

Fall 2002

Council's Report

National Meeting Programming C. D. Smith, C. Bowman

The Division of Polymer Chemistry had approximately 464 technical papers on the program of the National Meeting in Orlando, April 7-11, 2002. These technical papers may be divided into several categories: 135 oral and 57 poster presentations in topical symposia; 53 oral presentations in special award or anniversary symposia; and 48 oral and 171 poster presentations from general contributions. Highlights included:

2002 ACS Award in Polymer Chemistry Honoring Krzysztof Matyjaszewski sponsored by ExxonMobil Chemical Company

2002 ACS Polymer Division P.J. Flory Award in Polymer Education Honoring Ulrich Suter

2002 ACS Award in Applied Polymer Science Honoring James E. McGrath

Other symposia covered a wide range of timely topics of fundamental and applied interest: "Self-assembled Photonic Band Gap Materials" started with tutorial lectures, and then emphasize interaction of these types of colloidal crystals with light. "Recent Advances in Polymer Synthesis: Review and Progress in Methodology and Self-Assembly" is a special one-session symposium organized by Craig Hawker reviewing a wide range of current approaches for preparing polymeric materials. "Chromogenic Phenomena in Polymers: Tunable Optical Properties" covered a broad range of topics related to electrochromic polymers/devices, photochromic/stimuli responsive polymers, electroluminescence/tunable emission, polymers for chemical- and bio-sensors, tunable reflection and optically switchable materials, imaging, storage, patterning, and new polymers. "Polymer Diffraction Methods" covered recent academic and technological developments behind this type of characterization technology, including methods, biopolymer structure, evolution of structures and blend analysis. "Chemistry and Engineering of Polyolefins," cosponsored by PMSE and SPIE focused on emerging frontiers in the field, ethylene/alpha-olefin copolymers, polypropylene: old monomer-new polymers and general materials science issues in this field.

POLY is fortunate to have enthusiastic members who organize these outstanding programs for the entire polymer community.

All POLY abstracts and all Polymer Preprints for the Orlando meeting were collected by the ACS Online Abstract System (OASys). We continue to suggest improvements to ACS who now have a preprint help-line for authors to call. The system is working quite well for abstracts, but Polymer Preprints still suffer some problems, primarily in uptime and reliability of servers utilized by ACS (this meeting appeared better than past). Our turnaround is now quicker as a result of authors' realization of expectations, so our deadline for authors has been pushed back to about one month before the ACS deadline for program chairs. For Orlando, the timing was as follows: Author deadline was November 18, 2001; symposium organizer deadline was December 2, 2001 and program chair deadline for completion of program and delivery to ACS was

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December 18, 2001. This is about as tight as we can achieve under the current system in terms of author deadlines.

For the Fall 2002 meeting, the deadline for submission of Polymer Preprints and ACS abstracts at OASys is April 15, 2002.

Symposium plans for meetings through Boston Fall 2002 are complete. Symposia at the meetings in New Orleans Spring 2003, New York Fall 2003 and Anaheim Spring 2004 are partly scheduled to allow for programming of more timely topics as needed (see <http://www.chem.umr.edu/~poly/natl.meet.html>).

The committee aims to insure that symposia cover fundamental subjects in polymer synthesis, characterization and properties on a regular basis, and topics of industrial importance. The schedule of symposia at future ACS national meetings is on the POLY web site. Suggestions for symposia are welcome at any time. A form is available at the POLY web site showing the information the committee needs to consider a symposium suggestion

(http://www.chem.umr.edu/~poly/poly_link/reports/sympprop.html). Call, fax, mail, or e-mail suggestions to one of the program co-chairs, Christopher Bowman or Carrington Smith.

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National Meeting programming - C. Smith and C. Bowman

The Division of Polymer Chemistry will have approximately 766 technical papers on the program of the National Meeting in Boston, August 18-22, 2002. These technical papers may be divided into several categories: 305 oral and 232 poster presentations in topical symposia; 9 oral presentations in special award or anniversary symposia; and 48 oral and 191 poster presentations from general contributions.

Highlights will include:

2002 Division of Polymer Chemistry Industrial Sponsors Award Honoring Lloyd M. Robeson

A large symposium on Advances in Controlled Radical Polymerization organized by Krzysztof Matyjaszewski

A joint symposium with the Optical Society of America on Polymers in Photonics and Displays: Synthesis, Processing, and Devices

Symposia will cover a wide range of timely topics of fundamental and applied interest: Advances in Controlled Radical Polymerization^{3/4} will start with tutorial lectures, and will have sessions throughout the entire meeting. „Polymers in Photonic,^{3/4} cosponsored by the Optical Society of America will have eight sessions that focus on a range of emerging applications and new fundamental polymer chemistry related to optical materials. „Green Polymer Chemistry^{3/4} and the „5th International Biorelated Polymers Symposium^{3/4} both represent exceptional symposia that reflect important applications for the future of polymer chemistry while the Directed Self Assembly: Molecular Engineering of Polymers^{3/4} symposia will address issues related to synthesis and applications of block copolymers, including their applications in nanotechnology.

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All POLY abstracts and all Polymer Preprints for the Boston meeting were collected by the ACS Online Abstract System (OASys). We continue to suggest improvements to ACS who now have a preprint help-line for authors to call. For the Boston meeting, a required maintenance of the OASys server occurred on the weekend prior to the deadline for preprint submission. Further delays in getting the system back up and functional caused significant problems; however, ACS staff were extremely helpful and enabled all papers to be submitted correctly. The time required for preprint editing and preparation of the final preprint volume has been dramatically reduced, resulting in an ability to have a much later deadline than previously feasible. Additionally, Polymer Preprints Editors and staff played a significant role in reviewing and editing preprint format. This help enabled symposia organizers to focus on the organization and content of their symposia rather than spending large amounts of time on preprint format control and editing. This improvement helped symposia chairs significantly. Symposium plans for meetings through New York in Fall 2003 are complete, and 2004 meetings are partly scheduled to allow for programming of more timely topics as needed (see <http://www.chem.umr.edu/~poly/natl.meet.html>).

The committee aims to insure that symposia cover fundamental subjects in polymer synthesis, characterization and properties on a regular basis, and topics of industrial importance. The schedule of symposia at future ACS national meetings is on the POLY web site. Suggestions for symposia are welcome at any time. A form is available at the POLY web site showing the information the committee needs to consider a symposium suggestion

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(http://www.chem.umr.edu/~poly/poly_link/reports/sympprop.html). Call, fax, mail, or e-mail suggestions to one of the program co-chairs, Christopher Bowman or Carrington Smith.

History - W. V. Metanomski

1. ACS 125th ANNIVERSARY HISTORY UPDATE:

Back in June 2000, at the invitation of Frank E. Walworth of the ACS Office of Secretary, I submitted on behalf of POLY a two-part contribution on "Polymer Chemistry": a. "History of the ACS Division of Polymer Chemistry (POLY)", an update for the period 1976-2000, written by me; b. "Advances in Polymer Chemistry in the Past 25 Years", an update for the field of polymer chemistry, written by Herbert Morawetz. It was as late as in January 2002, when I received page proofs to review. The book editor made no changes in the manuscript, but requested that first names be provided for many researchers identified by their last names only in Herbert's report. No update was asked for the period June 2000-January 2002. It is my understanding that the book will make its debut at the ACS National Meeting in Boston, but it may be available for display only. Eventually, it will be mailed to the POLY Officers and Councilors. Its revised title is The American Chemical Society at 125. A review history 1976-2001

2. ARCHIVING POLY HISTORICAL MATERIAL:

At one time, POLY deposited three boxes of archival material with the Chemical Heritage Foundation (CHF) in Philadelphia. The material, which was not sorted out nor indexed by CHF, was retrieved by me prior to writing the POLY HISTORY UPDATE 1991-2001. I am going to meet with the CHF Archivist on 18 November 2002 in Philadelphia to discuss the current trends in archiving the ACS Divisional materials. While the CHF would be considered as a primary custodian for such material, in what form should it be archived (hard copy, microform, CD-ROM, etc.)? Also, perhaps because of the existence of Web, can or should such material be electronically scanned and preserved in the Web archives, and if so, in whose domain?

Regional Meetings - W. T. Ford

The Division of Polymer Chemistry (POLY) will provide up to \$500 to support a well-planned regional meeting symposium. In turn POLY would like the opportunity to advertise its programs and recruit members at a table next to the room where the polymer chemistry sessions are held.

The criteria for POLY support are:

- 1) There must be a full day symposium devoted to polymer chemistry.
- 2) The program should include one or more invited speakers.
- 3) To apply for support, the Program Chair or symposium organizer must send (a) a copy of the technical program to the POLY Committee on Polymer Programs at ACS Regional Meetings (currently Warren Ford) and (b) a budget showing how the funds will be used to defray registration fees and travel costs of invited speakers.

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Notice of the opportunity for POLY support has been sent to the Program Chair and/or the General Chair of all 2003 ACS regional meetings. As of 07/31/02 the Southeast and Southwest regional meeting program chairs have responded saying they plan a polymer symposium.

Industrial Sponsors -R. S. Moore

The Industrial Sponsors Group of the Division of Polymer Chemistry consists of the members listed below. In the past each member contributed \$1,000 per year to support polymer education and other polymer development activities. Thanks to the substantial efforts of H.N. Cheng the list has now been updated, and has been expanded to include small companies with less than 500 employees, which contribute \$500. Cheng has also led the effort to provide each Sponsor with a reference book of detailed information on the Industrial Sponsors Group. Through the efforts of Lesia Robertson in the POLY Division Office an updated version of these books have now been printed and distributed to the Members and to the Coordinating Committee. J. DiBattista is leading the effort to include one-paragraph summary listings of each company in Polymer Preprints.

Industrial Sponsors Coordinating Committee: This committee, which consists of members of the Industrial Sponsors Group and the Division of Polymer Chemistry, coordinates the activities of the Industrial Sponsors Group. Current members are: R.S. Moore, H.N. Cheng, W. Daly, J. DiBattista, A. English, K. Havelka, R. Ikeda, M. Jaffe, I. Khan, R. Ottenbrite, T.J. Pacansky, C. Smith, and R. Stackman. This Committee will meet on Monday, August 19th, from 10:30 a.m. until 11:30 a.m. in the Westin Copely Place.

2002 INDUSTRIAL SPONSORS 3M Company

Air Products and Chemicals, Inc.
Ashland Specialty Chemicals Co.
BASF Corporation
Bayer Corporation
Chevron Phillips
Dow Chemical Company
E.I. Du Pont de Nemours & Co.
Eastman Chemical Company
Exxon Mobil Company
GelTex Pharmaceuticals, Inc.
General Electric (GE)
Genesee Polymers Corp.
Hercules Incorporated
Honeywell, Inc.
International Specialty Products
Johnson Polymers
Kosa, Inc.
Lubrizol Corporation
National Starch and Chemical Corp.

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PPG Industries, Inc.
Phasex Corporation
Polymer Chemistry Innovations, Inc.
Polymer Source, Inc.
Proctor and Gamble Company
Raychem/Tyco Electronics
Rohm and Haas Company
Shearwater Polymers, Inc.
Solutia
Wyatt Technology Corporation

A special luncheon was held on Monday, April 8th, 2002 at the Orlando ACS Meeting in order to review present and future plans, and to enable current and prospective members to become better acquainted. Members of the POLY Executive Committee also attended as invited guests.

The Twenty-third Annual Meeting of the Industrial Sponsors Group has been planned for the Boston ACS Meeting. As an alternative to the usual Industrial Sponsors Symposium, a special luncheon has been planned as a ticketed event on an ACS-wide basis, hosted by the Industrial Sponsors Group of POLY and co-sponsored by the Women Chemists Committee. This will be a unique, interactive luncheon with the invited speakers from the ACS Presidential Event "Women at the Forefront of Chemistry". The luncheon will feature small table discussions around the theme "Success Factors for Careers in Polymers and Chemistry in our Dynamic Environment." This ACS ticketed event, #106, (\$33) will take place at the Sheraton Boston on Monday, 8/19/02, from 11:30 a.m. to 1:30 p.m. In addition, a half-day symposium will be held honoring Dr. Lloyd M. Robeson, the recipient of this year's Industrial Polymer Scientist Award. This symposium will be followed by a reception honoring Dr. Robeson. Final details of these events will appear in the Fall 2002 ACS program. The major activities which are currently supported by the Industrial Sponsors Group, many in cooperation with PMSE via POLYED, include the Polymer Education Newsletter (PEN), workshops at schools to help to introduce polymer education, the Undergraduate Summer Scholarship Program, the Curriculum Development Award, tutorials, and free short courses on polymer science at national and regional meetings. Funding is also provided to the Intersociety Polymers and Plastics Education Committee. The competitive grant program initiated in 1991, Improving the Public Perception of Polymers is described below.

IMPROVING THE PUBLIC PERCEPTION OF POLYMERS - I.KAHN

This grant consists of up to \$10,000 distributed over three years for an innovative program directed toward improving the public perception of polymers. The proposals received in a competitive process are evaluated by the award committee based on feasibility, impact and originality. To date over \$52,000 has been allocated to this program. Under the leadership of Ishrat Kahn, the proposals received this year have been evaluated. The proposal selected for this year was submitted by Prof. Lon Mathias, University of southern Mississippi, and was approved at the Orlando ACS Meeting. Further details of the program can be obtained from Dr. Kahn. (Tel. 404-880-6847).

INDUSTRIAL POLYMER SCIENTIST AWARD - ALAN D. ENGLISH

This award was initiated in 1998 to recognize outstanding industrial innovation and creativity in the application of Polymer Science, conducted by individual scientists and research teams. The award consists of a plaque and an honorarium in the amount of \$2000. The award is usually presented at the Industrial Sponsors program during the Fall National ACS Meeting. The recipient is expected to present an address at a symposium organized in his/her honor. Travel expenses to the symposium are paid in addition to the honorarium. Commencing with this year's award, the award will be given every two years. Further details can be obtained from Dr. Alan D. English, Chairman of the POLY Awards Committee (Tel. 302- 695-4851).

Member-at-Large - H. N. Cheng

Membership Numbers

The POLY membership currently stands at 7649. The number fluctuates but is generally low at the beginning of the year and increases near the end of the year. The situation is similar for the other Divisions. We need to continue our recruiting and retention efforts to ensure that we do not lose ground.

Member Survey

In the recognition effort carried out in the spring 2002, each of the anniversary members (5-, 10-, 20- and 30-year) was mailed a brief survey form. Erica Martin received these forms and compiled them. The response rate was 12.5%, but the profile of the respondents was rather similar to that of the division membership in general. The following table gives their perception of value, in decreasing order:

| Category | High | Medium | Low |
|--------------------------|------|--------|-----|
| Polymer Preprints | 78 | 19 | 2 |
| Symposia at ACS Meetings | 51 | 31 | 8 |
| POLY Newsletters | 21 | 57 | 14 |
| Networking | 24 | 40 | 23 |
| POLY Web Site | 18 | 49 | 19 |
| Workshops | 14 | 45 | 28 |
| POLY List Server | 15 | 27 | 44 |

Membership Committee

The Membership Committee continues to be very active, under the able leadership of Erica Martin. Several new initiatives were launched this year. The activities of the committee will be separately reported by Erica.

Membership -E. Martin

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The Membership Committee currently consists of 10 members. They are: Erica Martin (Rohm and Haas, Chair), H. N. Cheng (Hercules, Member-at-Large), Dan Knauss (Colorado School of Mines), Pal Arjunan (Exxon-Mobil), Nozar Sachinvala (USDA), Tim Herod (Essilor), Alan Hopkins (Aerospace Corp), Ana Pla-Dalmau, Charissa Detwiler (YTC America), Maneesh Bahadur (Dow Corning). Work is ongoing in four different areas: member recruitment, retention, recognition, and communication.

Member Recruitment

- a. ACS attendees at national ACS meetings We are in the midst of our second annual "Member-Get-A-Member" campaign both onsite here at the Boston meeting until Tues afternoon, and off-site via the internet until Sept 1. PLEASE do your part as a member of the POLY board and bring a new member to the table to sign up. All POLY members who "nominate" a new member qualify to win a choice of polymer texts including Odian's Principles of Polymerization. This event will be held at every Fall ACS meeting.
- b. Attendees at the POLY poster session The Membership committee staffed a membership table at the Sunday poster session in Orlando in order to recruit new members. Posters advertising the member suggestion center and member discussion board were displayed at the two poster sessions in Orlando. We plan on having a presence at the Sunday poster session here in Boston as well.
- c. Polymer journal initiative We have continued our collaboration with a number of journals to offer to display their journals at our meetings in exchange for placement of our ads in their publications for free. The journals which are cooperating with us will be on display again at this meeting at a new separate table exclusively for this purpose.
- d. Participants in POLY symposia at national ACS meetings Email messages will be sent to participants in POLY symposia at this meeting asking them to be members of POLY. Normally we ask the oral session presiders to place the "Join POLY" overhead on the screen before the start of their session and in between talks. At this meeting, there will be a slide advertising our member-get-a-member campaign in each session room.
- e. POLY screen saver The committee has compiled a power point slide presentation to serve as a "screen saver"/advertisement for the Division at all ePOLY televised events and at regional ACS meetings (POLY sponsored symposia). The objective is that this slide show can be run during any "dead" time in between talks.

Member Retention

The POLY membership database has been very helpful in our member retention efforts. We need to continue our routine of sending out email messages to first and second year members asking them to renew their membership. Now that our database coordinator has his hands full with a new job and new POLY assignment, we need an individual who can manage this database for our initiatives.

Member Recognition

This year in Orlando we began the annual Spring Recognition Event where we recognized members achieving 5, 10, 20, and 30 years of service. Each member being recognized received a letter from POLY and a special POLY lapel pin as the recognition gift. These members were recognized publicly during the POLY award reception in Orlando. The membership committee

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applied for and received an ACS mini-grant specifically for this pin recognition program. The awarded money is to be put towards our 2003 pin and letter mailings. As part of this grant, we also need to provide an evaluation of this initiative to the ACS after next Spring's event in New Orleans.

Communication

Three projects are ongoing in the area of increasing communication between members of POLY, POLY committees, and the public:

a. POLY Suggestion Center

A reminder that the Membership Suggestion Center is up on the web (thanks again to Ken Carter). The committee is maintaining this site and forwarding concerns/comments to the appropriate POLY board members. There is also a POLY Member Center on the web where POLY members can post scientific questions and hold discussions on topics of interest. This site is accessible to all POLY members as a benefit of membership and we encourage its use.

b. Contact with ACS Local Sections

We have begun getting responses from various local sections throughout the country as part of our initiative to establish contact with and serve as polymer contacts for these grass roots groups. The number-one request has been assistance in setting up polymer speakers at local section meetings, particularly in Spring 2003. We currently have an ACS speaker list from which to pull names from, but we are trying to expand this list in order to have a thorough geographic network of polymer topical speakers. We are asking EVERY POLY BOARD MEMBER to come up with 2 names of respectable individuals who would be qualified to speak on a polymer topic (it may include yourself) and pass it on to the committee.

c. Member Survey

In conjunction with the recognition pins and letters, each of the 5-, 10-, 20- and 30-year members also received a stamped/addressed postcard survey. HN Cheng will report on the data from the surveys that were returned and compiled.

Misc.

The committee is in the process of setting up graduate student groups at two probationary polymer schools. This effort is in the beginning stages and more will be reported at the next meeting. The objective is to establish a relationship between the Division and graduate students with the hopes of this relationship continuing past their graduation and into their careers.

Awards - A. D. English and T. J. Pacansky

The **Industrial Polymer Science Award** recognizes outstanding industrial innovation and creativity in the application of Polymer Science, conducted by individual scientists or research teams. The winner of the 2002 Industrial Polymer Science Award is Dr. Lloyd M. Robeson of Air Products and Chemicals, Inc. The award will be presented this week in Boston. Previous

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awardees include W. H. Mandeville, S. R. Holmes-Farley and A. D. English. The POLY Industrial Sponsors support this award.

The **Herman F. Mark Polymer Chemistry Award** recognizes outstanding research and leadership in polymer science. The winner of the 2002 Herman F. Mark Polymer Chemistry Award is Professor William J. MacKnight of UMass. The award will be presented this Fall at the 2002 Biennial in Sonoma, CA. Previous recipients of this award include Paul J. Flory, Carl S. Marvel, Maurice L. Huggins, Herman F. Mark, John D. Ferry, Charles G. Overberger, Walter H. Stockmayer, Michael Swarc, E. J. Vandenberg, Harry R. Allcock, James E. McGrath, James Economy, Murray Goodman, Robert Grubbs, Henry K. Hall, Jr., Robert W. Lenz, Leo Mandelkern, and Otto Vogl. The Dow Chemical Company Foundation currently sponsors the award.

The **Carl S. Marvel Creative Polymer Chemistry Award** recognizes and encourages accomplishments and/or innovation of unusual merit in the field of basic or applied polymer science by younger scientists. The winner of the 2003 Carl S. Marvel Award is Dr. James L. Hedrick. The award will be presented in New Orleans in March, 2003. Previous Recipients of this award include Louis J. Fetters, Wayne L. Mattice, Edward L. Thomas, Garth L. Wilkes, Robert S. Langer, David A. Tirrell, Sukant Tripathy, Krzysztof Matyjaszewski, Bruce Novak, Joseph M. DeSimone, and Craig J. Hawker. The Dow Chemical Company Foundation currently sponsors the award.

Workshops - J.S. Riffle and N. Byerly

The Division of Polymer Chemistry of the ACS has organized and scheduled the following workshops and special symposia for the years 2002-2004. We are now planning primarily for 2005 (although we may be able to fit one more into 2004). Please notify either Judy Riffle (judyriffle@aol.com) or Neta Byerly (nbyerly@vt.edu) if you would like to discuss organization of a workshop hosted by the division.

2002 Meetings and Workshops

Polymers and Organic Chemistry 2002, July 14-18, 2002, University of California, San Diego, California, Co-Chairs: Warren Ford & Spiro Alexandratos, 84 Attendees + 12 Students + 9 Guests, Petroleum Research Fund Support: Yes.

Polyurethanes 2002

September 29 - October 2, 2002, Loews Annapolis Hotel, Annapolis, Maryland, Co-Chairs: James E. McGrath and Garth Wilkes, Full program is available at the POLY booth. Petroleum Research Fund Support: Yes, Registrations are on target to meet budget.

Fluoropolymers 2002 , Current Frontiers and Future Trends

October 13-16, 2002, Savannah Marriott Waterfront, Savannah, Georgia, Chair: Dennis Smith, Full program is available at the POLY booth. Registrations are just beginning to come in heavily.

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Polymers in Medicine and Biology: 2002

November 13-16, 2002, Sonoma DoubleTree Hotel, Rohnert Park, California, Chair: Buddy Ratner, Full program is available at the POLY booth.

Biennial 2002 - Polymeric Nanomaterials

November 17-20, 2002, Sonoma DoubleTree Hotel, Rohnert Park, California, Co-Chairs: Alan English, Barry Farmer, and Richard A. Vaia, The program is available at the POLY booth.

Herman F. Mark awardee: Bill MacKnight, University of Massachusetts at Amherst

2003/04 Workshops/Meetings

Advances in Materials for Proton Exchange Membrane Fuel Cell Systems

February 23-26, 2003, Asilomar Conference Center, Pacific Grove, California, Co-Chairs: James E. McGrath and Tom Zawodzinski, Flyer is available at the POLY booth.

7th International Symposium on Polymers for Advanced Technologies

September 21-24, 2003, Radisson Resort, Ft. Lauderdale, FL, Co-Chairs: Robson F. Storey and Robert B. Moore, Flyer is available at the POLY booth.

Polyolefins 2003

October 5-8, 2003, Sonoma DoubleTree Hotel, Rohnert Park, California, Chair: Jim McGrath, Flyer is available at the POLY booth

Polycondensation 2004

September, 2004, Virginia Tech, Blacksburg, Virginia, Co-Chairs: Jim McGrath and Ed Paschke

Planned Workshops Pending Executive Committee Approval

Recent Advances in Branched Macromolecular Topologies

May 23-26, 2004, The Woodlands, Williamsburg, Virginia, Co-Chairs: Tim Long and Doug Kiserow, The workshop committee requests executive committee approval.

Molecular Modeling of Polymers

March, 2004, East Coast U.S., Co-Chairs: Rahmi Ozisik and Greg Rutledge, Need more information before executive committee approval can be requested

Materials Secretariat - R. Laine and M. Rogers

At the Fall meeting we are sponsoring a symposium entitled:

Photonic Multiscale Materials and Devices

Dr. Ghassan Jabbour of University of Arizona will be the organizer. The program which kicks off Sunday begins with a 40 min lecture by A. Heeger, Noble Prize winner . This will be coupled with the Polymer Division, which has 8 sessions in a Photonics area .

The following symposia were suggested and approved by the committee. Organizers will prepare proposals to be submitted to the committee.

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Fall 2003

Hybrid Materials organized by Pat Mathers, Rick Laine.

Spring 2004

Combinatorial Chemistry II organized by Andy Gilicinski.

Fall 2004

Composite Materials for use in Transportation (tentative) organized by Martin Rogers.

Spring 2005

Hybrid Materials (tentative) organized by Rick Laine .

The Materials Secretariat has established a website that should be up and running sometime this Fall.

Andy Gilicinski of Gillette [Andy_Gilicinski@gillette.com] is the new Secretary General. The Secretariat is meeting Monday morning, August 19 7:30-9:00 am, Courier Room, Westin Copley Plaza. Anyone with any ideas for a symposium is welcome to attend.

Audit - K. Wynne

For 2002, the Audit Committee consisted of the Chair-Elect and Professor Ray Ottenbrite, former Division Chair and Division Treasurer. The Committee received the accounts, supporting ledger and Annual Report submitted by the Treasurer, Kathleen O. Halvelka, on July 2, 2002. On 10 July 2002, the Audit Committee finished the audit of the year 2001 accounts and financial records for the Division. The Committee found the accounts and financial records to be in order and in balance. Congratulations and thanks to Kathleen for carrying out the demanding duties of Treasurer for POLY.

Publications - K. L. Wooley

The number of ACS Symposium series books that have been contracted and published based upon POLY Division symposia in the past twelve months has decreased significantly over past years. The following are lists of Division of Polymer Chemistry symposium-based books that have been published or that are being developed under contract with ACS Books in partnership with Oxford University Press during April 2001 to April 2002.

ACS POLY Symposium-based Books Published (April 2001 , April 2002):

1. Optical Polymers: Advances in optical fibers and waveguides, Ed. Harmon and Noren, ACS Symposium Series No. 795, Publication Date: August 20, 2001, \$120.00
2. Polymer Processing in Microgravity, Ed. Pojman and Downey, ACS Symposium Series No. 793, July 10, 2001, \$120.00

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ACS POLY Symposium-based Books Under Contract (April 2001 , April 2002):

1. High Resolution Spectroscopy of Polymers, Ed. Cheng and English (San Diego, CA ACS Meeting, April 2001)
2. Silicones and Silicone-modified Materials, Ed. Clarkson (San Diego, CA ACS Meeting, April 2001)
3. Advances in Photoinitiated Polymerization, Ed. Crivello and Belfield (Chicago, IL ACS Meeting, August 2001)
4. Chromogenic Phenomena in Polymers: Tunable optical properties, Ed. Jenekhe (Orlando, FL ACS Meeting, April 2002)

The Committee on Divisional Activities has formed a Task Force to Explore Future Mechanisms for Dissemination of Material Presented at Symposia. During the initial meeting of this task force (held at the ACS meeting in Orlando, FL, April 2002), several ideas were generated regarding materials that would enhance the dissemination of research results presented at ACS meetings. However, most of these ideas, if implemented, would place increasing burdens upon speakers, prior to, during or following the ACS meetings. If you feel strongly that the information exchanged through participation in ACS meetings is sufficient or insufficient, and if you have ideas of how to improve the process, please send a brief note to <mailto:klwooley@artsci.wustl.edu>.

Biennial

The Biennial Meeting of the ACS Division of Polymer Chemistry is an extraordinary event in which prominent contributors in important areas of polymer science are brought together. We encourage you to send your key technical people to this meeting.

http://www.chem.umr.edu/~poly/poly_ling/meetings/biennial.1102.html.

In these difficult economic times, however, it is often not possible for an organization to send all of those who would benefit by attendance to any given meeting. In light of this reality, the Polymer Division plans to Webcast the "Polymeric Nanomaterials" session of the upcoming 2002 Biennial Symposium. This Webcast will occur on November 18th and will be available for a charge of \$1,000. This way an unlimited number of your technical staff will be able to participate --LIVE-- in the Polymeric Nanomaterials session.

You need a good connection to the Internet (at least DSL cable modem or higher) and an up-to-date version of your Web browser (version 4 or higher). In addition, for the Webcast lectures you will use both an Internet connection and dial in to a telephone conference call. To use the conference call you need a telephone near your computer. You need to be able to make a long distance call into the conference call for the course at the same time that your computer is connected to the Internet.

The Webcast program will consist of the following speakers and titles:

E.P. Giannelis (Cornell)- "Polymer Nanocomposites: Design, Synthesis, Characterization and Properties"

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R.E. Smalley (Rice)- "Overview + Nanotubes"

U. Suter (ETH)- "Modeling Nanomaterials"

H. Sirringhaus (Cambridge)- "Direct Printing of Polymer Electronic Circuits"

A. Usuki (Toyota)- "Synthesis and Properties of Polymer Clay Nanocomposites"

C. Hawker (IBM)- "Novel Approaches to the Facile Synthesis of Polymeric Nanomaterials"

M. Stone (AFRL)- "Bio-nanocomposites"

K.L. Wooley (Washington U.)- "Synthetic Methodologies of Nanostructured Materials"

For more information or to sign up, contact:

William J. Brittain, Department of Polymer Science, The University of Akron, Akron, OH
44325-3909, 330-972-5147, fax 330-972-5290, brittain@polymer.uakron.edu.

Circulation - F. Dammont

POLYMER PREPRINTS: Vol. 43-2, Fall 2002

Manager's Report

We have shipped a total of 386 copies of POLYMER PREPRINTS Vol. 43-2, to year 2002 paid up library subscribers. Of these, 373 were hard copies and 13 CD-ROM. 232 copies were mailed by the printers, and 154 (including all CD-ROM's) from Newark, via UPS, to multiple copy subscribers and to addresses where we have previously encountered delivery problems. We expect to ship about 20-30 more copies upon receipt of delayed payments.

Currently, we are investigating the reliability of the USPS M-bag service to foreign addresses. The cost of this service is about half of the exorbitant price which we now pay for shipping via the USPosts or by Deutsche Post (Ex. To Japan, we now pay about \$27.00/book: The M-bag service costs \$11.00).

An inquiry at the Library of Congress revealed that the last issue registered by us for Copyright was Volume 39-1 (spring 1998). The established procedure for registration is for the Secretary of the Division to complete and sign the required forms (Form SE), and forward them to the circulation office, who in turn mail the books and the payment to the Copyright Office, in Washington.

At the risk of stating the obvious, we have confirmed at the ACS Legal Department, that upon formal registration, the Division owns the copyright to the book, but the copyrights to the individual articles belong to their authors. All requests for permission to waive the right must be directed to the authors.

Lastly, we greatly admire and congratulate the editors of the PREPRINTS for preparing the most voluminous issue, to date, of unyielding excellence.

Poly List and Web Pages - F. Blum

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POLY LIST

There are about 1400 members of the POLY list. The volume of mail continues to be moderate and the number of complaints is low, almost negligible. I have instituted a policy where either Ken Carter or I approve postings to the list. This has the effect of removing most nuisance e-mails from the list.

World Wide Web (www)

The www project continues to grow. Counters on the popular POLY pages in terms of the number of accesses are listed below. Not all of the pages started at the same time. There is increased activity relative to workshops on the web pages. The main page gets over 150 hits per day. It is now out-distancing the jobs page.

The number of members who join the Division via the www and register for workshops continue to increase.

| Page | 4/02 | total |
|-----------------------|-------|--------|
| Main Page | 16396 | 159993 |
| Meetings | | |
| Natl. | 2242 | 40468 |
| Spon./ workshops | 3715 | 26849 |
| Other Meetings | 1310 | 15951 |
| Past | 5838 | |
| Secretariats | 98 | 1499 |
| Polym. Prep. On-line | 2982 | 13991 |
| Membership Activities | 321 | 3801 |
| Join | 649 | 6258 |
| What's New | 647 | 8928 |
| POLYED UWSP | | |
| IPEC moved | | |
| Books | 261 | 722 |
| General Info | 328 | 5431 |
| Org. Chart | 1089 | 9924 |
| Org List | 417 | 4504 |
| Election Info | 303 | 3374 |
| Officers Hist #1 | 290 | 2601 |
| Officers Hist #2 | 118 | 1495 |
| Mbr. Recog. | 928 | |
| Operations Man. | 190 | 1718 |
| POLY History (Update) | 250 | 790 |
| Awards | 636 | 6903 |
| Jobs | 8862 | 121881 |
| Nomenclature | 1514 | 6805 |
| Industrial Sponsors | 347 | 3149 |
| Other Servers | 8567 | |

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| | | |
|----------------------|-----|------|
| Public Relations | 113 | 1599 |
| Poly Discussion List | 405 | 3149 |

I solicit your help. Please send me things electronically by e-mail for inclusion on the web pages.
<http://www.chem.umr.edu/~poly> or <http://www.polyacs.org>

e-Poly - W. Brittain

The current ePOLY committee consists of Bill Brittain (Chair), Judy Benham, Tom Smith, Ken Carter, Frank Blum, Judy Riffle, Ken Wynne, Tom Smith and Drew Donnalley. For 2002, there are two major projects for ePOLY: the continuing development of the ACS Portal Project and webcasting a portion of the 2002 POLY Biennial.

Drew Donnalley is the POLY liaison to „chemistry.org¾ and has been in communication with Beth Weston (Web Operations Team Leader) about developments in the ACS Portal Project. Current financial constraints have limited most ACS web efforts to addressing infrastructure limitations before they begin rolling things out to the divisions. Drew has raised the „look and feel issue¾ with ACS; specifically addressing navigation difficulties and readability. ACS considers this a hot topic of debate and has not found closure. Drew also emphasized the importance of tailored eTOOLS for collaborative efforts among those ACS members involved in governance, committees and programming. Services that would facilitate and enhance communication and organization among POLY officers and volunteers could be extremely valuable. However, ACS is focusing more on web services that will serve a larger ACS population. Drew will continue to press this point.

Frank Blum has worked out a good scheme with Lesia Robertson to take registrations off the web and incorporate them directly into the database for meetings. They also added Erica Martin's Membership committee (and the committees) „get-a-member-stuff¾ to the application form. Frank Blum and Ken Carter continue to monitor the list server and filter out nuisance mailings. The plans to webcast one-day¼s worth of content of the 2002 POLY Biennial continues. I reported earlier that we estimate the cost of this webcast to range from \$7,000-\$9,000. We received a \$5,000 grant from the Divisional Activities Committee. During the last few months, I have been soliciting customers for the webcast; I relied on personal contacts, the POLY Industrial Sponsors group and the POLY list server (see attached flyer). I received approximately a dozen serious inquiries. We are charging \$1,000 for the webcast. So far, I have 4 customers (3 companies and one government lab). I anticipate a few more confirmations before the biennial. With this level of interest, I am making final plans to conduct the webcast.

Publicity - H. Ly

For the year 2002, Team Pub consisted of Erica Martin (Rohm & Haas), Peter Broske (Agilent Technologies), and Anil Mahapatro (Polytechnic University)

Action items since the last meeting:

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Unilever Award announcement in C and E News (page 31, July 1, 2002 issue)

Industrial Sponsors^{1/4} Award announcement in C and E News (page 812, July 22, 2002 issue)

Posters were provided for the awards reception and symposium, Industrial Sponsors^{1/4} Award symposium and reception, the Unilever Award, and the Women Chemists Committee and Industrial Sponsors Group co-sponsored luncheon

Event updates (workshops, awards, symposia, etc.) have been maintained on the electronic distribution list and web site

Working with the Membership Committee to recruit new members and advertise receptions and symposia

Working with the Membership Committee on the Local Section initiative to improve communications and foster cooperation between POLY and ACS Local Sections

As always, Team Pub is here to serve the needs of the different committees within POLY. Please continue to utilize our resources to help promote the Division^{1/4}s programming and events!

2003 Graduate Student Polymer Research Conference - J. Roberts

June 22-25, 2003 at Lehigh University, Bethlehem PA

The 5th National Graduate Research Polymer Conference will be held June 22-25, 2003, at Lehigh University in Bethlehem, PA. Sponsored by the ACS Division of Polymer Chemistry, Inc., the conference is designed for graduate students in all areas of polymer science and engineering to present their own work, and to interact with students, faculty members, and industrial representatives. Abstracts should be submitted through the conference website, which will be operational by December 1, 2002:

www.lehigh.edu/~esd0/polyconf/polyconf.htm

Abstracts submitted before April 1, 2003 will receive full consideration. Notification will be sent to all applicants by May 1, 2003. Registration fees are estimated at \$95 (including 3 breakfasts, 3 lunches, and 2 dinners); accommodations in Lehigh University residence halls are estimated at \$28 per night. For more information, contact Professor Jim Roberts, c/o Leanne Adamcik, Center for Polymer Science and Engineering, Lehigh University, 111 Research Drive, Bethlehem, PA 18015, Phone: 610-758-3590, Fax: 610-758-5880.

Executive Planning Committee: The Executive Planning Committee for the 5th National Graduate Polymer Research Conference includes Professor James E. Roberts, Chair, Professor Ray Pearson, Professor Les Sperling, Dr. Eric Daniels, Dr. David Sudol, and Ms. Leanne Adamcik, all of Lehigh University. Each person has oversight for specific responsibilities, although in many cases other people will do much of the work.

Program Committee: Faculty members of the Center for Polymer Science at Lehigh University will serve as advisors for defining session topics, and in many cases will chair sessions. Input will be solicited from the >faculty whips= (see below) as well. Faculty and industrial researchers attending the conference may be asked to chair a session if they are willing to do so.

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Fund Raising: We request up to \$2,000 in >seed money= from the ACS Division of Polymer Chemistry, Inc., if such funds are available. This money will be used primarily for office expenses and publicity purposes, and will be returned to the organization once the conference is concluded. We have identified 35 specific individuals at various companies that are being approached for donations in the \$2,000 range; suggestions for additional contacts would be greatly appreciated. Publicity and >Faculty Whips=: Publicity will follow the traditional modes of mailing, emails, etc., but we have added the position of >faculty whip= to act as a local information source for people in their own department. We will also encourage them to talk directly to individual graduate students and faculty members to build support for attending the conference. While we have identified more than 30 potential candidates, volunteers or suggestions are very welcome.

Website: Dr. Eric Daniels has primary responsibility for the conference website. Dr. Daniels was the designer of the website for the Colloid 2000 meeting held at Lehigh University; the >boiler plate= information from that conference will be updated and used for this one. The website will be available by December 1, 2002 (earlier, if possible). The address is:
www.lehigh.edu/~esd0/polyconf/polyconf.htm

Submission of abstracts and registration for the conference and on-campus housing will be through the website.

Facilities: Conference sessions will be held in various lecture halls on the main campus of Lehigh University. Housing will be available through the Lehigh University residence halls; the website will also contain information on local hotels and motels.

Additional ideas are always welcome. Please address comments, suggestions, and/or questions to Jim Roberts at james.roberts@lehigh.edu , or 610-758-4841.