



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

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PMSE appreciates YOU for being a part of our program. As the Fall 2020 meeting gets underway, we are already preparing for 2021. If you are not already a PMSE member, please [join us](#). ***If you want to contribute to this dynamic community, consider [enlisting as a volunteer](#).***



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DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

[Please Vote!] The 2020 election of Division of Polymeric Materials: Science & Engineering of is under way. You will be asked to vote for PMSE councilor and members-at-large for 2021-2023. Please find voting instructions in your email. This election closes on November 15, 2020.

Here are our current PMSE officers, councilors and members-at-large for term 2020.



Eva Harth
Chair



Timothy Bunning
Chair-Elect



Lisa Baugh
Vice Chair



Daniel Savin
Treasurer



Megan Robertson
Secretary



Matthew Becker
Past Chair



A. Jay Dias
Councilor



Julie Jessop
Councilor



Benny Freeman
Councilor



Dean Webster
Councilor

PMSE Members-at-Large (2020)

•2020-2021

Elizabeth Cosgriff-Hernandez (University of Texas at Austin)

Jaime Grunlan (Texas A & M University)

Chris Ellison (University of Minnesota)

LaShanda Korley (University of Delaware)

Michael Silverstein (Technion)

Davita Watkins (University of Mississippi)

•2019-2020

Laura Bradley (University of Massachusetts at Amherst)

Kelly Burke (University of Connecticut)

Christopher Stafford (NIST)

Malancha Gupta (University of Southern California)

Bryan Vogt (Penn State)

Shu Yang (University of Pennsylvania)



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

PMSE News

- Macromolecular Alliance for Community, Resources and Outreach (MACRO) aims to create an open forum for individuals within the Polymer community to engage with others at the undergraduate, graduate, and faculty level. This includes resources for connecting undergraduate students to research opportunities and REUs/ other internships, graduate fellowship opportunities, and postdoctoral fellowships, and for new faculty mentoring and training.
Please see their homepage and currently available resources at <https://macro-poly-pmse.org/>
- ACS Fall 2020 “San Francisco” was held virtually on August 17-20, 2020. This meeting was the first virtual meeting ever. The theme for the 260th ACS National Meeting was “Moving Chemistry from Bench to Market.” The PMSE Division program tentatively has 349 oral presentations and 70 posters.
- PMSE/POLY Plenary Lecture & Award Reception was held on August 19, 2020. Our keynote speaker, **Prof. Jeffrey Moore, University of Illinois – Urbana Champaign**, gave an excellent talk on “Materials Functions for Polymer Lifecycle Control.”
- **Global Outstanding Scientist Award Deadline Extended.** Sponsored by the Chemical Marketing & Economics Topical Group of the American Chemical Society’s New York Section (CME), the Award recognizes two USA or international graduate students within one year to graduation or a recent graduate who has completed an outstanding thesis in polymer research accepted by a university during the three-year period prior to January 1 of the award year. The purpose of the award is to disseminate globally the knowledge of polymer research. A unique concept of the Award is to bring to the ACS convention not just the winning student but the related role model such as the thesis advisor. Nominations are still accepted through October 31, 2020 for consideration for the 2021 award. Please see additional details here for requirements on the submission package. <https://pmsedivision.org/global-outstanding-student-award/>



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

2019 and 2020 PMSE awards

- **Past Chair Award:** Matthew Becker



Matthew Becker
Past Chair

- **2019 Doolittle Award**

JULIA KALOW

Northwestern University

“Reversibly photocontrolled stress-relaxing networks”



JIAN QIN

Stanford University

“Competition of solvation and entropic effects in ion-containing block polymers”



- **2019 Eastman Chemical Student Award:** R. Konane Bay (University of Massachusetts)



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- **2020 PMSE Fellows:** Vivek Prabhu, Shanti Swarup, Tao Xie, Ting Xu



VIVEK PRABHU



SHANTI SWARUP



TAO XIE



TING XU

- **2020 ACS Award in Applied Polymer Science:** Joachim Kohn
- **2020 *Bioconjugate Chemistry* Lectureship Award:** Jason Lewis



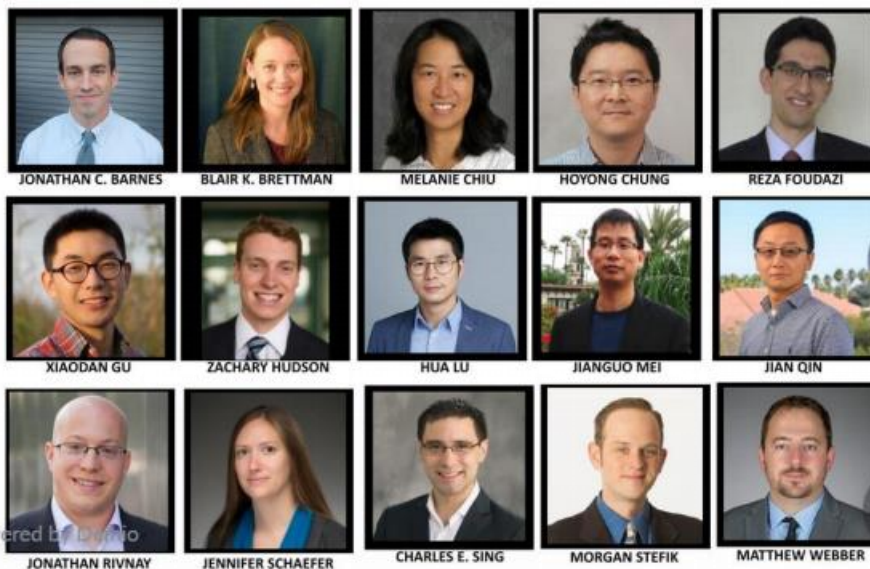
- **2020 *Journal of Polymer Science* Innovation Award:** Brett Fors (Cornell University)



- **2020 *Chemistry of Materials* Lectureship and Best Paper Award** – Matthew Panzer, Anthony D'Angelo

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- **2020 Henkel Award for Outstanding Graduate Research in Polymer Science & Engineering:** Jeffrey Lopez
- **PMSE Young Investigators:** Jonathan C. Barnes, Blair K. Brettman, Melanie Chiu, Hoyong Chung, Reza Foudazi, Xiaodan Gu, Zachary Hudson, Hua Lu, Jianguo Mei, Jian Qin, Jonathan Rivnay, Jennifer Schaefer, Charles E. Sing, Morgan Stefik, Matthew Webber

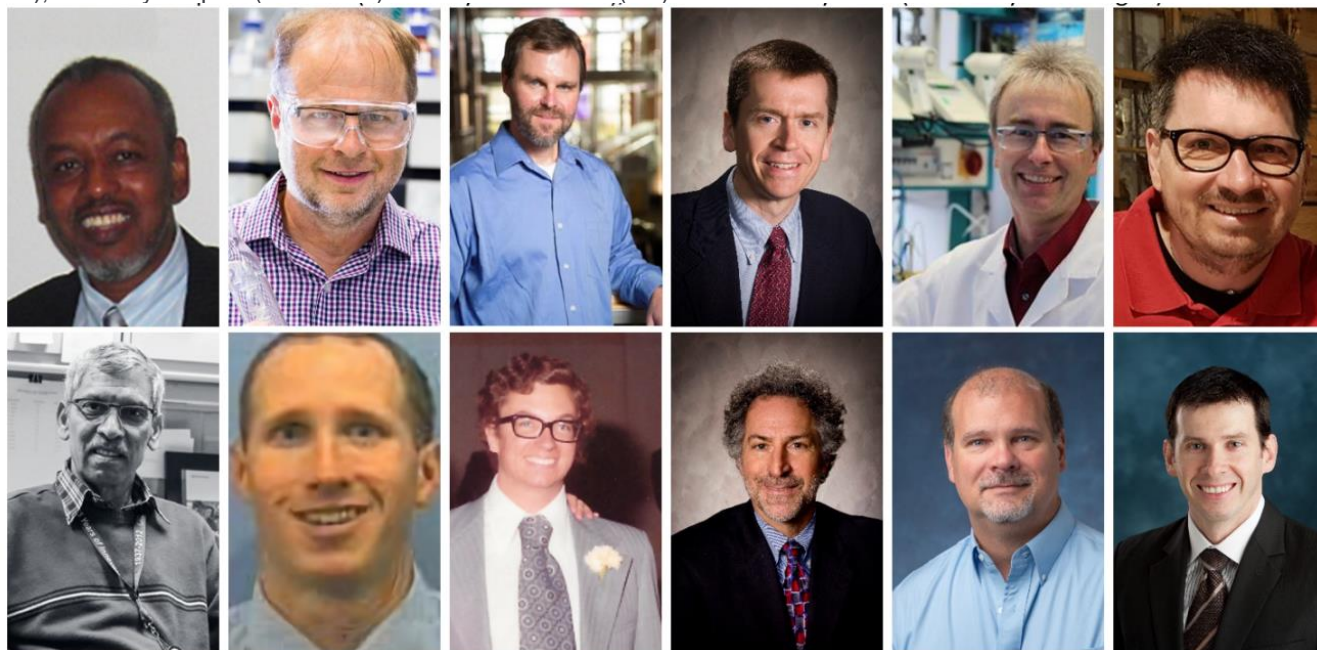


- **PMSE Future Faculty:** Céline Calvino, Danielle Fagnani, Samantha Kristufek, Chao Lang, Francesca Lorandi, Rinat Meir, Angelika Neitzel, Fatemeh Ostadhossein, Nicholas Pavlopoulos, Hai Qian, Julia Rho, Johanna Schwartz, Peyton Shieh, Yilei Wu, Renxuan Xie, Benjamin Yavitt



- Cooperative Research Award In Polymer Science And Engineering – 2020 Award Winners**

The 2020 Cooperative Research Award in Polymer Science & Engineering recognizes the team of researchers from University of Colorado, University of Michigan and 3M for their collaborative research efforts that resulted in a novel technical solution to address the critical problem of shrinkage stress in crosslinked photopolymerized systems using addition fragmentation monomer (AFM) technology and successfully employing this approach to enable several significant product applications. The collaborative research team is represented by Professor Christopher Bowman (University of Colorado), Professor Timothy Scott (University of Michigan), Dr. Ahmed Abuelyaman (3M), Dr. Peter Bissinger (3M), Dr. Bradley Craig (3M), Karsten Dede (3M), Dr. Timothy Dunbar (3M), Dr. Adrian Eckert (3M), Dr. Babu Gaddam (3M retiree), Dr. Guy Joly (3M), Dr. Larry Krepski (3M retiree) and Dr. Joe Oxman (3M).



- ACS Award for Team Innovation**

To highlight the value and importance of technical teams and teamwork to the chemical and allied industries by recognizing a multidisciplinary team for successfully moving an innovative idea to a product in commercial use now.


OTTO BERBEE
JAAP DEN DOELDER
LORI KARDOS
TERESA KARJALA
JOE ORTEGA

<https://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/acs-award-for-team-innovation.html>



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

● 2020 Fall Best Poster Award Winners

The American Chemical Society Division of Polymeric Materials: Science and Engineering (PMSE) is pleased to announce the winners of the PMSE Best Poster Awards presented at the 2020 ACS National Meeting in San Francisco, CA. Congratulations to Whitney Loo, Chan Ho Park, and Isaac Shin as presenters for the best posters.

● Polymer dynamics in block copolymer electrolytes detected by neutron spin echo

Whitney Loo¹, Antonio Faraone², Nitash P Balsara³

1. Chemical and Biomolecular Engineering, University California Berkeley, Berkeley, California, United States

2. MS 6100, National Institute of Standards Tech, Gaithersburg, Maryland, United States

3. Univ of California, Berkeley, California, United States



Whitney Loo

● Modulating solution viscosity by controlling the polymer morphology in solution from intra- to intermolecular hydrogen bonding

Isaac Shin¹, Myungeun Seo^{1,2,3}

1. Graduate School of Nanoscience and Technology, KAIST, Daejeon, Korea (the Republic of)

2. Department of Chemistry, KAIST, Daejeon, Korea (the Republic of)

3. KAIST Institute for Nanocentury, KAIST, Daejeon, Korea (the Republic of)



Isaac Shin

● Real-time photothermal sensing and therapy using block copolymer-grafted MoS₂ nanocomposites

Chan Ho Park, KAIST, Daejeon, Korea (the Republic of)



Chan Ho Park



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

PMSE Publication Committee
Huaxing (Daniel) Zhou (ExxonMobil Research and Engineering)
Wenyi Huang (DuPont)

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