="http://www.pocclub.org/">http://www.pocclub.org/</a>
Wednesday, April 23	American Institute of Chemical Engineers: Student Awards Banquet	Widener University Chester, PA <a href="http://aiche-philadelphia.org/events/">http://aiche-philadelphia.org/events/</a>
April 28-May 1	9 ACS Short Courses in Philadelphia	Temple University -- Center City Philadelphia, PA <a href="http://proed.acs.org/philadelphia-2/">http://proed.acs.org/philadelphia-2/</a>
<b>Thursday, May 15</b>	<b>Philadelphia Section Teaching Awards</b>	<b>TBA</b>
Thursday, May 15	Heritage Day	Chemical Heritage Foundation, Philadelphia, PA
<b>Thursday, June 19</b>	<b>Luncheon Honoring Our Fifty- and Sixty-year Members</b>	<b>Iron Hill Brewery and Restaurant Chestnut Hill, Philadelphia, PA</b>
Sunday, June 22-Wednesday, June 25	88 <sup>th</sup> ACS Colloids and Surface Science Symposium	University of Pennsylvania, Philadelphia, PA <a href="http://www.colloids2014.lrsu.upenn.edu">http://www.colloids2014.lrsu.upenn.edu</a>
<b>Thursday, September 18</b>	<b>TBA</b>	<b>TBA</b>
<b>Thursday, October 16</b>	<b>Philadelphia Section Award</b>	<b>TBA</b>
Wednesday, November 12	Ulyot Lecture: George Whitesides, Harvard University	Chemical Heritage Foundation, Philadelphia, PA

**248<sup>th</sup> ACS Fall National Meeting  
August 10-14, 2014  
San Francisco, CA**