Fall 2007

INSIDE

Polymer

American Chemical Society

Division of Polymer Chemistry, Inc.

Editors: Janelle Hampton and Neta L. Byerly

POLY Election Information:

The slate of candidates has been selected by the nominating committee under Prof. Timothy E. Long, approved by the Executive Committee, and listed below. The biographical information and ballots are included in this mailing.

Vice-Chair:
B. L. Farmer, Air Force Research Lab.
E. H. Martin, Rohm and Haas Co.

Secretary:
K. L. Beers, National Institute of Standards and Technology
J. M. Hampton, Philip Morris, USA

Councilor:
W. D. Coggio, 3M Co.
J. M. Pochan, Cornell Univ.

Councilor:
D. L. Pickel, Eastman Chemical Co.
T. M. Reineke, Univ. of Cincinnati

Alternate Councilor:
D. J. Gerbi, 3M Co.
C. Weder, Case Western Univ.

James A. Moore
2007 Chair

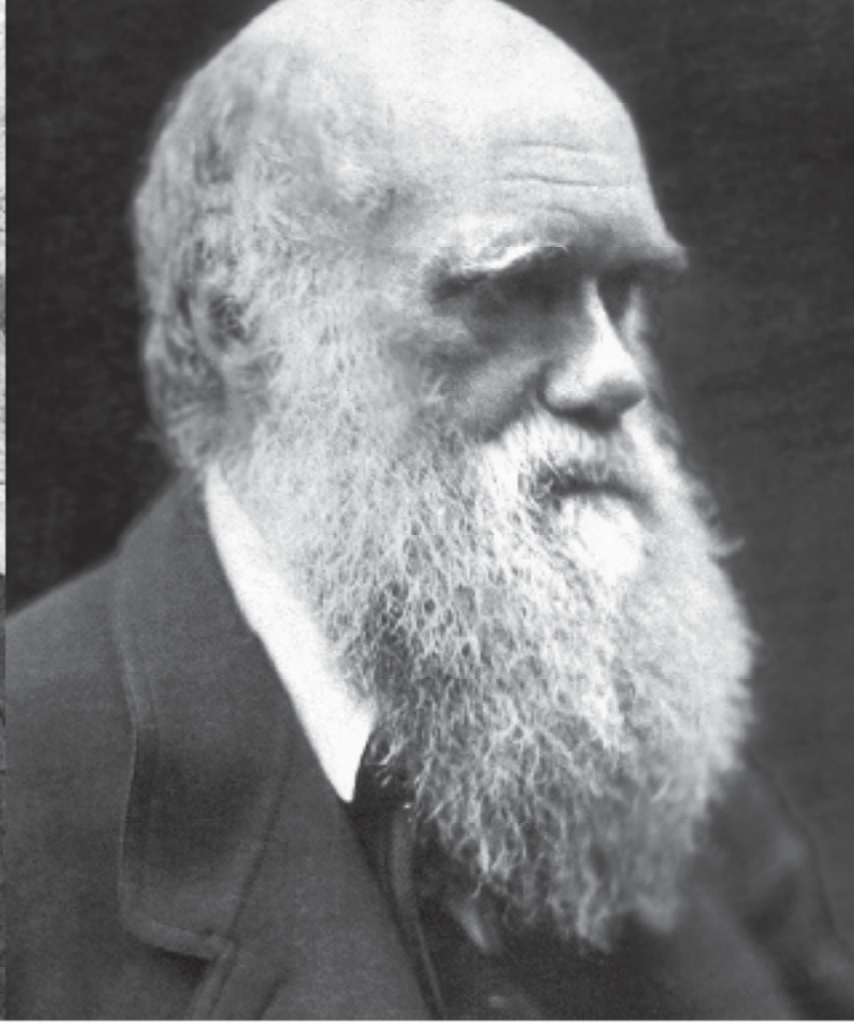
Chair's Message

Greetings! As I approach the latter half of my tenure as Chair of our Division I am pleased to recognize the outstanding accomplishments of all the volunteers who serve you. The Division of Polymer Chemistry was honored as one of four Divisions for overall outstanding service to their members at the Boston ACS meeting with a ChemLuminary Award. There are several exciting Workshops in areas of topical interest being offered by your Division (information about time and place can be found at www.polyacs.org). There are also several international meetings being co-sponsored by your division: "Polymers for Advanced Technologies", Oct. 22 –25, 2007, Shanghai, China and the 10th Pacific Polymer Conference, Dec. 4 – 7, 2007, Kobe, Japan. As an effort to broaden and strengthen our ties to other research areas we would like to call your attention to a symposium entitled "Renewable Resource Rubber & Recycling" that will be held in Cleveland, Oct. 16 – 18, 2007. This symposium is jointly sponsored by the Division of Polymer Chemistry and the Rubber Recycling Topical Group of the Rubber Division.

The excellent achievements of some of our members have once again been recognized – It was my pleasure to present the Herman Mark Award to Bob Langer and to also make the presentations of the Mark Scholars Awards to Kris Matyjaszewski, Craig Hawker and Greg Tew. Please visit the Division web site to inform yourself about all the awards offered by the Division (November 1 is the submission deadline).

The secret to the success of any organization is the participation of its members. I urge you to visit the Division web site to learn of all the activities being undertaken in your behalf and to get involved. At least find out who your representatives are and voice your concerns to them. I guarantee they are willing and anxious to hear from you.

The POLY Executive Dinner, ACS National Meeting, Boston, August 2007.



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Eclipse. The ultimate system for the separation of proteins and nanoparticles in solution.

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POLY Recognizes Outstanding Members and is Recognized for Outstanding Service to Members!

The POLY/PMSE awards reception held at the ACS National Meeting in Boston, MA, honored outstanding achievements by its members – including the Herman F. Mark Award, the first Mark Scholars Awards, and student travel awards. The ACS ChemLuminary awards session, where the Polymer Division was nominated for three awards and took home one, was also held during the meeting in Boston.

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.

The Herman F. Mark Polymer Chemistry Award winner for 2007 was Prof. Robert Langer (Massachusetts Institute of Technology) for his outstanding work at the interface of polymer science and biotechnology. Prof. Langer's contributions have been recognized worldwide. His many honors included the 2006 National Medal of Science and election to all three American Academies.

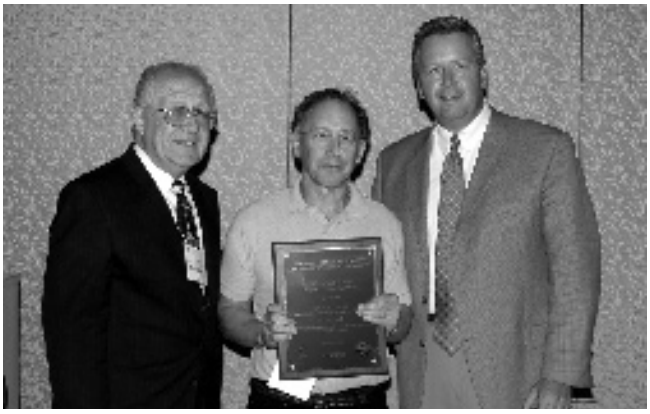
The first group of Mark Scholars included: Gregory Tew, Craig Hawker, and Kris Matyjaszewski. This year's Mark Young Scholar, Prof. Tew (Univ. of Massachusetts-Amherst) was recognized for his work around the design of biomimetic polymers. The Mark Scholar, Prof. Hawker (Univ. of California Santa Barbara) was recognized for his work on synthesis of polymeric nanostructures and Kris Matyjaszewski (Carnegie Mellon Univ.) the Mark Senior Scholar was acknowledged for his use of ATRP for the design of functional materials. Each scholar had a full session at the Boston meeting concluding with their award address, and the Mark Symposia were ended with the Mark Award session and an address by Prof. Langer. The Polymer Division thanks and recognizes these outstanding individuals for their work, dedication, and leadership within the field of Polymer Science.

Graduate Student Travel Awards: The Graduate Student Travel award was once again organized by the Polymer Division Membership Committee and sponsored by the POLY Industrial Advisory Board. The awards for the Boston ACS meeting were received by Camilla Graces (University of Akron) whose presentation was entitled "Oligomerization of 1,1-Diphenylethylene in the Endcapping Reaction of Poly(Styryl)Lithium" and Diana Smirnova (California Institute of Technology) who presented her work on "Flow-Induced Crystallization Polyethylene Copolymers".

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.

POLY Receives ChemLuminary Award: Each year the ACS recognizes outstanding service and programs by local sections and divisions by hosting the ChemLuminary Awards. In 2007, the Division was one of four divisions recognized for outstanding service to division members for the Symposium on Entrepreneurism in Polymers for the 21st Century held in San Francisco, CA at the Fall 2006 meeting. The symposium was made up of world-renowned speakers, co-sponsored by other divisions and societies, and also included the BMGT Whalen award address. This innovative symposium was then put online at www.polyacs.org so that members of the Polymer Division could log-on at any time and attend the talks given in that symposium.

Many other local sections and divisions also received awards at the ChemLuminary award ceremony, and the executive committee of the Polymer Division would like to extend congratulations to all those Division members who work within their local sections to promote the field of polymer science and serve the members of the ACS and the ACS Division of Polymer Chemistry.



(left to right) J. A. Moore, R. Langer, and J. DeSimone
Herman F. Mark Awardee and Presenters

(left to right) R. Turner, G. Tew, C. Hawker, K. Matyjaszewski, and J. A. Moore - Herman F. Mark Scholars Awardees and Presenters

(left to right) D. Smirnova, C. Graces, and R. S. Moore
Student Travel Awardees and Presenter

POLY Officers J. Hampton, E. Martin, D. Smith, Jr., and K. Havelka receive the ChemLuminary Award from ACS President-Elect B. Bursten (R) and DAC Representative B. Moriarty (L)

POLY Award Information

Carl S. Marvel Creative Polymer Chemistry Award
Sponsored by:
Rohm and Haas Company

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

Herman F. Mark Polymer Chemistry Award

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

Herman F. Mark Scholars Award

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

Upcoming Deadline - 11/1/07

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.

Paul J. Flory Polymer Education Award
Sponsored by:
Rohm and Haas Company

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

Nomination Instructions:

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

http://www.polyacs.org/

or contact:

Robert B. Moore
Virginia Tech
540-231-0641
rbmoore3@vt.edu
and
Thomas Seery
University of Connecticut
860-486-1337
thomas.seery@uconn.edu

National Starch and Chemical Award for Outstanding Graduate Research in Polymer Chemistry

(left to right) Rama Chandran, National Starch & Chemical Co. and Awardee Jason Rolland

The recipient of the 2007 National Starch & Chemical Award for Outstanding Graduate Research in Polymer Chemistry is Dr. Jason Rolland, who received his doctorate in 2005 from the University of North Carolina, Chapel Hill, under the direction of Professor Joseph M. DeSimone. Dr. Rolland's Ph.D. dissertation research focused on novel applications for perfluoropolyethers (PFPEs), primarily in the field of nanotechnology.

A versatile technique, Particle Replication in Non-wetting Templates, or "PRINT(TM)" was developed that uses low surface energy PFPEs, cast onto nano-featured master templates and cured to form transparent fluoroelastomers. These become molds containing billions of nano-scale cavities that can be filled with liquid precursors that are solidified and harvested to yield highly monodisperse populations of shape-specific, engineered nano-scale particles. PRINT(TM) has tremendous promise in several applications including delivery of therapeutics such as siRNA and drugs for cancer treatment.

In addition to the PRINT process, PFPE elastomers can be patterned with micron and nanometer sized features and used as molds for imprint lithography. In collaboration with IBM researchers, Dr. Rolland showed that features as small as 70 nm can be replicated in organic resins with 1 nm precision using PFPE molds. The PFPE molds are superior in terms of resolution, release, and compatibility when compared to either poly(dimethyl siloxane) (PDMS) or rigid materials.

Multifunctional PFPE formulations were also synthesized and used to fabricate transparent, elastomeric, microfluidic devices compatible with organic solvents and chemical reagents. These replace PDMS, which swells in most organic solvents and is not compatible with microchemistry platforms. Multilayer, complex microfluidic chips containing pneumatic valves were fabricated from PFPE materials. Due to their compatibility with chemistry platforms, PFPE-based microfluidic chips have recently been used in the synthesis of radiolabelled biomarkers, such as [F-18] 2-Fluoro-2-deoxy-D-glucose for PET imaging.

The award was presented at a symposium in Dr. Rolland's honor held by the Division of Polymer Chemistry at the American Chemical Society National Meeting in Boston August 19-23, 2007.

Congratulations POLY Awardees

ACS Award in Polymer Chemistry
to be presented at the
Spring '08 ACS Meeting

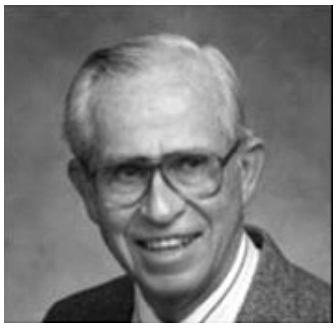
Dr. James E. McGrath
Virginia Tech

Sponsored by
ExxonMobil Chemical

National Medals of Science Laureates 2006 included:

Robert S. Langer
Massachusetts Institute of Technology

a complete list of National Medals of Science Laureates awardees can be found at www.nsf.gov/od/nms/medal.jsp



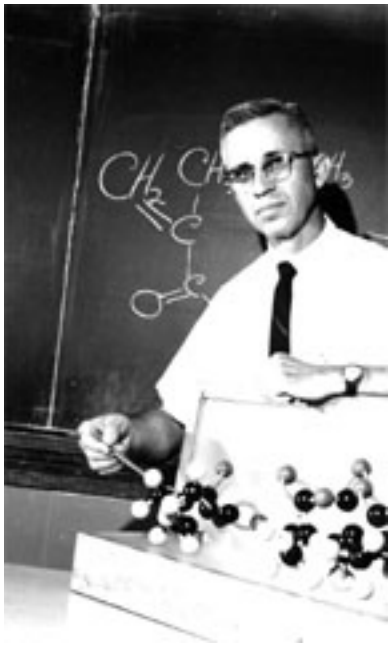
IN MEMORIAM

George B. Butler

George B. Butler, 91, the polymer chemist who introduced macromolecules to the University of Florida, died June 7th, 2007, in Gainesville, Florida. Born and raised in Liberty, Mississippi, educated at Southwest Mississippi Junior College, Mississippi College, and the University of North Carolina/Chapel Hill, Professor Butler was known as a kind and considerate gentleman who offered quiet advice and genuine friendship every day of his life.

Professor Butler's introduction to polymer chemistry came as a researcher at the Rohm & Haas Company in Philadelphia in the early 1940s, where he pioneered the synthesis of polymeric binders for propellants. In 1946 he and his wife Josephine moved to Gainesville, where he began teaching as an Instructor at the University of Florida. Today, 61 years later, more than 18 faculty and 120 students study macromolecular science and engineering on campus, a tribute to his remarkable academic career.

The Butler research program is perhaps best known for its discovery of cyclopolymerization, chemistry that has proven to be of enormous academic interest and practical importance. The $10,000 research grant he received from the Navy to pursue this chemistry was one of the first external grants to be awarded on campus. Well over 4,000 publications have dealt with various aspects derived from the original discovery. His and Professor Paul Tarrant's entrepreneurial spirit led to the establishment of Peninsular Chem Research Corporation in Gainesville, thereby spawning commercial development worldwide in the water treatment, textiles, cosmetics, paper, coal, and glass industries. These and other contributions led to his receiving the 1980 ACS Award in Polymer Chemistry, along with numerous other awards during his distinguished academic career.



More than 180 graduate students and postdoctoral associates recall Professor Butler as an outstanding mentor. These people and his other friends around the world remember him for his hard work, unwavering integrity, generous spirit, friendly nature, chemical insight, and fierce loyalty to those who depended on him.

Conveyed by
Ken Wagner

2007 National Polymer Graduate Research Conference a Huge Success!

The 2007 National Polymer Graduate Research Conference was a successful event held from June 3-7, 2007 on The University of Tennessee campus in Knoxville, TN. The POLY sponsored event was hosted by The University of Tennessee and Oak Ridge National Laboratory with valuable support received by numerous industrial and commercial organizations in the field of polymer sciences. The event was organized by Joe Pickel, Jamie Messman, and Sandra Solands (ORNL), Jimmy Mays (UT/ORNL) and Deanna Pickel (Eastman) and the cost to students was kept at an astoundingly low $125 for all events, rooms and meals! The conference drew about 175 students and representatives from industry, academics, and government to a variety of activities including student oral and poster sessions, an NSF sponsored tutorial, plenary sessions, social activities, a career and instrument fair, and tours of the Knoxville Rohm and Haas Plant and the Center for Nanophase Materials Sciences at ORNL. The first meeting of the Division of Polymer Chemistry Student Affiliate Chapters was also held during this conference (see related article on page 7). In addition, students enjoyed presentations from Bruce Bursten, Dean of Arts and Sciences at The University of Tennessee as well as President-Elect of the American Chemical Society, and Mark Stewart from Eastman Chemical Company who discussed the progress and future of polymers for the beverage industry (appropriately held at a local microbrewery). Plenary Speakers included Ken Mauritz (USM), Dan Brunelle (GE), James Hedrick (IBM), and Volker Urban (ORNL). The response to the conference from students and other attendees was overwhelmingly positive. Many thanks go out to the various organizers, sponsors, attendees and others who made the event such a success.

Scenes from the poster session and career/ instrument fair

The students enjoyed some fine Tennessee BBQ and Bluegrass during the Conference's Opening Dinner

Recruit a POLY Student Member today!

Visit the POLY web site at

WWW.POLYACS.ORG
for
Membership Information
Job web site
Travel Award Deadlines
Student Research Conferences
And More

Check Out the POLY Jobs Site

Did you know about the Jobs section on the Division web site? It's one of the many benefits solely for members of the Division. Whether you're in search of a job or in search of potential employees- this is the place to go. The popularity of the site is increasing. **Since January, the jobs site has had over 20,000 "hits"!** The site is divided into industrial, academic and postdoctoral opportunities and even has a section for summer internships, so there's a place for everyone. Job seekers can look through the postings or be more active and post their resume on the website. Visit the site today at http://www.polyacs.org/students/JobsHome.shtml.

POLY University Chapters Hold First Joint Meeting

The first gathering of the POLY University Chapters was held during the National Graduate Polymer Research Conference in Knoxville, TN. Representatives from current and potentially future chapters discussed the details of this emerging program and gave reports on development of individual programs including accounts of events already held and plans for future activities. Jeffery E. Raymond, president of the University of Michigan POLY Chapter and fellow members of the Chapter (Laura Povlich, Sarah Spanninga, Edmund Palermo, and Prof. Richard Laine- faculty advisor) discussed how they had developed the first Bylaws for their organization and how they were working on developing interactions and cooperation between students and researchers on-campus as well as polymer industries in their surrounding area. The President of the Clemson University POLY Chapter, Stephen Budy, spoke about the activities of his chapter and the challenges of organizing on a campus where polymer research is dispersed across multiple colleges and departments as well as scientific organizations (MRS, Rubber, etc.). Deanna and Joe Pickel from the POLY Membership Committee led the discussion.

Leaders of the Michigan and Clemson University POLY Chapters at the inaugural meeting.

The POLY University Chapter program was recently started to provide a means to include students and postdocs more fully in the activities of the Division of Polymer Chemistry. Initial chapters were formed at The University of Michigan, Clemson University and the University of Southern Mississippi and as the program develops, we hope to add more. The POLY University Chapters are being organized through the POLY Membership Committee. Please contact Deanna Pickel or Erica Martin for more information.

Getting to Know the University of Michigan POLY Chapter

The Polymer Division of ACS offers a myriad of benefits to professionals, academics and retirees alike. Its local and regional chapters host events and deepen ties in the polymer community. However, students at universities may feel that these activities are somehow beyond their reach. A more accessible, specifically student-oriented group might help increase POLY membership and help students start their careers on the right foot. The 2006-2007 school year saw the advent and inception of some novel student and campus chapters affiliated with POLY. The University of Michigan POLY University Chapter is proudly among them.

Goals: As studies in polymer science become increasingly multidisciplinary, it is important to bridge the many departments and colleges that perform research in our evolving field. For example, a molecular biology student interested in protein folding and an electrical engineering student who works with conducting polymeric thin-films could collaborate through our venue. Also, we will soon be implementing a personnel database to increase cross-departmental collaboration.

Polymer science is a ubiquitous, expansive field, often involving both basic science and immediate application. Therefore, many students may find it advantageous to prepare for both academic and professional career paths. Hence, we will be inviting both professional guests from industry and student members to speak at our meetings. Our goal is to provide students with early access to perspectives on the needs/demands of industry as well as to provide a venue in which student may hone their own presentation skills.

What We Do: A large fraction of the POLY membership is comprised of students and many senior members initially joined when they were in school. It stands to reason that there should be an active outreach to potential new members at the university level. Forming POLY University Chapters is a feasible method for expanding on-campus membership and generating life-long members who enter their careers with a working knowledge of the Polymer Division. Additionally, by interacting with these student-led organizations, senior members will provide mentorship, guidance and support. This will allow senior members to see their wealth of knowledge live on in the next generation of polymer scientists.

What You Can Do: While it is good for students to run an organization, guidance and support from members who have "been there" and "done that" certainly helps a great deal. If a POLY University Chapter should form in your region, why not donate some of your time as a Professional Advisor? Why not go and speak to the group about what you have done or are doing in your career? These would be great opportunities to share your knowledge and experience.

Questions? Contact: President Jeffery Raymond at jefferyr@umich.edu

Clemson University POLY Chapter Having Some Summer Fun!

The Clemson University POLY Chapter was formed by Stephen Budy (President) and Prof. Dennis Smith, Jr. (Adviser). On June 23, 2007, the CU POLY University Chapter went on their first excursion to play paintball together, along with the chemistry graduate student organization (CGSO). We are seeking to collaborate with other groups on campus, including the Center for Optical Materials Science and Engineering Technologies (COMSET), Center for Advanced Engineering Fibers and Films (CAEFF), Materials Research Society (MRS) Clemson student division, and Optical Society of America (OSA) Clemson student division. Future events are planned to be a BBQ and tailgating for the 2007 football season (Go Tigers!!!), as well as traveling and presenting at the Optics in the Southeast, SERMACS, MRS, and ACS meetings.

Frederick R. Dammont - A POLY Institution

Compiled by W. Val Metanomski

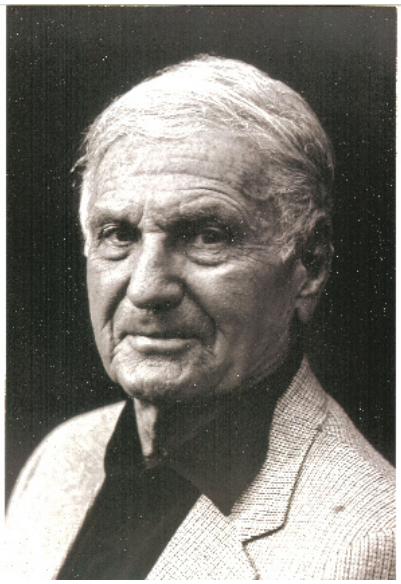
Fred Dammont in his Spring 2007 report to the POLY Executive Committee stated that he had shipped 239 copies of *POLYMER PREPRINTS* to the library subscribers, and added that the POLY circulation office, under his management, over the years, collected ONE MILLION dollars.

Since its inception, *POLYMER PREPRINTS* have been distributed free to all POLY members, this sum represents only paid subscriptions by academic and corporate libraries.

For a younger generation of POLY members, a couple of historical firsts might be helpful. A complete list of POLY historical milestones is at the POLY Web site: http://www.polyacs.org/history/poly.hist.appA.shtml

1960 *POLYMER PREPRINTS*
(1st issue of Volume 1) published
(Chester K. Rosenbaum, first editor)

1969 Circulation Manager of *POLYMER PREPRINTS* post established
(Robert Saxon, first manager)



There is a long list of duties of the Circulation Manager in the POLY Operations Manual, but basically the manager is responsible for maintaining records for library subscriptions of *POLYMER PREPRINTS*, for library subscription billing, and for payment collection. That includes filling all special and back-issue orders, taking care of justified claims, and holding adequate stock of back and current issues.

Jesse Hwa in his POLY History (1951-1991) wrote:

> *"The position of circulation manager was advertised in the Newsletter, and Bob Saxon of American Cyanamid in Stamford, among others, applied and got the job. Saxon held the position for 10 years from 1970 to 1979. Interestingly enough, with the exception of Hwa, who hired Saxon, practically no one knew him, because during the 10 years, he came to an ACS meeting only once. A frequent question asked at POLY Board meeting was, "Who is this man Saxon?".*
>
> *"Upon the retirement of Bob Saxon, Fred Dammont assumed the position of circulation manager, a position he holds to this day. He is another mystery man, constantly moving ahead with quiet efficiency to maintain and increase library subscriptions."*

I can assure everybody that Fred is not a mystery man. There is no need to ask "Who is this man Dammont?". While he has not attended many ACS National Meetings, regularly twice a year before every meeting he has been submitting a detailed report about his operations.

Fred assumed the post of the Circulation Manager in 1979 and is still at it. Fred is one of the few, if not the only one, who has served CONTINUOUSLY on the POLY Board for 28 years with undiminishing enthusiasm.

What may be less known is that Fred is also an award-winning amateur photographer and a veteran of over forty solo and numerous group print shows. His photographic essays reflect cultural and aesthetic aspects, characteristic for the geographical areas he visited in the course of his worldwide travels.

On a personal note, Fred and I have a common bond extending beyond the area of polymer chemistry. Our wives went to the same high school, organized by the Polish Army in Exile during World War II in Nazareth, then in Palestine under British mandate.

In 1984, Fred received the POLY Distinguished Service Award. Another recognition of Fred's contributions to POLY is long overdue. Perhaps this article would partially remedy this. There is no exaggeration that we consider *POLYMER PREPRINTS* a POLY "flagship", since this publication has become a premier journal in polymer science.

Comments from Fred

Following my family motto and yielding to the irresistible charm and power of persuasion of Shalaby Shalaby, firmly seconded by Jim McGrath and Joe Salamone, I took over from Bob Saxon, in 1979, the management of circulation of the POLYMER PREPRINTS. Bob resigned after being forced by the Princeton Police to get his station wagon off the street, back in his garage, which burst with back issues, and Mrs. Saxon sternly declared that this was definitely it.

I have started my tenure on a very sad note: Mitchel Shen, the Division Treasurer and my official boss was dying in California. To my relief, the always reliable Stan Israel took over. He not only taught me all I had to know about finances but it also started our friendship and association which lasted through all the offices later held by Stan. Bob Saxon enlightened me to the intricacies of commerce and after a few trips with a UHaul and Bob's station wagon I was in business. I truly knew that I had arrived when Otto Vogl presented me with a copy of Vol. 1-1. From then on, it was, and still is, some work and lots of fun. It was an honor and pleasure to work with wonderful editors: first with Richard Ikeda, then Bill Culbertson, Stan Israel . . . and now with Reddy Venumbaka, but my greatest satisfaction was being on the receiving end of all the compliments and admiration for the POLYMER PREPRINTS, and even more so, perversely, receiving the sometimes not very honest, claims for missing issues from libraries of important universities and world-renowned companies, which made me realize how much they value the POLYMER PREPRINTS to go to any length just to get another copy.

In the process of running circulation, I have even acquired some notoriety in Newark, where by now, all the judges who try parking violations near my post office know me, and are fully aware, that the POLYMER PREPRINTS and the airport, in this order, put Newark on the map.

And here comes the ***"Million Dollar Deal"****. Sometime, in February 2007, I passed the million dollar mark of money collected in payments for POLYMER PREPRINT library subscriptions. Now, by Mr. Gates' standards, this is nothing much to brag about, but then, in 1979, starting with issue 19-2, the price was $20.00 per subscription . . . Well into the next million, I will start, in October 2007, collecting payments for Vol. 49.*

I don't know what I would have done, over the years, without the help and support of the Divisional Business Offices, without Jane Vogl, Judy Pearce, and Neta and her staff, and without their inexhaustible patience and tolerance for my demands. My message to the editors, program chairs, authors, and their staffs is go on doing what you do so well, I am at your service and proud to be so.

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Upcoming Polymer Division

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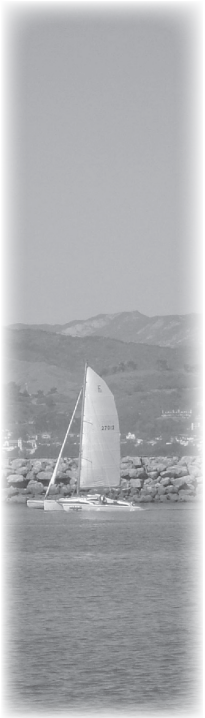
Lesia Linkous, ACS Division of Polymer Chemistry, Inc., Virginia Tech, 410 Davidson Hall, MC 0279, Blacksburg, VA 24061
Phone: 540-231-3052, Fax: 540-231-2588, E-mail: lesiar@vt.edu, Web: www.polyacs.org

Organic/Inorganic Hybrid Materials II



March 2-5, 2008

Ventura Beach Marriott
2055 Harbor Blvd., Ventura, California, USA

Organizers:

Frank D. Blum, University of Missouri – Rolla
Department of Chemistry
Rolla, MO 65409
Phone: 573-341-4451 - E-mail: fblum@umr.edu

Richard M. Laine, University of Michigan
Macromolecular Science & Engineering
3062C HH Dow Building, 3200 Hayward Ave.
Ann Arbor, MI 48109
Phone: 734-764-6203 - E-mail: talsdad@umich.edu

Confirmed Speaker List:

Clément Sanchez, CNRS
Yoshiki Chujo , Kyoto U
Emmanuel Giannelis, Cornel U
Richard Kaner, UCLA
Rich Vaia, Air Force Research Labs
Joe Schwab, Hybrid Plastics
Douglas A. Loy, Arizona U
Richard Laine, U Michigan
Frank D. Blum, U Missouri-Rolla
Rigoberto Advincula, U Houston

2008 POLY Biennial

Commercial Innovations and Opportunities in Polymer Science - "POLYCOM 2008"

May 4-7, 2008
Moody Gardens Hotel, Galveston, Texas, USA

Co-Chairs:

Prof. Dennis W. Smith, Jr., Clemson University
Phone: 864-656-5020
E-mail: dwsmith@clemson.edu

Dr. Kathleen Havelka, The Lubrizol Corporation
Phone 440-347-6088
E-mail: Kathyleen.Havelka@lubrizol.com

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Dr. Bronco Gordon, President, Polymer Innovations, Inc.
Prof. Frank Harris, CEO, Akron Polymer Systems, Inc.
Dr. Abhimanyu Patil, Exxon-Mobile Research & Engineering Co.
Dr. Earl Wagner, CEO, Tetramer Technologies, LLC

This first of it's kind conference invites industrial, national laboratory and academic scientists, technology managers, IP professionals, entrepreneurs, and technology transfer specialists to present their short or long term commercialization targeted innovations and opportunities in polymer science. Sessions will include breakthrough technologies from global experts around the world featuring polymer science solutions intended for existing or future commercial products.

US-Japan Symposium on Polymers for Optoelectric and Energy Devices

August 10-13, 2008

Four Points Sheraton
Ventura Beach, California, USA

Organizers:

Rigoberto C. Advincula	Hiroyuki Nishide
University of Houston	Waseda University
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USA	JAPAN
713-743-1760	81-3-3200-2669
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Topics:

- Electroactive Polymers
- Photonic and Optoelectronic Polymers
- Hierarchical Conjugated Polymers
- Hybrid and Nanocomposite Polymeric Materials
- Nano-Structured Polymers for Electro-optics
- Energy-Related Polymer Materials: Fuel Cells
- Polymers for Batteries and Capacitors
- Polymers for Printed Electronics
- Photovoltaic Polymers
- Polymers for Sensors

FLUOROPOLYMER 2008

October 2008
Charleston, South Carolina, USA

Chair:
Prof. Dennis Smith
Department of Chemistry, Clemson University, Clemson, SC 29634
Phone: 864-656-5020, E-mail: dwsmith@clemson.edu

Organizing Team:

Dr. Bruno Ameduri, CNRS, Montpellier, France
Dr. Heidi Burch, DuPont
Prof. Pat Cassidy, Texas State University
Dr. William Coggio, 3M
Prof. Darryl DesMarteau, Clemson University
Dr. Joe Mabry, AFRL, Edwards, CA
Prof. Atsushi Takahara, Kyushu University
Prof. Ken Wynne, Virginia Commonwealth University

Session Topics:

- Fundamental and Advanced Technology Tutorials
- Polymer and Copolymer Synthesis and Mechanisms
- Structure / Property Relationships
- Coatings and Surfaces
- Biological and Biomedical Applications
- Membrane and Energy Conversion Applications
- Photonic, Optical, and Electronic Applications
- Industrial Elastomers and Plastics
- Composites, Hybrids, and Interphases
- Semi-fluorinated Polymers for Emerging Applications
- Supercritical Fluid Processing

Workshops and Meetings

Advances in Materials for Proton Exchange Membrane Fuel Cell Systems - 2009

February 15-18, 2009

Asilomar Conference Grounds
Pacific Grove, California, USA

Co-Chairs

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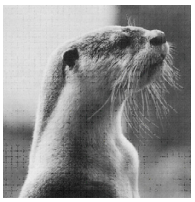

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The purpose of this workshop is to bring together a broad range of stakeholders in the area of membranes for water purification. One objective is to establish a constructive dialogue between government, academic and industry representatives so that a robust, shared vision of the opportunities and challenges facing this field can be formulated. Another objective is to bring together leading research scientists and engineers in this field from all over the world to foster networking that can stimulate collaborative research to solve the most challenging problems in the field today. The final objective of this workshop is to provide a series of state-of-the-art presentations outlining the status of membrane materials for various separations critical for the purification of water and to set forth the challenges that must be resolved to reduce next generation water purification systems based on membranes to practice.

IUMACRO-07: Macromolecules for a Sustainable, Safe and Healthy World

Plenary speakers, invited speakers and conference attendees on the steps of the Brooklyn Polytechnic University campus.

This strategic conference took place in Brooklyn, New York, June 10-13, 2007 and was jointly organized by the IUPAC Polymer Division, the POLY and PMSE Divisions of the American Chemical Society to assess the mission and challenges facing polymer science and technology. This is the first time such a jointly sponsored meeting was held between these three organizations. The conference, held on the campus of Brooklyn Polytechnic University in the heart of Brooklyn, New York, attracted 251 active participants of which a large fraction was students.

The conference was co-organized by Kalle Levon and Richard Gross (Brooklyn Polytechnic, USA), Dennis Smith and Anthony Guiseppi-Elie (Clemson U., USA), Hiroyuki Nishide (Waseda U., Japan) and Chris Ober (Cornell U., USA). Within its very concentrated timetable, after the conference was opened by Prof. Jung-Il Jin, IUPAC Polymer Division President, the conference followed with a presentation by Christine-Alsen Norodom of UNESCO on the topic of Education for Sustainable Development and a panel discussion, chaired by Dennis Smith, on the Challenges Facing Polymer Science Today: Sustainability, Safety and Health. The presentation and panel discussion set the tone for a highly interactive conference focused on global issues and the role of polymer chemistry in solving important societal problems.

The eight plenary talks provided ideal lead-ins to the subsequent discussions during the follow-on sessions. The eight plenary speakers were: J. DeSimone, UNC Chapel Hill; R. Gross, Brooklyn Polytechnic; M. Grünze, Universität Heidelberg, Germany; Nobel laureate A. Heeger, UC Santa Barbara; Y. Koike, Keio University, Japan; L. Lange, University of Copenhagen, Denmark; M. Lee, Yonsei University, Korea and Q.-F., Peking University and Jilin University, China.

Of the four sub-sessions for the meeting, two focused on Health and Global Security and one each on Sustainable Energy and Environment and Industrial Design, Manufacturing and Application. Details of the program can be found at: http://people.ccmr.cornell.edu/~cober/IUMACRO/index.html. A highlight of the conference banquet was the awarding the Biopolymer Award to Robert Lenz, UMASS Amherst, USA, for his contributions to Polymer and Biopolymer Science. Richard Gross, one of the conference co-organizers, made the award presentation.

Christopher K. Ober (cober@ccmr.cornell.edu) is the current vice president of the IUPAC Polymer Division. Ober is currently at Cornell University, College of Engineering in the Department of Materials Science & Engineering.

POLY/ACS National Meeting Activity

Future ACS Meetings

235th - New Orleans, LA
April 6-10, 2008

236th - Philadelphia, PA
August 17-21, 2008

237th - Salt Lake City, UT
March 22-26, 2009

238th - Washington, DC
August 16-20, 2009

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

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

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

242nd - *
August 28 - September 1, 2011

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

244th - New York, NY
September 9-13, 2012

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

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

247th - Washington, DC *
March 16-20, 2014

248th - San Francisco, CA *
August 24-28, 2014

*Pending ACS Board of Directors Approval

235th ACS National Meeting, New Orleans, LA
April 6-10, 2008

Program Meeting Chair: Kathryn Uhrich

- ACS Award in Polymer Chemistry in honor of James McGrath
- Branched Polymers in Emerging Technologies
- Efficient Chemical Transformations in Polymer Chemistry: Click Chemistry and Beyond
- Entrepreneurship in Polymers for the Energy and the Environment (Cosponsored by AIChE Materials Engineering and Sciences Division)
- Excellence in Graduate Polymer Science Research (Cosponsored by Younger Chemists Committee and Presidential Event)
- Flory Educational Award
- Functional Nano-Materials from New Polymer Synthetic Methodologies
- General Papers
- McDiarmid Memorial Symposium
- NMR Spectroscopy of Polymers
- Nonlinear Dynamics in Polymeric Systems (Cosponsored by Division of Polymeric Materials: Science & Engineering)
- Polymeric Materials of Medical Devices (Cosponsored by Division of Polymeric Materials: Science & Engineering)
- Polymers for Remediation and the Environment
- Progress in Vapor-Born Poly(p-xylylene)s, Preparation, Properties, Application
- Self-healing Polymeric Processes and Materials
- Stimuli Responsive Polymers
- Undergraduate Research in Polymer Science

236th ACS National Meeting, Philadelphia, PA
August 17-21, 2008

Program Meeting Chair: Christine Landry-Coltrain

- 5th Controlled/living Radical Polymerization Symposium
- 8th International Biorelated Polymers Symposium
- Carbohydrate-Polymer Hybrids; Biomaterials and Therapeutics
- Career Options/Areas in Polymer Science
- General Papers
- Heroes of Chemistry in Materials Advanced Applications
- Microwave Assisted Polymer Synthesis
- Polymeric Delivery for Therapeutics
- Polymers in Flat Panel Display Technologies
- Industrial Polymer Scientist Award

POLY SESSION INFORMATION

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

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ACS National Meeting Polymer Preprints & Abstract Submission

IMPORTANT MESSAGE TO CONTRIBUTORS!

Abstract Submission

Abstracts should be submitted through OASys (http://oasys.acs.org/oasys.htm), the ACS on-line abstract submittal system, available at the ACS meetings page. Upon abstract submission, a record number will be assigned, which must be used to submit a preprint (this ensures that abstract and preprint are linked).

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 OASys.

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). The word processing document file should not be submitted by e-mail or on diskette; it must be submitted through OASys, 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.

Annual Treasurer's Report

Submitted by Rigoberto Advincula
POLY Treasurer

The table below outlines the summary and status of the 2007 budget with respect to the current income and expenditures through July 2007 and is compared to the end-of-year figures for 2006 and planned 2007 budget.

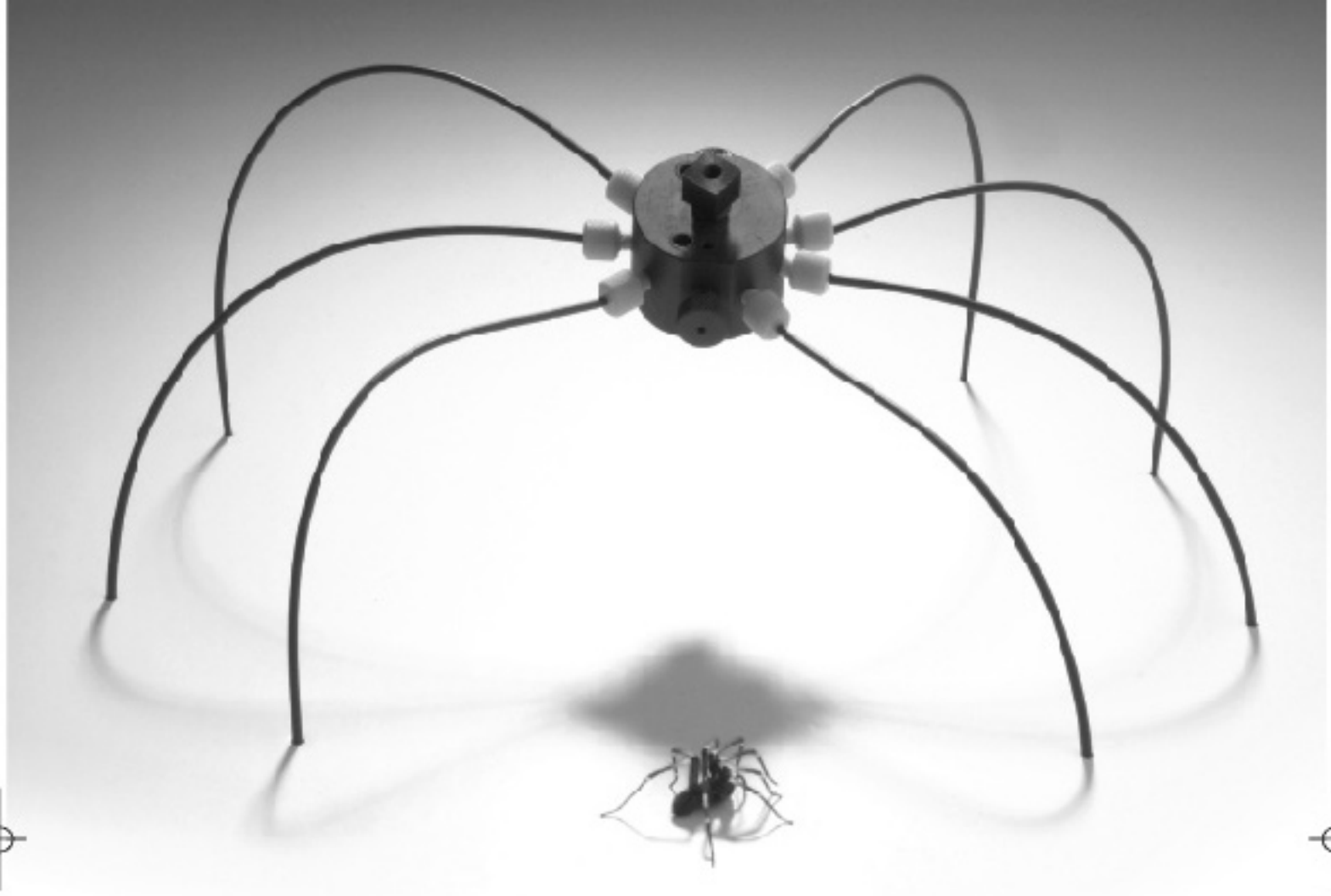
2007 Operating Budget Summary

	2006 Auctual		2007 Budget		2007 Actual to Date	
BUDGET CATEGORY	INCOME	EXPENSES	INCOME	EXPENSES	INCOME	EXPENSES
ACS Dues/Allocations	219,500	----	229,000	----	166,956	----
National Meetings Activities	32,258	121,302	66,500	132,000	18,319	46,426
Workshop Activities	224,718	144,840	265,000	199,000	225,763	180,325
Administrative	1,000	149,799	250	154,750	0	86,040
Publications & Advertising	63,044	108,756	57,000	111,500	48,061	60,563
Committee Activities	18,476	10,276	18,000	13,000	50,288	52,678
Total Budget*	600,026	558,101	635,500	635,500	512,764	472,432
Budget Delta	**41,925**		**0**		**40,332**	
Investment Balance					**609,759**	

**Total Budget reflects the balance for the entire budget and not the sum of the highlighted categories in this report. Other categories can be obtained from the official POLY Division Financial Report to the ACS.*

We continue to balance the budget and ensure that the expenditures are within the allocated figures agreed upon in the last 2007 Ex-Com meeting. Any questions may be directed to Rigoberto Advincula, POLY Division Treasurer, radvincula@uh.edu

POLYED
National Information Center for Polymer Education
http://www.uwsp.edu/chemistry/polyed/



The BI-MwA Molecular Weight Analyzer – it's small, tough and scares off the competition.

The Molecular Weight Analyzer from Brookhaven has all the outstanding qualities expected from an instrument that approaches polymer and protein characterization from every direction.

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The only thing it can't do yet is spin webs.... but we're working on it.

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ACS Division of Polymer Chemistry

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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:
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Frank D. Blum
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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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This newsletter is sponsored by the ACS Division of Polymer Chemistry, Inc. and is published twice per year, in the spring and in the fall.

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