PA.D. REVIEW

Polymer Analysis Division Society of Plastics Engineers

Vol. 45 No. 1 Feb 2018

IN THIS

Chair's Message Page 1

BOD Members Page 2

Treasurer's Report Page 2

ANTEC 2018 technical session

agenda Page 3

Council Meeting Update Page 5

Polymer Analysis 2017 ANTEC

Best Paper Award Page 8

SPE Contact Numbers Page 10

Chair's Message

Dear PAD Members

Happy New Year. I hope that 2017 was a good year for you, your family, and your company and that 2018 will be even better.

With the beginning of the year comes the serious planning for ANTEC. Dr. Ida Chen and I are setting up the PAD sessions that we will have at ANTEC 2018 in Orlando May 7-10. We have an impressive 15 submissions for presentations for the Polymer Analysis Division. Normally we would spread these out over 3 sessions. However, this year, with time and space restrictions, we will probably have to compress this into 2 sessions. We may add some extra time slots for the morning and afternoon sessions. We will let you know about our ANTEC schedule as soon as we finalize it with SPE.

At ANTEC, we will have our annual Board meeting. If you would like to get more involved with the Polymer Analysis Division, we are always looking for more active members. We recognize that you have your work and family commitments and that this is completely voluntary participation, so we do not impose excessive responsibilities on anyone. We do welcome new and returning people to the Board.

I hope that 2018 starts out well for you and that you can attend ANTEC. This is, by far, the best technical conference for anyone in the plastics in-

(Continued on page 4)

2018 Board of Directors							
Gregory Kamykowski	Interim Chair / TPC	TA Instruments	gkamykowski@tainstruments.com				
Vassilios Galiatsatos	Treasurer	LyondellBasell Industries	s vgaliatsatos@msn.com				
Harrison Yu	Councilor	Bondable Biopolymers, LLC	harrisonyu@comcast.net				
Sanjiv Bhatt	Past Chair	Enetgris	sanjiv_bhatt@entegris.com				
Kevin Menard	Communication Chair	Mettler -Toledo	kevin.menard@mt.com				
Changdeng Liu	Newspaper Co- Editor / secretary	Ethicon Inc.	cliu26@its.jnj.com				
lda Chen	TPC	Dow	chen2c7ab2@dow.com				

Treasurer's Report — V. Galiatsatos, PAD Treasurer

Treasurer's Report — V. Galiatsatos, PAD Treasurer

Below is the activity of our account for the period July 31, 2017 to November 30, 2017.

Beginning balance as of July 31, 2017 was \$27,388.22. We received one (1) rebate from SPE-HQ for \$985.44. We recorded \$1.38 in interest.

The following expenses were recorded during the period from July 31, 2017 to November 30, 2017: Councilor Council Reimbursement \$930.94, periodic bank fee \$0.60.

Ending balance as of November 30, 2017 was \$27,443.50.

Submitted on December 12, 2017

ANTEC 2018 technical session agenda

Submitted by Gregory Kamykowski

This is Greg Kamykowski again, with an update on ANTEC 2018. As I mentioned in the Chair Message in this newsletter, we have 15 presentations that we hope to have at ANTEC. Normally this would be no problem, but there are major space and time constraints this year that limit us and other Divisions to a degree that we have not had to deal with previously. With extended sessions, we should be able to get all the submitted papers in. Dr. Ida Chen and I are working together to make this another strong ANTEC program for the Polymer Analysis Division.

As of January 23, here are the submitted presentations that we have:

We hope to see you at ANTEC in May.

Title to Be Determined	Seema Karande
Determination of Flame Retardant Materials in Plastics Using A Combination of Analytical Techniques (ID 016)	Yanika Schneider
Pellet Shape Classification Using Deep Neural Networks (ID 423)	Brenda Colegrove
Polyetheretherketone (PEEK) Exposure to ZnBr2 Completion Fluids at High Temperatures and Pressures: Identification and Quantification of Small Molecular Decomposition Products (ID 583)	Joseph Baker
Core/Shell Structure of Electrospun Polycarbonate Nanofibers (ID 619)	Yiyang Xu
Effects of Biodegradable Additives on the Nucleation Intensity and Growth Rate of Isotactic Polypropylene Spherulites (Id 052)	Yousef Mubarak
Title to Be Determined	Daniel Hallinan
Thermal Investigation Between Pressure Conditioning and Thermal Annealing in Aging Studies of Glassy Thermosets (ID 104)	Brendan Ondra
Ole of Functionalization of Nanoclay Particles on Diffusion Properties of Commercial Gasoline Through Polymer Membranes (Id 435)	James Sloan
Analytical Characterization of Commercial Products: Cool Comfort Technologies for Bedding Products (ID 291)	Praveenkumar Boopalachandran
Rheological Methods for Characterizing the Degree of Long Chain Branching in Polyethylene (ID 301)	Terri Chen (Greg Kamykowski)
Crystallization Behavior of Sheared Polyamide 66 (ID 664)	Anne Gohn
Observed Particle Migration During Processing of Polypropylene with Glass Beads (ID 243)	Jose Luis Colon Quintana
Effect of HNTs dispersion in PVDF on Morphology and its formation mechanism of tensile fractured surfaces (ID 402)	Han-xiong Huang
Dynamic Mechanical Analysis	Greg Kamykowski

(Continued from page 1)

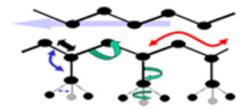
dustry. Always feel free to contact me or other members of the Board if you have thoughts and suggestions regarding how PAD can make your SPE membership more valuable.

Greg Kamykowski

Interim Chair

gkamykowski@tainstruments.com





Polymer and Materials Testing and Consulting Thermal and Infrared Analysis including DSC, TGA, TMA, DMA, etc.

> Suite 376-253 2436 S Interstate 35 East Denton Texas 76205-4992

www.veritaslab.net info@veritaslab.net 940-367-1128

DSC CONSUMABLES in corporated

High quality lab ready dsc sample pans

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

www.dscconsumables.com

Council Meeting in Detroit August 2017 Prepared by Harrison Yu - PAD Councilor 75th Celebrations

SPE face-to-face Council meeting held in Detroit, which coincided with our 75th anniversary celebration. The future belongs to the young. Society of Plastics Engineers (SPE) and Plastics News had a co-event to celebrate this by hosting a new gala event, "The Future Is Plastics." at the historic Gem Theatre in Detroit on Thursday, Aug. 24, "The Future Is Plastics" recognized innovation in manufacturing as well as the accomplishments of rising young professionals. The event ran from 4:30 p.m. to 9 p.m. to toast SPE's 75th anniversary and a chance to meet many veteran and young leaders in the plastics industry. The welcome reception began at 4:30 p.m. and a cocktail reception concluded the evening.

SPE Council Meeting

SPE Council Meeting held in Detroit, Michigan on August 25 -26, 2017. The official meeting minutes are posted to The Chain and contain complete details of attendees, policy and by-law changes, and procedural votes. Questions or comments? Contact Conor Carlin, VP Marketing & Communications at ccariin@4spe.org or communicate via Leadership Lane on The Chain.

1. SPE Financial Update

- a. CEO Pat Farrey provided details on SPE's current financial position and offered his perspective from the world of association management. SPE members and leaders should not underappreciate our successes: Farrey pointed out that many associations would love to have our ANTEC numbers of 1400 attendees and \$200k in revenue.
- b. SPE has a strong cash position, the strongest for many years. Operational expenses are tracking on-budget. Corporate sales and membership dues are down leading to revenues that will be below budget by \$377k excluding the 1-time payment from Wiley for the journal publishing contract. Expenses are greater than revenues by \$123k. Investment income of \$220k helps to offset revenue losses though it cannot be relied upon for guaranteed future income.
- c. Preliminary results show that ANTEC was profitable again in 2017. Costs were higher than budget and proportionally higher than historical numbers but in-line with expectations.
- d. Membership dues have fallen to \$70k/m for the past two months, though overall membership totals are up, primarily driven by e-members.
- e. It will be difficult to achieve corporate sales goals in 2017. Corporate sales are up 30 over 2016.

2. CEO Report

CEO Farrey offered that his observations at 60 days revealed no major surprises. His single strategic objective is to improve profitability. Short term priorities in-

clude the following:

- a. In-depth review of IT infrastructure and systems (ref. section 4.4 of 3YOP)
- More staff support for membership/affiliate group services through the hire of a new Member Services Manager
- c. Need to replace Business Development position. Need better focus on increasing non-dues revenue including advertising, corporate sponsorships and exhibit sales. (This position was filled as of September 2017).
- d. Farrey also covered some additional topics:
- e. Operational changes: re-integration of Managing Director role into CEO role
- f. Expense control: CEO review of all items including travel and capex
- g. Longer term priorities: NGAB, young professionals, marcomms, awards

3. Recognition & Awards

- a. The structure of the Pinnacle Awards and related criteria has been reviewed by a sub-committee of the executive board. Vice-President of Education & Technology Brian Landes, presented his group's findings to Council. Complete details of the changes are available for members to access via The Chain where all presentations are posted. After discussion, Council decided to postpone implementation of the changes until after ANTEC 2018.
- b. The Awards Committee called for reflection on nominees for the prestigious International Award. Other awards include the Research Award (contributions to polymer science), the Engineering Technology Award, the Business Award and the Education Award. All forms can be found online at www.4spe.org and the deadline is September 2018.
- c. President Al-Zubi recognized SPE Managing Director Russell Broome's service to SPE and presented him with a plaque (plastic, not metal). Broome thanked everyone and encourage all members to focus on the needs of industry for SPE to remain vibrant and relevant.
- d. Russell Broome left the Society of Plastics Engineers after three years as managing director. The Bethel-based SPE hired Broome in 2014 to head the U.S. office, when SPE's top official, the CEO, was a Belgian Willem De Vos, who brought an international perspective and had 20-plus years career in the plastics industry. De Vos announced in December 2016 that he was stepping down to return to the private sector. In May 2017, SPE said it had hired Patrick Farrey to be its new CEO. Farrey has experience in managing trade associations. The move brought the CEO post back to the United States. Broome is from North Carolina, where he lives in Fayetteville. Broome had worked in sales and marketing, along with global business development, for materials companies LNP Engineering Plastics, GE Plastics and PolyOne Corp. Before taking the SPE job, he was an engineer at TE Connectivity.
- e. President-Elect Brian Grady announced a new opening on the Nominating

Committee. Councilor Scott Steele encourage everyone to find new candidates in order to have competitive elections.

4. ANTEC

- a. The subject of commercial papers at ANTEC has been discussed for several years. Changes will now allow for technical marketing presentations. Templates have been created by Mark Spalding of Dow Chemical. Guidelines have been published and are available to membership. The goal is to allow more commercial information. While no official paper is required, a Power-Point presentation will be reviewed by the ANTEC Program Committee. The presentations will subsequently be published alongside papers in the proceedings. Company logos are permitted but cannot consume more than 5 of the space on a slide.
- Assigning of copyright to SPE for ANTEC papers will no longer be required.
 Instead the author will be required to grant SPE permission to publish, without surrendering copyright.
- c. The ANTEC Task Force continues its important work on what changes are required to keep our flagship conference relevant and dynamic. VP Jaime Gomez cautioned that councilors should not extrapolate too much from early findings. Another update will be provided by December 2017.

5. Sections & Divisions News

- a. The VP of Divisions, Creig Bowland, resigned his position due to work and family commitments. Since then, Jason Lyons of Arkema, has been appointed.
- b. The Sections Committee has recently published a letter outlining their strategic projects to improve communication and member benefits. Members are encouraged to use The Chain for the latest news and information about affiliate groups and general SPE business.

6. NGAB & PlastiVan

- a. Eve Vitale, Director of SPE Foundation, presented an overview of both the Foundation Board and PlastiVan (PV) programs. Currently, there are 4 educators and a program coordinator who are part of the PV team. Vitale reviewed scholarship programs and encouraged everyone to consider more ways to support plastics education via the PV program. All councilors had the opportunity make slime as Vitale led a demonstration of actual PV classroom education.
- b. The Next Generation Advisory Board continues to grow. The current NGAB membership stands at 67. VP Gomez pointed out that 89 of student members do not renew their membership when they graduate and NGAB can act as a bridge to transition members from student status to young professional status. The Executive Board continues to commit essential resources for NGAB success. Councilor Jon Ratzlaff challenged councilors to bring this NGAB news to their respective boards and encouraged them to engage NGAB.

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

Polymer Analysis 2017 ANTEC Best Paper Award

We were pleased with the technical quality we had at ANTEC 2017. After review of the papers and attending the presentations of the papers, we decided that the Best Paper Award should go to

Dr. Chunbo Zhang

for his presentation titled, Long-term Properties of Thermoplastic Polyolefin Pipe Material Characterized by the Cracked Round Bar Test.

We hope to have excellent quality in the PAD sessions in 2018 as well. Please submit a presentation for ANTEC 2018, and encourage your colleagues to do the same.

Polymer Insight



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

Who Can Help You?

SPE US Office

6 Berkshire Blvd, Suite 306 Bethel, CT 06801 United States P +1 203.775.0471 F +1 203.775.8490

SPE Europe and Middle East office

Zonnestraat 52 9600 Ronse Belgium P +32 498 85 07 32

SPE China Office

Gateway Plaza
No.18 Xiaguangli
North Road, East Third
Ring
Chaoyang District
Beijing, 100027 China

Academic Outreach	Eve Vitale	810.814.6412	evitale@4spe.org
Advertising, Sponsor- ships, Partnerships Sue Wojnicki		203.740.5420	swojnicki@4spe.org
Annual Awards	Kathy Schacht	203.740.5430	kschacht@4spe.org
ANTEC Conference Management	Scott Marko	203.740.5442	smarko@4spe.org
ANTEC 2017 Technical Program Chair	Edwin Tam	401.642.3753	
Corporate Sponsorship	Russell Broome	203.740.5471	rbroome@4spe.org
Event Services, Tech- nical Program	Scott Marko	203.740.5442	smarko@4spe.org
Marketing & Communications	Sue Wojnicki	203.740.5420	swojnicki@4spe.org
Membership Service	Bonnie Kaczowski	203.740.5428	bakaczowski@4spe.org
Europe, Middle East & Asia,	Carine Roos	+32 498 85 07 32	croos@4spe.org
China Maria Wang		+86 10- 59231096	mwang@kellencompany.c om

Newsletter Edited and Managed by: Changdeng Liu

[&]quot;The PAD Review" is published on-line by the non-profit Polymer Analysis Division of the Society of Plastics Engineers. For corporate sponsorship rates and advertising rates, please contact the editors.