

SPRING 2013

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polymer



American Chemical Society

Division of Polymer Chemistry, Inc.

Editors: Kathy L. Mitchem and Sarah E. Morgan



Gregory N. Tew
2013 Chair

Chair's Address

It is with great pleasure that I am able to serve the ACS Division of Polymer Chemistry as its 2013 Chair. Our Division is the premier destination for Polymer Scientists around the globe, with regular participation from recognized leaders in Polymers world-wide. As Chair, there is a long and storied history of outstanding leadership and I look forward to continuing this tradition.

Last year witnessed an important transition for the Division with respect to publications. After many years of thoughtful deliberation, POLY pre-prints were retired and replaced with graphical abstracts (GA). The Executive Committee and Board are excited about this next evolution for POLY. All members are, and will be able, to access the compiled GA document. For anyone who has not seen this first edition, download information is available at <http://www.polyacs.org/11.html>. I encourage you to examine this publication and provide any comments to me, or any other member of the Executive Committee. In addition, further development of the GAs is an important opportunity for anyone interested in becoming a more active volunteer within the Division.

During the Winter Executive Committee meeting, many of POLY's leaders participated in a Strategic Planning Workshop. Your leadership thought it was perfect timing for POLY to undertake this process so we partnered with the ACS Leadership Advisory Board's Strategic Planning group and spent 1.5 days carefully considering the needs of POLY. Everyone involved agreed that this activity was tremendously useful and has provided a concise list of actionable items for POLY to accomplish over the next several years. More details are available at <http://www.polyacs.org/1054.html>, but an overview is provided in the next paragraph.

Given our excellent record with respect to educational activities, both within POLYED, IPEC, and programming, this was not an area of focus. Instead, we spent most of our time examining ways to expand the participation of our industrial members, improving our use of electronic media for disseminating information to our members, and



Strategic Planning

increasing our exposure to younger scientists. Within each goal, there is a list of four specific strategies. The web-link above provides the name of each Champion and I encourage you to contact them to support this project and get more engaged with the future of your Division.

Finally, I would like to recognize our awardees for 2013. The class of 2013 POLY Fellows includes Dr. Pal Arjunan, Prof. Robert Cohen, Dr. Babu Gaddam, Prof. Heather Maynard, Prof. Ulrich Schubert, and Prof. Marcus Weck. Prof. Zhenan Bao was awarded the Carl S. Marvel Creative Polymer Chemistry Award. Dr. Christine Landry-Coltrain received a Distinguished Service Award. Mallory L. Hammock and Wei-Fan Kuan received Graduate Student Travel Awards and Student Chapters at the University of Delaware, the University of Florida, and the University of Southern Mississippi received Student Chapter Awards. All of these distinguished individuals and groups were recognized at the ACS National Meeting held in April. Professors Raffaele Mezzenga and David Michael Lynn are the winners of the 2013 Biomacromolecules/Macromolecules Young Investigator Award lectureships. The Mark Award winners include Professors Ken Wagener, Rigoberto Advincula, and Rachel O'Reilly. These individuals will be recognized at the Fall National Meeting in Indianapolis.



POLY Executive Dinner, ACS National Meeting
New Orleans, LA - April 2013



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Congratulation POLY Award Recipients!

A symposium to honor several of these awardees will be held at the 2013 Fall ACS National Meeting, in Indianapolis, Indiana. All awards will be presented at the POLY/PMSE Awards Ceremony on Wednesday evening. Additional details can be found in the ACS National Meeting Program this summer.



**Herman F. Mark
Polymer Chemistry
Award**
Kenneth Wagener
University of Florida

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Elsevier*



**Mark Scholar
Award**
Rigoberto Advincula
Case Western
Reserve University

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**Mark Young
Scholar Award**
Rachel O'Reilly
University of
Warwick

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**AkzoNobel Award
for Outstanding
Graduate Research
in Polymer
Chemistry**
Hua Lu
University of Illinois-
Urbana-Champaign

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**The Charles G.
Overberger Award**
James McGrath
Virginia Tech

*Sponsor
ACS/POLY/PMSE*

Graduate Student Travel Award

Abhay Sham Joijode
North Carolian State University
Bin Tan
University of Massachusetts-Lowell

DSM Science & Technology Award Finalists

Christopher Bates, University of Texas-Austin
Shiyi Zhang, Texas A&M University
Abhijeet Bapat, University of Florida
Erin Wiesenauer, University of Colorado-Boulder

Upcoming POLY Award Deadlines

The Paul J. Flory Polymer Education Award

Deadline – 7/1/13

Sponsored by: Albermarle

Purpose: To recognize, encourage, and stimulate outstanding achievements by an individual or team in promoting undergraduate and/or graduate polymer education.

Industrial Polymer Scientist Award

Deadline – 7/31/13

Sponsored by:

POLY Industrial Advisory Board

Purpose: To recognize outstanding industrial innovation and creativity in the application of Polymer Science, conducted by individual scientists or research teams.

POLY Fellows Award

Deadline - 11/30/13

Sponsored by: POLY

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.

POLY Graduate Travel Award

Deadline – 10/1/13

Sponsored by:

POLY Industrial Advisory Board

Purpose: To provide funding for polymer graduate students to travel to the National ACS meeting to present the results of their research.

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

<http://www.polyacs.org/>
then click on "AWARDS"

or contact:
Kathy Mitchem
POLY Business Office
540-231-3029

Awards Co-Chairs

Kenneth Carter
University of Massachusetts- Amherst,
Phone: 413-577-1416
E-mail: kcarter@polysci.umass.edu

Marc A. Hillmyer
University of Minnesota
Phone: 612-625-7834
E-mail: hillmyer@umn.edu

9th Excellence in Polymer Graduate Research Symposium

The 9th "Excellence in Polymer Graduate Research" symposium took place at the national ACS meeting in New Orleans, LA, on April 7-11, 2013. The purposes of this symposium is 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. This symposium was publicized via the POLY list server, POLY web page, and direct e-mail messages to over 100 departments that are active in polymer research. Each department was encouraged to nominate one outstanding graduate student to speak on their original research. Each student completed an application form and included a nominating letter from the research advisor and department head.

This year there was a record number of 42 submissions including a very high caliber of student papers. The symposium was organized into four half-day oral sessions, a poster session, and a networking social. In the oral sessions on Sunday and Monday, 28 students gave talks on their papers, and in the Tuesday poster session 14 students presented their work. These oral and poster sessions went very well. Many graduate students asked questions during the talks, and it was enjoyable to see interaction during and after the sessions.

As part of the recognition, each student received a certificate plus a cash award. Dr. Marinda Li Wu, 2013 ACS President, personally visited the symposium and spoke to the students, encouraging them to excel in their work. Professor Gregory Tew, 2013 Chair of the ACS Polymer Chemistry Division, also came to the symposium and interacted with the students. A reception followed where the students mingled with the participants of the POLY Undergraduate Symposium.

The symposium was organized by the ACS Polymer Chemistry Division (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 and Industrial Advisory Board of the Polymer Division (IAB). Symposium Organizing Committee included H. N. Cheng (POLY Alt. Councilor), Christopher Ellison (POLY Member), Christine Landry-Coltrain (POLY Alternate Councilor), and Timothy E. Long (POLY Past Chair).

Presentations:

Brooks Abel, Univ. of Southern Mississippi
Christopher Bates, Univ. of Texas
Miao-Ping Chien, Univ. California, San Diego
Peter DeMuth, MIT
Amanda Glover, Univ. of Alabama
Nacu Hernandez, Iowa State
Joshua Kaitz, Univ. of Illinois
Lawrence Hill, Univ. of Arizona
Frank Leibfarth, Univ. of California, Santa Barbara
Yiwen Li, Univ. of Akron
Dongcui Li, Univ. of Delaware
Ying Liu, NC State Univ.
Gregory Newbloom, Univ. of Washington
Ashley Nelson, Virginia Tech
Rachelle Arnold, Univ. of Georgia
Kevin Reuter, Univ. of North Carolina
Nisarg Shah, MIT
Avantika Singh, Univ. of Houston
Zachary Smith, Univ. of Texas
Stefanie Sydlík, MIT
Anand Viswanath, Univ. of South Carolina
Amanda Way, Case Western Reserve Univ.
Yue (Jessica) Wang, UCLA
Ryan Weber, Univ. of Wisconsin
Scott Zavada, Univ. of Michigan
Shiyi Zhang, Washington Univ. in St. Louis
Mingjiang Zhong, Carnegie Mellon Univ.
Jiahua Zhu, Univ. of Delaware

Poster Session

Mahesh Bhatt, Univ. of Texas at Dallas
Xiaochu Ding, Michigan Technological Univ.
Alper Gurarslan, NC State Univ.
Mallory Hammock, Stanford Univ.
Jingquan Han, LSU
Ragini Jetty, Clemson Univ.
Brandon Kobilka, Iowa State Univ.
Yen-Hao Lin, Rice Univ.
Corman Park, East Michigan Univ.
Nitin Patil, Oklahoma State Univ.
Junia Pereira, Virginia Tech
Cornelia Rosu, LSU
Tiffany Suekama, Univ. of Kansas
Erick Vasquez, Mississippi State Univ.
Yun Yu, Univ. of Buffalo



Division of Polymer Chemistry's Industrial Advisory Board

Program * Educate * Award

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and Diana Gerbi, 3M Company, djgerbi@mmm.com



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Dow Chemical Company



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Chemical Company



Kimberly-Clark



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Innovations.



Tyco Electronics

polyMATERIALS
creative polymer technologies

ROCHAL
INDUSTRIES



United Technologies
Research Center



8th Undergraduate Research in Polymer Science Symposium

The eighth annual Undergraduate Research in Polymer Science Symposium was held at the New Orleans National Meeting, with a record 22 oral and 40 poster presentations from 31 universities across the country, more than double the size of previous symposia. The National Science Foundation Division of Materials Research sponsored travel awards for the top sixteen abstracts. The POLYEd committee sponsored a breakfast workshop on reviewing research articles and presentations for undergraduates. The POLY Industrial Advisory Board sponsored \$500 awards for the best paper and the best poster presentation. The symposium featured a key-note lecture from Prof. Kristi L. Kiick entitled "Biopolymer Hydrogels for Cardiovascular Surgery" followed by a discussion of the research and career opportunities for polymer scientists. The program was co-sponsored by POLY, The Society Committee on Education, 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. NSF travel award winners were: Lauren Agoubi, Williams College, Christine Archuleta, University of North Carolina-Chapel Hill, Richard Carmean, Virginia Tech, Lindsey Cobb, University of Alabama, John Edelbrock, Case Western Reserve University, Anna Falls, Ashland University, Abigail Abigail, University of Akron, Zoe Glick, Loyola, Ethan Harak, Rockhurst University, Matthew Kahabka, Clarkson University, Tristan Kleine, University of California Polytechnic at San Louis Obispo, Emily Lasselle, Western Washington University, Odin Achorn, University of New Hampshire, Michael Sims, University of Southern Mississippi, Nicole Traphagen, Clarkson University, and Wade Wang, University of Texas. The best paper award was presented to Leon Dean, University of Texas and the best poster award was presented to Emily Lasselle of Western Washington University by Diana Gerbi and Semra Colak of the POLY IAB. The symposium was organized by Sarah Morgan, Sergei Nazarenko and Dan Savin of The University of Southern Mississippi, and Sarah Goh and Christopher Goh of Williams College.

Industrial Advisory Board Best Undergraduate Oral and Poster Award

1st Place Oral Presentation

Leon Dean
University of Texas
Block Copolymer
Nanostructures for Roll
to Roll Manufacturing
of Photovoltaic Devices



1st Place Poster Presentation

Emily Lasselle
Western Washington
University
Synthesis and
Characterization of
Thiophene-based
Conducting Polymers
for use as Artificial
Muscles



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POLY Recognizes Outstanding Members!

The POLY/PMSE awards reception, held at the ACS National Meeting in New Orleans, LA, honored outstanding achievements by its members. 2013 POLY Chair, Gregory Tew, had the pleasure of congratulating this year's POLY award winners. In addition to the following awards, the POLY Student Chapter Award was presented at this reception and is covered in separate articles on page 14.

2013 Carl S. Marvel Creative Polymer Chemistry Award: The Division was delighted to present the 2013 Carl S. Marvel Creative Polymer Chemistry Award to Professor Zhenan Bao from Stanford University. Professor Bao leads a dynamic research program focused on the synthesis, characterization, and processing of polymeric and other soft materials for myriad flexible electronic applications. She has successfully translated fundamental findings in her laboratory into useful technologies for carbon nanotube electronic type sorting, pressure and chemical sensing, and stretchable electronic devices. Professor Bao is without a doubt among the world leaders in the field of organic semiconductor polymers and materials, and the POLY Division is proud to have her join the ranks of Carl S. Marvel Creative Polymer Chemistry Awardees. Professor Bao received her Ph.D. degree in chemistry from The University of Chicago in 1995 and joined the Materials Research Department of Bell Labs, Lucent Technologies. She became a Distinguished Member of Technical Staff in 2001. She joined the faculty of the Stanford University, Chemical Engineering Department in 2004. Professor Bao has more than 300 refereed publications and more than 40 US patents. She was elected a SPIE Fellow in 2008 ACS PMSE fellow in 2011, ACS Fellow in 2011 and AAAS Fellow in 2012. A few of her many awards include the ACS Cope Scholar Award in 2011, the Royal Society of Chemistry Beilby Medal and Prize in 2009, and the IUPAC Creativity in Applied Polymer Science Prize in 2008.

The Carl S. Marvel Award is sponsored by **Albemarle** and POLY was honored to have Kevin Coppola in attendance to present the award. The award was established in 1980 to recognize and encourage accomplishments and/or innovation of unusual merit in the field of basic or applied polymer science by younger scientists.

POLY Fellows and Distinguished Service Awards: Christine Landry-Coltrain (Eastman Kodak Company) received the 2013 Distinguished Service Award in recognition of dedication to the POLY Webpage development and implementation.

Six outstanding POLY members were honored recipients of the 2013 POLY Fellows Award for their outstanding achievements and contributions to Polymer Science and the Profession. Recipients include: Pal Arjunan, (Trelleborg Offshore-US), Robert Cohen (Massachusetts Institute of Technology), Babu Gaddam, (3M Company), Heather Maynard (University of California-Los Angeles), Ulrich S. Schubert (Friedrich Schiller University), and Marcus Weck (New York University).

Graduate Student Travel Awards: The Graduate Student Travel Awards were once again organized by the Polymer Division Membership Committee and sponsored by the POLY Industrial Advisory Board. The awards for the New Orleans, ACS meeting were received by Mallory L. Hammock (Stanford, California), "*Non-Covalent Incorporation of Specific Binding Sites onto Organic Transistors Via Block-Copolymer Templating*", and Wei-Fan Kuan (University of Delaware) "*Interfacial Modification Effects on the Self-Assembly of Lithium-Doped Block Copolymers*".

The Travel Awards are given at each ACS meeting to provide funding for polymer graduate students to travel to the National ACS meeting to present the results of their research. For additional information visit: <http://www.polyacs.org/649.html>.

Plenary Lecture: The awards reception featured a Plenary Lecture, Larry Wendling (3M), who presented, "*3M Technologies and Applications Related to Energy Market Opportunities*", which coincided with the ACS National meeting theme, *Chemistry of Energy and Food*".

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! Additional award information can be viewed on-line at WWW.POLYACS.ORG.



(l-r) MARVEL AWARD: Zhenan Bao (Stanford University), Gregory Tew (POLY Chair), and Kevin Coppola (Albemarle)



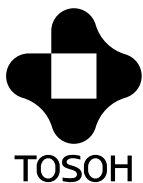
(l-r) DISTINGUISHED SERVICE: Christine Landry-Coltrain (Eastman Kodak Co.) and Gregory Tew (POLY Chair)



POLY FELLOWS: (l-r) Marcus Weck (New York University), Gregory Tew (POLY Chair), Babu Gaddam (3M Company), Pal Arjunan (Trelleborg Offshore-US), and Heather Maynard (University of California, Los Angeles)



PLENARY LECTURE (l-r) Larry Wendling (3M) and Gregory Tew (POLY Chair)



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POLY Councilors' Report, New Orleans, LA

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

At the New Orleans, National Meeting (April 7-11, 2013), all four POLY Councilors attended the ACS Council meeting. The following account summarizes some selected activities in the Council and in committees and task forces that POLY Councilors are involved in.

General Topics:

1. The Philadelphia national meeting attracted 15,596 registrants, including 8,084 regular attendees and 5,790 students. The meeting had 11,232 papers presented.
2. ACS membership is declined slightly; we are down to 163,322, a net loss of 893 members. The number of domestic regular members has declined because some members are not renewing their memberships. The Membership Affairs Committee (MAC) will reward members who recruit new members with an ACS Periodic Table Throw. Go to acs.org/MemberGetMember to get yours.
3. The Committee on Nominations and Elections (N&E) presented to the Council the following nominees for selection as candidates for President-Elect, 2014: G. Bryan Balazs, Charles E. Kolb, Jr., Carolyn Ribes, and Diane Grob Schmidt. By electronic ballot, the Council selected G. Bryan Balazs and Charles E. Kolb, Jr. as candidates for 2014 President-Elect.
4. The Council rejected an amendment (petition) to the ACS Constitution and Bylaws for action: The Petition on Amend National Election Procedures. The petition sought to allow N&E to nominate only two candidates for President-Elect. Council would still have an option to nominate candidates from the floor.
4. The Council approved annual dues of \$154. M&E is recommending an advance member registration fee of \$380 for national meetings held in 2014.
5. The Board of Directors voted to establish a Senior Chemists Committee.

Despite the sluggish economy, ACS generated favorable operating results in 2012. Total revenue was \$490.7 million, which was \$6.1 million or 1.3% greater than the approved budget, and 3.9% higher than 2011. The Net from Operations was \$20.2 million, or \$4.3 million favorable to budget. This was largely attributable to better-than-expected performance by ACS Publications and CAS, and represents the Society's 9th consecutive year of positive operating results. While operating performance was favorable, Unrestricted Net Assets declined \$1.4 million to \$100.6 million. Finally, ACS ended the year in compliance with four of the five Board-established financial guidelines.

Council Policy Committee (CPC) – Frank Blum: The CPC (an elected committee of Council) developed a slate of potential nominees for the Committee on Nominations and Elections. CPC also voted to establish Task Forces to look at the Councilor reimbursement policy and (joint with Nominations and Elections) the timelines for Presidential selection.

Division Activities Committee (DAC) - Mary Ann Meador:

The Divisional Activities Committee (DAC) received a request from the Division of Colloid and Surface Chemistry to change its name to the Division of Colloids, Surfaces and Nanomaterials. Six divisions have registered opposition to the proposed name, largely due to the use of the term 'nanomaterials'. DAC will ask Council to vote on the new name in Indianapolis, with a recommendation to approve.

Meetings and Expositions (M & E) – Bill Daly:

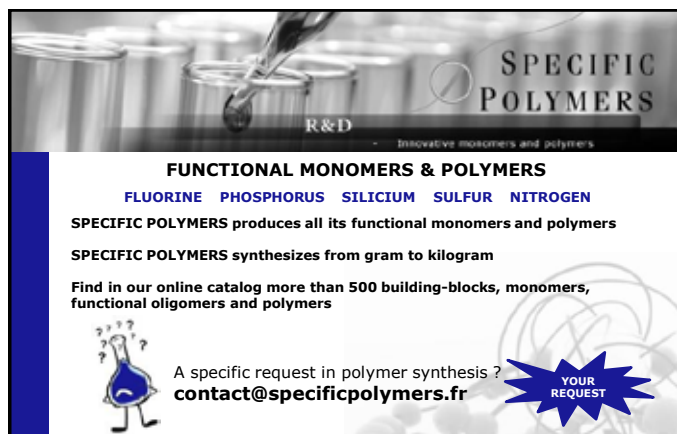
Board Chairman Bill Carroll has formed a task force to review all aspects of national meeting operations. The site selection subcommittee has been placed in hiatus pending the findings of this task force.

The 2013 Fall meeting in Indianapolis is in an excellent venue; members are strongly encouraged to attend. The Indianapolis Speedway will be featured in a number of events.

The committee reviewed the status of ACS-POD. A charge for viewing the presentations from Philadelphia was imposed for the first time; very limited billings were processed. However, there was good traffic; hits increased 165% in 2012 and more presenters were willing to participate. The new editor, Jerry Skolnicki, has established a policy for presentation formats and is expecting authors to follow the copyright rules for a scientific publication. He is building an editorial board from volunteers from selected divisions. The Archive recordings for the San Diego and Philadelphia meetings are available at: <http://presentations.acs.org>.

In 2015, the abstract entry system (PACS) must be replaced. A Volunteer Advisory Group representing M&E, DAC, and PACS Advisory Board and Program Chairs has reviewed four vendors – evaluating ability to meet ACS' requirements, ease of submission, program navigation and offline processes. The top two vendors will be asked to present prototypes that will be tested by the Advisory Group, a select group of Program Chairs/Session Organizers and staff by participating in mock meetings in early 2014. Division volunteer training will be initiated in Spring 2014 with an anticipated roll out of the new system in time to handle the abstract submissions for the Spring 2015 meeting. ACS is increasing staff levels to give Divisions the ability to have a designated staff person to assist with organizing the program in the abstract system so volunteers can focus more on content and less on organizational and administrative duties.

The word limit for abstracts was increased to 300 words effective on January 2013 for the opening of submission for the Indianapolis meeting. This will allow POLY to produce the graphical abstracts that are replacing Polymer Preprints.



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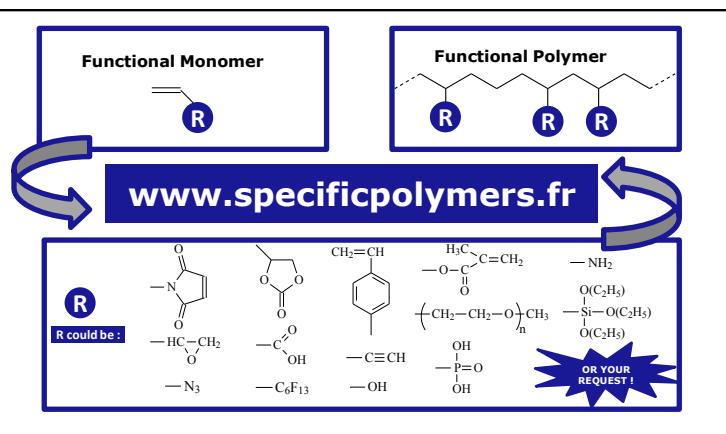
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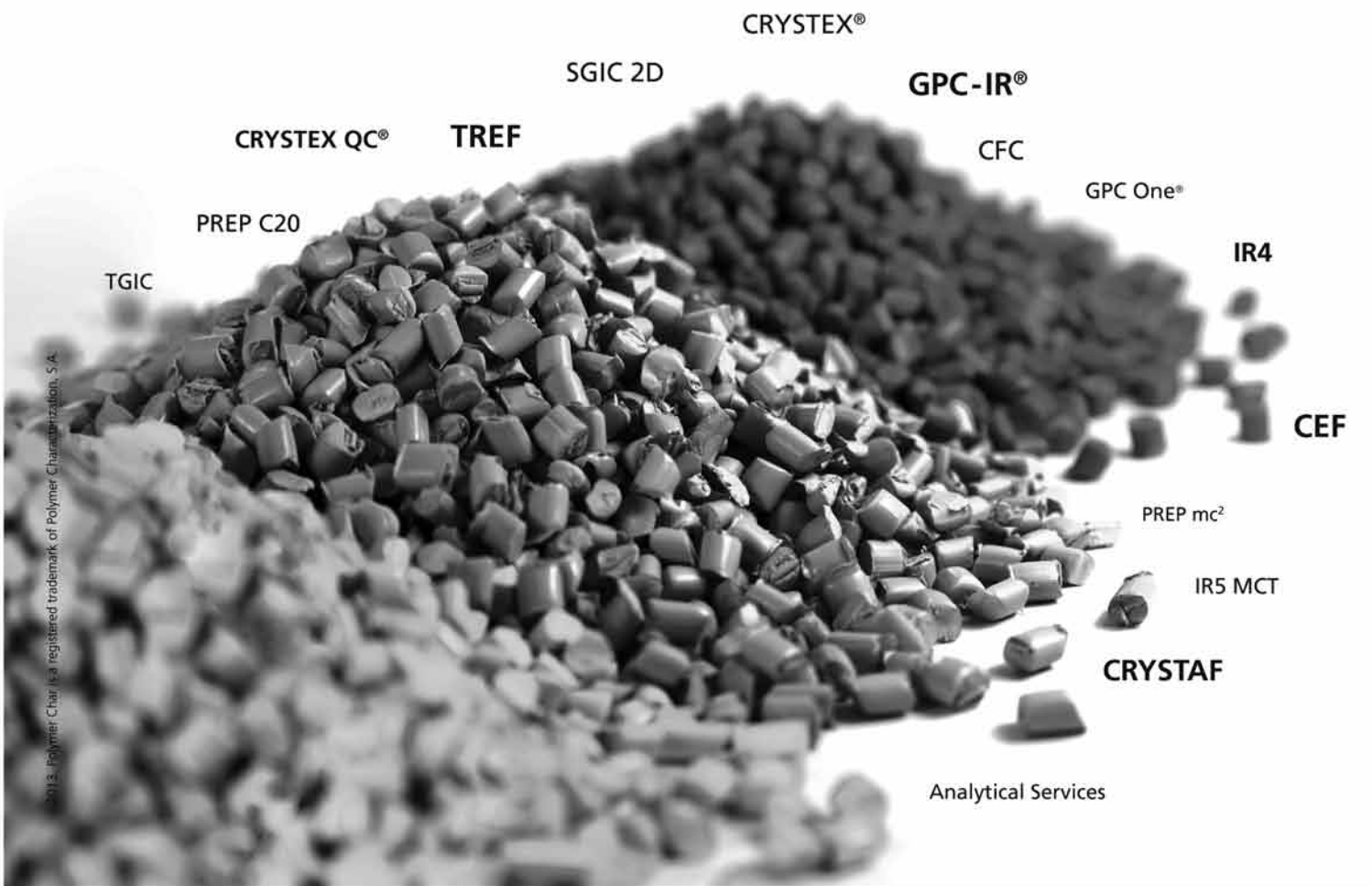
Functional Polymer
 $\text{---}[\text{CH}_2\text{---R}]_n\text{---}$

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R could be:

- $\text{---N}(\text{C}_2\text{H}_5)_2$
- $\text{---HC(=O)CH}_2\text{---}$
- ---N_3
- $\text{---C(=O)OCH}_2\text{---}$
- $\text{---C}_6\text{F}_{13}$
- $\text{CH}_2=\text{CH}$
- $\text{---C}\equiv\text{CH}$
- ---OH
- ---O---C(=O)---
- $\text{---C}_6\text{H}_4\text{---}$
- $\text{---C(CH}_3)_2\text{---}$
- ---P(=O)(OH)---
- ---NH_2
- $\text{---Si(O(C}_2\text{H}_5)_3)_2\text{---}$

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Additional Workshop Information

Visit the web page:
WWW.POLYACS.NET

or contact

Lesia Linkous
POLY Business Office
540-231-3029
LESIAR@VT.EDU

Workshop Co-Chairs

H. N. Cheng
USDA
hncheng100@gmail.com

Gobet Advincula
Case Western Reserve
University
rca41@case.edu

Committee
Dylan Boday, *IBM*
Michael Hickner, *Penn State*
Joseph Mabry, *AFRL*
Robert S. Moore, *Kodak, Reti.*
Rakesh R. Nambiar, *Dupont*
Youngping Zha, *UMASS Amherst*

***Workshop
proposals
are being
accepted at
this time***

[www.polyacs.net/
workshopshub.htm](http://www.polyacs.net/workshopshub.htm)

2013 Polymer Division Workshops

Polymer Composites and High Performance Materials

July 21 - 24, 2013

Hilton Sonoma Hotel, Santa Rosa, California, USA

Organizers:

Sarah E. Morgan, University of Southern Mississippi, sarah.morgan@usm.edu, 601-266-5296
Daniel A. Savin, University of Southern Mississippi, daniel.savin@usm.edu, 601-266-5395
Michael A. Meador, NASA Glenn Research Center, Michael.A.Meador@nasa.gov, 216-433-9518
Mary Ann Meador, NASA Glenn Research Center, maryann.meador@nasa.gov, 216-433-3221
Jeffrey Gilman, National Institute of Standards & Technology, jeffrey.gilman@nist.gov, 301-975-6573
Frederick Phelan Jr., National Institute of Standards & Technology, frederick.phelan@nist.gov, 301-975-6761

The Polymer Composites and High Performance Materials workshop will bring together researchers from industrial, academic and government laboratories to discuss the state-of-the-art in polymer matrix science for aerospace, marine and infrastructure composite applications. The purpose of this workshop is to address key challenges and advances in the area of polymer composites, with specific emphasis on addressing fundamental structure-processing-property issues.

Topics:

- Nanocomposites
- Biocomposites
- Material Genome Initiative
- Molecular & Continuum Modeling
- Resins and Matrix Polymers
- Applications

Polymers in Medicine and Biology: 2013

October 9-12, 2013

Hilton Sonoma, Santa Rosa, California, USA

Organizers:

Buddy D. Ratner
University of Washington
Engineered Biomaterials
Box 351720,
Seattle, WA 98195
Phone: 206-685-1005
Ratner@uweb.engr.washington.edu

Judy S. Riffle
Virginia Tech
Department of Chemistry
Blacksburg, VA 24061-0344
Phone: 540-231-8214
Fax: 540-231-8517
JudyRiffle@aol.com

Kathryn E. Uhrich
Rutgers University
Department of Chemistry
Piscataway, NY 08855-0939
Phone: 732-445-0361
Fax: 732-445-7036
keuhrich@rutgers.edu

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Among other topics, the event will include sessions on:
Biodegradable Polymeric Stent
Biomaterials Entrepreneurship

Advances in Polyolefins 2013

October 13 - 16, 2013

Hilton Sonoma, Santa Rosa, California, USA

Co-Organizers:

Buddy D. Ratner
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Kathryn E. Uhrich
Rutgers University
Phone: 732-445-0361
keuhrich@rutgers.edu

Judy S. Riffle
Virginia Tech
Phone: 540-231-8214
JudyRiffle@aol.com

Topics Include:

- * Polyolefins Catalysis/Processes
- * Advanced Characterization Tools/Techniques
- * Solid State Structure/Properties/Mechanical Behavior
- * Stabilization
- * Blends/Alloys/Composites
- * Applications/Markets
- * Environmental Compatibility
- * Recycling/Sustainable Development/Biodegradation

Preliminary program now available online at:

<http://polyacs.net/Workshops/13Polyolefins/home.htm>



Future Polymer Division Workshops

11th National Graduate Students Conference

May 21-23, 2014, Louisiana State University, Baton Rouge, LA

Organizing Committee:

John A. Pojman, Louisiana State University
john@pojman.com - 225-238-1140
Bill Daly, Louisiana State University
chdaly@lsu.edu - 225-578-3237
Daniel Hayes, Louisiana State University
danielhayes@lsu.edu - 225-578-2919
Derek Patton, University of Southern Mississippi
601-266-4229
Paul Russo, Louisiana State University
chruss@lsu.edu - 225-578-5729
David Spivak, Louisiana State University
dspivak@lsu.edu - 225-578-2868
Donghui Zhang, Louisiana State University
dhzhang@lsu.edu - 225-578-4893

Advanced Polymeric Materials for Energy, Health and the Environment *(A workshop in honor of Jim McGrath's 80th Birthday)*

June 29-July 3, 2014, Grand Hotel San Michele, Cetraro, Italy

Organizers:

Judy S. Riffle, Virginia Tech,
judyriffle@aol.com - 540-231-8214
Benny D. Freeman, University of Texas at Austin
freeman@austin.utexas.edu - 512-232-2803

Silicon Containing Polymers and Composites

December 2014, San Diego, California, USA

Chairs:

Joseph Mabry, Air Force Research Laboratory
joseph.mabry@edwards.af.mil - 661-275-5857

Pacific Polymer Conference 14-“PPC-14”

December 10-13, 2015, Grand Hyatt Kauai Resort and Spa, Kauai, HI

Chair:

Krzysztof Matyjaszewski, Carnegie Mellon University
km3b@andrew.cmu.edu

Organizing Committee:

Roberto Advincula, Case Western Reserve University
H. N. Cheng, USDA
William H. Daly, Louisiana State University
James E. McGrath, Virginia Tech
Robert B. Moore, Virginia Tech
Joseph C. Salamone, Rochal Industries
Dennis W. Smith, Jr., University of Texas at Dallas
Tom W. Smith, University of Rochester
Kenneth Wynne, Virginia Commonwealth University
Peter Zarras, US Navy

POLY Elections Information

The on-line POLY election was held Fall 2012 with a success of over 19% membership participation. POLY anticipates a repeat performance with our 2013 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.

Congratulations New 2013 Officers

Vice-Chair

Rigoberto Advincula
Case Western Reserve

Councilor

Mary Ann Meador
NASA Glenn Research Center

Member-At-Large

Michael Meador
NASA Glenn Research Center

Alternate Councilor

Michael Hickner
Pennsylvania State University

2014 Election Slate

Vice Chair:

H. N. Cheng, USDA Southern Regional Research Center
Karl Haider, Bayer MaterialScience

Secretary:

Cher Davis, NIST
Michael Meador, NASA Glenn Research Center

Councilor:

John Pochan, Graphene Devices Limited
Kirt Page, NIST

Councilor:

Frank Blum, Oklahoma State University
Thomas Smith, Rochester Institute of Technology

Alternate Councilor:

Jon Pokorski, Case Western Reserve University
Brent Sumerlin, University of Florida

Alternate Councilor:

Semra Colak, 3M
Derek Patton, University of Southern Mississippi

POLY Program Chairs

Dylan Boday
IBM Materials Engineering
dboday@us.ibm.com

Scott T. Iacono
US Air Force Academy
scott.iacono@usafa.edu

Sheng Lin-Gibson
NIST
sheng.lin-gibson@nist.gov

Jeffrey Youngblood
Purdue University
jpyoungb@purdue.edu

Future ACS Meetings

246th - September 8-12, 2013
Indianapolis, Indiana
Theme: Chemistry in Motion

247th - March 16-20, 2014
Dallas, Texas
Theme: Chemistry of Energy/Advanced Materials for New Opportunities

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

249th - March 22-26, 2015
Denver, Colorado
Theme: Chemical Resources: Extraction, Refining and Conservation

250th - August 16-20, 2015
Boston, Massachusetts
Theme: A History of Innovation: From Discovery to Application

251st - March 13-17, 2016
San Diego, California

252nd - August 21-25, 2016
Philadelphia, Pennsylvania

253rd - April 2-6, 2017
San Francisco, California

254th - August 20-24, 2017
Washington, DC

255th - March 18-22, 2018
New Orleans, Louisiana

256th - August 19-23, 2018
Boston, Massachusetts

257th - March 31-April 4, 2019
Orlando, Florida

258th - August 25-29, 2019
San Diego, California

POLY/ACS National Meeting Activity

**246th ACS National Meeting Indianapolis, IN
September 8-12, 2013**

Primary Program Chair: Jeffery Youngblood
ACS Theme: Chemistry in Motion

- AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry Honoring Hua Lu (Joint POLY/PMSE)
- Biomacromolecules for Therapeutics and Diagnostics Delivery
- Biomacromolecules/Macromolecules Lectureship in Creative Polymer Science
- Charles Overberger Award in Honor of James McGrath (Joint POLY/PMSE)
- DSM Polymer Technology Award
- General Topics: New Synthesis and Characterization of Polymers
- Glyconanomaterials (Joint POLY/CARB)
- Herman F. Mark Award in honor of Kenneth Wagner
- Herman F. Mark Scholars Award in honor of Rigoberto Advincula
- Herman F. Mark Scholars Young Award in honor of Rachel O'Reilly
- Monomer and Polymer Mimicry with Renewables
- POLY/PMSE Plenary Lecture & Awards Reception
- Physical Chemistry of Macromolecules (Joint POLY/CHED)
- Polymers for Transportation and Aerospace
- Rational Design of Advanced Capacitor Films
- Sensing and Controlling Motion with Polymeric Materials (Joint POLY/PMSE)
- Sequence-Controlled Polymers
- Structural Composites and Biomaterials: Modeling and Experiment

**247th ACS National Meeting, Dallas, TX
March 16-20, 2014**

Primary Program Chair: Scott Iacono
ACS Theme: Chemistry of Energy/Advanced Materials for New Opportunities

- Excellence in Graduate Polymer Research
- Frontiers in Polymer Characterization
- General Topics: New Synthesis and Characterization of Polymers
- Paul J. Flory Polymer Education Award
- POLY/PMSE Plenary Lecture by Joseph DeSimone & Awards Reception
- Polymer in Display Industry
- Polymers for Additive Manufacturing
- Responsive Nanostructures and Nanocomposites Materials For Energy Harvesting
- Smart Interfaces in Hybrid Materials and Nanocomposites
- Sustainable Polymers and Processes: Applications in Consumer Product Industry (Joint POLY/PMSE)
- Synthesis and Applications of Conjugated Materials: Contributions from Texas and Beyond (Joint POLY/HIST)
- The 12th International Symposium on Biorelated Polymers
- Undergraduate Research in Polymer Science

Additional POLY Session Information

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

ACS National Meeting Abstract Submission

PACS (Program and Abstract Creation System) is used by 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, Phone: 800-333-9511 (US only), Phone: 614-447-3776 (outside the US). You may also call the POLY Business Office at 540-231-3029 for further assistance.

POLY E-mail Discussion List

The discussion list is a great way to inform others and receive information about upcoming symposia, workshops, job positions, share questions and answers, and more. The list is available to all POLY members who choose to sign-up. To sign up, sign off, or change e-mail address . . .

- 1) Go to the POLY www site:
www.polyacs.org
- 2) Click on:
POLY Electronic Discussion List
(on the right under "Quick Links")
- 3) Complete and submit the web site form.

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Otto Vogl - Remembered as a Outstanding Leader in Polymer Science

Otto Vogl, an Austrian Polymer Scientist of world renown died on April 27, 2013. Born on November 6, 1927 in Traiskirchen, Austria (a room is dedicated in its City museum), he studied chemistry, received his PhD (Chemistry and Philosophy) at the University of Vienna in 1950, and became an Instructor at the Chemical Institute of the University of Vienna. In 1953 he came to the U.S.A. as a postdoctoral associate at the University of Michigan and Princeton University. He joined the Polychemicals Department of DuPont in 1956. He was invited to join the newly created efforts in polymer science at the University of Massachusetts as full Professor in 1970. In 1982, he was invited and appointed to the newly created Herman F. Mark Professor at the Polytechnic University, the first endowed named Professor in Polymer Science in the United States. He retired in 1996 and returned to his position as Professor Emeritus at the University of Massachusetts and was active in this position until recently.

Otto Vogl played an enormous impact on the activities of polymer science of his generation. Most importantly, he was responsible for making polymer science a global science and organization. He was once called: The Metternich of Polymer Science. In his career, he worked and published in several innovative fields, which are documented in his many publications and patents. He was active in several fields, the forward thrust and leader of new developments. From organic polymer chemistry, to polymer physics, to polymer technology. Vogl was not only an extraordinary scientist and teacher, but also was involved in the globalization of Polymer Science. Starting from the early 1970's, he played an important role in US polymer science. He enlarged the overall interaction of leading the International Polymer Conference in Amherst, the cooperation with the Japanese Polymer Community, and the creation and leadership of the Pacific Polymer Federation as its first President. He was extensively involved in publishing on subjects of polymer science. He was, for many years, the Editor in Chief of a leading Journal of Polymers: Progress in Polymer Science and on the Editorial and Advisory Board of about 20 International Journals including the American Co-editor of the Monatshefte.

He was an active member of the Division of Polymer Chemistry. He served as the POLY Division Secretary (1970-1973) before he was elected Chair Elect in 1973 and served as Chair in 1974. For many years while he was an officer of the Division, he and his wife Jane ran the POLY Business Office. He received POLY awards including the Herman F. Mark (2000), Distinguished Service (1984), and POLY Fellows (2010).

He was the cornerstone to the development of the Polymer Science Department at the University of Massachusetts and a vital member of its highly successful development. With particular importance is his creation of CUMIRP, the Center of UMass- Industrial cooperation in polymer science, the first University-Industrial cooperative program in the US and his increased development of the reputation and impact of polymer science nation wide of the Polymer Institute at Polytechnic University. Numerous were the recognitions in the scientific community during his life time:

He is survived by his wife Jane Cunningham Vogl (formerly of Sag Harbor, LI) of 60 years, two children, Eric G. Vogl, Yvonne V. Marsh, and 8 grandchildren.

POLY/PMSE Student Chapters and Activities

by Kevin Cavicchi

Three student chapters were recognized at the ACS Spring National Meeting for receiving Student Chapter Special Activity Grants jointly funded by the POLY and PMSE Divisions. The University of Florida chapter will use the funding to support a polymer seminar speaker and continue to establish polymer chemistry outreach activities with local elementary schools. The University of Southern Mississippi will continue to run their Career Path discussions for students with academic, industry, and government speakers and promote recycling in the local Mississippi public schools. The University of Delaware will use their funding to host a student career day.

A networking reception was held for POLY and PMSE graduate students at the Loews New Orleans Hotel on Monday evening during the ACS Spring National Meeting. The event was organized and hosted seamlessly by the University of Southern Mississippi POLY/PMSE Student Chapter. The event was very well attended by a number of graduate and post-graduate POLY and PMSE members. Look for these types of events at future national meetings as POLY and PMSE try to further engage their student members.



l-r: Top Row Darrin Pochan (Univ. of Delaware), David Martin (PMSE Chair), and Kevin Cavicchi (POLY Membership Chair). Middle Row: Gregory Tew (POLY Chair), Brooks Abel (USM), and Brent Sumerlin (Univ. of Florida). Bottom Row: Emily Hoff (USM), Derek Patton (USM), and Pascale Atallah (Univ. of Florida)

Want to start a student chapter?

Please visit <http://www.polyacs.org/833.html> for more information about how to start a chapter and the benefits of a student chapter at your school.



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Christine Landry-Coltrain
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ACS Division of Polymer Chemistry, Inc.
Virginia Tech, 103 Surge Bldg., MC 0279
Blacksburg, VA 24061
Phone: 540-231-3029
Fax: 540-231-2588
E-mail: kathyL@vt.edu

Newsletter Production

Editors
Sarah E. Morgan
Kathy L. Mitchem

Copy Editor
Lesia E. Linkous
Ashley L. Ritter

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Division of Polymer Chemistry Executive Committee

CHAIR

GREGORY N. TEW
University of Massachusetts-Amherst
413-577-1612
tew@mail.pse.umass.edu

CHAIR-ELECT

KATHRYN BEERS
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kathryn.beers@nist.gov

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216-433-9518
Michael.A.Meador@nasa.gov

COUNCILORS

FRANK D. BLUM
Oklahoma State University
405-744-5920
fblum@okstate.edu

MARY ANN MEADOR
NASA Glenn Research Center
216-433-3221
maryann.meador@nasa.gov

WILLIAM H. DALY
Louisiana State University
225-578-3237
chdaly@lsu.edu

JOHN M. POCHAN
Graphene Devices Limited
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BUSINESS OFFICE

Division of Polymer Chemistry
103 Surge Bldg., MC 0279
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