

P.A.D. REVIEW

Polymer Analysis Division Society of Plastics Engineers

Vol. 46 No. 2
August 2017

IN THIS ISSUE

Chair's Message	Page 1
BOD Members	Page 2
From the Editor	Page 2
Treasurer's Report	Page 3
PAD Call for Papers	Page 4
Councilor's Report	Page 4
Call for Papers	Page 6
SPE Application	Page 7
SPE Contact Numbers	Page 8

Greetings everyone,

We are beginning to prepare for the next ANTEC meeting in Orlando on May 7th-May 10th. Your Technical Program Chairs Greg Kamykowski and Ida Chen are working with the committee to prepare the submission and review process. If you are intending on submitting a paper please keep an eye on submission deadlines that will be approaching this fall/winter. Please contact either of them for any questions on the submission process.

The division is soliciting nominations for a fellow for the division. Please send recommendations to any board member. The nomination should include their name and a brief description of why you felt they should be named a fellow.

Finally, I would like to ask each of our members to talk to their colleagues about joining the division. The membership for the division is at 405 currently. If you know colleagues that are interested in joining or are renewing their membership please encourage them to join our division as either a primary or secondary selection. The work that is performed in our division drives the data that us collected and used in all other divisions and continuing to support the development of polymer analysis techniques is important to the industry.

Thank you,
Joel Lischefski

Board of Directors

Gregory Kamykowski	TPC	TA Instruments	gkamykowski@tainstruments.com
Feina Cao	Member		caofeina@hotmail.com
Harrison Yu	Councilor	Bondable Biopolymers	harrisonyu@comcast.net
Kevin Menard	Editor	Mettler-Toledo	kevin.menard@mt.com
Vassilios Galiatsatos	Treasurer	LyondellBasell Industries	vgaliatsatos@msn.com
Joel Lischefski	Chair	ChevronPhillips	joel.lischefski@yahoo.com
Changdend Liu	Secretary	Ethicon Inc. (Johnson & Johnson)	cliu26@its.jnj.com
Ida Chen	<u>TPC</u>	Dow	chen2c7ab2@dow.com
Alexandria Niemoeller	Member	TA Instruments	LNiemoeller@tainstruments.com
David W. Riley	Membership Chair	Extrusion Engineers	drdriley@aol.com

From the Editor

Note our webpage address has changed: please note it is now at:

<http://www.4spe.org/technical-groups/divisions/polymer-analysis>

We also have a group on Linked In called the Polymer Analysis Division, SPE. Please note that due to spamming, we will not be approving members without contacts or photos. Also if you have time constraints on your promotions, please email me directly to make sure it gets approved in time.

And since its summer, how about a nice Mint Julep:

mint
1 tsp. sugar
3 oz. bourbon

Add mint to a glass with sugar and muddle together. Add ice, then bourbon and stir.

KPM

Treasurer's Report
V. Galiatsatos, PAD Treasurer

Below is the activity of our account since our last newsletter.

Beginning balance as of February 28, 2017 was \$26,383.37.

We received one (1) rebate from SPE-HQ for \$985.00. We recorded \$1.78 in interest.

The following expenses were recorded during the period from February 28, 2017 to June 30, 2017: Best Paper Award \$51.05, Councilor Council Reimbursement \$915.74, periodic bank fee \$0.60.

Ending balance as of June 30, 2017 was \$26,402.76.

Submitted on July 22, 2017

DSC CONSUMABLES
i n c o r p o r a t e d

High quality lab ready dsc sample pans

10% discount off of all orders using promo code: PAD

www.dscconsumables.com

July 26, 2017 Councilors Report:

During the weekend before ANTEC 2017 in Anaheim CA, SPE governance met for Council meetings. This leadership group finished the 2016 – 2017 SPE year with our first Council meeting in which outgoing SPE president, Scott Owens reviewed the major accomplishments that took place under his leadership and introduced the incoming Executive Committee for the incoming year. Some of the most meaningful business reported was the following:

Mr. Patrick Farrey (pronounced “far-ee”) will assume the CEO’s role on June 09, succeeding Belgium-based Wim De Vos, who has chosen to step down from the position months ago and return to industry after leading SPE for the past five years. Patrick Farrey, a Chicago based US National, comes to SPE after a 23-year career in the publication and association management sector. As Vice President at Kellen, a US association management firm, he supported several associations and was the acting Executive Director for some. “With over 15 years of managing societies and associations, Farrey brings a great deal of non-profit experience” says President Scott Owens.

SPE needed someone from the industry like Wim to do the necessary restructurings in the past years and initiate an adapted business model, said Saudi Arabia-based Dr. Raed Al Zubi, who officially took the reins as president from outgoing president Scott Owens on May 7th at SPE’s flagship event ANTEC 2017. “Now is the time to build on a solid new foundation, for which an association executive has the best expertise” Al Zubi continues “SPE is in a very good position with a growing total membership with more young professionals, the newest digital resources, several solid strategic partnerships, more events, etc...” and he concludes that “Farrey has a very good basis to start from and strengthen SPE’s position as leading provider of new technology information and knowledge to the world-wide plastics industry.”

Celebration of our 75th anniversary of the founding of the Society of Plastics Engineers.

Adoption and implementation of the restructuring of the top level of governance with the new leadership model of vice-presidents elected to serve specific positions in various areas of responsibility such as marketing, finance, technology and young professionals.

Introduction of newly elected vice-presidents and the incoming Executive Board.

Review of the financial position including a 3-year operating plan, showing that 2017 is expected to close in the black with a net profit of approximately \$16K.

Announcement that the agreement with publishing company, Wiley who has agreed to and committed to be the publisher of the SPE magazine “Plastics Engineering” as well as our SPE Journals has been finalized. This agreement has been re-negotiated and is to be for a period of 10-years.

The second meeting of Council on ANTEC weekend was convened by newly commissioned president, Dr. Raed Al-Zubi. This was the first meeting of the new SPE operating year and it gave Dr. Al-Zubi a chance to introduce his board members, (see full listing at the following link: <http://www.4spe.org/Leadership/Content.aspx?ItemNumber=6486&nav1>) and to outline his plans for the year. There were other business matters handled by Council including updates to the By-laws and Policies, a review of events planned during the year and a presentation by SPE HQ staff on the various resources available to SPE membership. All SPE members especially leadership boards of directors have been encouraged to make better use of the Chain and other SPE website resources for S/D operations including communication and membership.

Please see full reports from each presenter on the Chain under Leadership Lane. I would also be willing to speak to anyone that has comment or questions.

With warm regards,
Harrison
Harrison Yu - PAD Councilor



ANTEC 2018

Polymer Analysis Division Call for Papers

Orlando FL, USA

May 7-10, 2018

We invite presentations and posters on following topics, but not limited to:

- Processing-structure-properties relationships**
- Characterization and analysis of polymers/blends/composites/
nano-materials/microfluidics/hydrogels/fibers/polymer addi-
tives**
- Analysis of biobased and biodegradable polymers/composites**
- Biocompatibility of plastics**
- Hyphenated characterization techniques**
- Advances in polymer analysis techniques**
- Emerging methods of polymer spectroscopy**
- Instrumental innovations**

Paper Submissions Deadline: January, 2018 (exact date TBD)

Authors must submit an Abstract (up to 100kb file) and a Paper (saved as .pdf) by the deadline online <https://www.eiseverywhere.com/ehome/184555>. Further information may be found in the Technical Program section of <http://ww.antec.ws>. Papers will be reviewed by the Technical Program Committee and authors notified of status or required revisions.

Please contact us with any questions you may have:

<p>Xue (Ida) Chen Technical program chair Chen2c7ab2@dow.com</p>	<p>Greg Kamykowski Technical Program Co-chair gkamykowski@tainstruments.com</p>
---	---

ANTEC 2017 Recap

This year's ANTEC was held in Anaheim CA May 8-10 at the Hilton Anaheim Hotel. The overall attendance was 1310. There were 89 sessions, and 35 Divisions and Special Interest Groups participated. There were 420 speakers, 45 posters, and about 70 exhibitors.

The Polymer Analysis Division had 10 presentations and 2 sessions. One was on Tuesday morning, the other was on Tuesday afternoon. Our opening keynote talk on Tuesday morning was given by Mr. Louis Waguespack of TA Instruments, who talked about Methods and Measurement of Accurate, Quantitative Heat Capacity of Polymeric Materials in a DSC. Greg Kamykowski began the afternoon session with a tutorial on rubber rheology. We presented Dr. James Sloan with the Best Paper Award for his presentation in 2016.

For the most part, the talks were well attended, especially the morning talks. We averaged about 40 people, and there were many good discussions following the presentations. The next ANTEC will be co-located with NPE in Orlando FL and will be held May 7-10, 2018.

Greg Kamykowski
Technical Program Co-Chair

Author	Title
Louis Waguespack	Methods and Measurement of Accurate, Quantitative Heat Capacity of Polymeric Materials in a DSC
Shahab Zekriardehani	Microstructural Analysis of Amorphous and Crystalline PET in Presence of Antiplasticizers
Shi Mei Nong	Confinement Effects on Molecular Orientation in Multilayer Films of Low Molecular Weight Polypropylene
James Sloan	EFFECT OF NANOCCLAY ADDITION ON THE COMPATIBILITY AND DIFFUSION PROPERTIES OF COMMERCIAL GASOLINE THROUGH POLYMER MEMBRANES
Duanjie Li	ADVANCED DYNAMIC MECHANICAL ANALYSIS OF A TIRE SAMPLE BY NANOINDENTATION
Praveenkumar Boopalachandran	A Combination of FTIR, MS and NMR Techniques to Characterize an Aqueous Wax Emulsion
Greg Kamykowski	Rubber Rheology Methodology
Chunbo Zhang	Long-term Property of Thermoplastic Polyolefin Pipe Material Characterized by Cracked Round Bar Test
Carrie Hartford	Steps to Overcome Flow Problems
Preston Zhou	Soft PEDOT:PSS aerogel architectures for thermoelectric applications

Polymer Insight

Free Webinars "DEA Analysis of Polymers – Basics & Application"
and "DSC Analysis of Polymers – Basics & Application"
Register Now: www.netzsch.com/n15060



Polymers have a lot to say – understand their thermal properties with solutions from NETZSCH.

NETZSCH

NETZSCH Instruments North America, LLC
129 Middlesex Turnpike
Burlington, MA 01803-3305, USA
Tel.: (+1) 781 272 5353
Fax: (+1) 781 272 5225
nib-sales@netzsch.com



Differential Scanning Calorimetry (DSC) to investigate glass transition and melting behavior



Dynamic Mechanical Analysis (DMA) to characterize stiffness and damping behavior



Dielectric Analysis (DEA) for cure monitoring of thermosets