

Spring 2010

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polymer



American Chemical Society

Division of Polymer Chemistry, Inc.

Editors: Kathryn L. Beers and Neta L. Byerly



Barry L. Farmer
2010 Chair

Chair's Address

Zoom! That describes how fast the two years I had in the POLY sub-Chair sequence went by. Now that my time as Chair is upon us, I can see that there is much more that I wish I had picked up. Fortunately, my predecessors, successors, and the rest of the Executive Committee, are all there to help keep me on track and to keep POLY moving forward.

At the recent POLY Awards Reception in San Francisco, I had the great pleasure and honor to recognize the founding class of 59 POLY

Fellows, truly an outstanding group of contributors, both to our science and to our organization. The list of POLY Fellows is posted on the division's (new) home page: <http://www.polyacs.org>. There are many more outstanding people who deserve to be POLY Fellows, and I invite you to nominate them. POLY Fellowship is intended 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. The nomination guidelines are posted on the home page. The deadline for nominations is July 15, 2010. The new Fellows will be recognized at next year's Spring Meeting in Anaheim.

In addition to nominating members to be POLY Fellows, I encourage you to nominate worthy candidates for all the POLY Awards. These are: the Herman F. Mark Division of Polymer Chemistry Award, the Mark Scholars Program, the Carl S. Marvel Creative Polymer Chemistry Award, the Paul J. Flory Polymer Education Award, and Distinguished Service and Special Service Awards. In addition, the Industrial Advisory Board sponsors the Industrial Polymer Scientist Award, the POLY Graduate Student Travel Awards, and the Curriculum Development Award. Finally, POLYED provides the AkzoNobel Award for Outstanding Graduate Research, the ICI Student Award in Applied Polymer Science, and the Award for Excellence in High School or Junior High Teaching of Polymers. You can find these listed on the POLY website along with a list of previous winners. There may well be someone you work with who deserves the recognition afforded by these awards – please take the time to put in a nomination for them!

The POLY leadership has been looking at our membership numbers, and the gradual downward trend over the last few years is something we are very concerned about. I have committed to striving to reverse this trend – and Bob Moore, Joe Mabry, and the Executive Committee are all committed as well. We have asked Mike and Mary Ann Meador (POLY ExComm Member-at-Large and Alternate Councilor, respectively) to re-energize the POLY Membership Committee and to formulate a membership campaign for the division. The first step in the process will be to ask, “Are You Being Served?” (just as the BBC television show did). The Committee is putting together a membership survey to ask YOU what you value most about your membership in POLY and what else you think POLY could/should do to attract and retain members. We truly welcome your suggestions and I urge you to respond to the survey when it comes to you. Of course, I welcome your suggestions by email as well. (If you work in industry, you may get two surveys – this general one, and one that our Industrial Advisory Board is conducting within companies represented on the IAB.)

POLY is tremendously well-served by our Division's Business Office. It and POLY have operated as a well-oiled machine for many years. The person holding the oil-can and applying lubricant to the various squeaky-wheels and transients (like me) – i.e. the person who keeps things running smoothly – has been Neta Byerly. Neta has decided that the time for retirement is nigh and over the next several months, she will be transferring her responsibilities to her very capable-cohorts: Lesia Linkous and Kathy Mitchem. I believe Neta will stay involved with POLY even after her official retirement date early next year, but I wanted to take this opportunity (while I have the Chair's pen) to thank her for her many years of dedicated service to POLY. It would be nice if many of you did likewise when you see her at the POLY table in Boston.

Now it is on to planning for building our interactions with other Divisions, planning for new awards, and planning new initiatives to keep POLY's record of innovation, excellence, and leadership in ACS at full speed. Zoom!



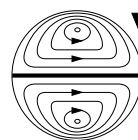
POLY Executive Dinner, ACS National Meeting, San Francisco, CA, March 2010

Barry L. Farmer, 2010 POLY Chair



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POLY Recognizes Outstanding Members!

The POLY/PMSE awards reception, held at the ACS National Meeting in San Francisco, CA, honored outstanding achievements by its members. 2010 POLY Chair, Barry L. Farmer, had the pleasure of congratulating this year's POLY award winners.

2010 Paul J. Flory Polymer Education Award: Harry Allcock, Professor of Chemistry at Pennsylvania State University, is the recipient of the 2010 Paul J. Flory Polymer Education Award. The Flory Award commemorates the achievements of the late Paul Flory, a Nobel Prize recipient who was a chemist at Stanford University and was created to recognize, encourage, and stimulate outstanding achievements by an individual in promoting undergraduate or graduate polymer education. An award symposium was held during the Spring ACS National Meeting in San Francisco.



(left to right) Harry Allcock (2010 Paul J. Flory Award Recipient) and Barry Farmer (POLY Chair)

"There is a crucial need to acquaint students in the chemistry-related disciplines with the ways in which long-range academic research can lead to useful developments," said Allcock. "Fewer than a quarter of the students in chemistry will find careers in teaching, whereas the majority will be employed in industry or government laboratories. Thus, as faculty, we have a responsibility to broaden students' interests beyond the highly focused academic topics of their thesis research. This is what I try to do in my classroom teaching, in the research laboratory, and in my books."

ACS Award in Polymer Chemistry: POLY congratulated Timothy P. Lodge, University of Minnesota, for receiving the ACS Award in Polymer Chemistry for outstanding advances in polymer chemistry through the creative integration of controlled polymerization, quantitative structural characterization, and innovative dynamic analysis. A special awards symposium was held in his honor during the Spring ACS National Meeting in San Francisco.



Timothy P. Lodge, Recipient of the ACS National Award in Polymer Chemistry

Distinguished Service Award: POLY salutes its invaluable volunteer, Warren Ford, Oklahoma State University, in recognition of his contributions to the success of regional meetings. Dr. Ford began working on regional meeting programs in 2001, after he served as Program Chair 1998-2000. He worked with regional meeting program organizers to encourage them to hold first rate polymer symposia and arranging seed money to support keynote speakers in their symposia.

Past-Chair Recognition: The Polymer Division recognized Dennis W. Smith, Jr. for his outstanding service as 2009 Polymer Division Chair.

Plenary Lecture: The San Francisco, CA meeting featured a Plenary Lecture in conjunction with the joint POLY/PMSE Awards Reception. Dr. Paul Bloom, Archer Daniels Midland Company, presented the Plenary Lecture, "Opportunities for Renewable Chemicals: Impact and Needs".

The event was extremely well-attended and provided an opportunity to better recognize the excellence and community in our 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.



(left to right) Barry Farmer (POLY Chair) and Warren Ford (2010 Distinguished Service Award Recipient)



(left to right) Dennis W. Smith, Jr. (2010 Past Chair Recipient) and Barry Farmer (POLY Chair)



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CONGRATULATIONS!

American Chemical Society - Division of Polymer Chemistry



2010 POLY FELLOWS

The new award recognizes Fellows of the Division of Polymer Chemistry for their achievement and contribution to our science and our organization. To inaugurate the Fellows program, a group of 59 distinguished past recipients of POLY awards, listed below, have been induced as founding POLY Fellows. POLY Fellowship is intended 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.

Harry R. Allcock
Eric Baer
Frank D. Blum
Neta L. Byerly
William J. Brittain
Charles E. Carraher
H. N. Cheng
Geoffrey W. Coates
James Crivello
Bill M. Culbertson
Frederick R. Dammont
William H. Daly
Joseph M. DeSimone
John P. Droske
James Economy

Alan D. English
Lewis J. Fetters
Jean Frechet
Robert H. Grubbs
Henry K. Hall
Janelle M. Hampton
Craig J. Hawker
James Hedrick
Paul M. Hergenrother
S. Randall Holmes-Farley
Richard M. Ikeda
Frank N. Kelley
Robert S. Langer
Robert W. Lenz
William J. MacKnight

James E. Mark
W. Harry Mandeville
Jimmy W. Mays
Anne M. Mays
Wayne L. Mattice
Krzysztof Matyjaszewski
James E. McGrath
Robert B. Moore
Robert S. Moore
Bruce M. Novak
Thomas J. Pacansky
Donald R. Paul
Eli M. Pearce
Lloyd M. Robeson
Ann B. Salamone

Joseph C. Salamone
Richard S. Stein
Robson F. Storey
Ulrich W. Suter
Timothy M. Swager
Gregory N. Tew
Edwin L. Thomas
David A. Tirrell
S. Richard Turner
S. Reddy Venumbaka
Otto Vogl
Thomas C. Ward
Garth L. Wilkes
Karen L. Wooley



Fellows received their plaques at the POLY/PMSE Awards Reception in March 2010 during the ACS National Meeting

Call for Nominations!

The POLY Fellows Selection Committee requests nominees for 2011 POLY Fellows. POLY respects the personal and professional diversity of its members and appreciates that some nominees will have either achievements in or contributions to either science or the profession that are so exceptional as to warrant recognition as a POLY Fellow. Nominations will be due to the POLY Business Office no later than July 15, 2010. The primary nominator is responsible for submitting a complete nomination package including the form, requested supporting materials, nomination letter, and all seconding letters. The nomination guidelines are posted on the POLY home page at <http://www.polyacs.org>. The new Fellows will be recognized at next year's Spring ACS Meeting in Anaheim.

Graduate Student Travel Awards

The ACS Division of Polymer Chemistry's Membership Committee and the Industrial Advisory Board sponsor a program to provide funding for polymer graduate students to travel to ACS National meetings 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. Two \$500 grants may be applied for registration, travel, and accommodations. These awards are limited to one per institution. If you would like to apply, visit our travel awards page on-line at <http://www.polyacs.org/649.html>. Application deadline for the Spring 2011 ACS National Meeting to be held in Anaheim, CA will be due during October 2010. See the POLY website for specific deadline.

Congratulations to the 2010 Spring Graduate Student Awardees recognized at the ACS National Meeting in San Francisco!



Ms. Srijanani Bhaskar
University of Michigan, Ann Arbor, MI
"Self Assembling Biodegradable Bicompartamental Microparticles"
Advisor: Professor Richard M. Laine



Mr. Feng Liu
University of Massachusetts--Amherst, Amherst, MA
"Solution-Processed Oligoacene Single Crystal Transistors"
Advisor: Professor Alejandro L. Briseno

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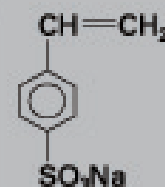


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6th Excellence in Polymer Graduate Research Symposium

As part of the Polymer Division's initiative on graduate student membership and graduate education, the Division started a special symposium, entitled "Excellence in Polymer Graduate Research" at the National ACS Meeting in Philadelphia in Fall 2004. Since then, we have organized this symposium every year in the Spring ACS meetings. The sixth symposium was held at the National ACS Meeting in San Francisco on March 22, 2010. As before, it consisted of two half-day oral sessions, a poster session, and a networking social.

The purposes of this symposium were 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 fill out an application form and have a nominating letter from the research advisor and a letter from the department head.

We had a record number of 36 students this year. We were very impressed with the quality of the papers and the caliber of the students. In the oral sessions 18 students gave talks on their papers, and in the poster session 18 students presented their work. Participants are listed on the right. Both the oral and poster sessions went very well. We appreciated the excellent presentations and the energy and enthusiasm that the students displayed.

As part of the recognition, each student received a certificate plus a cash award. It is important to note that Dr. Joe Francisco, the ACS President, had made this a Presidential Event. Furthermore, Dr. Francisco personally attended the session at the end and spoke to the students. He then mingled and chatted with the students for quite some time. Group photos were also taken with the students. Realizing that he had a hectic schedule at the meeting, we truly appreciated Dr. Francisco's support of the symposium and his efforts to speak to the students.

Afterwards, we had a networking social/dinner at Café Bellini. The students in both this symposium and the Undergraduate Symposium (organized by Sarah Morgan and Sergei Nazarenko) were invited. It was wonderful that members of POLY Executive Committees and POLY Industrial Advisory Board were also present. They interacted with the students over beer, pop, and pizza. We had a good time. Particularly noteworthy were the conversations among the students. We noticed that many graduate students talked to one another, exchanging information. Moreover, many graduate and undergraduate students sat together and talked about graduate schools.

This symposium was organized by ACS Polymer Division (POLY), and cosponsored by Presidential Event (PRES), Young Chemists Committee (YCC), Division of Professional Relations (PROF), Society Committee on Education (SOCED), and POLY. The symposium had the generous support of National Science Foundation Division of Materials Research (DMR), ACS Polymer Division (POLY), Industrial Advisory Board of the Polymer Division (IAB), and Lord Corporation. The organizers thank all the sponsors and supporters, without whom this symposium would not have been possible.

Symposium Organizing Committee:

H. N. Cheng
USDA

Christopher J. Ellison
University of Texas at Austin

Erica H. Martin
Dow Chemical Company

Timothy E. Long
Virginia Tech



Oral Session

Mary Caruso, University of Illinois
Cole DeForest, University of Colorado
Hongchen Dong, Carnegie Mellon University
Nalini Gupta, University California, Santa Barbara
Bo Yun Kim, University of Arizona
Ohm Krishna, University of Delaware
Jeffrey Lancaster, Columbia University
Fang Liu, University of Southern Mississippi
Joseph Lott, Case Western Reserve University
Hua Lu, University of Illinois
Michelle Mok, Northwestern University
Angela Osborn, Virginia Tech
Brandon Rowe, University of Texas
Parul Rungta, Clemson University
Shilpi Sanghi, University of Massachusetts
Kelly Schultz, University of Delaware
Jeffrey Strahan, University of Texas
Wenbin Zhang, University of Akron

Posters Session

Jeremy Bartels, Washington University, St. Louis
Ross Behling, Iowa State University
Sanchita Biswas, Central Florida University
Liang Cao, College of State Island – CUNY
S. Carter Fox, Virginia Tech
Manoj Ganesh, Polytechnic Institute University - NY
Saugata Gon, University of Massachusetts
Liang Gwee, Drexel University
Juan Pablo Hinestrosa, Clemson University
Jianbo Hou, Virginia Tech
Doo-Hyun Ko, University of North Carolina
Xiaohong Li, University of Akron
Jared Mike, Iowa State University
Edmund Palermo, University of Michigan
Sheryllene Pinnock, Binghamton University
Robert Sandoval, Northwestern University
Cristina Stefanescu, Louisiana State University
Priscilla Taylor, Cornell University



Undergraduate Research in Polymer Science Symposium

The fifth annual Undergraduate Research in Polymer Science Symposium was held at the San Francisco ACS National Meeting. There were eleven oral presentations and thirteen posters from students from nineteen universities across the country. The National Science Foundation Department of Materials Research sponsored travel awards for the top ten preprints. The POLY Division Industrial Advisory Board sponsored best oral and best poster presentations. The program was co-sponsored by POLY, The Society Committee on Education and The University of Southern Mississippi and culminated with a joint reception with the Excellence in Graduate Research Symposium. The two symposia were recognized as Presidential Events. The travel award winners are listed below.

The POLY IAB awards were presented to Brian Aguado, Stanford, and Jennifer Chan, Georgia Tech, by Diana Gerbi, 3M, of the awards committee. The symposium was organized by Sarah Morgan and Sergei Nazarenko of the University of Southern Mississippi.

Travel Award Winners:

Brian Aguado, Stanford
Jennifer Chan, Georgia Tech
Christopher Childers, University of Evansville
Kenneth Drombosky, Akron Univeristy
Aaron Ham, Texas A&M University
Courtney Jenkins, St. Louis University
Jenny Lin, Pomona College
Brennen Mueller, University of Texas
John Swanson, California Polytechnic State University
Matthew Zhou, Williams College



(left to right) Diana Gerbi, Sarah Morgan, Jennifer Chan, and Sergei Nazarenko. Jennifer Received Honors for 2010 1st Place Paper.



(left to right) Diana Gerbi, Sarah Morgan, Sergei Nazarenko, and Brian Aguado. Brian Received Honors for 2010 1st Place Poster.

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POLY Web-Site 1993-2010 and Beyond

by Frank Blum

In 1993, electronic communications were just coming on line to the scientific main stream. At that time, I started the Poly List Serv (electronic discussion list) for Poly members. This list is used today as a medium for distributing POLY information. Two years later in 1995, the burgeoning worldwide web looked like an attractive medium for disseminating information in a different way. Thus, the POLY web pages were born. These web pages were intended as a way for the division leadership to provide information to the membership as a whole. I was in my second term as Secretary of POLY under Kurt Frank's leadership as Chairman. As Secretary, I had a good knowledge of the information that was important to members.

The basic structures of the web pages were primarily to highlight news, meetings, Polymer Preprints, national meeting activity awards, jobs, and to provide a bit of a historical perspective on POLY. In the early days, the pages were housed on the University of Missouri-Rolla server. Many people came to the Poly Web Pages looking for how to access Polymer Preprints and "Jobs". The web pages became defacto means to identify and contact symposium organizers for national meetings. Web access has also become a major mechanism for getting information out about the details of programs for the Poly Workshop. The workshops are extremely important to the financing of the division. In addition, information on various Poly Awards calls can be found there.

One of the unexpected aspects of the Web Pages (at least by me) was the popularity of the job site. In retrospect, it is not surprising, but the job pages got more views than anything else. Early on, the jobs site was open to everyone. At a later date, the Executive Committee decided that this was a member benefit that would be available for members only. At that time, it was put behind a login system in cooperation with the American Chemical Society.

One additional aspect of the Web Pages is its use for being a public means of archiving some information for the division. How this will play out in the long run is uncertain, but for now it seems like a viable place where POLY history, such as who was Chair when, or previous award winners can be found.

In 2003, a new site was built and housed on servers provided by a commercial vendor. To that, a consistent menu system was added. In 2009, the Web Pages were transferred to a commercial site and the stewardship changed to Dr. Christine Landry-Coltrain at Eastman Kodak. This has given the Web Pages a more modern feel, and added simplicity and flexibility to the structure with the capability of displaying image slide shows, videos, and much more. The Web Pages are also completely searchable. The "new look" is shown below.

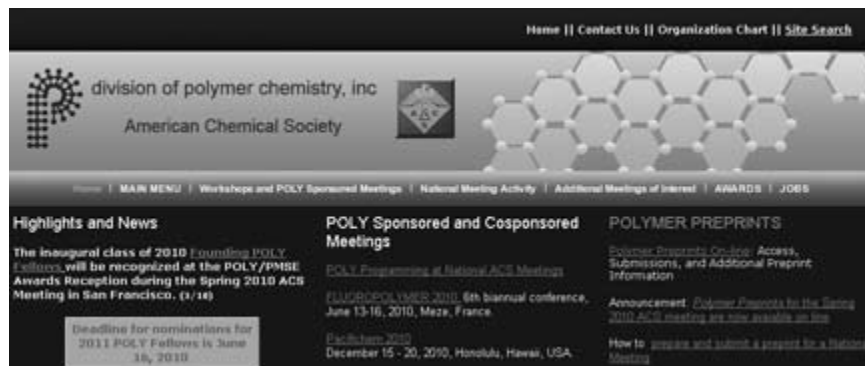
For me, the 15 years that I spent as the Poly Division Webmaster has been a fair bit of work, but I have enjoyed it.



Frank Blum
POLY Web Manager-1995-2009
List Serv Manager 1993-Present



Christine Landry-Coltrain
POLY Web Manager
2009-Present



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- Books from ACS and Other Publishers
- Electronic Discussion List
- Membership Benefits and Activities
- POLY Member Center
- General POLY Information
 - Organization Chart
 - POLY Board Address List
 - Election Information
 - Division Bylaws
 - Executive Committee, Councilors, and Board Reports
- History of the Division
- Awards
- Jobs
- Application to Join the Division
- Education
- Polymer Division Students' Page
- Other Web Sites of Interest

We have what you are looking for!

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

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.

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Member-At-Large

by Michael Meador

We need your help! I'm excited about what we have planned for this year, but we can't do **anything** without your help and involvement. Since 2001, POLY membership has declined from about 8200 to nearly 5600. Over the past few months, the Membership Committee (H.N. Cheng, Dave Germack, Alan Hopkins, Mary Ann Meador, Thompson Mefford, Matt Miri, Manuela Ocampo, Deana Pickel and Joe Pickel) and I have been working on three new initiatives to grow the Division:

Increase the number of new members – This year, POLY will be having a membership drive. We need all of you to be "POLY-advocates", tell colleagues and students who are not members about the benefits of POLY membership and encourage them to join.

Maintain current membership – Over the next few months, we will be sending out an electronic survey to all members. We want to know why you choose to be a POLY member, what you feel are the most important benefits of POLY membership, and what else POLY could do to make your membership more valuable to you. Please take a few minutes to complete and return the survey.

Grow student participation and increase the number of student chapters – POLY's future depends upon our ability to attract student members, get them involved in POLY, and keep them involved after graduation. We need your ideas about increasing student participation and your help in establishing new POLY student chapters. While there are about 60 US colleges and universities that have some type of polymer program, POLY only has 3 student chapters (Clemson, Michigan, and Southern Mississippi). Check out their updates in this newsletter! We need volunteers to help organize chapters at a college or university and regional chapters where there might not be a critical mass of students at a single school. POLY will provide support and advice to get new chapters started.

I'm excited about what we have planned for this year, but we can't do anything without your help and involvement. I want to hear your opinions about how we can achieve these objectives and your thoughts on how we can make POLY work best for you – send me an e-mail at Michael.A.Meador@nasa.gov. Thanks for your continued support and service to POLY!

Upcoming POLY Award Deadlines

Carl S. Marvel Creative Polymer Chemistry Award

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

Upcoming Application Deadline - 7/1/10

Herman F. Mark Polymer Chemistry Award

To recognize outstanding research and leadership in polymer science.

Upcoming Application Deadline - 11/1/10

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Mark Scholars Award

Including: Young Scholar, Scholar, and Senior Scholar

To recognize excellence in basic or applied research and leadership in polymer science by scientists of all ages.

Upcoming Application Deadline - 11/1/10

Sponsored by: Elsevier

For award instructions and additional information, please visit the
POLY Web Site

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

or contact:

Thomas Seery, University of Connecticut

Phone: 860-486-1337

E-mail: thomas.seery@uconn.edu

POLY Elections Information

The second on-line POLY election was held fall 2009 with a success of over 19% membership participation. POLY anticipates a repeat performance with our 2010 on-line election. The slate of candidates for the upcoming election will be selected by the nominating committee and approved by the Executive Committee this summer. The slate will be posted on-line prior to the Fall ACS National meeting.

An e-mail will be sent to all voting members this fall which will contain a web site address and login instructions. The website will include candidate information and the on-line ballot. 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 to the New 2010 Officers

Vice-Chair:

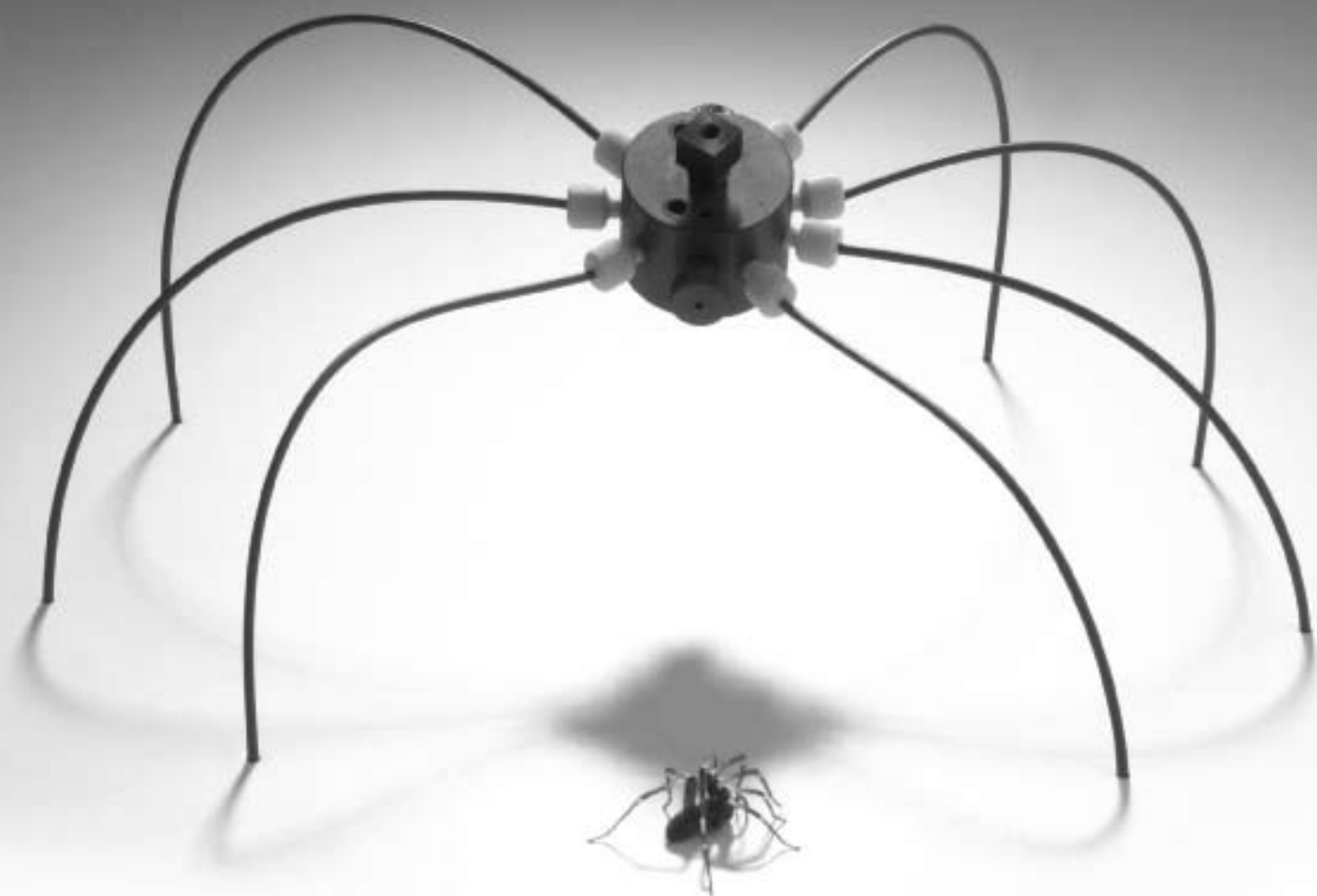
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Upcoming Polymer Division Workshops

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WWW.POLYACS.NET
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Silicon-Containing Polymers and Composites



December 11-14, 2010
Omni Hotel
San Diego, California USA

WWW.POLYACS.NET

Chair:

Dr. Joseph M. Mabry
Air Force Research Laboratory
Propulsion Materials and Applications
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Phone: 661-275-5857 E-mail: joseph.mabry@edwards.af.mil

Session Topics:

- Polysiloxane polymers & copolymers
- Nanocomposites
- Sol-gel chemistry & polysilsesquioxanes
- Polyhedral oligomeric silsesquioxanes
- Wetting-resistant surfaces & coatings
- Silica, silicate, & silsesquioxane fillers
- Industrial elastomers & plastics
- Composites, hybrids, & interfaces
- Anti-fouling & anti-icing surfaces
- Structure/property relationships
- Fluoro-silicones
- Organosilicon chemistry
- Silicon-containing copolymers
- Ceramics & glasses
- Bio-silification & bio-medical applications
- Adhesives

Advances in Materials for Proton Exchange Membrane Fuel Cells Systems



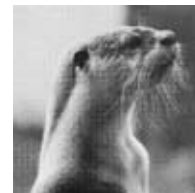
Asilomar Conference Grounds
Pacific Grove, California, USA
February 20 - 23, 2011

WWW.POLYACS.NET

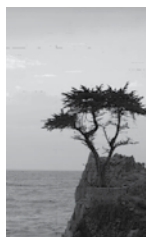
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Advances in Materials and Processes for Polymeric Membrane Mediated Water Purification



February 27 - March 2, 2011
Asilomar Conference Grounds
Pacific Grove, California USA

WWW.POLYACS.NET

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Polymers in Medicine and Biology

September 2-5, 2011
Hilton Sonoma Wine Country
Santa Rosa, California USA

WWW.POLYACS.NET

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Topics of Interest

- Synthesis of biomedical polymers
- Clinical application of biomedical polymers
- Commercial development of Biomaterials
- Surface modification
- Controlled release
- Biomolecule absorption and immobilization
- Biomedical Polymers in Global Health
- Environmentally sensitive polymers
- Polymer nanotechnology
- Biodegradable polymers
- Tissue engineering and scaffolds
- Diagnostics, sensors and arrays
- Non-fouling surfaces
- Other topics relevant to biomedical polymers



Advances in Polyolefins: 2011

September 25-28, 2011

Hilton Sonoma Wine Country
Santa Rosa, California USA

WWW.POLYACS.NET



Workshop Organizer

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Polyolefins Catalysts Division
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Session Topics:

- 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



WWW.CPE.VT.EDU/MACRO2012/

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ACS - Pacifichem 2010 International Chemical Congress of Pacific Basin Societies

Honolulu, Hawaii
December 15-20, 2010

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Chemistry and Functional Properties of Soft Interfaces (#42)

Symposia Organizers: Atsushi Takahara, Kazuo Kurihara, Kenneth Wynne, Kookheon Char, Mizuo Maeda, Zhaohui Su, Gregory G Warr

Controlled/Living Radical Polymerization: Mechanisms, Catalysts, Reaction Engineering, Materials and Applications (#236)

Symposia Organizers: Shiping Zhu, Bo-Geng Li, Krzysztof Matyjaszewski, Takeshi Fukuda, and Michael Monteiro

Functional Block Copolymer Assemblies (#57)

Symposia Organizers: Timothy Lodge, Marc Hillmyer, Charles Han, Joona Bang, and Yushu Matsushita

Hybrid Conjugated Polymer Materials (#82)

Symposia Organizers: Michael O. Wolf, Suresh Valiyaveetil, Rigoberto Advincula, and Kimihisa Yamamoto

NMR Spectroscopy of Polymers: Innovative NMR Strategies for Complex Macromolecular Systems (#12)

Symposia Organizers: Tetsuo Asakura, Alan English, H.N. Cheng, Fumitaka Horii, Peter Macdonald, Andrew Whittaker, Hans W. Spiess, and Jeffery White

Polymer Nano-Hybrids at Bio-Interfaces (#127)

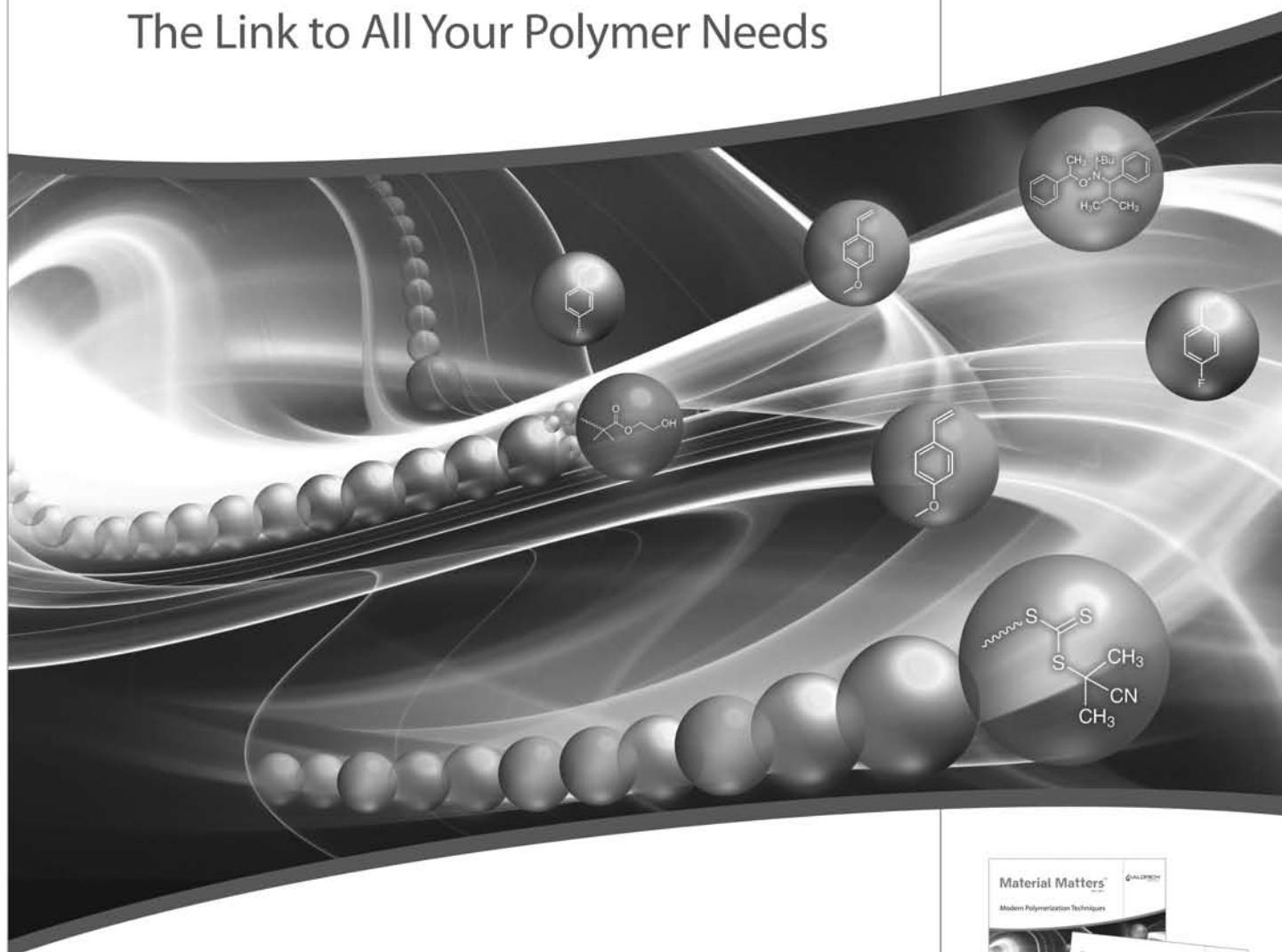
Symposia Organizers: Yoshiki Chujo, Kenneth Wynne, Kathryn Uhrich, and Chang-Sik Ha

Polyolefins Chemistry and Beyond - From Bench to Commercial Scale (#211)

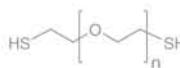
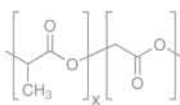
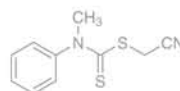
Symposia Organizers: Fazle Sibtain, Robert Waymouth, Kyoko Nozaki, and Michael Chan

View these and additional symposia topics on-line at:
<http://www.pacifichem.org/partsoc/>

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POLY/ACS National Meeting Activity

Future ACS Meetings

240th August 22–26, 2010
Boston, Massachusetts

241st March 27–31, 2011
Anaheim, California

242nd Aug. 28–Sept. 1, 2011
Denver, Colorado

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

244th August 19–23, 2012
Philadelphia, Pennsylvania

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

246th September 8–12, 2013
Indianapolis, Indiana

247th March 16–20, 2014
Washington, DC

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

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

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
- From Molecules to Macromolecules: Toward Self-Assembling Materials
- Frontiers in Polymer Characterization
- General Topics in the Design and Synthesis of Polymers
- General Topics in the Characterization of Polymers
- Polymers for Immunology and Immunotherapy
- International Bio-Related Polymers Symposium
- Medical Applications of Polymers
- Memorial Symposium in Honor of H. Benoit: Scattering and Soft Matter Characterization
- Nanoscience in Polymer Chemistry
- New Catalysis in Polymer Synthesis
- Polymerizations and Polymer Modifications that Utilize Thiol-X Click Reactions
- Polymer Science and Energy: Current Directions and Future Opportunities

241th ACS National Meeting, Anaheim, CA

March 27–31, 2011

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

Overall Theme: Chemistry for Natural Resources

- Aerogels, Foams and Nanoporous Materials
- Batteries and Fuel Cells
- Bioinspired Self-Assembly of Macromolecules
- Excellence in Graduate Polymer Research
- Functionalized Polyolefins and ROMP Materials
- General Topics in the Design and Synthesis of Polymers
- General Topics in the Characterization of Polymers
- Materials and Chemicals from Renewable Resources
- Molecular Recognition and Molecularly Imprinted Polymers
- Nanoscience in Polymer Chemistry
- Polymer Precursor-Derived Carbon
- Post-Polymerization Functionalization Methods
- Undergraduate Research in Polymer Science

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>

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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; 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.

University of Michigan POLY Chapter

by Arlyne Simon



Arlyne Simon,
President



Kristi Anseth



(left to right) R. Laine, S. Spanniga,
A. Simon, J. Feldyblyum, and D. Flynn



(left to right) S. Bhaskar, E. Palermo,
and A. Simon

Michigan. Edmund Palermo (Advisor Kenichi Kuroda), our chapter's immediate Past President, served as the Macromolecular Science and Engineering Program's Representative at the meeting. Other attendees included Sarah Spanniga (Advisors David Martin and Zhan Chen) and Anne Juggernaut (Advisor John Hart).

Chapter Officers:

Dr. Richard Laine, Faculty Advisor
Arlyne Simon, President
Sarah Spanniga, Vice President
Jeremy Feldblyum, Treasurer
Jaewon Yoon, Secretary
Daniel Flynn, Social Chair



Clemson University POLY Chapter

by Rajnesh Verma



Rajnesh Verma,
President

Hello all once again. This is the time of the year where some of you are preparing for exams, looking for jobs, and trying to carve a niche for yourself in this competitive and fulfilling world of scientific research. I would like to wish good luck to everyone who are pursuing their interest, desire and passion with utmost faith, grit and determination. This is the last time you will be hearing from me as the president of University Chapter of ACS Polymer Division at Clemson University, as

our research group is going through a transition. I would like to draw your attention to the accomplishments that we have achieved in the last three years, which would not be possible without your support. I will always be obliged to the members of this Chapter. I'm sure the University Chapters of ACS Polymer Division will continue to flourish here at Clemson in the coming years with all your support. I would also like to wish good luck to all the future members and leaders of this Chapter here at Clemson University.

The Chapter here at Clemson University has been a part of raising awareness in elementary students at different schools through different road shows over the past three years, which included demonstrations and learning experiments for children. It emphasizes the importance of polymers in day-to-day life. It is always nice to see those little faces suddenly filled with curiosity and excitement.

This Chapter has been a successful part of the magnetic symposia 2009 held at Clemson University and also participated in the Southern Rubber Group meeting 2009 held in Charleston. We have maintained a strong presence in different ACS conferences and other international conferences, and we are very well received by the people from industries and other scientific research institutions. We are in constant dialogue with industry for the benefit of Chapter members.

We have actively collaborated with the Southern Rubber Group in the meeting held in 2009 in Charleston, and involved with the Center for Advanced Engineering Fibers and Films (CAEFF) and the Center for Optical Material Science and Engineering Technologies (COMSET). We were also involved with different University Chapters here at Clemson University encompassing Clemson University Rubber Division (CURDS) and Material Science Society (MRS) for hosting guest lectures and will continue to do so.

I would like to wish luck for the future leaders of University Chapter of Polymer Division here at Clemson University and hope with all of your support and efforts they will achieve excellence for this Chapter and all beyond.



IN MEMORIAM

Charles E. Hoyle

It is with great sadness that we relay the unexpected passing on September 7, 2009 of Dr. Charles E. Hoyle, a pioneer and leading scientist in the photopolymerization and photochemistry fields. Charlie received a B.S. degree in Chemistry from Baylor University in Texas in 1972. He subsequently obtained Masters and Doctorate degrees in Chemistry under the direction of Professor Fred Lewis at Northwestern University, concentrating on small molecule photochemistry. After spending almost two years at the University of Toronto in Jim Guillet's lab dealing with polymer photophysics, he joined Armstrong World Industries in Lancaster, PA in 1978 where he investigated polymer photodegradation and photoinitiated polymerization. In 1983, he came to the University of Southern Mississippi, where he obtained dual appointments in Polymer Science and Chemistry. During his 25-plus years at the University of Southern Mississippi, he focused on all aspects of polymer photochemistry and photophysics including photopolymerization, photodegradation, polymer luminescence, and laser flash photolysis. He earned world-renown as a photo-chemist with special emphasis on the photochemistry and photophysics of polymers in which he studied the interaction of light with polymer molecules and also the use of light to initiate the formation of polymers. He is the author of more than 160 refereed publications. His work has been cited nearly 2500 times.

Charlie Hoyle represented the kind of person that we should all aspire to be, on both the personal and professional sides of our lives.

Charlie was a dedicated and caring teacher and mentor to undergraduate and graduate students alike. He will be remembered for his honesty and fairness and also his passion for thoroughly educating students by challenging them while maintaining a pleasant environment for learning.

Submitted by Robert Y. Lochhead

IN MEMORIAM

Ephraim Katchalski-Katzir

With the death on May 30, 2009 of Ephraim Katchalski-Katzir the polymer community lost one of the most outstanding of its members. His work and that of his many brilliant collaborators demonstrated for the first time that polymer chemistry may find important applications to biochemistry, medicine and biotechnology. The synthesis and study of poly(amino acids) showed that they may serve as excellent models for the interaction of proteins with enzymes and antibodies and that they make it possible to quantify their tendency to form the helical configuration which is one of the principles governing the structure of proteins. The introduction of immobilized enzymes made possible the enzymes' repeated use in the biotechnology industry.

Ephraim was born in Kiev, USSR, in 1916 and came with his family to Jerusalem in 1925. He headed the Department of biophysics at the Weizmann Institute from 1949 to 1973, when he was elected president of Israel. While president he was host of Anwar Sadat, president of Egypt, during his historic visit to Jerusalem to address the Israeli Knesset. When visiting him, I was amazed how he managed to keep up with scientific developments in spite of his many duties.

Submitted by Herbert Morawetz

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POLY Councilors' Report of the San Francisco ACS National Meeting

At the San Francisco National Meeting (March 21-25, 2010), POLY was represented at the ACS Council by Bill Daly, H. N. Cheng, John Pochan, and Diana Gerbi. The following account summarizes some selected activities in the committees and groups that POLY Councilors are involved in.

Division Activities Committee, DAC (John Pochan)

- Electronic dissemination of meeting talks. This will continue at Boston in an expanded form. An ACS task force is now focused on business models and policy aspects of the effort. Bill Daly will serve on the task force. These policy aspects include the touchy topic of whether journals would regard these public presentations as a publication prior to submission to them. POLY continues to support this effort. **Thematic programming. Themes for the next five national meetings are as follows: Fall 2010 Boston - Chemistry for Combating and Prevention Disease; Spring 2011 Anaheim - Chemistry of Natural Resources; Fall 2011 Denver - Chemistry of Air, Space and Water; Spring 2012 San Diego - Chemistry of Life; Fall 2012 Philadelphia - Materials for Health and Medicine.** The Philadelphia meeting is an ideal venue for a POLY member to be thematic chair for the meeting. If you know of someone you feel would be apropos for this effort, please contact John Pochan (johnpochan@hotmail.com). Nominations for other future meetings are also welcome.
- An accolade for the Division. Three cheers for the POLY/PMSE effort of combining poster sessions with oral sessions. This is considered a best practice by MPPG and will be recommended to other Divisions as a better way to handle posters.

Committee on Meetings and Expositions, M&E (Bill Daly)

- The reviews on the ACS meeting in Washington (August 2009) were generally quite good, but the discontinuation of mid-day shuttle service was not well received. Full day service will be provided at future national meetings.
- The next meeting planned for Washington, Spring 2014, was moved to Dallas, Texas. The dates of the spring meeting coincided with the Cherry Blossom Festival in Washington with a resulting escalation in hotel prices. Meeting room access was also too limited to support all the technical sessions. Dallas has completed a new convention center and now appears to be a very attractive location.
- San Francisco abstracts totaled 12064 making it impossible to hold all the technical sessions in the convention center so the goal of having the meeting in a single location was not achieved.
- The new Program and Abstract Creation System (PACS) is proving to be a challenge to implement. The problems with PACS impact the publication of Polymer Preprints on the ACS web site. ACS staff have been encouraged to solve these problems ASAP.
- Several divisions chose not to program on Thursday afternoon. POLY and ORG did not program at all on Thursday. Analysis of the impact of this experiment reflects a decrease in Wednesday session attendance and no consistent trend in hotel occupancy.

Society Committee on Education, SOCED (H. N. Cheng)

- SOCED aims to support the development and implementation of ACS education programs and develop reports and recommendations to the ACS Board and Council that help define ACS' policies on issues relating to chemical education for the strategic development of current and future ACS educational activities and the support of science education reform nationwide.
- At San Francisco SOCED looked at a number of opportunities relating to both pre-college and higher education. Topics of discussion included undergraduate general chemistry curriculum, quantity and quality of high school chemistry teachers, and an ACS science education policy statement.

Senior Chemists Task Force (H. N. Cheng, Bill Daly)

In 2009 the ACS Committee on Committees (ConC) established the Senior Chemists Task Force, which



is designed to function as the focal point for senior chemists (those over the age of 50) within the ACS and the chemistry enterprise at large. It serves at least four roles: 1) To encourage and serve as a conduit for senior members to volunteer and contribute their energy and talent to the ACS, including governance, education, mentoring, and community projects; 2) To provide useful service and information to seniors, such as retirement and estate planning, consulting and part-time opportunities, and travels/tours; 3) To foster networking opportunities among seniors, both nationally and locally; 4) To represent senior chemists to interact with other elements of ACS governance, bringing awareness of their needs, fostering collaborations, and creating synergies. Eli Pearce is the Task Force chair. If you are interested in getting involved, please let Bill Daly or H. N. Cheng know.

Intersociety Polymer Education Council, IPEC (Diana Gerbi)

IPEC is a non-profit organization of polymer-related professional societies that promotes and supports teaching about polymers and polymeric materials in K-12 curricula. Most of IPEC's activity involves the Polymer Ambassadors. They conduct workshops at local, regional and national teachers' meetings, where the Ambassadors teach other teachers to use polymers in classroom instruction. Discussions at the San Francisco meeting included funding issues, Rubber Division not currently supporting IPEC, Polymer Ambassadors going from 2 meetings per year to 1 meeting per year, updating IPEC website, and linking to the current Polymer Ambassadors website.

Other Items of Interest

- ACS membership totaled 161,783 at year-end 2009, compared to 154,024 at year-end 2008. The number of registrants at the San Francisco meeting was 18,076.
- The ACS Leadership Development System (LDS) offers many face-to-face and on-line courses. Anyone interested can sign up to take them at www.acs.org/leaderdevelopment

Membership Benefits and Questions

Contact the Polymer Division Business Office for all your POLY membership questions!

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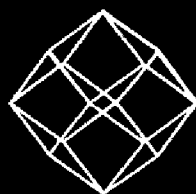
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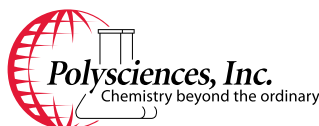
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