

TPM&F

THERMOPLASTIC MATERIALS AND FOAMS DIVISION



Communications
Excellence Award



Pinnacle Award

TPM&F SCOPE

The Thermoplastic Materials and Foams Division is organized to provide a focal point for the interchange of information relating to non-vinyl thermoplastic resins including fluoropolymers, polyamides, polyesters, polyolefins, polystyrenes, polyurethanes, their filled and/or reinforced products, and their foamable and foamed products. Its interests lie in stimulating the development of scientific and engineering knowledge. By encouraging participation between producers and consumers, it aims to provide information on new developments which shall encompass synthesis, characterization, fabrication, safe handling, application, serviceability, and marketing.



The Society of Plastics Engineers
6 Berkshire Blvd, Suite 306
Bethel, CT 06801
United States

CHAIRMAN'S MESSAGE

APRIL 2017



In my final Chairman remarks, I would like to thank Donna Davis and Anna Azevado for their International Polyolefin Conference efforts (which was a resounding success) and the entire TPM&F Board for their obtainment of the Gold Pinnacle and Outstanding Communication Awards.

Chad Zeng has developed a solid TPM&F technical program for the upcoming ANTEC® in Anaheim. Host Professor Volker Altstädt, Stephane Cousteax and Professor Chul Park hope to see continued success at the 2017 FOAMS® Conference that will take place in Bayreuth Germany in October. We hope to see you there.

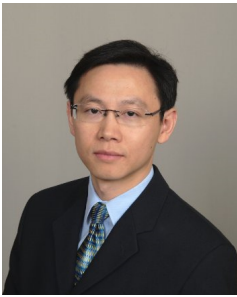
In addition to these conference activities, the TPM&F Division remains committed to improving our membership value and to improving our Education outreach. Kimberly McLoughlin has taken over the role as the Education Chair. She has some new ideas how to expand upon our present activities, and I wish her and the Education Committee success with these ongoing efforts. On the membership side, we have found that the best way of getting new members is to put on good conferences and draw them in that way. Anson Guan continues to develop new ways to draw in members, and he has been very resourceful in pointing out continued system errors, even with the new database, with SPE headquarters.

One of our own board members has achieved SPE's Fellow status. Please join me in congratulating Dr. Miguel Rodriguez-Perez for this achievement and his outstanding research accomplishments.

At this point it is time for me to step down, and welcome Xiaoxi Wang as the incoming TPM&F Chair. I wish him and the TPM&F Board continued success, and I hope to assist in future membership and education activities.

Dr. Dale A. Grove
Outgoing TPM&F Division Chair
Part Time Science-Fiction Writer (www.newdrofscifi.com)

INCOMING CHAIRMAN'S MESSAGE



Dear fellow SPE TPM&F Division Members, I am honored to be the incoming SPE TPM&F Chair for the next two years. First of all, I would like to have a round of applause for our current chairman Dale Grove. Under his leadership, our Division remains one of the strongest in SPE in terms of SPE HQ recognitions, financial status, and values to the members. In my term I will strive to achieve the following goals.

We will maintain and strengthen our premium flagship programs such as ANTEC® TPM&F Sessions, FOAMS® Conference, and Polyolefin Conference. Over the years those programs have become the core value of our Division and the best ways to attract new members. We will retain them with high quality and self-sustaining conferences.

Spearheaded by the Education Chair Kimberly McLoughlin and Membership Chair Anson Wong, we will continue to improve our membership value and to improve our Education outreach.

We will streamline the operations for SPE TPM&F, enhancing the efficiency and allowing more volunteers to participate more actively. We will establish an appropriate talent pipeline for staff officers. It is critical for TPM&F to have fresh blood to rejuvenate the Division and keep the communication current via social media trends.

Finally, I cordially invite you to participate in our TPM&F business meeting in Palos Verdes (A Room) on Monday May 8 at 11am, following the morning ANTEC® TPM&F Session. No matter if you are a student, an early career professional, or a well accomplished expert, it will be a great opportunity to network with fellow members, get to know the TPM&F plan for the following year, and have your voice heard.

Dr. Xiaoxi Wang
Boeing Company
Incoming TPM&F Division Chair

MEMBER NEWS

Sal Monte has been elected to the Board of Governors of the Plastics Pioneers Association <http://plasticspioneers.org/> and will serve as their incoming PPA Newsletter Editor.

The objectives of the PPA are:

- ◆ To recognize achievements in the fields of plastics and/or polymer science, engineering, technology, education, sales/marketing, or management
- ◆ To support industry-wide educational programs
- ◆ To promote the study and improvement of plastics and/or polymer science, engineering, and technology in the Plastics Industry

ANTEC® ARRANGEMENT

Plenary on the exhibit floor: Monday and Tuesday
from 5:15-5:45PM

ANTEC® Welcome Reception/NGAB Celebration
Night: Monday 6pm – 9PM

Student luncheon in Pacific B Room, Hilton Anaheim: Wednesday

TPM&F Board Meeting (By invitation only)
Time: 5-7 PM, Sunday May 7, 2017
Location: Palos Verdes A Room, Hilton Anaheim

TPM&F Business Meeting (All are welcome)
Time: 11-11:30 AM, Monday May 8, 2017
Location: Palos Verdes A Room, Hilton Anaheim

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980.819.6930

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Stéphane Costeux (2019)

The Dow Chemical Company
989-636-6424 phone
sccosteux@dow.com
CONFERENCE ORG. CHAIR

Donna Davis (2019) HSM

ExxonMobil Chemical Co.
281-834-2036 phone 281-834-2040 fax
donna.s.davis@exxonmobil.com
HSM/FELLOWS, ANTEC® 2016 OVERALL CHAIR

Dale Grove (2018) HSM

US Silica
240-313-8860 phone
grove.dale@hotmail.com
CHAIRMAN

Aaron Guan (2018)

BOCO Technology Inc.
647-882-9890 phone
aaron.guan@bocotechnology.com
NEWSLETTER CHAIR

Theresa Healy (2018)

Reedy Chemical Foam
732-264-1777 phone 732-264-1189 fax
thealy@reedyintl.com
SECRETARY/COMMUNICATION CHAIR

Vipin Kumar (2019) FE

University of Washington
206-543-5535 phone 206-685-8047 fax
vkumar@u.washington.edu
OUTSTANDING ACHIEVEMENT AWARD CHAIR

Kim McLoughlin (2019)

Braskem
412-208-8148 phone
kimberly.mcloughlin@braskem.com
EDUCATION CHAIR

Salvatore J. Monte HSM, HLM, FE

Kenrich Petrochemicals
201-823-9000 phone 201-823-0691 fax
sjmonte@4kenrich.com
CONFERENCE COMMITTEE MEMBER,
HONORARY LIFETIME MEMBER

Hani Naguib (2017) FE

University of Toronto
416-978-7054 phone/fax
naguib@mie.utoronto.ca
IMMEDIATE PAST-CHAIR

Masahiro Ohshima (2017) FE

Kyoto University, Dept. of Chem Eng.
81 75 383 2666 phone
masahiro.ohshima@gmail.com

Chul B. Park (2017) FE

University of Toronto
416-978-3053 phone 416-978-0947 fax
park@mie.utoronto.ca
TUTORIAL CHAIR-FOAMS®

N.S. Ramesh (2018) HSM, FE

Sealed Air Corporation
972-522-4041 phone 972-647-1040 fax
n.s.ramesh@sealedair.com
CONFERENCE COMMITTEE MEMBER

Miguel Rodriguez-Perez (2018) FE

University of Valladolid
34 983184035 phone 34 983423192 fax
marrod@fmc.uva.es
CONFERENCE TUTORIAL COMMITTEE MBR.

Ashutosh Sharma (2017) FE

Klockner Pentaplast of America Inc.
(845) 489-6313 phone (503) 915-7620 mobile
ahsharma@gmail.com

Henry Schirmer FE, HLM

BBS Corporation
864-579-3058 phone 864-579-2126 fax
hschirmer@att.net
HONORARY LIFETIME MEMBER

Raymond J. Shute (2017) HSM

Novation iQ
630-777-1203 phone
rshute@novationiq.com
NOMINATING CHAIR

Perry Vadhar (2019) HSM

Sealed Air Corporation
864-433-2086 phone 864-433-2560 fax
perry.vadhar@sealedair.com
COUNCILOR

Xiaoxi Wang (2017)

Boeing Company
425-404-1253 phone
wang0213@gmail.com
CHAIR ELECT, FOAMS®2016 CHAIR

Maxwell Wingert (2019)

Procter & Gamble
513-634-2832 phone
mw4SPE@yahoo.com
TREASURER

Gary Wilkes (2018)

Dart Container Corp.
517-244 2196 phone, 517-525-0755 mobile
gary.wilkes@dart.biz
BEST PAPER AWARD CHAIR

Anson Guan (2018)

The Dow Chemical Company
989-636-3060 phone
aw4spe@gmail.com
MEMBERSHIP CHAIR

Shu Kai Yeh (2019)

National Taipei University of Technology
02)2771-2171x2524 phone, (02)2731-7117 fax
skye@mail.ntut.edu.tw

Changchun (Chad) Zeng (2017)

Florida State University
850-410-6273 phone
850-410-6342 fax
zeng@eng.fsu.edu
TPC 2016

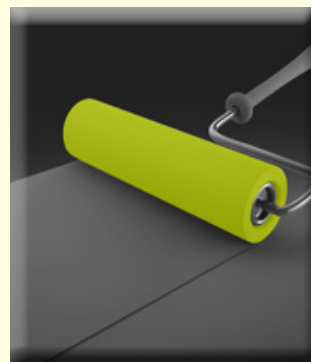
COMMITTEE MEMBER:

Ana Paula de Azeredo

Polymer Science Group, Braskem S.A.(Brazil)
+55 51 3721-8111
ana.azeredo@braskem.com

HSM: Honored Service Member FE: Fellow of the Society HLM: Honorary Lifetime Member

NEWSLETTER PUBLICATION SPONSORSHIP INFORMATION



Sponsorship size allocations (1 year, 3 issues):

BC size: \$375
3.500" wide x 2" high

1/4 page size: \$675
3.875" wide x 5" high

1/2 page size: \$1,125
7.750" wide x 5" high

**If you are interested in sponsoring
our newsletter, please contact:**

Aaron Guan
aaron.guan@bocotechnology.com

NEWSLETTER PUBLICATION PLAN FOR REMAINING OF 2016-2017

**April 2017 (PO2016, BOD meeting,
ANTEC® preview, FOAMS®2016 recap, etc.)**

**June 2017 (ANTEC®2016, BOD meeting,
FOAMS®2017 promotion, etc.)**

**October 2017 Best Paper Awards, BOD
meeting, Scholarship Award Recipient**

COUNCILOR'S REPORT FEBRUARY 27, 2017 BOD MEETING



The last Councilors meeting was held on December 7, 2017. I have shared some of the updates from the meeting from the Chair.

The minutes of the last Councilors meeting held during ANTEC® 2016 were approved. An amendment was made to include names of all the attendees in the minutes.

Leadership Update

CEO Wim DeVos will not renew his contract when his term expires in 2017, but he will remain in this position until a new CEO is hired. SPE has already started the search for his replacement starting January 2017 with the goal of having a new leader on-board by mid-year.

New Membership Software

Russell Broome reviewed capabilities of the membership dashboard. These included a variety of society-wide analytics and chapter-specific data. The update is shared every month with a Membership Chair of each Division/Section. There are many good features of the dashboard that will be helpful to track membership. Some Chair issues that Dale and Anson have brought to attention of SPE leadership remain. The details are already covered in Anson Wang's report.

Financial Update– 2016

SPE is under budget in membership dues and advertising; however, advertising sales and the pipeline are increasing. Events are slightly below revenue due to lower ANTEC® registration. Other revenue categories are on the budget. Most expenses are well under control and below budget. Operational results are in-line with expectations.

A loan was taken from the investment account to improve the cash flow. It is expected that payments will be made toward this loan in 2017.

2017 Budget

New services will bring in additional revenue (*Plastics Insights Newsletter, Corporate Surveys, Dedicated email blasts, Corporate Webinars, Innovation Platform*). A detailed presentation of the projected revenues and expenses is posted on The Chain. The budget also takes into account that continual investment in technology is and will be necessary. Affiliate Pass-Through Expectations: CEO De Vos reviewed the new pass through rebate system that was approved for 2017 onwards.

Perry Vadhar
TPM&F Councilor

COMMUNICATION REPORT – THERESA HEALY



TPM&F WEB-SITE AND THE CHAIN

The minutes from the last meeting are posted to The Chain. There are 37 discussions and 26 library inputs. The website is current and ANTEC® 2017 will be promoted along with the next FOAMS® 2017 Conference

LINKED-IN TPM&F SITE

The TPM&F Linked-In site is updated and checked weekly for new members. The conferences are being announced through posts for this group. Current members are 628 and growing.

OTHER ACTIVITIES

Theresa is working on a "Communication Judging Committee" that is reviewing the Communication Excellence Award applications. There are 12 applications in total to be reviewed (other parties will review the TPM&F entry).



THERMOPLASTIC
MATERIALS & FOAMS

SOCIETY OF PLASTICS ENGINEERS
Call for Nomination for the 2017
Outstanding Achievement Award
of SPE Thermoplastics and Foams Division

On behalf of the Outstanding Achievement Award Committee, I cordially invite you to nominate or support an Outstanding Achievement Award candidate. The nomination form is on the next page.

NOMINATION REQUIREMENTS:

To avoid any conflict of interest, the recipient of a previous TPM&F Division Outstanding Achievement Award cannot nominate or support anyone who was on the nominating team when they won the award.

At least two members of the nomination team must be a registered member of the SPE.

Either the Nominator or one of the two Supporters must be a Fellow of the SPE who can comment explicitly on the originality of the work and explain why the exceptionally high level of the contributions qualifies the nominee for the Outstanding Achievement Award. The Fellow must provide an appraisal and a written assessment of the candidate's qualification for the Outstanding Achievement Award, including the life-long major achievements of the nominee.

Only email submission will be accepted. The completed nomination form and the SPE Fellow's written appraisal of the candidate's qualification should be sent to park@mie.utoronto.ca. If your email message was not confirmed received within ten days, please call me at +1-416-978-3053. **The nomination package for 2017 will be accepted until May 31st, 2017.** The recipient will be invited either to the SPE ANTEC® or the FOAMS® Conference and will be an invited speaker of the conference.

Sincerely yours,

Chul B. Park
Chair of the Outstanding Achievement Award Committee

- Nominee: The person who might receive the SPE TPM&F Division's Outstanding Achievement Award. The nominee does not have to be a current member of the SPE at the time of nomination, but he or she must be a SPE member when the Award is received.
- Nominator: The person submitting the nomination form.
- Supporters: Two supporters must be listed on the nomination form who know the nominee and can vouch for the nominee's achievements. If the nominator needs help identifying an SPE Fellow to serve as a supporter, any SPE TPM&F Division Board Member will assist you.

SOCIETY OF PLASTICS ENGINEERS
NOMINATION FORM FOR SPE THERMOPLASTICS AND FOAMS DIVISION
OUTSTANDING ACHIEVEMENT AWARD

Please complete and email to: Prof. Chul Park, 5 King's College Road
Dept. of Mechanical and Industrial Engineering
University of Toronto, Toronto, Ontario, M5S 3G8 CANADA
park@mie.utoronto.ca Tel 416.978.3053

(PLEASE TYPE OR PRINT CLEARLY)

We nominate the following individual for the 2017 Outstanding Achievement Award
of the SPE Thermoplastics Materials and Foams Division:

GENERAL INFORMATION

1. NAME:
2. COMPANY OR INSTITUTION:
3. TITLE:
4. BUSINESS ADDRESS:
COUNTRY:

BIOGRAPHICAL SKETCH

5. DATE AND PLACE OF BIRTH:
6. EDUCATION (INCLUDE DEGREES, YEAR GRANTED, UNIVERSITY AND LOCATION):
7. PRIOR CORPORATE OR ACADEMIC AFFILIATIONS (INCLUDE COMPANY AND/OR INSTITUTION,
TITLE AND APPROXIMATE DATES OF AFFILIATION):
8. PROFESSIONAL SOCIETY AFFILIATIONS:
9. PROFESSIONAL HONORS AND AWARDS:
10. PUBLICATIONS AND PATENTS (PLEASE ATTACH LIST):

continued on page 7

PROFESSIONAL ACHIEVEMENTS IN PLASTICS

11. SUMMARIZE THE SPECIFIC ACHIEVEMENTS IN PLASTICS SCIENCES AND ENGINEERING UPON WHICH THIS NOMINATION IS BASED:

12. EVALUATION OF THE EFFECT OF THIS INDIVIDUAL'S ACHIEVEMENTS ON THE TECHNOLOGY AND PROGRESS OF THE PLASTICS INDUSTRY (TO SUPPORT NOMINATION, PLEASE ATTACH SUBSTANTIAL DOCUMENTATION OF THESE ACHIEVEMENTS):

13. OTHER SIGNIFICANT ACCOMPLISHMENTS OF THE NOMINEE IN FIELD OF PLASTICS OR RELATED SCIENCES:

We are pleased to submit additional information on the nominee upon the request of the SPE Canvassing Committee. We confirm that at least one out of three members of the nominating team (*consisting of the nominator and the two supporters*) is a Fellow of the SPE who has written a detailed appraisal to comment explicitly on the originality of the work and explain why the exceptionally high level of the contributions qualifies the nominee for the Outstanding Achievement Award.

Name of the Nominator: _____

Mailing Address: _____

Country: _____

SPE Fellow? Yes / No

SPE Membership Number: _____

Telephone Number: _____

Email Address: _____

Name of the 1st Supporter: _____

Mailing Address: _____

Country: _____

SPE Fellow? Yes / No

SPE Membership Number: _____

Telephone Number: _____

Email Address: _____

Name of the 2nd Supporter: _____

Mailing Address: _____

Country: _____

SPE Fellow? Yes / No

SPE Membership Number: _____

Telephone Number: _____

Email Address: _____

MAY 8 Monday AM

FOAM EXTRUSION AND INJECTION MOLDING

Moderator: Anson Wong

TITLE

AUTHOR CONTACT

CELL NUCLEATION IN HIGH-PRESSURE FOAM INJECTION MOLDING

Raymond Chu, University of Toronto
rkmchu@mie.utoronto.ca

FOAM INJECTION-MOLDING PROCESS DESIGNED TO PRODUCE SUB-MICRON CELLS

S. Costeux, The Dow Chemical Company
SCCosteux@dow.com

MICRO-GRAPHITE ENHANCED EXTRUSION FOAMING OF PET RESIN

LJ Lee, The Ohio State University
lee.31@osu.edu

SIMULATION OF CELL GROWTH IN HIGH-PRESSURE FOAM INJECTION MOLDING

Chongda Wang, University of Toronto
cwang@mie.utoronto.ca

INFLUENCES OF MOLECULAR STRUCTURE ON THE RHEOLOGICAL PROPERTIES AND FOAMABILITY OF MODIFIED POLYPROPYLENE

C. Zeng, Florida State University
zeng@fsu.edu

DEVELOPMENT OF HIGH THERMAL INSULATION POLYPROPYLENE FOAMS BLOWN IN INJECTION MOLDING WITH MOLD OPENING

C. Park, University of Toronto,
park@mie.utoronto.ca

MAY 8 Monday PM

FOAM APPLICATIONS

Moderator: Chul Park

TITLE

AUTHOR CONTACT

CELLULAR POLYMERS FOR OIL/WATER MIXTURES SEPARATION – EVALUATION OF PROCESS CONDITIONS

Pavani Cherukupally, University of Toronto
pavanic@mie.utoronto.ca

DIELECTRIC PERMITTIVITY OF THERMOPLASTIC POLYURETHANE/PZT COMPOSITE FOAMS

A. Ameli, Washington State University

A NEW GAS DIFFUSIVITY MEASUREMENT TECHNIQUE FOR CO₂ INFUSED POLYMER SYSTEM DURING GAS DESORPTION

P. Lee, University of Vermont

PERMEABILITY OF NANOPOROUS PEI

H. Guo and V. Kumar

MICRO ORGANIC POLLUTANTS REMOVAL USING A FOAM FILTER THROUGH RATIONALLY SELECTED HYDROPHILIC MEDIA

Pavani Cherukupally, University of Toronto,
pavanic@mie.utoronto.ca

more photos on page 9

MAY 9 Tuesday AM

FOAM EXTRUSION AND INJECTION MOLDING

Moderator: Xiaoxi Wang

| TITLE | AUTHOR CONTACT |
|--|---|
| LOW DENSITY OPEN CELL FLEXIBLE FOAMS WITH HIGH TORTUOSITIES AND MECHANICAL PROPERTIES HIGHLY DEPENDENT ON THE STRAIN RATE | Miguel Ángel Rodríguez-Pérez, University of Valladolid |
| CRYSTALLIZATION STUDIES OF POLY (Lactic Acid) DURING EXTRUSION FOAMING | Alireza Tabatabaei, University of Toronto alitn@mie.utoronto.ca |
| LOW DENSITY HMS POLYPROPYLENE FOAM: CONTROLLING FOAM DENSITY AND CELL MORPHOLOGY | S. M. Krupinski, Braskem NA |
| CELL NUCLEATION IN HIGH-PRESSURE FOAM INJECTION MOLDING OF SEMICRYSTALLINE POLYMERS | Vahid Shaayegan (<i>Speaker: Chongda Wang</i>), University of Toronto vahidsh@mie.utoronto.ca |
| IN-SITU VISUALIZATION AND CELL GROWTH MODELING IN A POLY-MERIC FOAMING PROCESSE | P. Lee, University of Vermont |
| NEW DEVELOPMENTS IN HIGH ENERGY ELECTRON BEAM INDUCED LONG CHAIN BRANCHED POLYOLEFINS FOR LOW DENSITY, NON-CROSSLINKED FOAMS | E-Beam Services Inc |
| CELLULAR STRUCTURES FROM ANISOTROPIC SEMI-CRYSTALLINE POLYMER TEMPLATES | A. Lesser, University of Massachusetts Amherst, M Erp, Eindhoven University of Technology Netherlands |

MAY 9 Tuesday PM

NEW FOAMING MATERIALS AND FOAMS

Moderator: Miguel Rodríguez-Pérez

| TITLE | AUTHOR CONTACT |
|---|---|
| FOAMING BEHAVIOR OF THE MULTILAYERED PS/PA6 BLEND AND ITS ANISOTROPIC MECHACICAL PROPERTIES | L.F Feng, Zhejiang University, fenglf@zju.edu.cn |
| ENVIRONMENTALLY BENIGN PROCESSING OF POLY(2,6-DIMETHYL-1,4-PHENYLENE OXIDE) (PPO) WITH SUPERHEATED LIQUIDS A NEW GAS DIFFUSIVITY MEASUREMENT TECHNIQUE FOR CO ₂ INFUSED POLYMER SYSTEM DURING GAS DESORPTION | A. Lesser, University of Massachusetts Amherst |
| EFFECT OF MULTI-WALLED CARBON NANOTUBES ON POLY(E-CAPROLACTONE) FOAMING BEHAVIOR | Southern China University of Technology ktrmonarch0914@gmail.com (T.Kuang), pmxfpeng@scut.edu.cn (X.Peng) |
| WIDE-RANGE OF MICROCELLULAR BEAD FOAMS FROM DIFFERENT PLA-BASED DROP/SEA BLEND MORPHOLOGIES | M. Nofar nofar@itu.edu.tr |
| MICROCELLULAR FOAMING BEHAVIOR OF BIODEGRADABLE POLY (3-HYDROXYBUTYRATE-CO-3-HYDROXYVALERATE)/POLYLACTIC ACID COMPOSITES | Southern China University of Technology ktrmonarch0914@gmail.com (T.Kuang), pmxfpeng@scut.edu.cn (X.Peng) |

FOAMS®2016 REPORT – DR. XIAOXI WANG, CHAIRMAN

The FOAMS® 2016 conference was held in Seattle. There were 115 conference attendees, 43 tutorial participants, 47 Boeing tour attendees, 10 new SPE members via registration, and 7 sponsors. The conference program included 23 oral presentations, 2 plenary talks, and 13 student posters. Speakers were from 12 countries/areas in five continents.

On September 14 Prof. Masahiro Ohshima from Kyoto University gave a plenary talk RECENT ADVANCES IN MICROCELLULAR INJECTION MOLDING TECHNOLOGY AT KYOTO. In the second day of the conference, Dr. Todd Steyer from Boeing delivered a plenary talk TRADITIONAL AND NON-TRADITIONAL FOAMS FOR AEROSPACE APPLICATIONS. Both wonderful talks were very well received by the audience. The following awards were selected and presented in FOAMS® 2016. Congratulations to winners!

TPM&F FOAMS® 2016 “Michael Reedy” Scholarship: Victoria Bernardo García from University of Valladolid and Syed Hassan Mahmood from University of Toronto.

TPM&F 2016 Ananda Chatterjee Student Travel Award: Alireza Tabatabaei-Naeini from University of Toronto and and Syed Hassan Mahmood from University of Toronto

FOAMS® 2016 Best Poster Award

First Place: POLYPROPYLENE CRYSTALLIZATION STUDIES IN EXTRUSION FOAMING: VISUALIZATION, QUANTIFICATION AND APPLICATION, by Alireza Tabatabaei-Naeini from University of Toronto

Second Place: NANOCELLULAR POLYMERS BASED ON PMMA/MAM BLENDS: EFFECT OF THE COPOLYMER CHEMISTRY ON THE NANOSTRUCTURATION AND THE CELLULAR STRUCTURE, by Victoria Bernardo García from University of Valladolid

FOAMS® 2016 Best Paper Award

FIBER-SPUN POLYPROPYLENE/POLYETHYLENE TEREPHTHALATE MICROFIBRILLAR COMPOSITES WITH ENHANCED TENSILE AND RHEOLOGICAL PROPERTIES AND FOAMING ABILITY, authored by Ali Rizvi and presented by Prof. Chul B. Park, University of Toronto



Tutorial



TPM&F Board Meeting



Plenary talk by Prof. Ohshima



Plenary talk by Dr. Steyer (left)



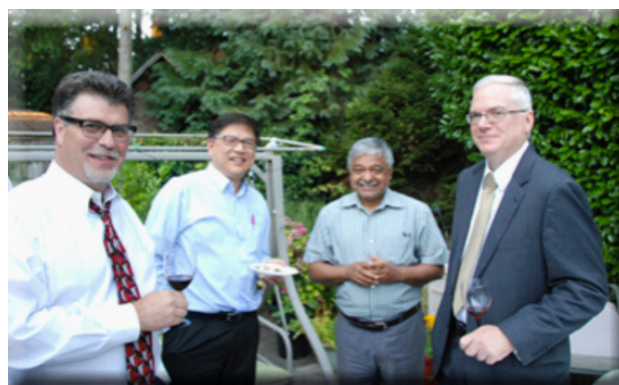
Exhibitor reception and poster session



Exhibitor reception



Exhibitor reception and poster session



Farewell party in Prof. Kumar's house

HIGHLIGHTS FOR TPM&F BOARD MEETING

Meeting Date: February 27, 2017, 8:00pm Central Time
International Polyolefins Conference, Houston, TX

ATTENDANCE

Attending the BOD meeting in person: *Donna Davis, Theresa Healy, Chul Park, Ana Azeredo, and Gary Wilkes*

Attendance via phone: *Dale Grove, Sal Monte, Shu-Kai Yeh, N.S. Ramesh, Xiaoxi Wang, Max Wingert, and Stephane Costeux.*

Excused Absence: *Kimberly McLoughlin, Aaron Guan, Hani Naguib, Vipin Kumar, Chad Zeng, Perry Vadhar, A. Wong, A. Sharma, M. Ohshima, M. Perez, and Ray Shute.*

COMPLIANCE W/ SPE POLICIES — DALE GROVE

Dale reminded everyone that all SPE meetings are held in compliance with SPE's anti-trust and conflict of interest policies

CHAIR REPORT — DALE GROVE

Dale reminded everyone to participate and post their work on The Chain. The Pinnacle and Communications Awards were completed on time, and we have since learned that the TPMF Division has received Gold and Outstanding Communication status. We need a next Chair-Elect. Xiaoxi will run the next meeting at the ANTEC® 2017, and new officer positions will officially take effect at ANTEC®. Meeting rooms need to be reserved through Scott Marko of SPE HQ. There will also be an annual business meeting at ANTEC® 2017. There was an approved motion made by Xiaoxi Wang to conduct the annual business meeting at the end of an ANTEC® morning session and was seconded by Donna Davis (motion passed). There was a second approved motion made by Gary Wilkes to join with the general reception being held at the ANTEC® 2017 and was seconded by Chul Park (motion passed).

MEMBERSHIP REPORT — ANSON WONG

Our active membership is 611 which has decreased from 649 in January 2017 due to a large amount of expired memberships in November 2016. The breakdown of membership is as follows: Professional Membership=517, Young Professionals=37, Student members=28, Emeritus members=27, and Distinguished member=1. The goal of the membership committee including Perry Vadhar is to assess and work with SPE, to improve its membership reporting system, to help design membership growth, and to develop a retention strategy. The committee is examining the membership lists for the past few months and gained 7 members back into the system. The issue with membership expi-

ration date vs. termination date needs to be fixed—the date when a member is dropped needs to be included in the system. There are still issues that need to be cleared up and corrected which Anson addressed in his report. The committee is also working on ways to retain expired members and create new ways to attract new members from different groups and geography locations.

INTERNATIONAL POLYOLEFINS CONFERENCE 2017— DONNA DAVIS, ANA PAULA DE AZEREDO, GARY WILKES

There are currently 692 registered attendees. This appears to be the largest number over the past few years. The International Polyolefins Conference contains quality content, and there is much interest in the topics. The E-Touch systems is being used and the Best Paper Award will be done through online voting. There two \$1000 scholarships was given out during the lunch. The names of the winners are Mr. Heedong Yoon of Texas Tech University and Mr. Benjamin Blandford of Texas Tech University.

ANTEC® 2017 REPORT — CHAD ZENG/DONNA DAVIS/GARY WILKES

There will be four sessions at the ANTEC 2017 covering 23 papers. Each session will have a moderator. Gary has received the papers and will choosing the top five.

ACTION: A check needs to be sent for last year's Best Paper winner. (Gary has provided more than enough information for the winner to get back with us, so at this point, if the winner does not call upon us that check will be voided.)

HIGHLIGHTS FOR TPM&F BOARD MEETING (CONTINUED FROM PAGE 12)

FOAMS® COMMITTEE REPORT /FOAMS® 2017 REPORT —STEPHANE COSTEUX

The next conference is progressing with firm dates in October 2017 in Bayreuth, Germany. Stephane is leading this conference along with Dr. Altstadt. There was discussion that Dr. Altstadt wanted to extract a fee for his services. There was a form sent to Kathy to host this conference. Chul mentioned that Dr. Altstadt is a professor and he needs to use his staff and he just wants to be sure they get paid. Dale mentioned that he needs to clearly state the amount needed and it needs to be done in writing. Dale suggested having a conference call followed by a written agreement with Max and other necessary parties with SPE on the call to get an approved budget. That conference call has taken place on 3/21. The Call for Papers will be going out soon. There will be an early announcement with registration and conference information. There will be an organized tour as well. There was discussion on dates and locations for FOAMS® 2018. Some suggested Florida, however the NPE and ANTEC® will be held in Florida in 2018. Further discussion will take place at ANTEC® 2017. Stephane is requesting that all BOD members bring their suggestions to the ANTEC® board meeting.

EDUCATION CHAIR UPDATES — KIM MCLOUGHLIN

The PlastiVan was sponsored by the TPM&F in Seattle in 2016 and was paid. This is budgeted for this year as well. TPM&F will sponsor student activities, and it was paid for this year. There was a lengthy discussion that TPM&F did not pay for the student activities in 2014. There needs to be some review of minutes and emails during this timeframe. There were 3/\$2500 checks in the last twelve months. Dale feels that if someone received that award in 2014 then we should pay for it because it is our scholarship. ACTION: Verify with Gene at the SPE who received the TPM&F Scholarship for 2014. We need to table the motion until we verify this information.

TPM&F also offers two scholarships \$500 each (*one of which Reedy funds*) for student traveling to FOAMS related conferences. There is also a TPM&F travel award in honor of Ananda Chatterjee. There will be TPM&F water bottles made and presented to students and professors.

TREASURER REPORT — MAXWELL WINGERT

For FY2016-2017, income was at \$21,200 and expenses were at \$34,265. Therefore, there is a deficit of \$13,065. First half of FY income is at \$5,374.61 and expenses were at \$13,708.52. There was no money spent in first half of FY on Best Papers Award and Outstanding Achievement Award. The investment fund rose 2.7% between June 30 and December 31. The Polyolefins Conference appears to be better attended this year so the TPM&F share should be slightly more than in previous years. An expected \$13500 dollars from that conference will be added to the books in the near future.

COMMUNICATIONS REPORT — SEE PAGE 4