



Engineering Properties and Structure Division Newsletter

February
2017

CHAIRPERSON'S REPORT



Dear EPSDIV Members,

As I write this, a very nice program is about to be finalized for the much-anticipated ANTEC 2017 meeting in the beautiful Anaheim, CA in May 8-10, thanks to the excellent work done by our Technical Program Co-chairs **Jason Lyons** and **Brian Grady**. According to their report, we will have a total of 48 scientists or engineers presenting their work in 7 different sessions. The number of presentations will be 50% more than last year. Among those sessions, we will have a joint session with Sustainability Division as you can imagine this is a topic with growing interest. We will also dedicate two special sessions to Prof. Samuel Kenig from Shenkar College and Prof. Robert Weiss from The University of

Akron, respectively. You can go online to the ANTEC 2017 website (<https://www.eiseverywhere.com/ehome/184555>) to check out more programs and activities of this event. If you haven't registered yet, do it now and enjoy the early bird discount!

In addition, EPSDIV is currently soliciting sponsorship for the ANTEC 2017 program. The objective will be to help EPSDIV fulfill its mission, which is to stimulate the investigation and to better understand the engineering properties of polymers, and their relationships to composition, structure, and processing variables, and to foster technical activities and information exchange on all polymeric materials. Received funds will be used to support the technical program quality and plastics education. Activities promoting high quality technical conference programs include sponsorship of awards for outstanding papers, expenses and honoraria for invited speakers, and seed money for other EPSDIV-sponsored topical conferences. Activities supporting plastics education include sponsorship of awards for

outstanding student papers, student travel grants, scholarships and short courses. We solicit \$500 per sponsor this year. Your company or institution's name will be recognized at entrances to each EPSDIV-organized session at ANTEC, from the podium by the session moderators, and also on the screen between talks. So please let us know if you want to make a contribution and we thank you in advance for your support!

- Daniel Liu



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Dr. Kapur is a Materials Science Fellow in the Packaging and Specialty Plastics Business Unit of the Dow Chemical Company. Her research work spans various areas including a novel multifunctional analyzer approach for product quality control; catalyst-process-polymer materials science combination with application performance relationships resulting in new, enhanced performance polyethylene product portfolios to

meet evolving market needs; and intellectual property protection. She is also involved in defining University/External Institute-Industry collaborations. She has 13 granted US patents and over 25 publications and conference presentations. Dr. Kapur is a past Board Member of the Society of Plastics Engineers Blow Molding Division, and current Councilor for the Engineering Properties and Structure Division.



Dr. Masaya Kotaki is the General Manager of Kaneka US Material Research Center, Kaneka Americas Holding, Inc. located in Texas, USA since 2014. His research career includes roles as an Associate Professor at the Department of Advanced Fibro-Science in Kyoto Institute of Technology in Japan and a Research Associate at the Institute of Materials Research and Engineering in Singapore. He has focused on

fundamental understanding of processing-structure-property relationships of polymer-based materials. He co-authored 4 book chapters and more than 100 ISI listed journal papers. His publications have been cited more than 10,000 times with 27 H-index. His contributions to the related scientific societies include the chairmanship of the Asian Workshop on Polymer Processing and board memberships on many plastics & polymers related societies.



Dr. Sun pioneered the injection stretch blow molding (ISBM) of polyolefins. His research led to more than 10 U.S. and international patents and patent applications. Dr. Sun's innovations helped promote the industrial application of polyolefin ISBM. Dr. Sun also conducted leading research in polymer composites and nanocomposites. His patent pending nanocoating technology has led to significant improvement in barrier and flame

retardant properties. Dr. Sun is the current President of the Chinese American Society of Plastics Engineers. He has participated in the organization of the International Polyolefins Conference for over 10 years, as well as other SPE sponsored conferences. Dr. Sun is also a dedicated educator. Many students have been trained in his courses and moved into polymer industry.

***Congratulations to
Dr. Kapur,
Dr. Kotaki,
and
Dr. Sun
on their well
deserved
recognition!***

SPE members are honored for their outstanding contributions in the field of plastics engineering, science or technology, or in the management of such activities. Candidates must be sponsored by an SPE Division or Special Interest Group and elected by the Fellows Election Committee on the basis of their professional record as well as written sponsorships from at least two SPE members. Only 319 members, including the new Fellows, have been awarded this prestigious title since it was introduced in 1984.



Brian Grady

Since 1994, Dr. Grady has been employed by the University of Oklahoma as a faculty member in the School of Chemical, Biological and Materials Engineering and currently is the Conoco-DuPont Professor of Chemical Engineering. He served on the Executive Committee of SPE from 2008-2012 and served as Secretary of the Society in 2010-2011. He was elected as a Fellow of the Society in 2012. He received a B.S. from the University of Illinois in 1987, and a PhD from the University of Wisconsin in 1994, both in Chemical Engineering. Nominated by the Engineering Properties and Structures Division.



Hoang T. Pham

Dr. Pham is currently working at Avery Dennison, with research in films for labels and specialty packaging. Current research interest includes special barrier, shrinkable, and sustainable films for packaging and labeling. Previously, Dr. Pham spent over 22 years at The Dow Chemical Company, with research and development focus on new materials and processing developments. He is an active member of SPE and has served on the Engineering Properties and Structure Division Board. He received his PhD in Polymer Science at the University of Akron. Nominated by the Engineering Properties and Structures Division.

***Congratulations to
Dr. Grady
and
Dr. Pham
on their well
deserved
recognition!***

"To be elected an Honored Service Member, a candidate shall have demonstrated long-term, outstanding service to, and support of, the Society and its objectives; shall be sponsored, in writing, by the Board of Directors of at least one Section or Division." Only 316 members, including these inductees, have been elected to this prestigious status since it was established in 1992.
(SPE Bylaws)

ANTEC-2017 TPC REPORT

It is hard to believe that ANTEC is nearly upon us. In just a few short months, we will reunite in sunny California to learn about all of your exciting discoveries over the past year. We are extremely happy to announce that we will have 50% more podium presentations in 2017 than 2016....this would not be possible without your hard work and enthusiasm so, thank you!

This year, 48 presenters will approach the podium in the following sessions:

Sustainability & Recycling (joint session with Sustainability - Monday morning)

A session in honor of Professor Samuel Kenig (Monday afternoon)

Polymeric Modeling (Monday afternoon)

Olefin Based Polymers (Tuesday morning)

Two sessions in honor of Robert A Weiss (Tuesday morning and afternoon)

Structure and Property of Polymers (Wednesday morning)

Polymer Characterization and Processing (Wednesday morning)

We hope that you will be able to attend ANTEC and we look forward to seeing you in the sessions. We are confident that you will enjoy what we have put together. **If you are interested in becoming more involved with EPSDIV, we cordially invite you to attend our TPC luncheon on Tuesday.** The location will be announced once a room has been secured.

ANTEC 2017 TPC Chairs:

Jason Lyons (Arkema)

Brian Grady (University of Oklahoma)

Going to ANTEC2017?
Click on the ANTEC graphic
to be directed to registration
& hotel links!

ANTEC® 2017

The plastics technology conference

May 8-10, Anaheim, CA



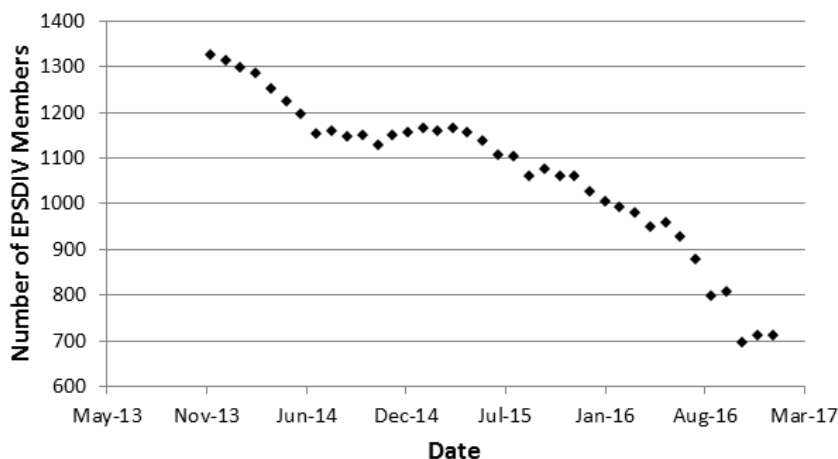
Membership Committee Report

The following is a plot of the Division membership over the last ~3 years. As you can see, the Division membership has dropped substantially during that time. Even if we discount the drop between September and October of 2016 (I think there was a change in which the (paying) membership was counted by the Society since the way in which membership information was communicated), the drop is still about 40%.



Brian Grady

Membership Chair



Your Division leadership is going to have a meeting to discuss this issue in a couple of weeks, but we certainly welcome any advice you can give us on how to increase Division membership. **We view this problem as very serious**, at the end of the day SPE is only as strong as its members.

Please contact me at bpgrady@ou.edu if you have any suggestions on how to increase Division membership (ideally those solutions which are revenue neutral!). Thanks.

“...at the end of the day SPE is only as strong as its members.”



TREASURER'S REPORT



Emmett Crawford,
Treasurer

ANTEC 2016 Reception



FINANCIAL REPORT FROM JULY 1, 2015 TO JULY 15, 2016

BALANCE as of July 1, 2014	\$36,195.96
(cash, checking, savings, investments)	
INCOME	ACTUAL
SPE Rebate	2230.14
ANTEC Sponsorships	1466.10
	<hr/>
TOTAL INCOME	\$3,696.24
EXPENSES	
Student Travel Fund	2,500.00
International Award	2,500.00
ANTEC Expenses	275.00
ANTEC TPC	4,171.19
Bank Fees	33.00
	<hr/>
TOTAL EXPENSES	\$9,479.19
ENDING BALANCE as of July 15, 2016	30,413.01

Submitted by Emmett Crawford, EPSDIV Treasurer 2015-2016



2017 EPSDIV ANTEC Technical Program Sponsorships

Now Offering Sponsorships for the 2017 ANTEC Program!

**Sponsorship
program:
\$500**

Offer includes

- ◆ Your Company name on room entrance posters!
- ◆ Your Company name on podium posters!
- ◆ Your Company logo on screen between talks!
- ◆ 1/2 page ad space (single issue) in Newsletter - a \$300 value!!

[Click here to reserve your spot today!](#)

Our 2016 ANTEC Sponsors:

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COMPANY, LP**
DOW CHEMICAL COMPANY
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POLYONE
RC BOPP ASSOCIATES, LLC
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Funds from the program are used to support the EPSDIV mission in two key areas:

◆ **Technical conference program quality**

Such as, sponsorship of awards for outstanding papers, expenses and honoraria for invited speakers, and seed money for RETECs and other EPSDIV sponsored symposia.

◆ **Plastics education**

Such as, sponsorship of awards for outstanding student papers, student travel grants, scholarships and short courses.

**Please ask your company or organization to sponsor the
2017 ANTEC Technical Program—Thanks!**

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