



IAB Bulletin

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Welcome New IAB Members

- Albemarle
- Honeywell
- Kraton Polymers LLC
- MPD Chemicals

Congrats to IAB's Fall Graduate Student Travel Awardees



- **Benjamin P. Cherniawski**
(University of Massachusetts, Amherst)
- **Taeshik Earmme**
(University of Washington)

IAB San Fran Highlights ~ STANDING ROOM ONLY ~

The Fall 2014 ACS Meeting in San Francisco, CA, proved to be another excellent meeting for the POLY Industrial Advisory Board. Three major IAB events were hosted at this meeting and included the biennial Industrial Polymer Scientist (IPS) Award, the inaugural Industrial Innovations in Polymer Chemistry (IIPC) Symposium and the recurring IAB Social events. These events were all very well attended and is summed up nicely with the phrase, "Standing Room Only".

IPS Award



Robert D. Allen (IBM Almaden Research Center) was recognized for his outstanding industrial innovation and creativity in the application of polymer science, conducted by individual scientists or research teams. During his nearly 30 years as a researcher at IBM, Dr. Allen has made seminal contributions to the development of photoresists, the patternable polymers that make microelectronics possible. He is one of the pioneers of nanotechnology. He has invented and then led the development of the photoresists for 193 nm lithography making possible today's remarkable computers and communication devices. These remarkable photoresists have enabled the semiconductor industry to follow Moore's Law, even after it was predicted to be impossible. In his

roll as research manager, he is involved in the implementation of directed self-assembly, thought by many to be the next generation patterning method. Recognized recently by membership in the National Academy of Engineering, he is one of the premier American industrial chemists.

Co-organized by Drs. Michael Hunt (Polymaterials) and Karl Haider (Bayer), the inaugural IIPC Symposium was highly attended with more than 120 in attendance all through the afternoon's session. Dr. Corinne Lipscomb (3M) assisted Dr. Hunt in chairing the highly attended session that included inspiring lectures from various players in the synthetic polymer industry, ranging from smaller firms developing their materials to established polymer industry players to true end users who apply high performance polymers. The talks were well received and the audience eagerly questioned the speakers on various aspects of industrial research and innovation. The IAB looks forward to continuing the IIPC Symposium at the Spring and Fall ACS Meetings.

IIPC Symposium



Following the full day of programming, the IAB once again hosted industrial members, POLY members and special guests at the IAB Social on Monday evening at the Burritt Room Tavern & Bar. The area set aside for us was full from start to finish and represented our largest turnout to date. This event is well appreciated by our industrial members as a way to network within the IAB and POLY industrial membership, but also is appreciated as it allows industrial members to connect with POLY leadership and other members in an informal, semi-private setting.

IAB Social



Fast Facts

- IAB Board Payment is Due**

POLY IAB Dues in the amount of \$1,000.00 are due for 2014. Contact Lesia Linkous for processing, lesiar@vt.edu, ph: 540-231-3029.

- Upcoming POLY Workshops**

Find the latest on POLY Workshops at: <http://polyacs.net/workshopshub.htm>

- Upcoming ACS Events**

Find the latest on ACS Events at: <http://acs.org>

- POLY IAB lapel pins are available!**



*Denver ACS, POLY/PMSE Hotel:
Sheraton Denver Downtown Hotel*

Industrial Advisory Board

A special THANK YOU to those companies who have taken an active role in POLY's Industrial Advisory Board.



IAB, Denver Preview ACS National Meeting & Expo

Student Panel

A one-hour discussion forum between students and industrial scientists is planned for Tuesday, March 24, 2015, at the Denver ACS Meeting just prior to the poster session. IAB feels this effort directly serves the needs of the POLY and IAB membership with respect to building stronger connections from the POLY community to our industrial members while allowing students an open forum to question industrial scientists. For further information or to get involved, please contact Sam Tucker (samuel.j.tucker@boeing.com) or Erin Murphy (Erin.Murphy@Kraton.com).

IIPC Symposium

The second Innovations in Polymer Chemistry (IIPC) Symposium is scheduled for the Denver ACS Meeting and is being Chaired by Drs. Michael Hunt (Polymaterials) and Corinne Lipscomb (3M). Eight speakers are scheduled and topics include: Sustainable carbon sources for the chemical industry: CO₂ is becoming a direct and indirect component in polyurethane plastics (Christoph Guertler, Bayer MaterialScience); Building a portfolio of renewable diols for unsaturated polyester resins (Erik Hagberg, ADM); From literature research to industrial production and back again: A polymer's tale (Laura Stratton, Polymer Chemistry Innovations); Living Polymerization Routes to Siloxane Macromers (Jonathan Goff, Gelest); Enhanced material properties from new isomer configurations of polyetherimides (Peter Johnson, SABIC); Pushing the boundaries for hydrocarbon extraction in the Oil & Gas industry through block copolymer technology (Erin Murphy, Kraton); Advances in Polyethylene (Mehmet Demirors, DOW); and, Abundant, low cost U.S. shale gas supply stimulates polyolefins renaissance (Patrick Brant, ExxonMobil).

IAB Social

Monday, March 23, 2015
6 – 8 PM
Location TBA, Denver CO

IAB Meeting

Tuesday, March 24, 2015
7:30 – 9:30 AM
Location TBA, Denver CO

IAB, New Initiatives and Future Planning

Boston Fall 2015

- IIPC, half-day symposium, unthemed as standard (Hunt, Lipscomb)
- **Additional Industrial programming Boston Fall 2015**, The Value of Basic Research to Industrial Chemistry (half day, Chris Radano (DSM), Scott Eastman (United Technologies (UTC)) in collaboration with Robert Moore (Eastman Kodak, ret))

San Diego Spring 2016

- IIPC, half-day symposium, unthemed as standard (co-orgs TBD)
- **POLY-INOR-BMGT collaboration**, preliminary topic: Inorganic Polymer Materials in Industry (co-organizers Stratton (Polymer Chem. Innov.) and others TBD) target half day symposium