

polymer



American Chemical Society

Division of Polymer Chemistry, Inc.

Editors: Kathryn L. Beers and Neta L. Byerly

Global Collaboration: Toddlers & Highlands



Dennis W. Smith, Jr.
2009 Chair

I begin my final Chair's message with another great quote. I heard it in person and it has resonated in my POLY soul ever since. At a special Productive Nanosystems Road Map conference a while back held by Battelle and accommodating enthusiasts, I jotted down a profound statement by Sir Fraser Stoddart (Professor, Northwestern University) in conclusion of his Feynman Prize address. I have since shared it with many and used it as a spring board to emphasize perspective and our evolution as a general chemical community in addition to a macromolecular community – or better put – a molecular science and engineering community; since so much of what we do is best expressed as division-less, bound-less, and beyond the cliché of multi-disciplinary. Here it is:

“If atoms are letters and words are molecules, then [today] chemistry can just claim to know phrases. Paragraphs are beyond us – chapters a dream, and books perhaps centuries away. Chemistry is like an 18 month old child.” – Sir Fraser Stoddart

The toddler, like chemistry, has enjoyed learning on a geometric trajectory in this first wobbly fraction of its existence. Of course, and happily, this analogy quickly diverges since humans grow to adults and stop learning at some point, whereas chemistry – blissfully unemotional – is limitless. In this early time, we are all very fortunate to witness and help spark the ignition which has occurred in polymer chemistry and which today has resulted in a roaring blaze.

Clearly our growth is greatly due to crumbling communication and collaboration barriers for decades and today we enjoy, respectfully, more proper execution of science “discipline” management or lack thereof. And to be sure, polymer and materials chemistry is leading the cause and we solicit your continued commitment. The enabling components for our growth are volunteers; and such, YOU are critically needed to bring creative collaborative ideas for innovative science and education programs, workshops, and symposia.

The photo above gives an example of how easy it is. POLY member professor Joe Thrasher – past chair of the ACS Division of Fluorine Chemistry, and this year's chair of the International Symposium on Fluorine Chemistry hosted by the Fluorine Division in Jackson Hole – and I demonstrate a collaboration the intangible benefits of which are beyond measure. The Grand Tetons this summer were spectacular, but the benefits to POLY and the international exposure to the ACS seem equally lasting monuments and for many, deeply satisfy.

This is just one example of our collaboration with the Division of Fluorine Chemistry, other ACS Divisions, and many other national and international organizations. Of random note, POLY cofounded the Pacific Polymer Federation and continues intense outreach to Asia today. For example, POLY will be on the ground at the first annual Federation of Asian Polymer Societies Congress this fall. We also have begun a fruitful collaboration with the Mexican Polymer Society with the founding of POLYMEX conferences, in addition to continued programs in Europe, Israel, and many others.

Your Division of Polymer Chemistry has also worked with the IUPAC Polymer Division to which several POLY members are now elected members in addition to its current President, Professor Chris Ober. In particular, POLY is a member of the founding committee which launched the first IUPAC Polymer Division sponsored research grant program for collaborative research requiring investigators from at least three different countries. This unprecedented program is indicative of the leadership our global polymer chemistry community is accepting proudly to share with the world that collaboration is not only acceptable, but required, to advance technology in general. This issue highlights many of our international activities and we urge you to visit www.polyacs.com for all POLY related activities and present yourself as a volunteer – or surrogate parent of a needy toddler.

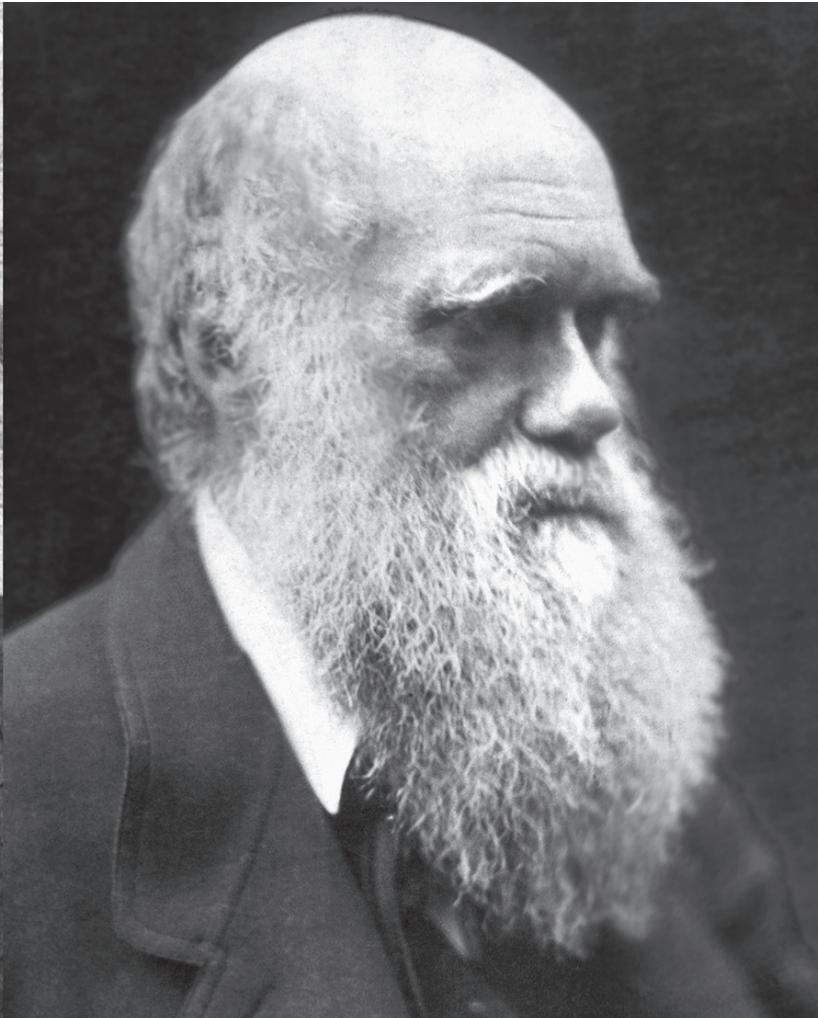
Finally, during the IUPAC Congress in Glasgow this summer, POLY and the ACS joined in many discussions on the culmination of international collaboration activities for our time – THE INTERNATIONAL YEAR OF CHEMISTRY in 2011. As can be seen in the second photo featuring yours, ACS President Thomas Lane, and ACS International Affairs Director, Brad Miller; international outreach includes local cultural instruction. In this case, a grand tour of the Glengoyan Highland Single Malt Scotch Distillery – along with a dozen or so IUPAC polymer folks – coupled chemistry with collaboration in unique ways. The toddler after all needs to nourish itself along the journey through the roaring blaze and into the inevitable inferno – with your help. After all, if atoms are like letters and words are like molecules, then polymers may be the chapters of our dreams and can connect the world.

-- Dennis Smith, 2009 POLY Chair



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POLY Recognizes Outstanding Members!

The POLY/PMSE awards reception held at the ACS National Meeting in Washington, DC, honored outstanding achievements by its members. 2009 POLY Chair, Dennis W. Smith, Jr., had the pleasure of congratulating this year's POLY award winners.

Herman F. Mark and Mark Scholars Awards: The Herman F. Mark and Mark Scholars awards recognize outstanding research and leadership in Polymer Science and are sponsored by Elsevier.



(left to right) Frederick R. Dammont, Jean M. J. Frechet, Dennis W. Smith, Jr. (POLY Chair), Karen L. Wooley, and James V. Crivello - 2009 Distinguished Service and Herman F. Mark Awardees



(left to right) Timothy M. Swager and Dennis W. Smith, Jr. (POLY Chair) - Plenary Lecturer



(left to right) Thomas R. Stratton, Dennis W. Smith, Jr. (POLY Chair), Yan Xia, and Nancy Zhang Graduate Student Travel Awards

The Herman F. Mark Polymer Chemistry Award winner for 2009 was Jean M. J. Frechet. He is the Henry Rapoport Chair of Organic Chemistry at the Department of Chemistry, University of California, Berkeley. From his seminal contributions to photolithography to his pioneering work on dendrimers he has an international reputation for excellence in Polymer Science. During a career beginning as an Assistant Professor at the University of Ottawa in 1973, he has authored nearly 800 scientific papers and holds over 70 United States Patents. His research areas include organic synthesis and polymer chemistry applied to nanoscience and nanotechnology with emphasis on the design, fundamental understanding, synthesis, and applications of functional macromolecules.

This year's Herman F. Mark Scholar Award was awarded to Karen L. Wooley, Texas A&M University for her leadership in the application of polymer chemistry towards nanostructured materials. She was one of the first to recognize the potential impact that could be made towards the preparation of robust nanostructures through covalent crosslinking of self-assembled block copolymers. Dr. Wooley also developed synthetic methods leading to fully degradable structures, the covalent attachment of biologically-active ligands, the binding of reporter molecules for PET imaging, the synthesis of polymer-drug conjugates, all of which constitute additional important and highly practical contributions from her laboratory.

James V. Crivello, Rensselaer Polytechnic Institute, was awarded the Mark Senior Scholar for his seminal work on iodonium salts and sulfonium salts that has had a wide impact on Polymer Science. His initial observations resulted in the development of photocurable resins. He was the key individual not only in the development of syntheses for the onium salts, which required the synthesis of initiators tailored to specific wave lengths, but in the mechanistic studies of the polymerization reactions and the design of the specific polymer systems. These discoveries in onium salt chemistry were utilized by Frechet and Willson and others at IBM for their very successful development of positive photoresist systems which are used commercially in the manufacture of integrated circuits.

Each scholar had a full session at the Washington, DC meeting concluding with their award address. The Polymer Division thanks and recognizes these outstanding individuals for their work, dedication, and leadership within the field of Polymer Science.

Distinguished Service Award: POLY saluted its invaluable volunteer, Frederick R. Dammont for his service as the Polymer Division Circulation Manager. Dr. Dammont has contributed to the successful circulation of POLY Preprints to Library's for over 30 years. Since taking the office in 1979, he has collected more than ONE MILLION dollars for Polymer Preprint Library Subscriptions.

Plenary Lecture: The Washington DC meeting featured a new Plenary Lecture in conjunction with the POLY and PMSE Awards Reception. Dr Timothy M. Swager

"Awards" continued on page 13

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2009 ACS Fellows

The American Chemical Society announced its inaugural class of 163 ACS Fellows to be honored for their professional contributions to the chemical sciences as well as their outstanding service to the Society. Each Fellow was presented with a lapel pin and certificate in a ceremony held during the 2009 Fall ACS National Meeting in Washington, D.C.

A complete listing of all ACS Fellows is available at:

<http://www.cen-online.org/acsnews/87/8730acs.html>

| | |
|--|--|
| Frank D. Blum Missouri Science & Technology | Donald R. Paul University of Texas |
| Jean-Luc E. Bredas Georgia Institute of Technology | Eli M. Pearce Polytechnic Institute of New York University |
| H.N. Cheng USDA Agricultural Research Service | Elsa Reichmanis Georgia Institute of Technology |
| Malcolm H. Chisholm Ohio State University | Ann Beal Salamone Rochal Industries |
| Robert H. Grubbs California Institute of Technology | Thomas W. Smith Rochester Institute of Technology |
| Timothy E. Long Virginia Tech | E. Thomas Strom University of Texas |
| Cynthia A. Maryanoff Cordis Corporation | S. Richard Turner Virginia Tech |
| James E. McGrath Virginia Tech | C. Grant Willson University of Texas |
| Elizabeth Ann Nalley Cameron University | Kenneth J. Wynne Virginia Commonwealth University |
| Christopher K. Ober Cornell University | Steven C. Zimmerman University of Illinois |

Christopher Bettinger Receives 2009 AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry

The recipient of the 2009 AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry is Dr. Christopher Bettinger who received his doctorate in 2008 from the Massachusetts Institute of Technology under the direction of Professor Robert S. Langer and Doctor Jeff Borenstein.

Bettinger's dissertation research lies at the interface of polymer synthesis, processing, and microfabrication technology for use in designing and fabricating novel tissue engineered constructs. More specifically, he studied the use advanced biomaterials and microfabrication strategies to form vascularized soft tissue engineering scaffolds through the exploration of: (1) synthesis and characterization of biodegradable elastomers, (2) nanofabrication of synthetic substratum for controlling cell function, and (3) process development for microfluidic scaffold fabrication. He synthesized a versatile class of biodegradable poly(ester amide) elastomers that exhibit a wide range of physical properties and excellent biocompatibility. He also used a variety of techniques to fully characterize the biodegradation of these materials and discovered the relevant mechanisms of in vivo degradation.

Chris also explored the potential for replica-molding of elastomeric biomaterials to create synthetic substrate nanotopography with features on the order of 600 nm for the control of cell function. This led to several discoveries including partially elucidating the role of cytoskeleton function in cell-nanotopography interactions and utilizing substrate nanotopography for the enhancement of in vitro blood vessel formation.

Lastly, Chris developed a set of polymer processing strategies to fabricate microfluidic devices using both synthetic and natural elastomeric biomaterials. These cell-seeded devices were designed using suitable structures and materials to enable perfusion of the construct through an artificial vascular network that was designed to mimic the vascular structures of native blood vessels.

Taken together, these advancements provide a continuum of technologies that span polymeric materials, structures, and devices, which have greatly improved next generation scaffolds for soft tissue engineering.

Dr Rama Chandran, VP, Polymer Technology said that it is a great honor to present the first AkzoNobel award in North America on behalf of our employees at the symposium held in honor of Dr. Christopher Bettinger. Rama also indicated that Polymer Chemistry remains as one of the critical science platforms in AkzoNobel. AkzoNobel is a global leader in decorative paints, the largest manufacturer of performance coatings and a major supplier of specialty chemicals.

Award Sponsored by



(left to right) Christopher Bettinger, Awardee, and Rama Chandran, AkzoNobel Vice President

POLY Award Information

Upcoming Deadline - 11/1/09

Industrial Polymer Scientist Award

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

Upcoming Deadline - 7/1/10

Carl S. Marvel Creative Polymer Chemistry Award

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

Nomination Instructions:

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

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

or contact:

Thomas Seery
University of Connecticut
860-486-1337
thomas.seery@uconn.edu

IN MEMORIAM

Iwhan Cho



It is with great sadness that I report the passing of a long-time member of the Polymer Division and my dear friend, Dr. Iwhan Cho who was Professor Emeritus of the Korean Advanced Institute of Science and Technology (KAIST) at the time of his death on August 7, 2009. Prof. Cho was born on February 16, 1936. He obtained a B.S. in Chemical Engineering from Seoul National University (1958) and a Ph.D degree in Polymer Chemistry from the Polytechnic Institute of Brooklyn (1967) with Charles G. Overberger. He was a postdoctoral fellow at the University of Michigan (1966-68) and was then employed (1968-72) as a Research Scientist at the Uniroyal Research Center. From 1972 until 2001 he was a professor in the Department of Chemistry at KAIST. During his long and productive career he supervised 37 doctoral students and 52 masters degree students, and published more than 150 research papers. He was a member of the Polymer Society of Korea (President in 1992), Korean Chemical Society, the Society of Polymer Science, Japan, the American Chemical Society, Phi Kappa Phi and Sigma Xi. His outstanding contributions were recognized by the award of the Order of Civil Merit, Republic of Korea (1983) and by induction into The National Academy of Science of the Republic of Korea (2000). He is survived by his wife, one son and two daughters.

Submitted by: J. A. Moore



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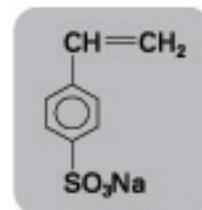
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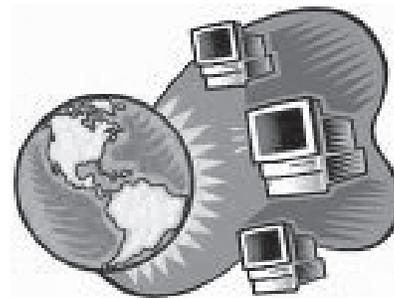
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2009 POLY On-Line Election



The first on-line POLY election was a huge success. The 2008 POLY Election proved to be the largest voting turn-out in over 10 years with over 20% membership participation. POLY anticipates a repeat performance with our 2009 election. The 2009 candidate information is summarized below and will be posted including a bio and statement on-line at <http://ACS-POLY.vote-now.com/bios.pdf>

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

VOTING ON-LINE IS AS EASY AS 1-2-3!

1. Watch for the e-mail or postcard sent to you from elections@vote-now.com, which will contain your individual password.
1. Once you receive your e-mail or card with the subject "2009 Division of Polymer Chemistry Elections", go on-line to complete the election ballot at <http://ACS-POLY.vote-now.com>
2. If you do not receive an e-mail or post card by October 30th or for additional questions, please feel free to contact the POLY Business Office at KATHYL@VT.EDU or call 540-231-3029.

2009 Election Slate

Candidates for Vice Chair:



Joseph Mabry
Air Force Research Laboratory



Peter Zarras
Naval Air Warfare Center
Weapons Division

Candidates for Membership-at-Large:



Alan R. Hopkins
The Aerospace Corporation



Michael A. Meador
NASA Glenn Research Center

Candidates for Councilor:



H. N. Cheng
Southern Regional Research Center,
US Department of Agriculture



David S. Germack
National Institute of Standards
and Technology

STUDENTS! The next Graduate Polymer Research Conference will be held in the summer of 2010 at the University of North Carolina's Chapel Hill Campus. Details of the event will be posted on the POLY website at POLYACS.NET as they become available. For more information contact the organizer, Prof Wei You at wyou@email.unc.edu after December 2009.

Clemson University POLY Chapter

Submitted by Rajneesh Verma

Message from the President: I'm proud to say, once again, after one year of team efforts and members input we have successfully achieved the goals we were aiming for the University POLY Chapter here at Clemson University. For that I will ever be thankful to people who came together and worked together as a unit for the success of the Chapter, and I am sure, for the coming years we will keep working together to expand the various domains of the University chapter here at Clemson University.

Achievements: The Clemson University POLY Chapter was a successful part of the MAGNETIC SYMPOSIA 2009 held here at Clemson University and its participation in SOUTHERN RUBBER GROUP MEETING 2009 in Charleston, SC was well received and appreciated. Recently we broadened our visibility at the INTERNATIONAL SYMPOSIUM ON FLUORINE CHEMISTRY 2009 held in Wyoming to people from prestigious institute from all over the world.

Collaboration: The Clemson University POLY Chapter collaborated with Clemson's Rubber Division Student Chapter in an effort to be actively involved in the Southern Rubber Group meeting. In addition, we are planning to work with other established Clemson Chapters in an effort to draw in guests whose lectures would benefit our members on topics of polymers, electro optics, and more.

Future Events: We are looking forward to future events like ACS conferences and other academic events to gain more visibility and members, and to promote more knowledge about polymers in Academic, Research and Job opportunities. We are also looking forward to our education events in the elementary schools which gives the kids knowledge about polymers. Finally, we are paving the way to connect industry to our university in a way which best serves the needs of our members.



(below) Rajneesh Verma,
Clemson University POLY Chapter President



University of Michigan POLY Chapter Members had a Fun and Productive Summer!



Submitted by Ed Palermo



Jeff Raymond

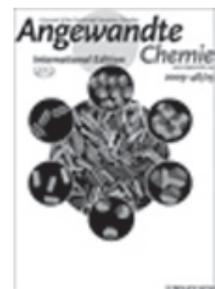
Jeff Raymond, who served as the first President of U-M POLY ACS in 2007-2008, was awarded the Department of Defense Science, Mathematics, and Research for Transformation (SMART) Fellowship. This summer he worked at Wright Patterson Air Force Base developing self-assembled organic nanoparticles for use in non-linear optical devices intended for the protection of armed service personnel.

Srijanani Bhaskar, who has served as Secretary for U-M POLY ACS, recently published an article reporting novel multicompartamental microcylinders which was featured on the cover of the journal *Angewandte Chemie International Edition*. Srijanani's research advisor is Jeorg Lahann, who recently gave a lecture to UM POLY ACS members on entrepreneurship.

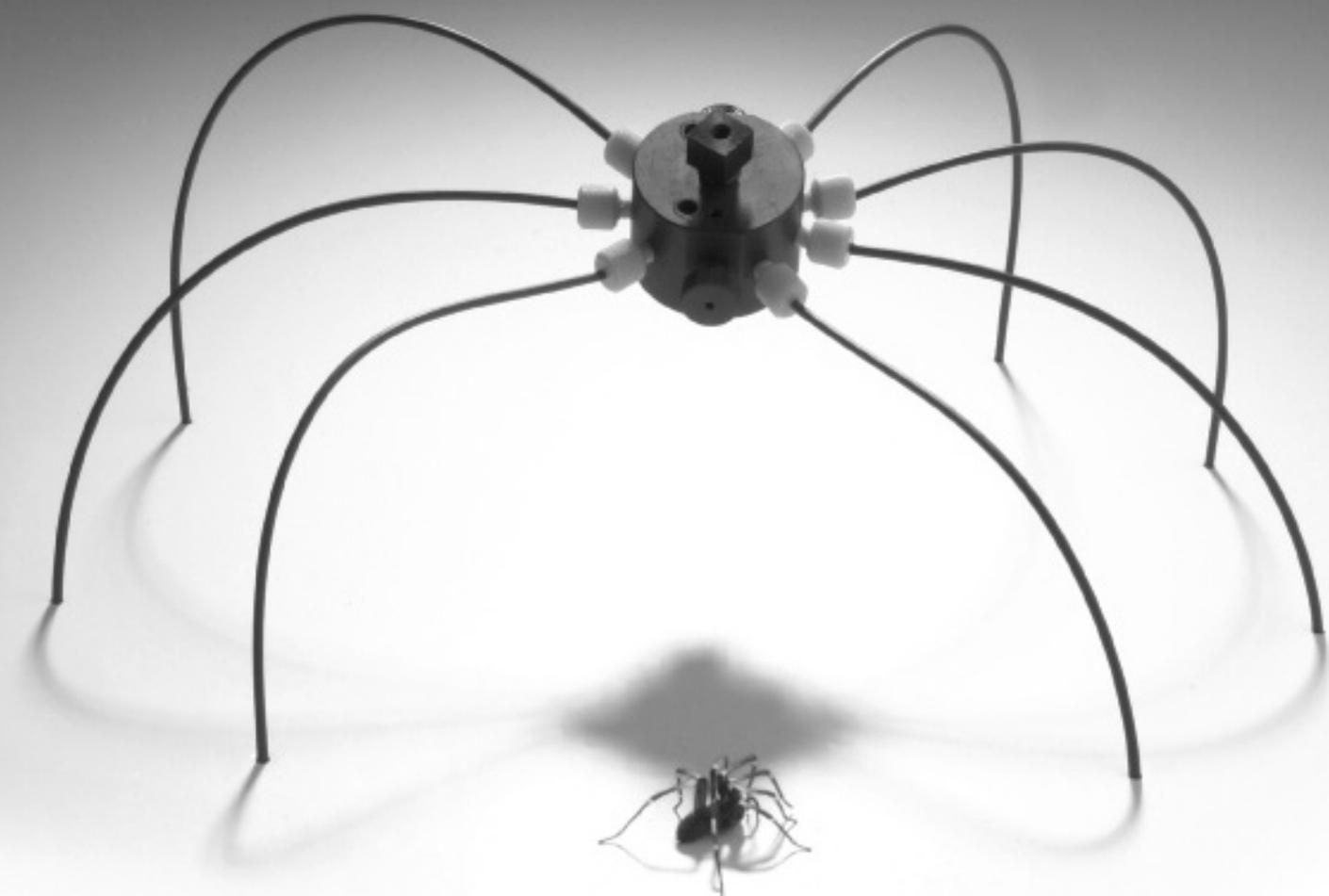
This October, U-M POLY ACS members will participate in the 33rd Annual Macromolecular Science and Engineering Symposium, entitled "Polymers and Biomedical Applications" at the University of Michigan. The invited speakers will include Kristi S. Anseth, Alexander (Sasha) Kabanov, James E. McGrath, Mark E. Meyerhoff, Kinam Park, and Buddy Ratner. The next recipient of the prestigious Charles G. Overberger prize and the first recipient of the Frank E. Filisko award will be announced at the reception following the symposium. Last year, Santy Sulaiman received the prize for her work with Prof. Richard M. Laine, the faculty adviser to U-M POLY ACS.

Our members wish to bid a warm farewell and best of luck to our former officers Laura Povlich and Charles Shaw as they join their advisor, Prof. David C. Martin, who is beginning a new chapter of his career as the Karl Böer Chair of Materials Science and Engineering at the University of Delaware.

In the upcoming semester, U-M POLY ACS will hold a mass meeting open to the entire campus community. We will hold elections for the next generation of U-M POLY ACS Officers, brainstorm strategies for fundraising, and plan for future events including potential invited speakers. We will also continue our efforts to attract representatives from local industry who are POLY ACS members and may be interested in recruiting at U-M. Any interested parties should contact our current U-M POLY ACS President, Ed Palermo at efp@umich.edu.



Ed Palermo



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Upcoming Polymer Division Workshops

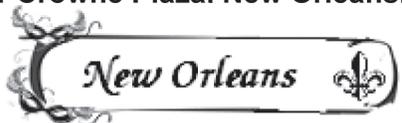
For Additional POLY Workshop Information
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Elliot Douglas, U. Florida
Joe Lichtenhan, Hybrid Plastics
Jimmy Mays, U. Tennessee, ORNL
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Session Topics:

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Fax: 803-777-7041
E-mail: benice@sc.edu

Tom Zawodzinski, Ph.D.
Dept. of Chemical & Biomolecular Engineering
University of Tennessee
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Benny Freeman
University of Texas
Center for Energy & Env. Res.
10100 Burnet Rd., Bldg. 133
Austin, TX 78758-4445
Phone 512-232-2803
E-mail: freeman@che.utexas.edu

Judy Riffle
Department of Chemistry
Virginia Tech
2018 Hahn Hall (MC 0212)
Blacksburg, VA 24061
Phone 540-231-8214
E-mail: judyriffle@aol.com

James E. McGrath
Macromolecules & Interfaces Institute
Virginia Tech
2108 Hahn Hall (MC 0344)
Blacksburg, VA 24061
Phone 540-231-5976
E-mail: jmcgrath@vt.edu

Polymers in Medicine and Biology

The workshop on Polymers in Medicine and Biology was held on June 14-17, 2009, in Santa Rosa, California. Buddy D. Ratner (University of Washington), Kathryn E. Uhrich (Rutgers University), and Judy S. Riffle (Virginia Tech) organized the event. The meeting included 43 speakers, 22 poster presentations with a total of 99 in attendance. A special thanks to the workshop sponsors including DMS, Polymer Technology and Bointerphases.



As part of a special reception, Buddy Ratner gave a talk on the “science of wines” followed by an attendees toast.

During the Biomedical meeting a “ladies night out” was organized for the women professors and industrial scientists. Thirteen women attended the special event!



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FRANCE

E-mail: bruno.ameduri@enscm.fr

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POLY/ACS National Meeting Activity

Future ACS Meetings

239th - March 21-25, 2010
San Francisco, California

240th - August 22-26, 2010
Boston, Massachusetts

241st - March 27-31, 2011
Anaheim, California

242nd - August 28-
September 1, 2011
Denver, Colorado

243rd - March 25-29, 2012
San Diego, California

244th - September 9-13, 2012
Philadelphia, Pennsylvania

245th - April 7-11, 2013
New Orleans, Louisiana

246th - September 8-12, 2013
Indianapolis, Indiana

247th - March 16-20, 2014
Washington, D.C.

248th - August 24-28, 2014
San Francisco, California

249th - March 22-26, 2015
Denver, Colorado

250th - August 16-20, 2015
Boston, Massachusetts

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

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

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

254th - September 10-14, 2017
St. Louis, Missouri

239th ACS National Meeting, San Francisco, CA

March 21-25, 2010

Program Meeting Chairs: Kristi Kiick, Jeffrey Linhardt, & Greg Tew

Overall Theme: Chemistry for a Sustainable World

- Advances in Water Purification
- Engineering the Biology-Materials Interface
- Excellence in Graduate Polymer Research
- General Topics in the Characterization of Polymers
- General Topics in the Design and Synthesis of Polymers
- Nanostructured Polymers
- Nanoscience in Polymer Chemistry
- Nonconventional Functional Block Copolymers
- Polymer Innovations and the Global Economy: Sustainability Challenges and Commercial Opportunities
- Polymers Membranes and Thin Films for Energy Applications
- Paul J. Flory Polymer Educational Award
- Renewable and Sustainable Polymers
- Synthetic and Biological Macromolecules for Emerging Nanotechnologies III
- Undergraduate Research in Polymer Science

240th ACS National Meeting, Boston MA

August 22-26, 2010

Program Meeting Chairs: Kristi Kiick, Jeffrey Linhardt, & Greg Tew

Overall Theme: Chemistry for Preventing and Combating Disease

- Bioactive Polymers and Polymer Surfaces
- Frontiers in Polymer Characterization
- General Topics in Design, Synthesis, and Characterization of Polymers
- Immunological Applications of Polymers
- International Biorelated Polymers Symposium
- Nanoscience in Polymer Chemistry
- New Catalysis in Polymer Synthesis
- Self-assembling Polymers and Materials
- Thiol-X Click Reactions: A Memorium to Charles E. Hoyle
- Medical Applications of Polymers
- Memorial Symposium in Honor of H. Benoit

POSTER SESSION

To enhance exposure for poster participants, posters will be presented during the day in the POLY Hotel in a joint POLY/PMSE poster session.

POLY SESSION INFORMATION

<http://www.polyacs.org/main/natlmeet.shtml>

POLYMER PROGRAM CHAIRS

Jeffrey Linhardt
Bausch & Lomb
Jeffrey_Linhardt@bausch.com

Kristi Kiick
University of Delaware
kiick@udel.edu

Greg Tew
University of
Massachusetts-Amherst
tew@mail.pse.umass.edu

ACS National Meeting Polymer Preprints & Abstract Submission

Abstract Submission: The abstract submission process for the ACS meeting has changed. Abstracts should be submitted through the NEW online abstract submission system PACS (<http://abstracts.acs.org>), available at the ACS meetings page. Abstract submitters will now be recognized through their ACS ID and password, which will provide easier tracking of individual abstract submissions for the user. Abstracts will be maintained under the ACS user ID information, rather than under the record number system previously employed in PACS. Preprint submission is still required (see below), and preprints will be linked to abstracts through the ACS user ID information. As with any new web-based system, there are going to be problems with this first dry run. Please submit your abstracts early as opposed to near the deadline of October 19th.

Preprint Submission: An abstract *must* be submitted prior to submitting a preprint.

The Division of Polymer Chemistry, Inc., in cooperation with the ACS Membership and Publications Divisions, now offers on-line preprint submission through PACS.

An electronic preprint should be prepared as a word processing document using the POLY Preprint Template available at the *Polymer Preprints* page (<http://uweb.txstate.edu/science/polymerpreprints/instructions.htm>). The word processing document file should not be submitted by e-mail or on diskette; it must be submitted through PACS, at which time it will be automatically converted into PDF format and made viewable by the authors. Until the preprint submission close date, the authors may re-transmit as many revised drafts as necessary until the PDF document conforms to the required preprint format. After preprint submission close date, the PDF file will be reviewed on-line by the symposium organizer. Upon approval by the organizer, the preprint file will be forwarded to the preprint editors for final acceptance.

New Poster Session Programming a HUGE Success

The poster sessions were reformatted at the DC meeting, where they were held during the day. This change was well-received, and encouraged much better attendance and interactions than the previous poster session format. We will continue to use this format for upcoming meetings whenever space allows in order to generate more exposure for our poster presenters.



Awards (continued from pg 3)

presented the first Plenary Lecture, "Electronic Polymer-Based Chemical Sensors for Improved Security". He was recognized for his outstanding work with an honorarium and a plaque from the Divisions. The event was extremely well-attended and provided an opportunity to better recognize the excellence and community in our division.

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 Washington, DC, ACS meeting were received by Nancy Zhang (Virginia Tech) whose presentation was entitled "Novel Segmented Block Copolyesters Containing Rigid Cycloaliphatic Monomers for Emerging Hermoplastic Elastomer and Biomedical Applications", Thomas R. Stratton (Purdue University) who presented his work on "Biocompatibility of Quaternary Poly(vinyl pyridine)-Based Bactericidal Copolymers as determined by In Vitro Assays of Human Epithelium", and Yan Xia (California Institute of Technology), whose presentation was entitled, "Efficient Synthesis of Brush Polymers via Living Ring-Opening Metathesis Polymerization of Macromonomers".

The Travel Awards are given for each ACS meeting to provide funding for polymer graduate students to travel to the National ACS meeting to present the results of their research. Only members of the ACS and the Division of Polymer Chemistry who study at U.S. institutions are eligible for this travel award. For specific deadlines, award criteria, application instructions, and additional information on upcoming awards visit: <http://www.polyacs.org/membership/travelinst.shtml>.

The evening successfully celebrated the individuals who are the present and future of Polymer Chemistry. Congratulations again to all!

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POLY Councilors' Report of the Washington National Meeting

At the Washington National Meeting (August 16-20, 2009), POLY was represented at the ACS Council by Bill Daly, H. N. Cheng, and John Pochan. The following account summarizes some selected activities in the committees and groups that POLY Councilors are involved in.

Division Activities Committee (DAC) - John Pochan At the request of the Division of Chemical Technicians (TECH) and the recommendation of DAC, the Council voted to disband TECH. Note: 96% of TECH members are members of other divisions and the TECH membership felt it was unnecessary to continue as a separate entity.

DAC completed the second round of Innovative Project funding with the award of 10 more grants. POLY received two awards during the spring vetting of the awards.

A DAC committee on the electronic dissemination of national meeting content continues to work with ACS staff and Content Management Corporation to improve and enlarge captured video content. Business models are being vetted and will be presented to the divisions at a future national meeting. Content recorded in Washington is available on line to all meeting registrants.

Multidisciplinary Program Planning Group (MPPG) – John Pochan Themes for San Francisco (2010) (Chemistry for a Sustainable World), Boston (2010) (Chemistry for Preventing and Combating Disease), Anaheim (2011) (Chemistry of Natural Resources), and Denver (2011) (Chemistry of Air, Space and Water) had been confirmed previously. The theme for San Diego (2012) – Chemistry of Life - was approved. The committee is requesting suggestions for thematic program leaders for the 2011 and 2012 meetings. If you have any suggestion, please contact me (johnpochan@hotmail.com). MPPG is also supporting alternate programming formats – see information below on the alternate poster format for the Washington meeting. If you have suggestions for alternative formats within or outside the national meeting, please get them to me.

Note: There is the possibility of applying for funding via a DAC Innovation Award (<http://membership.acs.org/C/CDA/awards.html>) if the alternative is unique and will help out constituents.

Committee on Meetings & Expositions (M&E) - Bill Daly and H. N. Cheng The Washington meeting was successful from the point of view of attendance (over 14,319) and programming (8700 papers and posters). Because the pilot Sunday expo program was successful at Salt Lake City, the expo was again open in Washington on Sunday evening between 6:30-8:30 PM. The show was well attended. In view of cost of living increase, M&E recommended a \$10 increase in registration fee in 2010 national meetings.

At this meeting a large number of presentations were recorded. It was expected that more talks will be recorded in the future. Anyone who registered for the meeting has access to these recorded talks on the ACS webpage.

In conformity with the green initiative, M&E worked hard to make the meeting greener – by reducing unnecessary paper, recycling disposal materials, and reducing waste. The effort to decrease bus shuttles, however, seemed to be viewed negatively by membership.

At this meeting, POLY pioneered a new poster format. Instead of having the posters on Sunday and Tuesday evenings at the Convention Center, all POLY posters were presented at the Grand Hyatt at the same time as the oral sessions of the corresponding symposia. M&E approved this new format and was very interested in how it worked out.

M&E has changed the company that ran the OASys computer abstract entry system. The new system (called PACS) will be used for the Spring 2010 meeting. Thus, the abstract and preprint entry for the upcoming meeting will use the new system (deadline being October 19, 2009).

Committee on Committees (ConC) – H. N. Cheng The Committee on Committees (ConC) is responsible for the effective and efficient operation of Council-related committees. At this meeting, staffing of different committees was discussed, together with a mini-review of committees. In addition, the ConC handles specific tasks. Several tasks of interest may be mentioned here:



Photo taken by Daniel Black

- 1) The report by the joint Board-ConC Action Enablement Team on alignment of ACS Council-related committees was reviewed.
- 2) The ConC Task Force on Senior Chemists is making good progress, under the leadership of Eli Pearce. A symposium on “How to be a Consultant” was held at this meeting. The Tuesday breakfast meeting was sold out. In addition to Eli, several POLY members are involved, e.g., Bill Daly, Bob (Kodak) Moore, and H. N. Cheng.
- 3) ConC Subcommittee on Industrial Pipeline would like to increase participation by industrial ACS members in ACS governance. If any industrial POLY member is interested, please get in touch with H.N. at hnhcheng100@yahoo.com

Committee on Nomenclature, Terminology, and Symbols (NTS) – H. N. Cheng This committee strives to provide leadership in nomenclature and coordinates its work with other national and international organizations on nomenclature, particularly with respect to ACS publications. The two urgent matters are the redefinition of the kilogram and the naming of element 112. For information on other activities, visit their website at <http://membership.acs.org/N/NOME>

Other Items of Interest

- 1) The ACS is taking a leading role in the celebration of the International Year of Chemistry-2011 (IYOC-2011).
- 2) The ACS Leadership Development System (LDS) offers many courses. Anyone interested can sign up to take them at www.acs.org/leaderdevelopment
- 3) A new program called Chemistry Ambassadors is designed to equip ACS members to be more effective spokespersons for chemistry. More information may be found at www.acs.org/chemistryambassadors.

On Line!

www.polyacs.org/

Come to our web site and find
information about:

- Workshops, Regional, and National Meetings
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- Polymer Preprints
- Books from ACS and Other Publishers
- Electronic Discussion List
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- POLY Member Center
- General POLY Information
 - Organization Chart
 - POLY Board Address List
 - Election Information
 - Division Bylaws
 - Executive Committee, Councilors, and Board Reports
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We have what you are looking for!

To post an item of interest on the
Polymer Division web site please contact:

Frank D. Blum
fblum@mst.edu

or

Christine Landry-Coltrain
christine.landry-coltrain@kodak.com

E-mail Discussion List

POLY - The Discussion List is available to all POLY Division members who have active internet electronic mail addresses. This list is created for exchange of information over e-mail.

To SIGN-OFF, CHANGE ADDRESS, or JOIN THE LIST

- 1) Go to the POLY www site:
www.polyacs.org
- 2) Click on:
Poly Discussion List
(in left hand menu, under Member benefits)
- 3) Complete and submit the web site form.

Additional information about the list can be found
at the web site.

Division of Polymer Chemistry Executive Committee

CHAIR

DENNIS W. SMITH, JR.
Clemson University
Dept. of Chemistry
Clemson, SC 29634
864-656-5020
dwsmith@clemson.edu

PAST CHAIR

ERIC J. AMIS
United Technologies Research Ctr.
411 Silver Lane, M.S. 129-25
East Hartford, CT 06108
860-610-7661
AmisEJ@utrc.utc.com

COUNCILORS (continued)

THERESA M. REINEKE
Virginia Tech
Dept. of Chemistry (0212)
Blacksburg, VA 24061
540-231-7011
treineke@vt.edu

CHAIR-ELECT

BARRY L. FARMER
Air Force Research Lab
Materials & Manufacturing Director
2977 Hobson Way
Wright Patterson AFB, OH 45433
937-255-6825
barry.farmer@wpafb.af.mil

MEMBER-AT-LARGE

ERICA H. MARTIN
Dow Chemical Company
100 Independence Mall West
Philadelphia, PA 19106-2399
215-592-6861
emartin@rohmmaas.com

ALTERNATE COUNCILORS

RIGOBERTO ADVINCULA
DIANA J. GERBI
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PROGRAM CHAIRS

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JEFFREY LINHARDT
GREG TEW

VICE-CHAIR

ROBERT B. MOORE
Virginia Tech
Dept. of Chemistry (0212)
Blacksburg, VA 24061
540-231-0641
rbmoore3@vt.edu

COUNCILORS

H. N. CHENG
Southern Regional Research Center
USDA Agricultural Research Service
1100 Robert E. Lee Blvd.
New Orleans, LA 70124
504-286-4450
hnhcheng100@gmail.com

BUSINESS OFFICE STAFF

NETA L. BYERLY
nbyerly@vt.edu
LESIA E. LINKOUS
lesiar@vt.edu
KATHY L. MITCHEM
kathyl@vt.edu
Division of Polymer Chemistry
Virginia Tech, 410 Davidson Hall
Blacksburg, VA 24061-0279
540-231-3029

SECRETARY

KATHRYN L. BEERS
Polymers Division, NIST
100 Bureau Dr. Bldg. 224, Rm. B214
Stop 8542
Gaithersburg, MD 20899-8542
301-975-2113
kathryn.beers@nist.gov

WILLIAM H. DALY

Louisiana State University
Dept. of Chemistry
Baton Rouge, LA 70803-1804
225-578-3237
chdaly@lsu.edu

TREASURER

MARK DADMUN
University of Tennessee
Dept. of Chemistry
323 Buehler Hall
Knoxville, TN 37996
865-974-6582
dad@utk.edu

JOHN M. Pochan

Cornell University
5 Glen Valley Dr.
Penfield, NY 14526
585-739-0311
johnpochan@hotmail.com

Newsletter Production

Editors Kathryn L. Beers
Neta L. Byerly
Production Manager Kathy L. Mitchem
Copy Editor Lesia Linkous

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Contact the Polymer Division Business Office
for all your POLY Membership Questions!

ACS Division of Polymer Chemistry, Inc.
American Chemical Society
Virginia Tech
410 Davidson Hall, MC 0279
Blacksburg, VA 24061
Phone: (540) 231-3029 Fax: (540) 231-2588
E-mail: nbyerly@vt.edu
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POLY Preprints Go On-line

Polymer Preprints were made available
electronically to all members of the Polymer
Chemistry Division beginning Fall 2008. The
Polymer Preprints Vol. 48 (2), 2008, Vol. 50
(1), 2009 and Vol. 50(2), 2009 is available
on-line at:

<https://submissions.miracdl.com/acspolymer>

This link grants access to the content
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The POLY Business Office will have
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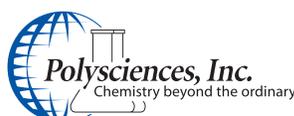
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