

POLY – Councilor’s Report

F. Blum, M.A. Meador, W. Daly, J. Pochan

The ACS Council in its August Meeting in Philadelphia took the following actions: elected representatives to the Council Policy Committee (CPC), Nominations and Elections (N&E), and Committee on Committees (ConC). Council voted to continue two other Committees and change two Local Section Territories. Unemployed dues waivers extended to three years and an update on the Chemists Code of Conduct was made. A special discussion on US employment of chemists occurred. All four POLY Councilors attended and their participation in committees is noted below. Budget and Finance projected a net for 2016 for operations of \$17.3 million and a total of about 12,800 people attended the Philadelphia meeting.

Frank Blum, Council Policy Committee (CPC). CPC presented Bylaws changes for consideration to remove Councilors and Division Officers for cause. A Task Force was formed to examine how to streamline ACS governance and I have been appointed to it. Of particular concern is the underrepresentation of Division Councilors in the ACS Council. (fblum@okstate.edu)

John Pochan, Meetings and Exposition (M&E). ACS was awarded the 2016 UFI (The Global Association of the Exhibition Industry) Sustainable Development Award for the “Best actions to engage participants around sustainability”. ACS was recognized internationally through our attendee initiatives that spread knowledge, enhance attendee experience, and education and inspire participants on sustainability both at the event and beyond.

After comparing the financial implications between Philadelphia and Denver for the 2024 Fall National Meeting, the Committee on M&E has selected Denver to host the 268th ACS National Meeting on August 18 – 22, 2024. M&E asked the ACS Board of Directors for approval.

I am on a study group (along with the DAC chair and members of M&E and DAC) tasked with looking at ways to enhance the National meeting. One of the many topics we are addressing is: ‘Should Thursday program be eliminated?’. If you have any thoughts on this topic, please contact me (JohnPochan@hotmail.com).

Mary Ann Meador, Divisional Activities Committee (DAC). Diane Grob-Schmidt presented POLY with a certificate thanking us for participation in Presidential Programming during her term. The Awards committee is asking for help from divisions and members to increase the number of nominations of women and industrial members for ACS Awards. Both of these groups make up a large portion of ACS members but are under-represented as ACS Award recipients (or even nominees!)

DAC received proposals for two new divisions: Materials Chemistry Division and Space Chemistry Division. Surveys will be sent out to divisions for their input on this topic. If accepted, the divisions will be in probationary status until reaching certain membership and other milestones. Opinions concerning these proposed divisions can be sent to maryann.meador@nasa.gov.

Robert Moore, Divisional Activities Committee (DAC). The new ACS website now includes a top center box directing visitors to the technical divisions. Marketing of divisions and divisional activities has new leadership with Tessa Kyriakopoulos. The ACS database of membership records is now available to divisions, including the demographics of those not renewing their annual memberships. (rbmoore3@vt.edu)

Membership Committee Report

Membership in the division is central to the well-being of POLY. The August 2016 membership numbers increased (5%) compared to the previous year for the first time since 2011. This can be attributed to a number of factors including robust programming at the National Meetings, vibrant offering of POLY workshops, and the new membership drive offering free POLY membership to new or returning members with a three or more year lapse in membership. To expand our membership drive we are initiating a new program to reach to ACS local sections through an innovative projects grant sponsored by the ACS. The goal of this grant is to recruit new members to the POLY division by sponsoring local sections and running a recruitment drive. Any POLY members active in local sections with interest in this activity should contact Kevin Cavicchi (cavicchi@uakron.edu).

In student chapter news, POLY is happy to welcome Virginia Tech as the newest POLY/PMSE student chapter. With the long connection to the University, we look forward to great things from this new chapter. Once again, student chapter funding will be conducted through the submission of annual student chapter reports, which will be due on February 6th, 2017. More information will be announced on the POLY and PMSE web-pages and sent to the student chapter presidents and faculty advisors. Any questions about the POLY/PMSE student chapter program should be directed to Sara Orski at sara.orski@nist.gov

View [presentation](#) from the Fall 2016 meeting

POLY Treasurer's Report

We continue to balance the budget and ensure that the expenditures are within the allocated figures agreed upon at the last 2016 Ex-Com meeting.

The table below is a summary of 2015 activity, 2016 approved budget, and the 2016 income and expenditure as of July 31, 2016. POLY is a non-profit organization. In review of the past 10 years, POLY's cumulative revenues have exceeded expenses by \$1,000, showing ExComm.'s commitment to membership programs and benefits. As of January 1, 2016, POLY had \$936,021 in investments. Investment funding continues to support unfunded awards, workshops, and other programs as need arises. The POLY Executive Committee continues to strive to conservatively utilize investment funding while maintaining a secure division.

Any questions or requests for funding may be directed to the POLY Division Treasurer, Derek Patton, derek.patton@usm.edu. All annual requests for funding from committees chairs and organizers should be submitted to the Treasurer by December 1, 2016 and will be reviewed for consideration at the winter POLY Executive Committee Meeting on January 21, 2017.

Budget Category	2015 Actual		2016 Budget		2016 - Jan.-July	
	Income	Expense	Income	Expense	Income	Expense
Dues/ACS Allocations	178,591	-	180,500	-	123,712	-
National Meetings Activities	55,582	121,323	64,500	166,000	49,762	120,877
Workshop Activities	425,601	420,524	326,000	246,000	140,702	39,754
Administrative	162	169,910	-	169,900	\$8	121,090
Publications/Advertising	28,570	14,667	20,500	10,600	14,605	5,905
Committee/Awards Activities	53,270	54,150	31,800	50,600	24,000	29,806
Cashed Investments/Checking	75,000			19,800		
Total Budget	816,776	780,574	643,100	643,100	352,869	317,430

Industrial Advisory Board Report

The Polymer Division Industrial Advisory Board (POLY IAB) remains focused on its core mission aiming to further extend the industrial voice within the Division through activities focused on enhancing industrial programming and continuing support of various awards and educational initiatives.

Just after the Spring ACS meeting in San Diego, CA the IAB leadership and selected members met to finalize a 3 year strategic plan that has since been approved by membership and accepted by the POLY ExComm. The strategic plan outlined the focus of the IAB for the coming three years including maintenance of all currently supported initiatives and how we plan to engage the community at the coming three years of ACS meetings and other activities. Additionally, this group was able to finalize the structure and process for the inaugural Young Industrial Polymer Scientist (YIPS) Award to be presented at the Fall 2017 ACS meeting in Washington, D.C. We are excited to announce the nomination process for the inaugural [YIPS award](#) with a deadline of October 31, 2016 (even years).

Recently, the IAB has been focused on expanding the impact of our signature symposium series, the Industrial Innovation in Polymer Chemistry (IIPC), by engaging related technical divisions to co-program, thereby, engaging larger, more fringe polymer audiences, while focusing on synergistic technological advancements between the two areas of interest. Recently, the Division of Inorganic Chemistry has collaborated with us by successfully executing three co-programmed symposia with one symposium in San Diego in the spring and, most recently, two half-day symposia in Philadelphia, PA. We plan to continue this effort by collaborating with PMSE for the "Industrial Innovations in Polymer Science: Advanced Materials, Processes & Technologies" symposium in San Francisco, CA next spring. As we look forward to the upcoming meetings, we will continue to seek links to other technical divisions that also align well with the ACS meeting themes.

During the fall ACS Meeting, POLY IAB supported the [2016 Industrial Polymer Scientist Award](#) presented to Joel Oxman (3M), for his outstanding contributions in the field of photopolymerizations and photopolymers and the Graduate Student Travel Awards.

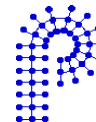
Congratulations to Azadeh Farahanchi (University of Massachusetts Lowell) and Joey Kim (Caltech). The deadline for future [Travel Awards](#) are spring and fall prior to each ACS meeting.

Finally, we would like to report that our Innovative Project Grant (IPG) activities have been completed as of this August. Proposed as a way to link our POLY IAB initiatives to the greater ACS and local sections, we feel we succeeded in both of these objectives by co-hosting two networking events at the San Diego and Philadelphia ACS meetings. The ACS level collaboration was hosted in San Diego during our traditional Monday evening networking slot. This event was nicely attended and included a visit from Diane Grob Schmidt, current President of the ACS. For Philadelphia, we hosted a Sunday networking event focused on bringing POLY IAB members together with local ACS section members and local chemical industry representatives. This was a more informal event aimed at making personal connections between organizations while lending a hand to colleagues affected by recent changes in local industry.

We are always interested in new ways to serve the POLY industrial community and welcome your suggestions and attendance during the ACS meetings at our Monday evening networking event or Tuesday morning board meeting. For more information regarding this thriving program, contact Chair: Travis Baughman (DSM Engineering Plastics, travis.baughman@dsm.com) or Vice-Chair, Michael Hunt Polymaterials, m.hunt@polymaterials.de).



Division of Polymer Chemistry
Board Meeting Agenda
Sunday, March 21, 2016
Sheraton Philadelphia Downtown
Independence Ballroom C/D
Philadelphia, PA



Welcome

Karl Haider, Chair

Approve minutes from previous board meeting

Motion—Meador, second Pochan, motion passed

Councilors Report

John Pochan/Frank Blum/

Maryann Meador/Robert Moore

Frank—4 active counselors in ACS. Wednesday AM—council meeting. Council will select people to staff council on nominations elections, committee on policy, and committee on committees. Society will also decide on task force on chemical employment, likely adopting guidelines for local sections. Changes in local sections—TX and UP of MI. Petition to extend unemployment waiver from 2 years to 3 years. Also consider adjustments to professional code of conduct. Recently added—responsibilities to temp.

workers. For consideration, petition for removal officers and councilors. In addition, considering petition about whether division affiliates may hold office. 2 new international chapters considered—Chinal (Bejing) and SW China. Will be new task force on streamlining ACS governance.

MaryAnn—DAC report. National awards committees presented-push more awards for women and industrial members. Awards committee asking divisions for help identifying these groups and people to serve on committees. Changing allocations for divisions—money divisions get based on members and programming. Input is needed. Consider including programming at regional meetings. 2 potential new divisions –materials chemistry and space chemistry-- survey will follow on these.

Bob—Award to POLY in DAC meeting. Plaque of appreciation. Subcommittee meeting on communication and technology. ACS staff discussed marketing and recruiting. ACS website is revamped—highlights technical divisions. Brings to light free first year memberships. ACS staff also discussed database information available on members. Access to dropped member information.

Karl—pilot is in place with 6 divisions (POLY one of them) on running a division like a business. Information is currently being gathered.

John—Chair of M&E. Meeting App is now the official guide, not the paper book. Committees have seniors members, recruiting younger members for technology groups. Future site of Denver has been approved. Discussions on eliminating Thursday portion of meeting—huge undertaking as contracts will have to be re-written.

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Derek Patton, Treasurer

Treasurer report

Derek Patton

Halfway through year/budget. ACS collections--\$55k so far. ACS Allocation--\$68k (\$12k below expected). Technical meeting support—\$49k income, \$120k expenses to date

2016 Fall Report

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Workshop budget—\$100k income, \$39k expenses to date

Business Office—\$121k in expenses to date

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Half-way through the year--\$35k in the black!

Sponsorship opportunities—to help support POLY budget. Coffee stations, poster session, POLY/PMSE awards reception. 2016—lost Albemarle and Wyatt Technology sponsors.

National meeting expenses—Spring meeting cost \$33k

Goal—raise \$10-15k sponsorship annually

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Lesia Linkous/Kathy Mitchem

Professional Relations

Marc Hillmyer, Chair-Elect

Industrial Advisory Board

Travis Baughman/Michael Hunt

New member—Flotek (David Germack)

Focused on programming, education, and recognition and awards

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Finalized IAB charter

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Awards & Education—awards, grad student conference, grad & undergrad symposia

IPG Grant—Engaging and networking with members

2017 & Beyond—San Francisco meeting organizing with PMSE on programming

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Budget—in the black, balanced distribution between programming, meetings, networking, and awards/education

International

Rigoberto Advincula

Program and organize conferences, next is MacroMex 2017 (4th conference) to be held in Cabo San Lucas

IUPAC meeting coordination—last one in Turkey, next IUPAC will be with Korean Polymer Society

POLY is finalist for ChemLuminary Award for International activities

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Marc Hillmyer

POLY awards—Herman F. Mark Award, Carl S. Marvel Award, Paul J. Flory Award, Mark Scholar Awards, Industrial Polymer Scientist

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8 awards at Philadelphia meeting

Encourage more participation in future awards!! Deadlines for each award are on POLY website

MaryAnn—ACS looking for help from divisions to identify help for national awards

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POLYED Charles Carraher

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Work on standardizing ACS exam on Polymers

Providing editorship help in special edition of Polymer Education. Please submit papers—emphasizing articles on teaching polymer courses. They must have teaching, educational components. Deadline—Oct. 24th, 2016.

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Programming, Meetings & Workshops

Diana Gerbi, Vice-Chair

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Jeffries-EL/White/Lipscomb

Highlighted meeting rotation—Malika Jeffries-El for Philadelphia meeting, Lipscomb for San Francisco, and White for DC meeting

Philly meeting—592 contributions

More topics for programming are needed, encourage members to participate and attend programming lunch

Awards between fall and spring meetings are not balanced

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Christine Landry-Coltrain

Kate—now time to submit requests for sponsorship for next meeting, reach out to symposium organizers to ask for additional support. Email Kate for request and how it falls in-line with the theme.

San Francisco meeting—trying to get POLY/PMSE located in the convention center. A one-time trial.

Macromolecular Series highlighted

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Regional meetings not limited to ACS, also support non-regional meetings by POLY Chair (\$4,000 budget)

Graduate Student Conference

Eric Amis

Held this past June at Akron, over 500 attendees, over 80 universities represented

Being in OH gave great access to industry representatives

Added pre-conference workshops, worked out very well with attendance and participation

350 student oral and poster presentations

2016 Fall Report

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Eastman, Goodyear, NIST, and A. Schulman were platinum sponsors

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Action Items—call for proposals for graduate student conference 2018, POLY workshop proposals, and participate in POLY workshops.

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Kevin Cavicchi, Member-at-Large

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2,439 members are 1-5 year members

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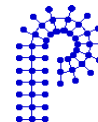
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2016 Fall Report

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2016 Fall Report

Financial/Executive Planning Meeting Agenda

Monday; August 22, 2016

Attendees: Cher Davis, Dereck Patton, Greg Tew, Frank Blum, Karl Haider, Kate Beers, Bob Moore, MaryAnn Meador, Diana Gerbi, Kevin Cavicchi, Gobet Advincula, Marc Hillmyer

- Sponsorship ideas
 - Award Sponsor Loss (Albemarle \$7,000 annually)
 - Newsletter Sponsor Loss (Wyatt \$3,700 annually)

How do we fill this gap of lost sponsorship? Endow 3 major awards instead of looking for sponsorship? \$60k cost. Fund completely or matching by POLY. Could have POLY exclusive awards if fully funded by POLY. Could mean a strategy change in the investments. Request to bring this up at the ExComm in January—add to agenda for vote.

A clear amount needed to move forward. Around \$60k.

Companies should be contacted before the January ExComm.

Endowment for how long?? Need to discuss—maybe 10 years?

Spread the word that POLY is looking for sponsors—bring up at the IAB meeting. Ask companies what they would be interested in and at what amounts. More discussions at ExComm.

- Feedback about website restructure—someone would need to be hired to do this as Christine would not be able to continue. For about \$5k websites can be re-hauled. Find the other sites this company has worked on for POLY to review. Who will update the webpage once it is converted? A volunteer? Get quote for ExComm meeting in January. Ask for a mock-up of a POLY front page? Marc will do more legwork on this and update at ExComm. Get a quote from a second company to compare. Look at ACS to see what they have been using. What about having a student committee to look at new webpage once it is up. MaryAnn will send email info to Marc on ACS web info.

- Review and discuss any concerns about budget/finances for 2016
 - Derick has started the process to ask ACS for financial guidance
 - Financial tracking—any concerns for the rest of the year? Depends on the workshops and the 2nd allocation from ACS.
 - IAB—wants to discuss rolling credit for IAB at ExComm, however ExComm was clear in discussions at ExComm 2016 that POLY will not hold funds. IAB feels it has to spend all its money at end of each year. Money comes in at different times throughout the year from dues. A discussion needs to occur between POLY and IAB officers to hear concerns and come up with a resolution.
 - Meet after IAB breakfast.

- Pacifichem Refund - Late September
- Cost of ACS National Meetings and Additional Sponsors
 - Actively recruit companies to be sponsors—bring up at IAB meeting

2016 Fall Report

- IAB asked if they could attend the ExComm. Last ExComm programming and IAB were not invited. Might be a good idea to include them next meeting. Leave to the discretion of the chair.
- Small requests for funding keep coming in—Chair's fund has been very helpful with these. Karl has now committed the \$4k for the year.
- Webinars—MaryAnn has done an aerogel webinar with more than 400 computers signed on. Does POLY want to do this on our own? Previous has been through ACS. Should we do both ACS and POLY webinar? POLY only webinar with password protection would be member benefit. Have 2 speakers give 2 talks and then Q&A with people online. Cost \$1500 per webinar. 3 webinars for \$4500, speakers \$500 each. Total = \$7500. What is POLY getting for \$1500?

Vote—spend \$7500 to spend on pilot webinar for POLY in 2017 out of investments.

Motion-. Unanimous vote.

**Strategic Planning / Long Range Planning Meeting Agenda
Sunday; August 21, 2016**

Attendees: Karl Haider, Marc Hillmyer, Frank Blum, MaryAnn Meador, John Pochan, Derrick Patton, Kate Beers, Christine Landry-Coltrain, Gobet Advincula, Cher Davis, Diana Gerbi, Kevin Cavicchi, Stuart Rowan, Bob Moore

- Darla Henderson (Assistant Director, Open Access Programs ACS)—Overview of ChemRxiv, a preprint server for the chemistry community provided by ACS

Preprint server available for chemistry community. Before launch, wanted to sit down and have conversation with POLY division to engage with and help to develop and launch. ACS-- focuses on dissemination of chemical information for non-commercial purposes. Also reaching out to other societies, not just ACS. Looking for someone from POLY to lead. This is not revenue driven, server will not be gated.

Other disciplines are also developing their archives (biology, sociology, etc.)

ACS Omega—first full access journal, how will this coincide? Unknown, but archive is not harming any journal. Archive preprints will have DOI's

Preprint style—preliminary communication, research and data made available ahead of publication. Not peer-reviewed. Any quality control on what's submitted? Will scan for nonsense, offensive, plagiarized, etc.

What about having a forum on the archive?

What about making sure submission are legit, will those that are not be withdrawn?

Who should POLY choose? Someone not being paid by a journal. Greg Tew ? – After the meeting, Greg Tew agreed to serve as the POLY contact with Darla on this topic.

- Councilor selection process—Is popular vote of the membership the best method? (Kate Beers)

Councilors elected by membership per ACS guideline. Problematic as councilors are by seniority. What process should POLY use—well known, vs unknown, some people have been phased out that have been very valuable. Bylaws state allow unopposed councilors. PMSE—whoever doesn't win election, stays on board as alt. councilor. POLY losing seniority in committee assignments, due to new people coming in. A change in the Bylaws would be required. Consider a councilor that could look for leadership beyond the division. Should this be discussed at ExComm and determine how to convey the importance of this issue to the POLY membership? YES. This needs to be carefully worded.

**Add to the ExComm agenda in January 2017

- Evaluation of POLY awards (Semra Colak, Stuart Rowan)

6 awards are listed, should there be a larger awards committee to oversee more?

Should there be people dedicated to ensure there is dedicated funding for awards?

There were very few applications for awards, lack of publicity, visibility??

Can journals help advertise for POLY/PMSE for their awards? These can be discussed.

POLY could help identifying members for larger ACS awards.

2016 Fall Report

Is 2 co-chairs enough for the awards committee? It changes each meeting with workload.

Should an industrial person be added as an additional chair?

Should financial be decoupled from the chairs?

Stuart will continue on as co-chair through 2017.

Haider has asked Semra Colak and Toby Nelson to explore Awards Portfolio and make recommendations about number/frequency of awards and any proposals for consolidation or elimination of awards

- Finance issues and sponsorship funding
- 2017 Initiatives (Marc Hillmyer)
 - Web-based workshops/webinars—POLY exclusive, membership benefit. Pay ACS \$1500 per webinar, \$500 per speaker. Dates suggested April and November, will also be archived. Cost is for marketing and making POLY exclusive
 - Endowment of awards—find corporate sponsor to give large sum of money for an award and endow it. Would take \$50-60k for 2 years. What about matching with money from POLY investments. Awards could be further POLY branded.
 - Major web overhaul—consider asking the student chapters about content, get feedback about what could be changed
 - Revamp educational initiatives—take a look at POLYEd and IPEC and talk about how they might be revamped or renewed. Eric Berda is co-chair of POLYEd, however he is running for POLY Secretary and if he wins he cannot be POLYEd co-chair.
- Value of membership – POLY has been selected for a pilot program to work with DAC on Developing Strategies for growing Divisions. Looking at clearly defining value proposition for membership – Barry Farmer serves as the POLY Lead for the project (Karl Haider)
- Bob Moore idea about membership—what if every ACS journal indicated members (blue diamond next to their name in journal articles)?
- John Pochan—consider asking award winners to spend some time at the POLY desk for a period of time for discussions.
Discuss at ExComm

Treasurers Report

Macromolecular Chemistry: The Second Century

Organizers: Timothy Lodge and Kris Matyjaszewski

Divisions Directly Related: POLY, PMSE, Colloid and Surface, Cellulose and Renewable Materials, Industrial and Engineering, Rubber

Other Closely Related Divisions: Biological Chemistry, Catalysis Science and Technology, Environmental Chemistry, Organic Chemistry, Physical Chemistry

The year 2020 marks the centenary of the landmark paper by Hermann Staudinger, entitled “Über Polymerisation” (“On Polymerization”), in which he demonstrated the preparation of high molar mass compounds by repetition of standard small molecule synthetic steps.* His proposed concept of “macromolecules” had already received heavy criticism, but this paper marked the beginning of an era characterized by rational design and synthesis of polymers. By 1953 Staudinger’s work had been recognized by the Nobel Prize in Chemistry, and the chemical industry had long since embraced large scale polymerization for the commercial production of a host of new and now ubiquitous synthetic materials, including Nylon, synthetic rubber, polyethylene, Plexiglas, and Teflon that are found in countless products that have had tremendous impact across a broad swath of technologies. For the past half century polymers have dominated the chemical industry in the US, and worldwide, with use and expansion into new markets growing unabated. The intellectual richness of macromolecular science has also become apparent across the spectrum of chemistry. The contributions of organic chemistry and inorganic chemistry to the preparation of polymers, the contributions of physical chemistry to the

understanding of their behavior, to the impact macromolecules have in the world of chemical biology are hard to overstate. It would be entirely apropos to recognize this class of chemical compounds, which encompasses all plastics, rubbers, fibers, adhesives, all proteins, DNA, RNA, and the most abundant natural materials, including cellulose, hemicellulose, and lignin.

*Staudinger, H. (1920). "Über Polymerisation". *Ber. Deut. Chem. Ges.* **53** (6): 1073.
[doi:10.1002/cber.19200530627](https://doi.org/10.1002/cber.19200530627)

Thematic Programming (TP):

- **Advantages** to the Divisions include:
 - enhanced advertising
 - money available for thematic programming, specific registrations, associated outreach, collaborations, coffee breaks (not sure if these need to be in Convention Center, but I would think so, as the aim is to promote interdisciplinary interactions) at the discretion of the organizer (who get ~\$30k)
 - co-organization and cross-listing of symposia with other divisions
 - ability to organize an OUTREACH event (usually on Saturday in concert with Presidential event) involving the community

Many Divisions do not take advantage of this; **how can we engage Divisions?**

- **Divisions should reach out to the thematic organizer** of the specific meeting and ask for \$\$ for specific ideas, ask what is available – need to do this a few years in advance
-
- Co-program with other Divisions, and ask for sponsorship from the thematic organizer (**Kate Beers is the thematic organizer for San Francisco, SP2017**)
- *"I (Kate) should have some resources to distribute to help support co-operative functions across Division in the Theme areas: catalysis, manufacturing with emphasis on microprocesses and biomanufacturing, functional materials, sustainability, 'start-up' chemistry and education/outreach via materials chemistry research (e.g. industry needs, societal challenges, international)"*
-
- **Divisions should "self promote"** newsworthy symposia and talks that are aligned with the meeting Theme to the organizer. – ACS will promote these via the Web and Social media Apps
-
- Volunteer opportunity: The MPPG committee is requesting nominations from the Divisions for the positions of 2018 MPPG Chair-Elect and At-Large Representative.
-

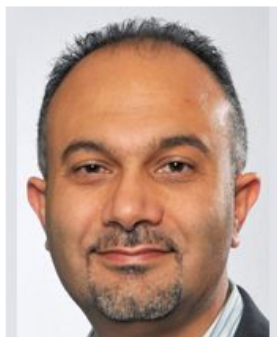
- Continual need for suggestions from the Divisions for Kavli Emerging Lecturer and Kavli Innovations in Chemistry Series

Meeting	Theme	Organizer(s)	Email
249 th , March 22-26, 2015, Denver, CO	Chemistry of Natural Resources	Robert Weber	Robert.Weber@pnnl.gov
250 th , August 16-20, 2015 Boston, MA	Innovation from Discovery to Application	Carston R. Wagner	wagne003@umn.edu
251 st , March 13-17, 2016, San Diego, CA	Computers in Chemistry	Kenneth M. Merz	kmerz1@gmail.com
252 nd , August 21-25, 2016, Philadelphia, PA	Chemistry of the People, by the People and for the People	Rudy Baum	r_baum@acs.org
253 rd , April 2-6, 2017, San Francisco, CA	Advanced Materials, Technologies, Systems and Processes	Kathryn Beers	kathryn.beers@nist.gov
254 th , August 20-24, 2017, Washington, DC	Chemistry's Impact on the Global Economy	Nancy Jackson	nbjacks@sandia.gov
255 th , March 2018, New Orleans, LA	The Food, Energy, Water Nexus	Jerry Schnoor	jschnoor@engineering.uiowa.edu
256 th , August 2018, Boston, MA	Nanotechnology		
257 th , March 31-Apr. 4 2019 Orlando, FL	Chemistry for New Frontiers		
258 th August 25-29, 2019, San Diego, CA	Chemistry of Water		
259 th , March 22-26, 2020 Philadelphia	Macromolecular Chemistry: The Second Century	Timothy Lodge Kris Matyjaszewski	lodge@umn.edu km3b@andrew.cmu.edu
260 th , August 23 - 27, 2020 San Francisco	Chemistry from Bench to Market		

The Kavli Foundation Emerging Leader in Chemistry Lecture

Monday, August 22, 4:00 - 5:10 PM

Ballroom B, Pennsylvania Convention Center



Omar Farha, Northwestern University

Bioinspired Sponges: Metal-Organic Frameworks for Combating Nerve Agents and Toxic Gases

Metal-organic frameworks (MOFs) are an extraordinary class of solid-state materials. They are built up from metal-based nodes and organic linkers. They exhibit permanent porosity and unprecedented surface areas

The Fred Kavli Innovations in Chemistry Lecture

Monday, August 22, 5:15 - 6:30 PM

Ballroom B, Pennsylvania Convention Center



Chad A. Mirkin, Northwestern University

Establishing a Genetic Code for Unnatural Materials

Nature encodes nucleic acids to assemble enormously complex and highly functional materials that form the foundation of life. To establish a similar code to construct synthetic, unnatural materials would allow researchers to