

# Spring 2014

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[www.polyacs.org](http://www.polyacs.org)



# olymer

American Chemical Society



Division of Polymer Chemistry, Inc.

Editors: Cher Davis and Kathy L. Mitchem



**Kathryn Beers**  
2014 Chair

## Chair's Address

Why are you a member of POLY? I think there are many reasons, but we don't always articulate them very well. At the Spring National Meeting in Dallas during our very successful Plenary Lecture and Awards Reception, Professor Joe DeSimone spoke about Convergence and the need to bridge not only the physical and life sciences, but also the humanities and arts to realize the next wave of innovation in materials and technology. While I listened to his inspiring lecture, it occurred to me that the discipline of Polymer Science has been a nexus of convergence since its inception nearly 100 years ago.

This is exemplified by polymer chemistry over the last two decades, when control of molecular structure has enabled exquisite control of function. Physicists, biologists and engineers are all drawn to our community to learn our techniques and appreciate our practical approach to method development and technology transfer. They become converts, making their own polymers and artistically "riffing" on our methods to make better stuff. They help us identify the limitations of our understanding and the new problems that need to be solved in the process. The result is a vibrant intellectual community rooted in technical depth and detail, yet reaching out to many sectors of the world, and everyone benefits - from the "makers" to the mass producers.

POLY resides at this converging intersection, and has nurtured great leadership and a powerful network as a result. We bring together everyone through our outstanding technical programming, our vibrant workshops, and the recognition of our community's best and brightest. I am a member because all of these mechanisms are a continual source of inspiration and motivation for me. I am constantly amazed by the abilities of my colleagues - turning brilliant and sophisticated ideas into simple and accessible technology. I have enjoyed many benefits of Division membership: building collaborations, improving my communication, finding mentors and sharing knowledge. I continue my membership because I have seen how much work goes into sustaining those programs and activities and I want POLY to remain a leader in ACS and in Polymer Science. That is also why I am honored to now have the opportunity to serve as the 2014 POLY Chair.

There has been a terrific series of Chairs in the Division, many of whom remain committed and engaged long after they have left office. I am grateful for the benefits of their wisdom and experience. This year we have the opportunity to capitalize on the more recent initiatives spurred by our 2013 strategic plan lead by Past Chair Greg Tew. A few of those new activities include reinvigorating the Poster Sessions at the National Meeting with a new Poster Award program, and enabling new video content through video awards for technical shorts, and increasing membership through promoting the value of membership.

Finally, the dedication and service to POLY extends far beyond the legacy of the former Chairs. There are many people working in critical Executive Committee positions and behind the scenes, often exerting many years of effort to make sure the institutional memory and our commitment to the history of our profession are not lost. One such person is Fred Dammont of Newark, NJ. Fred has been the circulation manager of polymer preprints for many years, and has preserved our most intact paper collection of preprints over many decades. Until October of 2012 those paper editions were held in a storage facility

in New Jersey that sustained significant damage from Hurricane Sandy. Fred recruited a local troop of Boy Scouts to help recover the paper copies, and this winter with the help of POLY Councilor Frank Blum and ACS Publications, the entire catalog has been digitized and archived in a searchable, high resolution format and is available on the ACS website (<http://pubs.acs.org/meetingpreprints/> - you will need your membership number to view them). We owe Frank, ACS PUBS, and especially Fred a big thank you for preserving this part of our history.

So, why are you a member of POLY? Post your answers to social media or share them with us the next time we gather. We need to get the message out.



POLY Executive Dinner, ACS National Meeting  
Dallas, Texas - March 2014



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# POLY Recognizes Outstanding Members

Paul J. Flory Award Sponsored by

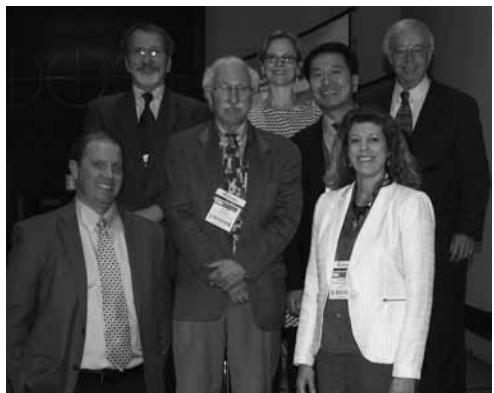
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*Above:*  
(l-r) N. L. Yang (CUYN),  
J. Roberg (Albemarle),  
K. Beers (POLY Chair)



*Left:*  
**Paul J. Flory Awardee:**  
G. Odian (CUNY)



**POLY Fellows Award:** (l-r)  
Back Row: N. Hadjichristidis (KAUST), K. Beers  
(POLY Chair), K. Wagener (Univ. of Florida).  
Center Row: B. Ratner (Univ. of Washington), J. Wang  
(Kimberly-Clark Corp.).  
Front Row: J. Linhardt (Google, Inc.), C. Landry-Coltraine  
(Eastman Kodak Co.)

The POLY/PMSE awards reception, held at the ACS National Meeting in Dallas, TX, honored outstanding achievements by its members. 2014 POLY Chair, Kathryn Beers, (Materials Science & Engineering, NIST) had the pleasure of congratulating this year's award winners.

One of the top awards presented Wednesday evening was the **2014 Paul J. Flory Polymer Education Award** presented to George Odian (The City University of New York). This special award recognizes the promotion of undergraduate and/or graduate polymer education and is sponsored by **ALBEMARLE**. Professor Odian has made major contributions to advancing the polymer field by educating a large number of chemists to a basic understanding of what it takes to synthesize polymers with controlled structures and properties. Throughout all of his educational efforts, including the curriculum in the CUNY doctoral program, the ACS Short Courses, and the "Principles of Polymerization" text, the emphasis is on control of the polymerization process to achieve a desired set of final polymer properties. That is, what does one have to do synthetically to achieve a certain molecular weight, a certain microstructure (regio- and stereo-), a certain morphology, a certain set of physical properties, and so on. The awardee had a full session in his honor at the ACS National Meeting in Texas. A special thank you goes to Nan-Loh Yang who organized the symposium and received the award in Dr. Odian's honor, as he was unable to attend the ACS meeting.

**POLY Fellows Award:** Ten outstanding POLY members were honored recipients of the 2014 POLY Fellows Award for their outstanding achievements and contributions to polymer science and their profession. Recipients included: Zhenan Bao (Stanford University), Pradip Bhowmik (University of Nevada-Las Vegas), Nikos Hadjichristidis (King Abdullah University of Science and Technology), Kristi Kiick (University of Delaware), Christine Landry-Coltraine (Eastman Kodak Company), Jeffrey Linhardt (Google, Inc.), Rachel O'Reilly (University of Warwick), Buddy Ratner (University of Washington), Kenneth Wagener (University of Florida), and James Wang (Kimberly-Clark Corporation).

**Distinguished Service Awards:** Krzysztof Matyjaszewski (Carnegie Mellon University), received the 2014 Distinguished Service Award in recognition of exceptional leadership in organization of the controlled radical polymerization symposium. This symposium has become a highly attended event during the ACS National Meeting and is held every other year.

**Past Chair:** POLY honors Past POLY Chairs for their outstanding leadership to the Division with a special plaque and past chair lapel pin. Joseph Mabry (2012 Chair) and Gregory Tew (2013 Chair) were honored during the ceremony.

**Plenary Lecture:** The awards reception featured Plenary Lecturer, Joseph DeSimone (The University of North Carolina at Chapel Hill), who presented, "*Convergent Thinking to Drive New Approaches to Manufacturing*". He received a plaque and honorarium for this special technical presentation.

In addition to these, several awards including Excellence in Undergraduate Polymer Research, Student Chapter Award, POLY IAB Travel Award, and the Outstanding Poster Awards were presented and are highlighted throughout this Newsletter.

The reception was extremely well-attended by approximately 300 POLY and PMSE members and provided an opportunity to better recognize the excellence and community in both the POLY and PMSE Division. The evening successfully celebrated the individuals who are the present and future of Polymer Chemistry. Congratulations again to all!



**Plenary Lecture:** (l-r)  
K. Beers (POLY Chair) and J. DeSimone  
(UNC-Chapel Hill/NC State)



**Past Chair:** (l-r)  
J. Mabry (AFRL)  
and K. Beers (POLY Chair)



**Distinguished Service Award:** (l-r)  
K. Matyjaszewski (Carnegie Mellon University)  
and K. Beers (POLY Chair)

# 10th Excellence in Polymer Graduate Research Symposium

The tenth symposium on “Excellence in Polymer Graduate Research” took place at the ACS National Meeting in Dallas, Texas on March 16-18, 2014. The purpose of this symposium are to provide recognition to outstanding graduate students in polymer science and engineering, to foster networking and exposure, and to help develop the careers of future leaders in our field. We publicized this symposium via the POLY list server, POLY web page, and direct e-mail messages to over 100 departments that are active in polymer research. We requested that each department nominate one outstanding graduate student to speak on his or her original research in this special symposium. Each student was required to complete an application form, and have a nominating letter from the research advisor, and a letter from the department head.

This year a record number of 55 submissions were received. (The previous record was 42 in 2013). The organizing committee was very pleased with both the quantity and the quality of the papers. The symposium was organized into four half-day oral sessions, a very large poster session, and a networking social. In the oral sessions on Sunday and Monday, 28 students gave talks on their work, and in the Tuesday poster session, 27 students presented their posters. The symposium was a success with a great deal of graduate student interaction.

As part of the recognition, each student received a certificate plus a cash award. Dr. Tom Barton (2014 ACS President) personally visited the symposium and spoke to the students. Dr. Barton previously worked with polymers early in his career and made a reference to his experience in his speech. Later, Dr. Kathryn Beers (2014 POLY Chair) also spoke to the students. A reception followed where the students mingled with the participants of the POLY Undergraduate Symposium.

The symposium was organized by the ACS Division of Polymer Chemistry (POLY), and cosponsored by Presidential Event (PRES), Young Chemists Committee (YCC), Division of Professional Relations (PROF), and Society Committee on Education (SOCED). The symposium had the generous support of POLY, Industrial Advisory Board of the Polymer Division (IAB), and the Division of Materials Research at National Science Foundation (NSF/DMR). This symposium Organizing Committee consists of H. N. Cheng (USDA), Christopher Ellison (University of Texas), Christine Landry-Coltrane (Eastman Kodak Company), and Timothy E. Long (Virginia Tech).

## Oral Presentations:

Katherine Barreau, Univ. of California-SB  
Johnathan Brantley, Univ. of Texas  
Travis Cantu, Texas State Univ.  
Anthony DiLauro, Pennsylvania State Univ.  
Mirian Diop, Northwestern Univ.  
Irina Drachuk, Georgia Tech  
Boyi Fu, Georgia Tech  
Matthew Glassman, Massachusetts Inst. of Tech.  
James Goetz, Univ. of Southern Mississippi  
Jared Griebel, Univ. of Arizona  
Ye-Jin Hwang, Univ. of Washington  
Zachary Kean, Duke Univ.  
Ken Lin, Univ. of California - LA  
Luyao Lu, Univ. of Chicago  
Stephen Ma, Univ. of Delaware  
Christopher McGann, Univ. of Delaware  
Brian Michal, Case Western Reserve Univ.  
Sarah Mueller, Univ. of North Carolina  
Thi Nguyen, Univ. of California - LA  
Justin Poelma, Univ. of California - SB  
Elizabeth Rainbolt, Univ. of Texas-Dallas  
Huiliang Wang, Stanford Univ.  
Kristan Worthington, The Univ. of Iowa  
Yaoying Wu, Univ. of Minnesota  
Weixian Xi, Univ. of Colorado  
Kan Yue, Univ. of Akron  
Boyu Zhang, Tulane Univ.  
Jiuyang Zhang, Univ. of South Carolina

## Poster Presenters:

Rotimi Bakare, Howard Univ.  
Brian Chaloux, Pennsylvania State Univ.  
Joseph Daniel, Central Michigan Univ.  
Casey Dougherty, Univ. of Michigan  
Fang Guo, Rutgers Univ.  
Hongzhang Han, Southern Methodist Univ.  
Xiaorui Han, Central Michigan Univ.  
Patrick Homayak, Univ. of Massachusetts  
Sixiao Hu, Univ. of California - Davis  
Anahita Khanlari, Univ. of Kansas  
Xianyu Li, Rice Univ.  
Xiumin Liu, Univ. of Akron  
Laurisa London, Clark Atlanta Univ.  
Michael Maher, Univ. of Texas  
Lindsay Nail, Texas A&M Univ.  
Sebla Onbulak, State Univ. of New York at Buffalo  
Ashish Punia, City Univ. of New York at SI  
James Reuther, North Carolina State Univ.  
Robert Rogers, Texas State Univ.  
Chenyu Wang, Virginia Commonwealth Univ.  
Shu Wang, Univ. of Houston  
Xiaoling Wang, Virginia Tech  
Andrew Yeung, Texas A&M Univ.  
Qi Zhang, New York Univ. - Polytechnic Inst.  
Yiying Zhang, Northeastern Univ.  
Xueyan Zheng, Virginia Tech  
Liping Zhu, Colorado School of Mines

# Congratulations Recent Awardees

The following awardees will be recognized during the Fall ACS National meeting in San Francisco, CA at the POLY/PMSE Award reception on Wednesday evening. Also, a special POLY Symposium for these awardees will be held during the week.

## 2014 Biomacromolecules/ Macromolecules Young Investigator Award

*Sponsored by the ACS Journals  
Biomacromolecules, Macromolecules and  
ACS Macro Letters in partnership with the  
Division of Polymer Chemistry.*



**Sébastien Perrier**  
University of Warwick



**Zhiyuan Zhong**  
Soochow University

## Industrial Polymer Scientist Award

*Sponsored by the  
POLY Industrial Advisory Board*



**Robert D. Allen**  
IBM Almaden  
Research Center



# 9th Undergraduate Research in Polymer Science Symposium

The ninth annual Undergraduate Research in Polymer Science Symposium was held at the Dallas ACS National Meeting, with sixteen oral and 30 poster presentations from 30 universities across the country. Sabic Innovative Plastics sponsored travel awards for the top five abstracts. The POLY Industrial Advisory Board sponsored \$500 awards for the best paper and the best poster presentation. The symposium featured a career panel section with representatives from national lab, academic, and industrial laboratories. Kate Beers (NIST), Dan Savin (University of Southern Mississippi), and Diana Gerbi (3M), served as panelists. The program was co-sponsored by POLY, Sabic Innovative Plastics, and The University of Southern Mississippi School of Polymers and High Performance Materials and culminated with a joint reception with the Excellence in Graduate Research Symposium. Sabic travel award winners were: Sophie Miller (Stanford University), Tyler Brown (University of Southern Mississippi), Joseph A. Moo-Young (North Carolina State University), Aakriti Kharel (Wesleyan College), and Hannah Brown, (University of Southern Mississippi). The best paper award was presented to Guilhem Dehoe (California Polytechnic State University San Luis Obispo), and the best poster award was presented to Ford Carty (U.S. Air Force Academy), by POLY IAB. The symposium was organized by Sarah Morgan, Sergei Nazarenko and Dan Savin of The University of Southern Mississippi.

## Participants in Undergraduate Research Symposium



## Industrial Advisory Board Undergraduate Oral and Poster Award

### **1st Place Oral Presentation**

Guilhem Dehoe  
Virginia Polytechnic  
Institute and  
State University  
*Title: Synthetic Design  
of Block Copolymer  
Amphiphiles for  
Nanomaterial Dispersion*



### **1st Place Poster Presentation**

Ford Carty  
U.S. Air Force Academy  
*Title: New  
Fluorine-Containing  
Polyarylamines for  
Organic Electronics*



## Undergraduate Travel Award Recipients

**Hannah Brown**, University of Southern Mississippi

**Tyler Brown**, University of Southern Mississippi

**Aakriti Kharel**, Wesleyan College

**Sophie Miller**, Stanford University

**Joseph A. Moo-Young**, North Carolina State University

## **Award Deadlines**

### **Carl S. Marvel Creative Polymer Chemistry Award**

Sponsored by: Albemarle

Upcoming Deadline - 7/1/14

Purpose: To recognize and encourage accomplishments and/or innovation of unusual merit in the field of basic or applied polymer science by younger scientists.

### **POLY Video Award**

Upcoming Deadline - 7/15/14

Purpose: To prepare young chemists to present their research and interact with a broad range of audiences, including more senior scientists and the general public.

### **Herman F. Mark Polymer Chemistry Award**

Sponsored by: Elsevier

Upcoming Deadline - 11/1/14

Purpose: To recognize outstanding research and leadership in polymer science.

### **3 Mark Scholars Awards**

**Including: Young Scholar, Scholar, and Senior Scholar**

Sponsored by: Elsevier

Upcoming Deadline - 11/1/14

Purpose: To recognize excellence in basic or applied research and leadership in polymer science.

### **POLY Fellows Award**

Upcoming Deadline - 11/30/14

Purpose: To recognize excellence in all ways that POLY members advance our field of polymer science, either through scientific accomplishments, service to the profession, or both.

For award instructions and additional information, please visit our web site:

<http://www.polyacs.org/>

then click "AWARDS"

or contact:

**Ashley Ritter**

POLY Business Office

ardaltn@vt.edu

540-231-3029

**Awards Co-Chairs**

**Kenneth Carter**

University of Massachusetts-Amherst

Phone: 413-577-1416

E-mail: krcarter@polysci.umass.edu

**Marc A. Hillmyer**

University of Minnesota

Phone: 612-625-7834

E-mail: hillmyer@umn.edu

# New **POLY** Opportunities

# **POLY Graduate Student Video Award**

The purpose of this award is to prepare young chemists to present their research and interact with a broad range of audiences, including more senior scientists and the general public. It should be understood that the presentation should be geared toward a lay person.

## Criteria:

- Nominations are open to current PhD students and post-docs.
- To be eligible, students should submit a 3-minute video describing their research to a non-technical person.
- All submitted videos will be judged and 3 selected finalists will be asked to join POLY at POLY's Awards Reception that occurs on Wednesday evening at each National ACS meeting.
- Videos from all of the finalists will be shown during the POLY's Awards Reception.
- The winner will be announced at the awards ceremony and presented with a \$250 prize.
- All videos will be evaluated and critiqued by the POLY awards subcommittee and feedback will be given to the students in either written or oral form. All videos that are judged to be “good” quality or better will be posted on the POLY website and made available to others.

To be considered for the award, the video should be accompanied by (1) a one-page maximum PDF cover letter from the student that briefly describes the importance of conveying his/her particular research topic to the general public and (2) a letter from the student's advisor stating his/her agreement that the video can be published online and shown at ACS-sponsored meetings, including POLY workshops and local, regional, and national meetings of the ACS.

**Submission Deadline: July 15, 2014**  
**\$250 Prize**

**Submit Video Proposal To:**  
Ashley Ritter  
olymer Division Business Office  
Phone: 540-231-3029  
E-mail: [ardaltn@vt.edu](mailto:ardaltn@vt.edu)

**For Additional Questions:**  
Dr. Semra Colak  
3M Corporate Research Materials Laboratory  
POLY Video Award Committee  
E-mail: scolak@mnm.com

# POLY Science Cafe Funding

Science Cafés are events that take place in casual settings such as pubs and coffee houses. They are open to the public or invited group, and features an engaging conversation with scientists about a particular topic.

### **IDEA TOPICS:**

- How polymers change the clothing you wear
- How your health is helped by polymers
- How polymers help clean up the environment
- Good food, great polymers
- Other Ideas? These are just examples. . .

### **WHO MIGHT ATTEND:**

It would be up to YOU to publicize the event, circulate flyers, and invite attendees. You may want to target a group or make it open to the public. Ideas might include General Public, College Students, University Department, Clubs, etc.

## **SUPPORT:**

Up to \$200 to be used for . . .

- Refreshments (Pizza/Drinks/Coffee/etc.)
- Science Café Supplies
- Other items will be considered.

## **SUBMISSION PROCESS:**

Send a one page proposal including who, what, when, where, why, and how to:

Kathy Mitchem  
Polymer Division Business Office  
Phone: 540-231-3029  
E-mail: kathyL@vt.edu

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# Industrial Advisory Board

The Industrial Advisory Board (IAB) hosted an industry member social at the Spring ACS National Meeting in Dallas, TX. This provided industry members an opportunity to network with others who are involved in the field of polymer chemistry. The reception was highly attended, and the IAB plans to host this reception again at future ACS meetings (tentatively on Monday afternoon). If you would like more information about the event location and time, e-mail [lesiar@vt.edu](mailto:lesiar@vt.edu) prior to the ACS National Meeting.

IAB is sponsoring a new symposium entitled "Industrial Innovations in Polymer Chemistry", co-organized by Michael Hunt of Polymaterials, Corp. ([m.hunt@polymaterials.de](mailto:m.hunt@polymaterials.de)) and Karl Haider of Bayer MaterialScience, LLC ([karl.haider@bayer.com](mailto:karl.haider@bayer.com)). The first symposium is scheduled for the Fall ACS National Meeting in San Francisco, CA and will highlight industrial polymer chemistry as applied to new product development. This symposium will continue to be offered in future years. Please e-mail topics and speaker suggestions to the co-organizers for future consideration. Through the support of IAB and other contributors, partial travel assistance will be offered in an effort to fund industrial presenters.

The Graduate Student Travel Awards are managed by the Polymer Division Membership Committee and sponsored by the IAB. The awards for the Dallas, TX, ACS meeting were received by Zachary Kean (Duke University) titled, "Stress-Responsive Polymers via Mechanochemistry", and Sebla Onbulak (State University of New York at Buffalo) titled, "Synthesis of Photo-Cross-Linkable Core-Shell Bottlebrush Copolymers and their Transformation into Well-Defined Organic Nanotubes".

Two Travel Awards are given at each ACS meeting to provide funding for polymer graduate students to travel to the ACS National Meeting to present their research. The deadline for each award is spring and fall prior to each ACS meeting. For specific dates and information visit: <http://www.polyacs.org/649.html/>.



Travel Awards: (l-r)  
S. Onbulak (SUNY), Z. Kean (Duke Univ.),  
T. Baughman (IAB),  
and K. Beers (POLY Chair)



## In Memory of Patrick E Cassidy

Patrick E. Cassidy, a Distinguished Professor Emeritus of Chemistry and Biochemistry at Texas State University of San Marcos, Texas passed away on December 6, 2013.

Dr. Cassidy was raised in East Moline, Illinois and received a B.S. with Honors in Chemistry from the University of Illinois. After completing his doctoral work at the University of Iowa, he was a postdoctoral fellow with Professor Carl S. Marvel at the University of Arizona.

Dr. Cassidy retired from Texas State University with 41 years of service that included fifteen years as Associate Vice President of Academic Affairs. During his tenure at Texas State University, he founded and directed several institutes and centers including the Polymer Research Group. During his career, Cassidy published and presented over 400 papers. His awards include being named a Fellow of the ACS Polymeric Materials and Engineering Division, the Southwest ACS Award and the University's Presidential Award for Excellence in Research. Cassidy received nine patents in the field of fluoropolymer research. Cassidy was known on campus for his collegiality and commitment to student success. Cassidy's impact at Texas State University is measured by the increase in research activity and specifically - in or toward nurturing activity in polymer and materials research. Cassidy was actively involved in the ACS Division of Polymer Chemistry and oversaw a critical transition in the delivery of Polymer Preprints by electronic means.

He was an avid traveler and nurtured many international collaborations. He is survived by his wife, Jeanne, three children, Andrew, Lacey and Melissa and three grandchildren.

## Membership Committee Report

K. Cavicchi and M. Meador

Membership is the heart of the POLY Division. We are happy to announce two new initiatives for fall 2014. The first is a membership drive, both the member and the student chapter that recruit the most students will be recognized for their outstanding effort at the spring 2015 ACS National meeting. Second, with the growth of student chapters in the past few years a new program to reward active student chapters and recognize the best chapter will be launched in fall 2014.

The Membership Committee awarded the University of Michigan the POLY/PMSE Student Chapter award at the ACS National Meeting in Dallas TX. The Chapter plans to use the award to support a seminar given by leading polymer researchers from both academia and industry, develop an outreach program to teach high school students about careers in polymer-related fields, and support a student networking event that will take place in October 2014 during the 38th annual Macromolecular Symposium at University of Michigan. A similar event was held at the Macromolecular Symposium in years past and was a tremendous success, with 75 students from eight universities attending, and they hope to grow the event further this year.



Student Chapter Award:  
Presented to University of Michigan

Written by Bill Brittan

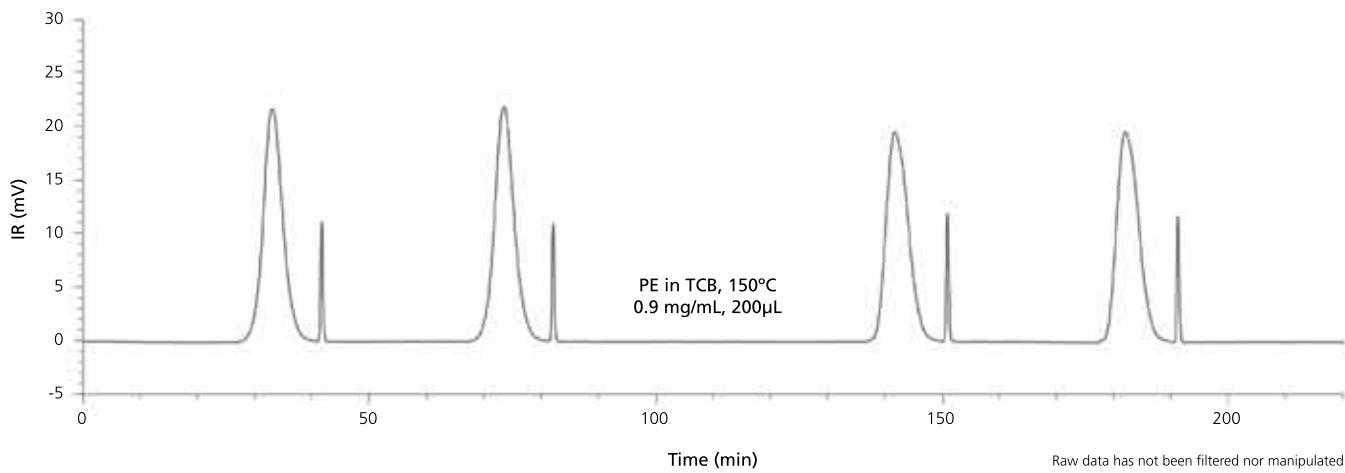
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# 2014 Polymer Division Workshops

## Additional Workshop Information

**WWW.POLYACS.NET**  
or  
**Lesia Linkous**  
**POLY Business Office**  
**Phone: 540-231-3029**  
**E-mail: LESIAR@VT.EDU**

## Workshop Chairs:

**H. N. Cheng**  
USDA  
hncheng100@gmail.com

**Rigoberto Advincula**  
Case Western  
Reserve University  
rcadvincula@gmail.com

## Committee

*Dylan Boday*  
IBM  
*Michael Hickner*  
Penn State  
*Joseph Mabry*  
AFRL  
*Robert S. Moore*  
Kodak, Ret.  
*Rakesh Nambiar*  
DuPont  
*Youngping Zha*  
UMASS Amherst

## From Anionic Polymerization to Aerospace Materials to Membranes

*A workshop in honor of Jim McGrath's 80th Birthday*

June 29-July 2, 2014  
Grand Hotel San Michele and Conference Center Cetraro, Italy

### Co-Organizers:

**Judy S. Riffle**, Virginia Tech  
judyriffler@aol.com  
**Benny D. Freeman**, University of Texas at Austin  
freeman@austin.utexas.edu  
**Robert B. Moore**, Virginia Tech  
rbmoore3@vt.edu



## Fluoropolymer 2014

October 13 - 16, 2014  
Omni Hotel, San Diego, California USA

### Co-Organizers:

**Scott T. Iacono**, US Air Force Academy  
Scott.Iacono@usafa.edu  
**Bruno Ameduri**, CNRS-Institute Charles Gerhardt, France  
bruno.ameduri@enscm.fr



## Silicon-Containing Polymers and Composites

December 14 - 17, 2014  
Omni Hotel, San Diego, California USA

### Chair:

**Joseph M. Mabry**, Air Force Research Laboratory  
joseph.mabry@edwards.af.mil



## MACROMEX 2014

December 3 - 6, 2014  
Paradise Village Resort, Nuevo Vallarta, Nayarit, Mexico

### Organizers (US):

**Krzysztof Matyjaszewski**, Carnegie Mellon University  
**Rigoberto Advincula**, Case Western Reserve University  
**Kenneth Wynne**, Virginia Commonwealth University



### Organizers (MEXICO):

Dr. Oliverio Rodríguez-Fernández, CIQA -Center for Research in Appl. Chemistry  
Prof. Beatriz García Gaytán, Instituto Tecnológico de Toluca  
Dr. Enrique Saldívar-Guerra, CIQA -Center for Research in Appl. Chemistry

# 2015 Polymer Division Workshops

## Advances in Polymers for Fuel Cells and Energy Devices

February 8-11, 2015  
Pacific Grove, California USA

Co-Organizers:

**Brian Benicewicz**, University of South Carolina

benice@sc.edu

**Tom Zawodzinski**, University of Tennessee-Knoxville

tzawodzi@utk.edu

## Advances in Materials and Processes for Polymeric Membrane Mediated Water Purifications

February 15-18, 2015  
Pacific Grove, California USA

Organizers:

**Jeffrey McCutcheon**, University of Connecticut

jeff@engr.uconn.edu

**Lauren Greenlee**, NIST

lauren.greenlee@nist.gov

**Mike Hickner**, Pennsylvania State University

hickner@matse.psu.edu

## Polymers in Medicine and Biology

September 14-17, 2015  
Hilton Sonoma, Santa Rosa, California USA

Co-Organizers:

**Buddy D. Ratner**, University of Washington

ratner@uweb.engr.washington.edu

**Judy S. Riffle**, Virginia Tech

JudyRiffle@aol.com

**Kathryn E. Uhrich**, Rutgers University

keuhrich@rutgers.edu

## Advances in Polyolefins: 2015

September 21-24, 2015  
Hilton Sonoma, Santa Rosa, California USA

Co-Organizers:

**Pal Arjunan**, Trelleborg Offshore US Inc.

pal.arjunan@trelleborg.com

**James McGrath**, Virginia Tech

jmcgrath@vt.edu

## 14th Pacific Polymer Conference

December 9-13, 2015  
Grand Hyatt, Kauai, Hawaii USA

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**Krzysztof Matyjaszewski**

Carnegie Mellon University

km3b@andrew.cmu.edu

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# POLY/ACS National Meeting Activity

<http://www.polyacs.org/8.html>

248th ACS National Meeting  
August 10-14, 2014, San Francisco, CA  
Primary Program Chair: Dylan Boday  
ACS Theme: Chemistry and Global Stewardship

- 2014 Biomacromolecules/Macromolecules Young Investigator Award
- DSM Science and Technology Award: Innovative Polymer Solutions for Biomedical Applications
- General Topics: New Synthesis and Characterization of Polymers
- Green Polymer Chemistry: Biobased Materials and Biocatalysis
- Industrial Polymer Scientist Award: Symposium in Honor of Robert D. Allen, IBM
- Industrial Innovations in Polymer Chemistry
- Metal-Containing and Metallo-Supramolecular Polymers and Materials
- Poly(2-oxazoline)s and polypeptoids
- Polymer Degradation, Performance and Ultimate Stability
- Polymers for Additive Manufacturing
- Transport in Polymer Membranes

249th ACS National Meeting  
March 22-26, 2014, Denver Colorado  
Primary Program Chair: Malika Jeffries  
ACS Theme: Chemical Resources: Extraction, Refining and Conservation

- General Topics: New Synthesis and Characterization of Polymers
- Industrial Innovations in Polymer Chemistry
- Innovations in Macromolecular Network Chemistry
- Interacting with the Immune System using Polymeric Systems
- Putting Renewable Polymers to Work
- Materials and Energy II
- Next Generation Smart Materials
- Polymer Composites for High Performance Materials
- Polymers for Oil/Gas recovery: Fracking Awesome
- Separation Science
- Synergistic R & D Opportunities with US National Laboratories to meet Global Energy Challenges
- Thermal and Transport Behavior in Polymer Nanocomposites for Energy, Safety and Sustainability

## Abstract Submission

PACS (Program and Abstract Creation System) is currently used by American Chemical Society (ACS) to submit papers and organize symposia. Go on-line to <http://abstracts.acs.org> to submit, view, edit, and prepare abstracts and program your symposia. Click on "PACS Resource Page" for helpful instructions. PACS customer service representatives are available Monday through Friday, except holidays, from 8:30 a.m. to 5:00 p.m. ET. E-mail: [pacs@acs.org](mailto:pacs@acs.org), Phone: 800-333-9511 (US only), Phone: 614-447-3776 (outside the US).

PACS is set to retire at the end of 2014. ACS is working to have a new collection and management system available for abstract submission and administration by August 2014 in preparation for the 2015 spring national meeting in Denver, CO. The updated submission process will be posted on the ACS meeting website at <http://www.acs.org/content/acs/en/meetings.html> as it becomes available.

## POLY Poster Award

POLY is pleased to announce the establishment of the POLY Outstanding Poster Awards. The purpose of this award is to increase the importance and visibility of posters being presented at ACS National Meeting in the POLY section. With this award, POLY wishes to acknowledge and reward the great effort and work put into preparing and presenting a high-quality poster.

Poster presenters are encouraged to choose "YES" for "Consider for Sci-Mix", as you submit an abstract. This will give poster presenters an opportunity to participate in an additional poster session called Sci-Mix, which is held on Monday evening during the ACS meeting. Organizers review submissions and select the top 10% to participate. The POLY Poster Award Panel review posters in Sci-Mix on-site and select the top 2 POLY poster presentations to receive the award. The award is presented at the ACS National Meeting during the POLY/PMSE Awards Symposium held Wednesday afternoon.

## POLY Program Chairs

**Dylan Boday**  
IBM Materials Engineering  
[dboday@us.ibm.com](mailto:dboday@us.ibm.com)

**Scott T. Iacono**  
US Air Force Academy  
[scott.iacono@usafa.edu](mailto:scott.iacono@usafa.edu)

**Malika Jeffries**  
Iowa State University  
[malikaj@iastate.edu](mailto:malikaj@iastate.edu)

## Future ACS National Meetings

248th - August 10-14, 2014  
San Francisco, California  
Theme: Chemistry and Global Stewardship

249th - March 22-26, 2015  
Denver, Colorado  
Theme: Chemistry of Natural Resources

250th - August 16-20, 2015  
Boston, Massachusetts  
Theme: Innovation from Discovery to Application

251st - March 13-17, 2016  
San Diego, California  
Theme: Computers in Chemistry

252nd - August 21-25, 2016  
Philadelphia, Pennsylvania  
Theme: Chemistry of the People, by the People, and for the People

**Future Meetings:**  
<http://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html>

## Congratulations Spring 2014 POLY Outstanding Poster Award

**Amanda Cain**  
Texas A&M University  
Poster: Chitosan-Based Multilayer Nanocoating Extinguishes Flame on Polyurethane via Gas Blanket Mechanism

**Keith Johnson**  
Georgia Institute of Technology  
Poster: Processing of Electrochromic Conjugated Polymers: Improved Film Adhesion by Surface Modification



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# POLY Councilors' Report

by F. Blum, B. Daly, M. A. Meador, & J. Pochan

At the Dallas National Meeting (March 16-20, 2014), POLY was represented at the ACS Council by Bill Daly, John Pochan, Frank Blum, and Mary Ann Meador. The following account summarizes some selected activities in the committees and groups that POLY Councilors are involved in.

**Council Actions** (abbreviated): *2015 Member Dues*: The Council voted to set the member dues for 2015 at the fully escalated rate of \$158. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

*Divisional Allotment Formula*: After voting to postpone its implementation by one year, the Council voted to approve a revised formula for allocating dues funds to divisions. This formula, which was presented by the Committee on Divisional Activities, will be effective with allocations for 2015 division performance.

*Election Results*: By electronic ballot, the Council selected Peter K. Dorhout and William A. Lester, Jr. as candidates for 2015 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

**Committee on Meetings and Expositions (J. Pochan)**: *Presentations on Demand (POD)*: POD has received permission to record 179 presentations representing 27 Divisions, committees and Presidential events at the 2014 Spring National Meeting in Dallas. At present there are >1,200 presentations and posters available for viewing in POD. Spring and Fall 2013 national meeting recordings are available to members only. Fall 2012 national meeting and the 2012 Green Chemistry and Engineering conference are freely available to the public. Visitations to the POD site almost doubled in the last 6 months of 2013.

*Abstract replacement system (Scholar One)*: Development status –Scholar One has advised ACS that a 100% off line process will provide the best opportunity for a successful launch of the system. This will require ACS to hire staff to work with program chairs as the chairs will not have access to the system initially. These positions will be titled Division Staff Advocates. This spring training sessions are planned for program using a ‘mock’ national meeting. The system will be fully operational for the Denver meeting. Abstract submission for the Denver meeting may be moved to December 15, 2014. This will be a test to ascertain if the ‘system’ can handle a later submission date. If successful, the abstract overlap problems associated with programming will be eliminated.

## Future thematic titles - MPPG

- Fall 2014 San Francisco - Theme: Chemistry and Global Stewardship  
Organizer: Robin Rogers, University of Alabama
- Spring 2015 Denver - Theme: Chemistry of Natural Resources  
Organizer: Robert Weber, Pacific Northwest National Laboratory
- Fall 2015 Boston - Theme: Innovation from Discovery to Application  
Organizer: Carston (Rick) Wagner, University of Michigan
- Spring 2016 San Diego - Theme: Computers in Chemistry  
Organizer: Kenneth Merz, Michigan State University
- Fall 2016 Philadelphia - Theme: Chemistry of the People, by the People and for the People  
Organizer: Rudy Baum, ACS (Retired Editor-in-Chief, C&EN)
- Spring 2017, San Francisco - Advanced Materials, Technologies, Systems and Processes (to be vetted by divisions)
- Fall 2017, Washington, DC - Chemistry's impact on the Global Economy (to be vetted by divisions)

**Council Policy Committee (CPC) (F. Blum)**: The members of the CPC are working on compressing the election cycles for President-Elect, reviewing Council-related expenses, and ensuring that ACS Council Meetings are run effectively.

**Divisional Activities Committee (DAC) (M. A. Meador)**: *Mass e-mail system being rolled out by ACS*: Magnet mail is being rolled out to divisions as a free service from ACS to better communicate with members. The mail service which will be available to all divisions later this year will provide the ability to send mass e-mails to the whole division or target special interests. The e-mail system will also allow members to easily subscribe or unsubscribe to the list.

*Partners for Prosperity Award announced*: Recent past ACS President Marinda Wu announced a new award to recognize successful partnerships resulting in impactful outcomes in public perception of chemistry, promotion of chemistry careers or entrepreneurship, advocacy or STEM education. Divisions partnering with local sections are eligible.

*National Awards Equity Committee formed*: An oversight committee has been formed to examine the issue of women and minority representation in nominations for national awards and the ACS Fellows Program. Goals of the committee include increasing the nominee pool for national awards and having the nominee pool better reflect the diversity of the chemical enterprise.

# POLY Elections Information

The on-line POLY election was held Fall 2013 with a success of over 19% membership participation. POLY anticipates a repeat performance with our 2014 on-line election.

The slate of candidates for the fall election has been selected by the nominating committee and approved by the Executive Committee and listed below for your review.

An e-mail will be sent to all voting members this fall which will contain a web site address and login instructions for the on-line election. If you do not have an e-mail address on file, a postcard with the information will be sent by mail. If you would like to update your membership address or e-mail contact information, please contact ACS membership services at 1-800-333-9511 or e-mail: services@acs.org.

## 2014 Election Slate

### Vice Chair:

Mark Dadmun, University of Tennessee  
Marc Hillmyer, University of Minnesota

### Treasurer:

Scott Iacono, US Air Force Academy  
Derrick Patton, University of Southern Mississippi

### Councilor:

Bill Daly, Louisiana State University  
Robert B. Moore, Virginia Tech

### Alternate Councilor:

Christine Landry-Coltrain,  
Eastman Kodak, Company  
Jeff Linhardt, Google, Inc.

## Congratulations Newly Elected Officers

### Vice-Chair

Karl Haider, Bayer MaterialScience LLC

### Secretary

Cher Davis, Chemical Science, NIST

### Councilor

John Pochan, Graphene Devices Limited

### Councilor

Frank Blum, Oklahoma State University

### Alternate Councilor

Brent Sumerlin, University of Florida

### Alternate Councilor

Semra Colak, 3M Company



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To post items on the web site contact  
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[christine.landry-coltrain@kodak.com](mailto:christine.landry-coltrain@kodak.com)

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