

Industrial Advisory Board, ACS Division of Polymer Chemistry, Inc.
March 24, 2015 * Denver, CO USA
Sheraton Denver Downtown, Room Plaza Court 3, 7:30 AM – 9:30 AM
MINUTES

In Attendance:

Co-Chair: Travis Baughman, DSM	Mehmet Demirors, Dow
Co-Chair: Diana Gerbi, 3M	Wei Gao, Dow
Membership Chair: Michael Hunt, PolyMaterials	Dave Meunier, Dow
Lesia Linkous, POLY Business Office	Sam Tucker, Boeing
Delinda Phillips, POLY Business Office	Derek Patton, USM
Louis Pitet, DSM	Stacey York, University of Oregon
Bronco Gordon, Polymer Chemistry Innovations	Annalese Maddox, Gelest
Laura Stratton, Polymer Chemistry Innovations	Jonathan Goff, Gelest
Jamie Strickland, Albemarle	Carrington Smith, MPG
Daniel Bowen, NSC/Honeywell	Saji Meledathu, Evonik
Jamie Messman, NSC/Honeywell	Kathleen Havelka, Elevance Renewable Sciences
Amandaa Brewer, Tosoh	Karl Haider, Bayer MaterialScience
Corrine Lipscomb, 3M	Gobet Advincula, Case Western Reserve University
Erik Hagberg, ADM	Dana Garcia (phone), Arkema
Mike Abrams, Arkema	Scott Eastman (phone), UTC
John Pochan, Graphene Devices Limited	Andy Myer (phone), Wyatt Technologies
Shanti Swarup, PPG	Chris Radano (phone), DSM
	Mick Hurrey, BMGT

***Industrial Advisory Board – Strategic amplification of the ACS Polymer Division’s
(POLY’s) industrial voice in programming, education and award recognition***

Co-Chairs Diana Gerbi and Travis Baughman opened the meeting and offered their brief introductions and description of Agenda.

MISSION:

An action item from the Dallas ACS Meeting was to review the current IAB Mission Statement and make sure that it is clear and concise to people. After receiving feedback over the summer it seems desirable to change the top line to a simple statement. A slide was displayed with phrasing for group review.

Approved: **“Enhance and foster industrial engagement and support to develop programming, awards and recognition, and education within the ACS Division of Polymer Chemistry.”**

MEMBERSHIP:

Slides were shown to represent new membership 2010 – 2013 and new members 2014 – 2015. Hunt welcomed new members and expressed the Board's excitement for the influx in membership, many of whom are here today. It helps to bring energy to the group. Baughman thanked Hunt for his efforts as well and congratulated the Board for the many activities and accomplishments because, "...it's about the people behind the logos".

The current policy is that after 12 months of radio silence IAB will remove the member company from the roster. To keep companies connected, it is recommended that at least 2 representatives be identified/participate in Board activities.

BUDGET:

A slide was shown to provide a history of the IAB budget, to include a breakdown of expenses as well as the current standing for 2015. IAB works on an income in before expense and operates on a January 1 to December 31 POLY cycle. The numbers represent a stable budget with \$3-4k carryover each year that is approved with proper request to the POLY Executive Board during or before the winter ExComm meeting. 33% of the budget is currently spent on Networking and Memberships which closely aligns with a recent POLY Member Survey stating that approximately 60% (the highest percentage represented) values opportunities for networking as a reason to attend meetings.

AWARDS AND SUPPORT FOR FUTURE FOCUS:

Industrial Polymer Scientist Award (IPS)

The nomination process is now open and will be accepted until JULY 31, 2015 for the 2016 Award. The purpose of the IPS Award is to recognize outstanding industrial innovation and creativity in the application of Polymer Science, conducted by individual scientists or research teams. More details are online at:

<http://www.polyacs.org/256.html> Previous nominations will roll over with the 2014 IAB IPS nominations. Please notify POLY Awards Co-Chairs/contacts if the packet needs to be updated. A reminder will be sent out via the Bulletin in April and August with further details.

Other IAB Support Initiatives:

A general slide provided a list of awards and symposia supported for this ACS Meeting and future events.

In particular, Garcia spoke about the need for at least 2 volunteers to help co-organize Polymer Science of Everyday Things (**PSOET**), one of the IAB supported symposia. Though it was initially planned for Boston, no one volunteered so it is tentatively planned for Philadelphia in Fall 2016. The goal of the "The Polymer Science of Everyday Things" symposium and workshop is to explain how things that people encounter and use everyday depend on polymer science for their ubiquity. The special focus proposed is "Beauty, Sports and Leisure". Specific topics will be crystalized as speakers are identified. We will be presenting "The Polymer Science of Everyday Things" information to K-12 science teachers during a half-day workshop which will be complimented by a corresponding three session symposium (Sunday and Monday) designed for scientists. Teachers teaching teachers about the use of polymers is a primary goal of the Polymer Division's educational initiatives. POLY, through its PolyEd committee and through its participation in the Intersociety Polymer Education Council (IPEC), has been providing in-service workshops to K-12 science teachers since 1990. The teachers' workshop is an important way to get scientific information through the various layers of society, specifically from scientists to teachers to kids and their parents.

PROGRAMMING:

Denver:

A slide was provided as a snapshot of programming for Denver and events sponsored for the week. Details:

Monday March 23:

- Industrial Innovations in Polymer Chemistry (IIPC)
 - M. Hunt, C. Lipscomb
 - Monday March 23, 2015, 1:30 PM – 5:00 PM
 - Governor's Square 12, Sheraton Denver Downtown
- IAB Social
 - 6:00-8:00pm
 - Earl's Kitchen and Bar, 116 Glenarm Pl # 140 * Denver CO

Tuesday, March 24:

- Industrial Advisory Board meeting
 - 7:30-9:30am * Plaza Court 3 * Sheraton Hotel
- Student-Industry panel discussion, Undergrad Research in Polymer Science Symposium
 - S. Tucker, E. Murphy
 - Tuesday, March 24, 3:45 – 4:45 p.m.
 - Sheraton Denver Downtown Hotel Plaza Court 8
 - This panel allowed an opportunity to connect with students to industry in an effort to enhance programming

2014 Spring IAB Sponsorships:

- GRADUATE STUDENT TRAVEL AWARDS
 - 2 awards \$500.00 each
 - X. Meng, Virginia Tech
 - J. Yeom, University of Michigan
- Excellence in Graduate Polymer Research
 - IAB Sponsor, \$1,000.00
- Undergraduate Research in Polymer Science
 - IAB Sponsor, 1,000.00

Fall 2015 and beyond, looking ahead - Programming:

Boston:

Monday, August 17, note that the programming of the 2 symposia will allow for 1 full day of programming for IAB on Monday.

- Value of Basic Research to Industrial Polymer Science
 - morning requested, more information will be available soon on this event
 - S. Eastman, C. Radano
- Industrial Innovations in Polymer Chemistry (IIPC)
 - afternoon requested
 - C. Lipscomb, L. Stratton
 - The Industrial Innovations in Polymer Chemistry Symposium will be on Monday Afternoon. The general purpose of this symposium is to highlight new technologies and products within the industrial sector that came to fruition because of new advances in polymer chemistry.

Current List of speakers, affiliations and Presentation Titles:

(1) Schlumberger Limited - Phil Sullivan - Research Program Manager - Inter-Polymer Complex Hydrogels formed by Thermal and/or pH Triggered Gelation

(2) BASF Corporation - Guenter Scholz - Senior Manager - Industrial Innovation in the case of Flame Retardant Thermoplastic Polyurethanes

(3) Arkema, Inc. - Jason Ge - Research Scientist - Alternative Light Diffusion Materials for LED Lighting

(4) Milliken Chemical - Scott Trenor - Senior Research and Development Chemist - Enhancing the Properties of Polypropylene: Upgrading rPP for More Demanding Applications

(5) 3M Company - Kiu-Yuen Tse - Research Specialist - Kind Removal Silicone Tape: Innovation in Medical Adhesives

(6) BIND Biosciences - Mir Ali - Director Polymer Chemistry - Polymer Excipients for Accurins™: Design and Development of Polymers that Enable Targeted Nanoparticle Based Cancer Therapy

(7) MPD Chemicals, Carrington Smith - CEO - A Chemist's Challenge:
Making Sense of Financial Jargon.

- IAB Social
 - 6:00-8:00pm * location TBD

Tuesday, August 18

- Industrial Advisory Board meeting
 - 7:30-9:30am * location TBD
- Value of Basic Research to Industrial Polymer Science – A Senior Chemist's Perspective
 - afternoon requested, more information will be available soon on this event
 - S. Eastman and R. Moore Organizers

Fall IAB Sponsorships:

- GRADUATE STUDENT TRAVEL AWARDS
 - 2 awards \$500.00 each

San Diego:

Monday, March 14, 2016

- POLY-INOR-BGMT half day, title TBD
 - Inorganic Polymers in Industrial...
 - morning requested L. Stratton, N. Radu (INOR)
- Industrial Innovations in Polymer Chemistry
 - afternoon requested (Denver) L. Pitet, A. Meyer
- IAB Social
 - 6:00-8:00pm * location TBD

Tuesday, March 15, 2016

- Industrial Advisory Board meeting
- 7:30-9:30am * location TBD

Discussion:

The group actively discussed programming for 2016 San Diego... we need volunteers: Pitet would like to volunteer for IIPC and maybe pair with Lipscomb. Meyer, Stratton and Tucker also offered to help; Meyer is local. Do we do themed talks for IIPC? This will be explored.

Philadelphia and then San Francisco will be the next ACS Meetings to program.

SPECIAL PRESENTATION: THE MASTER'S INDUSTRIAL INTERNSHIP PROGRAM AT THE UNIVERSITY OF OREGON

“The quality of students coming out of the Master’s Industrial Internship Program is uniformly high. The students are productive and enthusiastic, and seem to really enjoy their experience with us.”

–Kyle Gee, Sr. Director, Chemistry R&D,
ThermoFisher Scientific

The Master’s Industrial Internship Program was developed in partnership with industry leaders to provide strong technical training in the fields of *Polymers*, *Optics*, and *Semiconductors*. With over 16 years of experience, our educational program allows students to gain an industrially-relevant technical background, professional skills such as communication and leadership, and real-world training through a 9 month internship. Companies who host interns have the benefit of assessing the students’ capabilities before making hiring decisions. With 500+ alumni and approximately 90% of students receiving regular job offers after their internships, we continue to produce top technical talent.

What is my financial commitment?

No fees or annual participation requirements are associated with the program.

What impact will hiring interns have on IP?

IP generated during the internship is solely owned by the host company.

When are students available to begin an internship?

Internships typically begin in early fall or winter, though there is some flexibility.

When can I hire an intern as a “regular” employee?

You can make an offer at any time during the internship without affecting an intern’s academic status. Our students do not need to return to UO to complete their coursework allowing them to transition from intern to FTE without interruption.

For more information visit internship.uoregon.edu or contact *Stacey York, Ph.D., Director of Strategic Partnerships*, syork@uoregon.edu, 541-346-6752

ACS IPG: REGIONAL & THEMATIC EVENTS AND OTHER OPPORTUNITIES:

ACS IPG Grants:

Baughman introduced a topic on the value to IAB programming submitting a proposal to ACS IPG Grants.

General Information was acquired from the IPG Website and a slide shown to the Board.

Web: <http://www.acs.org/content/acs/en/funding-and-awards/grants/acsccommunity/tdinnovativegrant.html>

The description of IPG was reviewed by the Board to include:

- Meaning of “innovative”
- IPG must “stimulate local section membership involvement”
- Reasons that IPG proposals are not funded or not fully funded.
- Other tips for success

This Board reviewed the description of “regional and thematic events”. Hurrey provided a brief description of his knowledge and explained the ability of Divisional/vs/Cross-Divisional submissions, meaning if a grant is benefited by multiple divisions there could be increased benefit; Pochan mentioned to the group that this Board has the ability to go to the IPG website and see other grants submitted so as to attempt to bring in original ideas rather than a repeat.

Proposals are due February 1 and July 1: up to two projects totaling up to \$12,500 in a calendar year, and may have no more than two active proposals during any one review cycle. The maximum funding per project is \$7,500. DAC may, at its discretion, reserve up to 10% of available funds to support Division programs related to thematic programming. Once every five years, divisions may request up to \$2,000 for IPG proposals *specifically* pertaining to strategic planning (which is deducted from the maximum \$12,500 pool of allowable funds leaving \$10,500 for funding for up to two proposals). A joint-division application with identical proposals will be limited to funding of \$12,500 split in half between the two Divisions. DAC reviews IPG proposals in two cycles each year.

- Funds must be used to support the proposed Division projects and should be expended within a 1-2 year time period.
- No matching funds are required, but Divisions should include a list of other funding sources being considered.

Current POLY Submissions: Haider reminded the group that POLY currently has active IPG grants open at this time and to check with the POLY Executive Board as to the status. In addition, please notify the POLY Executive Board of IAB intentions so as to follow the appropriate protocol. Baughman mentioned that if POLY does not have access to funds due to other open grants, then IAB could explore applying through other Divisions.

Other potential funding:

Hurrey described a second award/ACS-themed award as there may be funding there. IAB would need to determine who the theme-focused programmer is through ACS for further information.

Regarding Programming and Beyond: Gerbi reminded the group to be selfish when it comes to programming and meeting topics because many times, your needs represent the needs of many. Stay active and communicate ideas. Advincula invited all to attend the POLY Programming Committee Meeting this week to continue this active participation.

BULLETIN:

There was a group discussion about transitioning the Bulletin to electronic form.

Possible options being considered:

- Wild Apricots
- Constant Contact
- ACS-based newsletter (Baughman is working with David E. Harwell, PhD, Assistant Director, Industry Member Programs)

Options will be explored this year and decisions will be made in the future on how to best disseminate information to this Board.

A Bulletin will be sent within 30 days of this ACS Meeting to quickly report on the high level sharing of ideas during this meeting.

OTHER ITEMS OF INTEREST:

Daly reporting: PPC-14 * 14th PACIFIC POLYMER CONFERENCE, Sponsorship Opportunities:

<http://www.ppc14.org/>
December 9-13, 2015
Grand Hyatt Resort and Spa
Kauai, Hawaii USA

Brewer reporting: Tosho - GPC conference in September:

Mark your calendars for the GPC conference Polymer and Polyolefin Analysis and Characterization. Sept. 1-2, 2015 Washington, DC. Details at www.gpcconference.com

Meyer reporting: Wyatt Technology event in Santa Barbara in November:

Mark your calendars for the Wyatt Technology International Light Scattering Colloquium. Nov. 2-5, 2015 in Santa Barbara, CA. Details at <http://www.wyatt.com/events/ilsc/ilsc.html>

Abrams reporting: ACS Award: Heroes of Chemistry web page:

– Deadline April 20

<http://www.acs.org/content/acs/en/funding-and-awards/awards/industry/heroes.html>

Note: Hurrey mentioned recent statistics involving nominations of ACS Awards by Industry: Academic vs. Industry: 54% is Industry, 90% awardees are academic.

ACTION ITEMS:

- Programming assistance needed: 2016 Fall Philly & beyond...
- Panel discussion volunteers for San Diego?
- IAB Bulletin – one pager topics

TO DO BOSTON:

- Slide distribution before the meeting!
- Mike Abrams – Arkema – liaison to Corporation Associates (?)
 - Report/update status, activities, potential overlap
- Stacey York – “friend of IAB” link to U. Oregon – link with Sarah Morgan – does Stacey want to take over the panel discussions/judging organization?
- Minutes Approval – San Francisco and Denver
- Additional Awards
 - Survey IAB membership & compile list of currently active awards, proposal to be developed during IAB discussion in Boston (Erik & Corinne in the lead, Mick to provide additional information)
 - IPG
 - Submit through Divisional Activities Committee versus local section initiative
 - Check draft proposals with Mick and John – get feedback!
 - Deadline ~July
 - Check to be sure all outstanding IPG reports are complete and submitted
 - Thematic funding – Go for Boston
 - Check with Mick for contact person – email request only (simple!)
- IIPC ideas – start-ups (Pochan), links with academics (Pitet)
 - Reminder to distribute and show IAB-POLY slide to co-organizers
 - Require to show before session and during intermission

- INVOICE – Gelest (Johnathan/Annalese), Elevance
- RE-INVITE – Illumina (Sean Ramirez)

Adjourn: 9:30AM

Respectfully submitted, Lesia Linkous, Delinda Phillips, Travis Baughman & Diana Gerbi