

TPM&F

Thermoplastic Materials and Foams



A divisional newsletter of the Society of Plastics Engineers

March 2012



CHAIRMAN'S MESSAGE



Spring is almost here and we are ready for the Annual Technical Conference of the SPE. This year the ANTEC®2012 will be held in the Orange County Convention Center in Orlando, FL, USA, on April 2-4, co-located with NPE. Our Technical Program Chair, Ms. Donna Davis of Exxon Mobil Corporation, has worked hard to put together six sessions. I would like to take this opportunity to thank Donna for her contribution and great work.

The TPM&F division will hold its annual business meeting and reception at the convention Center on Tuesday, April 3rd from 5:00 to 7:00 p.m. I encourage you to join us and meet the board. If you are interested in joining the division leadership team, please feel free to contact a board member. The contact information of all the board members is listed on page 2 of this newsletter.

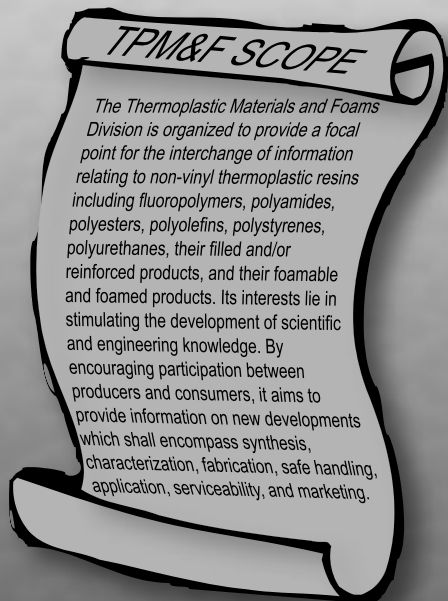
The board of directors meeting will be held on April 3rd from 7:00 to 10:00 p.m. in the Winter Park room of the Hilton Hotel. The hotel is conveniently located from the Convention Center.

The TPM&F Division coordinated two technical sessions at Polyolefins 2012 Conference held in Houston (Feb. 27-29, 2012). The sessions were organized by Ananda Chatterjee and Donna Davis. These sessions received recognition from Polyolefins Committee for their high quality. I would like to thank Andy and Donna for planning out excellent sessions. Congratulations to Ananda for receiving the Outstanding Service award from the Texas A&M University at PO2012. He has served as a liaison between SPE and the University for many years.

I am very happy to report that the TPM&F division will receive a Special Recognition level Communication Excellence Award on Sunday April 1st during ANTEC®2012 in Orlando, FL. This is great news for the division. I would like to thank Xiaoxi Wang (*Newsletter Chair*) and Theresa Healy (*Communication Chair*) for their contributions and achieving one of the goals of the division this year.

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World Headquarters:
Society of Plastics Engineers (SPE)
13 Church Hill Rd.
Newtown, CT 06470 USA
Phone: +1 203-775-0471
Fax: +1 203-775-8490
www.4SPE.org



Pinnacle Award
2011 Winner

BOARD OF DIRECTORS LISTING

Ananda (Andy) Chatterjee (2012)

IngeniaPolymers Group
713-296-1516 phone
achatterjee@ingeniapolymers.com
TPC-PO 2013

Donna Davis (2013)

ExxonMobil Chemical Co.
281-834-2036 phone 281-834-2040 fax
donna.s.davis@exxonmobil.com
HONORED SERVICE MEMBER/FELLOW,
NOMINATING AWARDS CHAIR, TPC-
ANTEC®2012

Dale Grove (2014)

Filtrona
804-518-1021 phone 804-503-4130 cell
dalegrove@filtrona.com
BEST PAPER CHAIR

Theresa Healy (2012)

Reedy International Corporation
732-264-1777 phone 732-264-1189 fax
thealy@reedyintl.com
COMMUNICATIONS CHAIR

Vipin Kumar (2013)

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

Salvatore J. Monte (2013)

Kenrich Petrochemicals
201-823-9000 phone 201-823-0691 fax
sjmonte@4kenrich.com

Hani Naguib (2014)

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

Masahiro Ohshima (2014)

Kyoto University, Dept. of Chem Eng.
Kyoto, Japan 6158510
81 75 383 2666
masahiro.ohshima@gmail.com
INTERNATIONAL ACTIVITIES CHAIR

Kelvin Okamoto (2013)

Cereplast, Inc.
Mobile: 847-271-9285
Skype: ktokamoto
Kto4SPE@mac.com
IMMEDIATE PAST CHAIRMAN

Chul B. Park (2014)

University of Toronto
416-978-3053 phone 416-978-0947 fax
park@mie.utoronto.ca
TUTORIAL CHAIR-FOAMS®2012

N.S. Ramesh (2012)

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

Miguel Rodriguez-Perez (2012)

University of Valladolid
34 983184035 phone 34 983423192 fax
marrod@fmc.uva.es
CHAIR-FOAMS®2012

Abdelhadi Sahnoune (2012)

ExxonMobil Chemical Company
281-834-2493 phone 281-834-2316 fax
abdelhadi.sahnoune@exxonmobil.com

Henry Schirmer (2012)

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

Ashutosh Sharma (2014)

Flint Hill Resources
316-828-8716 phone
845-489-6313 cell
ahsharma@gmail.com
COUNCILOR

Raymond J. Shute (2014)

CORTECH, LLC
866-553-6689 X6000 phone
rshute@cortechfoams.com
NOMINATING CHAIR

Lukas Stirnemann (2012)

Sulzer Chemtech USA Inc.
918-445-6643 phone 918-445-6670 fax
lukas.stirnemann@sulzer.com
SECRETARY

Perry Vadhar (2013)

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

Xiaoxi Wang (2014)

MicroGREEN Polymers, Inc.
360-435-7400 x112 phone 360-435-0248 fax
wang0213@gmail.com
NEWSLETTER /COMMUNICATION CHAIR

Maxwell Wingert (2013)

Procter & Gamble
513.634.2832 phone
mw4SPE@yahoo.com
TREASURER

Neil Witten (2014)

Crosslink Technical Consulting Ltd.
+44 (0) 7592 113795 phone
732-264-1189 fax
neil@crosslinktechnical.co.uk
EUROPEAN ACTIVITIES CHAIR

CHAIRMAN'S MESSAGE

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A new website for the TPM&F division is almost ready and will go live by end of March. Please check out the new site at www.spetpmf.com and let us have your feedback.

The technical program and other plans for FOAMS®2012 Conference are finalized by Prof. Miguel Rodriguez-Perez (*FOAMS® 2012 Chairman*) and Ms. Karen Hatley (*SPE Europe*). The conference will be held in Barcelona, Spain on Sept. 12-13. Please visit our new website for more details.

Thank you for your continued support of the TPM&F division and the Society of Plastics Engineers. I look forward to meeting you all at ANTEC®2012!

Sincerely,
Perry Vadhar

NEWSLETTER/ COMMUNICATION CHAIR REPORT



by Xiaoxi Wang

This newsletter publication was scheduled for late March before ANTEC®2012. Deadline for information collecting was March 15, 2012.

TPM&F will receive the Communications Excellence Award (*Special Recognition*) at SPE Awards Ceremony. Results for Pinnacle Award not yet known.

Current Newsletter sponsor: Reedy International.

COMMUNICATION CHAIR REPORT

by: Theresa Healy

www.SPETPMF.com

NEW WEBSITE

As you all know, my team and I have been working on a new website for the TPM&F Division. The goal of this website is to keep our members and interested parties involved in new happenings within our division as well as the SPE. The new website is ready for start-up. I would encourage all of you to look over this site and send me an e-mail with any comments, suggestions, changes, feedback, etc... This is our first initial set up and the second step is going to be the management of the site which should happen in early March. This will allow a few of us to edit the site as needed and make the necessary changes to the content. The new website address is going to be www.spetpmf.com. You can view the website by clicking the following link:

<http://spetpmf.com/Index.asp?Pg=Home>

As we get more involved in the function of the website, we will add /modify content. I would like to use this as another tool to communicate with our members as well as anyone interested in our division as well as the SPE.

Linked in

In addition to our new website, we are continuing to gain members to our TPM&F Linked-In site. I would like us to feel free to share in any technical discussions and questions concerning thermoplastic material and/or foams. This can be a very useful tool in helping companies solve problems or at least provide resources and feedback for technical problems faced in our industry. All discussion should be relevant to what we do and anything out of scope of the initial intent will be monitored and removed if needed. Let's make the Linked -In site more productive and resourceful.



We can promote our new website on the Linked In site for people to view for more information about the division and its events. As of today, we have about 300 members on our site which is more than double this time last year so there is plenty of interest in this group and it continues to grow.

MEET YOUR BOARD MEMBERS

RAY SHUTE



Raymond Shute is the Vice President, Operations and Technology for CORTECH LLC, a premier manufacturer of cross linked polyolefin foams. He is responsible for all aspects of manufacturing, technology and development of new products and applications

for Cortech foams. He has been involved in various aspects of cross linked foams, from inventing new foam products, manufacturing both foams and finished goods produced with foams, technical support for customers, and as the U.S. representative to ISO for cellular products.

Ray has been actively involved with SPE from both a Division and Section standpoint, holding a wide variety of positions on both section and division boards, including several years as Division Chair and Section President. When he attended his first ANTEC® meeting back in 1980, Julian Schoenberg (*who ultimately became a good friend*) asked him to join the TPM&F board and said, "Join the board and have some Fun". Still being involved with SPE some 30+ years later, he must still be having Fun.

He highly recommends joining SPE and becoming involved with your local Section or a Division of interest to you. In this day where everyone "googles" information, the true value of networking can only be appreciated if you give it a try. He has developed many associates and friends over the years by being active in SPE. This network is also a valuable asset whenever you might need to learn about something or find out what new is going in our industry. Ray is currently the Councilor for the Chicago Section, Nominating Chair for TPM&F, and enjoys sharing his experiences with newer members of the board. He has chaired the FOAMS® 2009 conference held in Chicago and co-chaired other SPE sponsored events. He has presented papers on Thermoforming of Foams, and the use of Additives in the Manufacture of Foams. He is an Honored Service Member of SPE and the Chair of the Conference Oversight Committee for SPE.

EDUCATION CHAIR REPORT

by Hani Naguib

1. The TPMF Division education program is supporting student activities during ANTEC® 2012 which includes platinum sponsorship for the student receptions.
2. The TPMF Division has sponsored student scholarships (*two students at PO2012*).
3. Suggested plan for FOAMS® 2012: TPMF to support two students scholarships during FOAMS® 2012.
4. Suggested plan for new Webinar series: the division is interested to organize some specialized webinar series in state of the art areas in the plastics field, we would like to have volunteers from the board members and industry for conducting webinar series in 2012 in the area of sustainability, bio based thermoplastics.
5. Suggested plan for more educational activities:
 - i) providing schools with some educational plastics videos and samples
 - ii) starting a youth outreach program for high school students during our board Topcon conferences;
 - iii) provide travel scholarship to university students to attend our Topcon conferences.

BEST PAPER AWARD CHAIR REPORT

by Dale Grove

Awaiting candidate papers for ANTEC® 2012. Looking for volunteers to grade the initial papers and to judge the final 5 at ANTEC®. There is still plenty of time to get this done.

Plan to use the same ranking scheme as in the earlier Foam conference for next Foam Conference. Too early to get started as the papers are not in yet. I will need some volunteers here as well.

INTERNATIONAL ACTIVITY

by Masahiro Ohshima

ASIA:

28th PPS annual meeting,
Pattaya, Thailand
December 11-15, 2012:
International Meeting
Thailand (www.pps-28.com)

NORTH AMERICA:

ANTEC® 2012

Orange County Convention Center Orlando, Florida USA, April 2-4, 2012, [http://www.4spe.org/PPS-North American Regional meeting, Niagara, Ontario, in Canada, May 21-24, 2012, Canada, \(Marriott Gateway on the Falls\)](http://www.4spe.org/PPS-North%20American%20Regional%20meeting%20Niagara,%20Ontario,%20in%20Canada,%20May%2021-24,%202012,%20Canada,%20(Marriott%20Gateway%20on%20the%20Falls)) <http://www.pps2012.mie.utoronto.ca/Home/Home.html>

Applied Market Information POLYMER FOAM 2012, International conference and exhibition on blowing agents and foaming technology, October 9-10, 2012, Sheraton Newark Airport Hotel, Newark, NJ, USA <http://www.amiplastics-na.com/Events/Event.aspx?code=C462&sec=2479>

EUROPE:

FOAMS® 2012, Sept 10-13, Barcelona
Cellular Materials- CellMat 2012, Nov.7-9, Dresden, Germany, <http://www.conventus.de/cellmat/>



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2012

POLYOLEFINS 2012 CONFERENCE REPORT

by Ananda Chatterjee

TPM&F Liaison with PO Committee



For Polyolefins 2012 Conference (held in Houston during February 27-29, 2012) TPM&F Division coordinated two technical sessions as a partner in the PO conference. Both sessions received written recognition from PO Committee for their high quality.

Donna Davis developed and chaired a session on “Polyolefins in Rigid Packaging”. The speakers were from American Chemistry Council, McConnell Company, Dow Chemical, Total Petrochemicals, Plastics Technologies Inc., and Chemical Market Resources. The session was held on February 28 AM.

Ananda Chatterjee organized and chaired a session on “Advancements in Polyolefin Foams”. The papers presented were from Dow Chemical, JSP (Japan), Simona AG(Germany), Kyoto University (Japan), Coperion Corp and E-Beam Services. This session was held on February 28 PM.

Two scholarships (each \$1000) in the name of TPMF Division were awarded at the PO Conference. The first winner was Mr. Yogendra Pandey, a PhD student in Chemical and Biomolecular Engineering at University of Houston. He is working on dynamics of polymers at interfaces. The other recipient was Mr. Ziniu Yu, working toward his PhD in Chemical Engineering at Texas Tech University. His research is focused in the elastomers area. The funds for these awards came from the proceeds of the PO conference. The students were selected by their respective university faculty.

At this conference, Ananda Chatterjee received an award from Texas A&M University (TAMU) for Outstanding Service to TAMU’s Polymer Technology Center, as SPE Liaison with TAMU’s SPE chapter. Professor H-J Sue of TAMU made the award presentation on February 27, 2012.

For the PO2013 conference, TPMF will be responsible for three sessions, enhancing our revenue.



Yogendra Pandey (left) receiving \$1000 check from Ananda M. Chatterjee



Ziniu Yu (left) receiving his \$1000 check from Ananda M. Chatterjee

FOAMS® 2012 REPORT

By Miguel Angel Rodríguez Pérez



1. FOAMS® 2012 COMMITTEE.

Conference Chair – M.A. Rodríguez-Perez.
Conference Co-Chairs – Miguel Muñoz and Karen Hatley.
Technical Program Chair - M.A. Rodríguez-Perez.
Technical Program Co-Chairs – Vipin Kumar and Neil Witten.
Housing Chair – Karen Hatley and Lauren McCarthy
Hotel Contract Chair – Karen Hatley.
Tutorial Chair – Professor Chul Park
Sponsor Chairs – Theresa Healy, Salvatore Monte and Magnolia León
Student Poster Chair – Neil Witten and Maxwell Wingert
Treasurer – Miguel Muñoz and Max Wingert
Best Paper Award – Dale Grove
Local Organizing Committee: Cristina Saiz, Belen Notario and Ester Laguna.

2. HOTEL

In selection process has been narrowed down to two hotels: Hotel Porta Fira and Hotel Renaissance .These negotiations will be finished at the beginning of April.

3. PAPERS.

To date Four papers have been received - better figures than in previous years at this time. These are the titles of the papers, all from Europe.

1. Influence of Nanofiller Shape on Foam Morphology in Supercritical CO₂ Assisted Foaming

Rahmi Ozisik¹, Deniz Rende^{1,2}

¹Department of Materials Science and Engineering, and Rensselaer Nanotechnology Center, Rensselaer Polytechnic Institute, Troy, NY 12180, USA

²Department of Chemical Engineering, Yeditepe University, Istanbul 34755, Turkey

2. Foaming of a Toughness Modified Recyclable Polymer

Marieluise Stumpf, Prof. Dr. Volker Altstädt

Lehrstuhl Polymere Werkstoffe

Universität Bayreuth

Universitätsstraße 30

95447 Bayreuth

3. Foam Extrusion Behavior and Correlation between Foam Morphology and Foam Properties of Externally Plasticized Cellulose Acetate Using Inert Gases

K. Berdel¹, T. Hildebrand¹, S. Kabasci², H.-J. Radusch³, F. van Lück⁴, T. Wodke², S. Zepnik^{2,3}

¹Institute of Plastics Processing (IKV), RWTH Aachen University, Aachen, Germany

²Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen, Germany

³Martin Luther University Halle-Wittenberg, Centre of Engineering Sciences, Chair Polymer Technology, Halle (Saale), Germany

⁴Inde Plastik Betriebsgesellschaft mbH, Aldenhoven, Germany

4. Chemical Foaming of Thermoplastics

Dr. Thomas Mergenhagen

TRAMACO GmbH

Siemensstraße 1-5

25421 Pinneberg

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FOAMS® 2012 REPORT - CONTINUED

5. Foaming Properties of Novel PS Food Contact Complying Nanoclay-based Composites

J .M. LAGARON, IATA-CSIC, Avda. Agustin Escardino 7, 46980 Paterna, Spain Phone/Fax/E-mail: +34 963900022, e-mail: lagaron@iata.csic.es, E. NUÑEZ, NanoBioMatters R&D S.L., Paterna, Spain, J. LOBOS, M.A. RODRIGUEZ-PEREZ, Cellular Materials Laboratory, Condensed Matter Physics Department, Universidad de Valladolid, Valladolid, Spain

6. Titanates and Zirconates – Why They Are Different Than Silanes at The Interface”

Salvatore Monte, Kenrich Petrochemicals.

140 East 22nd Street PO Box 32 Bayonne, NJ 07002 USA Email: sjmonte@4kenrich.com

7. A Novel Continuous Kynar® PVDF Foam Concentrate and Application Developments

Sean M. Stabler, Saeid Zerafati, Richard Perrinaud - Arkema Inc.

900 First Avenue, King of Prussia, PA 19406

8. Effects of Cellular Morphology on Electrical Conductivity of Carbon Nanotubes Containing Nanocomposite Foams

Minh-Phuong Tran¹, Jean-Michel Thomassin¹, Michaël Alexandre¹, Erwan Plougonven², Angélique Leonard², Christophe Detrembleur¹

Department of Chemistry, Center of Research and Education on Macromolecules (CERM), University of Liège, B6aAllée de Chimie, Sart Tilman, 4000 Liège (Belgium)

²Department of Applied Chemistry, Laboratory of Chemical Engineering, University of Liège, B6aAllée de Chimie, Sart Tilman, 4000 Liège (Belgium)

There is a clear interest in presenting by several companies/universities:

University of Marseille

Ferro-Spain

Lortek

University Politecnica de Cataluña, Spain

University of Leuven

Dow Chemical

Therefore, there are good perspectives from this point of view. A significant number of papers from people who has not attended previous foams conferences.

4. PLENARY SPEAKER

Dr. Klaus Hahn from BASF, TPM&F Outstanding Achievement Award, will give a plenary lecture during Foams 2012. He will receive the award during the conference.

5. SPONSORS

The following sponsors are confirmed:

Reedy International

Kenrich Petrochemicals

BASF-Spain

Total Petrochemicals



We have contacted with Dow-Chemical, Borealis, Ferro-Spain and Honeywell. We are waiting for their answers.

TPM&F Related Events @ ANTEC®

TUESDAY APRIL 3, 7:00 P.M

BOD Meeting at Hilton Orlando, Winter Park Room

TUESDAY APRIL 3, 5:00 P.M. TO 5:30 P.M.

Business Meeting at the Orange County Convention Center, Room S320D,

APRIL 3, 5:30 TO 7:00 P.M. (SAME ROOM S320D).

Members Reception at the Orange County Convention Center

M17 MONDAY MORNING • APRIL 2

Engineering Thermoplastics

8:00 High-Flow Thermoplastic Polyesters
Robert Gallucci, SABIC Innovative Plastics

8:30 P Glass Filled Polybutylene Terephthalate With
Enhanced Surface Aesthetics
Kaushal Gandhi, SABIC Innovative Plastics

9:00 New Polycarbonate Compositions with Low OSU
Heat Release & Smoke Values for Aircraft Applications
Paul Sybert, Sabic Innovative Plastics - Lexan Technology

9:30 Comparison of Mass Transit Material Flammability
Requirements and Trends for Aircraft and Train Applica-
tions in Europe and North America
Ralph Buoniconti, SABIC Innovative Plastics

10:00 deTerra® Biobased Polymers-Next Generation
Materials for Durable Applications
Wenyi Huang, Ohio State University

10:30 Comparative Studies on the Crystallization
Behavior of Poly Ether Ketone (PEK)
Mathew Abraham, Gharda Chemicals LTD

M35 MONDAY AFTERNOON • APRIL 2

Foams in Molded Parts and Fibers

1:30 Dynamic Behavior and Experimental Validation of
Cell Nucleation and Growing Mechanism in Microcellular
Injection Molding Process
Chao-Tsai Huang, CoreTech System (Moldex3D)

2:00 Polymer Nanocomposite Foam for Textile Applica-
tions
Shu-Kai Yeh, National Taipei University of Technology

2:30 Study of Producing Microcellular Injection Molded
Parts with Improved Surface Quality
Lih-Sheng Turng, University of Wisconsin-Madison

3:00 The Influences of Processing Temperatures and
Nucleating Agent in Foaming of a Thin-Walled Injection
Molded Part
Davoud Jahani, University of Toronto

3:30 Polymer Nanocellular Fibers via Supercritical
Carbon Dioxide Based Extrusion Foaming
Wenyi Huang, Ohio State University

4:00 Pull and Foam - Injection Molding Method:
Foamed Ribs for Stiffening Plane Components
Mike Tromm, University of Kassel

4:30 Extrusion-Calendering of Foamed and Unfoamed
Wood/Plastic Composites
Denis Rodrigue, Université Laval

T16 TUESDAY MORNING • APRIL 3

New Materials and Additives

8:00 Moisture Resistant Technologies for Wood Composites
Jeffrey Cernohous, Interfacial Solutions

8:30 Evaluation of Long-Term Performance of GFRP for Hot Water Application by Injection Molding
Masahiro Muto, Kyoto Institute of Technology

9:00 Gas Permeability of Poly (4-Methylpentene-1) in a Confined Nanolayered Film System
Guojun Zhang, Case Western Reserve University

9:30 One- and Three-Dimensional Alignment of Graphene Using New Fabrication Strategies for Thermally Conductive LLDPE-Graphene Composite
Muhammad Omer Khan, University of Toronto

10:00 High Performance Metallocene Based on SK Innovation's Nexlene™ Technology
Sewon Oh, SK Innovation

T35 TUESDAY AFTERNOON • APRIL 3

PLA Foam

1:30 The Effect of Polyhydroxybutyrate-co-valerate (PHBV) Content on Thermal, Rheological, Mechanical Properties and Foaming Behavior of Polylactic Acid (PLA)
Qi Guan, University of Toronto

2:00 A Study on the Acoustic Performance of Bio-Based Composite Foams of PLA and PHBV
Shahrzad Ghaffari Mosanenzadeh, University of Toronto

2:30 Melt Fracture Behavior of PLA Foamed Using Different Die Entry Angles
Mo Xu, University of Toronto

3:00 Feasibility of Double Crystal Melting Peak Generation in PLA for Expanded PLA Beaded Foams
Mohammadreza Nofar, University of Toronto

3:30 Effect of Various Additives (*Talc, Nanoclay, & Nanosilica*) on Extrusion Foaming of PLA Through Crystallization
Mohammadreza Nofar, University of Toronto

4:00 Swelling of PLA Melt Due to CO₂ Dissolution
Syed Mahmood, University of Toronto

4:30 Thermal and Thermomechanical Behavior of Injection Molded Solid and Microcellular Polylactic Acid (PLA)/ Polyhydroxybutyrate-valerate (PHBV) Blends
Haibin Zhao, South China University of Technology

W16 WEDNESDAY MORNING • APRIL 4

Polyolefin Foams

8:00 Dynamic Properties of Crosslinked Polyolefin Foams
Kyle Kummer, The Dow Chemical Company

8:30 Isothermal Crystallization-Induced Foaming of Polypropylene Under High Pressure Carbon Dioxide
Anson Wong, University of Toronto

9:00 Solubility and Diffusivity of Carbon Dioxide in Polypropylene/Micro-Calcium Carbonate Composites
Jie Chen, East China University of Science and Technology

9:30 Strategies for Achieving High Expansion Foams of Crosslinked Ethylene-vinyl Acetate (EVA) Using a Chemical Blowing Agent
Nan Chen, University of Toronto

10:00 Foaming of Poly(ethylene-co-octene) with Supercritical Carbon Dioxide Across Its Melting Range
Raymond Chu, University of Toronto

W22 WEDNESDAY AFTERNOON • APRIL 4

ETP Foams

1:30 Extrusion Foaming Behavior of PET
Mohamad Reza Barzegari, University of Toronto

2:00 Falling Dart Impact Behavior of Polycarbonate and Microcellular Polycarbonate Foams
Martin Rohleder, University Kassel

2:30 Effect of Process Variables on the Properties of Supercritical CO₂ Foamed PS/Graphite Nanocomposite Foam
Shu-Kai Yeh, National Taipei University of Technology

3:00 Batch Foaming Behavior of TPU Material
Kun-Chang Lin, Far East University

3:30 Biomass Materials, shape Memory Polyurethane
Jia Hong Li, Plastics Industry Development Center

4:00 Development of Bead Foaming Technology for High Performance PEEK 1 Thermal Analysis
Hui Wang, Jilin University

THERMOPLASTIC MATERIALS AND FOAMS DIVISION BOARD MEETING MINUTES

Meeting Date: Monday, February 27, 2012, 7:30 p.m. to 10:00 p.m. CST

Location: Hilton Houston North, Houston, TX

ATTENDANCE

Attending the BOD meeting (In person): Sal Monte, Erika Monte, Lukas Stirnemann, Donna Davis, Masahiro Oshima, Abdelhadi Sahnoune, Ananda Chaterjee, and Ashu Sharma. *Joining the BOD meeting by phone:* Xiaoxi Wang, Ray Shute, Perry Vadhar, Max Wingert, Chul Park, Hani Naguib, Theresa Healy, N. S. Ramesh, Ray Shute, and Dale Grove. *Not present either by phone or in person:* Miguel Rodriguez-Perez, Vipin Kumar, Neil Witten, and Kelvin Okamoto.

CHAIR REPORT — PERRY VADHAR

General announcements, Camilo Cano resigned from the board and replaced eventually by Dale Grove. Dale will continue to serve as a Best Paper Chair. Ajit Rande is not yet on board fully. Hank Schirmer is not attending due to his daughter's health. His board membership is questionable though. Perry has 3 goals: 1) TPMF Website, 2) Membership goal 1000 members 3) Hold Foams 2012 in Barcelona. Perry also informed the division has won the Communication Excellence Award.

SECRETARY'S REPORT — LUKAS STIRNEMANN

Approval of minutes from Sept. 2011 BOD meeting, Minutes are approved!

COMMUNICATION CHAIR REPORT — THERESA HEALY

Updated on TPM&F Website: Check live website. Theresa explained the navigation through the website with its content and layout: Membership, Education, SPE, Photos, Linked-in, Contact us, Event Calendar, BOD (some photos are missing), Newsletters. The website is dynamic with reasonable cost and easy to change content ourselves. Linked-In site is updated regularly. There was a suggestion to add a link from the SPE's main site to connect to the TPMF's site.

FOAMS® 2011 CLOSING REPORT — SAL MONTE /MIGUEL PEREZ /MAX WINGERT

Sal did not have anything to add. It's done! The conference added \$6,000.

FOAMS® 2012 REPORT — MIGUEL PEREZ (*did not attend due to time difference*)

Planning committee is aware of negotiating all the contracts in order to achieve a positive financial outcome, Sal explained Miguel's report. No concerns regarding the organization of the conference. It will be run by SPE headquarters. Food, meeting rooms, coffee break rooms are all set. What would be the break even number in attendance, 50 people, bare minimum of expense in order to lower the cost. During the foams conference outstanding achievement award will be awarded to Dr. Hahn BASF. *Motion* for Lauren to travel to Spain for the FOAMS2012 in Sept to help with registration. Cost (\$2500) will be absorbed by the overhead. Karen will be paid through SPE Europe.. Hani expressed his concerns that if an individual will be sent on SPE expense that the SPE president will have a problem with such an expense.

OUTSTANDING ACHIEVEMENT AWARD CHAIR REPORT — VIPIN KUMAR (*not present*)

Dr. Hahn with BASF will be presented the OAA award at FOAMS® 2012.

Finalize Future Foams TopCon Locations:

Review and approve proposal for 2013: Seattle, WA.

Xiaoxi updated that during Board meeting of Pacific West, they gave full support to hold Foams 2013 in Seattle. Xiaoxi will Co-chair but need another person to Chair.

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MEETING MINUTES - CONTINUED

Proposal for 2014: Woodbridge, NJ

Will be voted during ANTEC®2012 so there will be more BOD attending the meeting at that time.

PO 2012 TOPCON REPORT — ANDY CHATTERJEE /DONNA DAVIS

Andy, this year they are running two sessions. There will be two scholarships give to two students:

1) University of Houston 2) Texas Tech University. \$1000 to each student. Andy solicited topics for TPM&F sessions at PO2012. There were suggestions for Sustainability, Natural Gas feedstock for Polyolefins, Nanotechnology, PO copolymers, Automotive, and Green PO .

South TX Section wants TPMF to hold 3 sessions. It is a good time to gain another session. Andy pointed out that being responsible for a session requires a lot of work. This individual is required to start getting all the papers together by April. Topics have to be something other than foams. We have to inform our decision. Andy Chaterjee called for a volunteer from the BOD to put together the program and Chair the 3rd Session.

COUNCILOR CHAIR REPORT — ASHU SHARMA

Ten years needed to become Senior Member and six years to become Honored Member. New SPE CEO will come out of Europe. Member count stagnate at 15000. (*compared to 30,000 in the '90s*).

TREASURER'S REPORT — MAX WINGERT

Budget status/planning – report has been sent out.. Main topic: SPE Investment Program has ended in Feb. 2012. No more income on interest. All the money is sitting on a checking account. Several options are mentioned in the report. goal is to achieve a return of 4 to 8%.. Church bond offers a 7% return. Sal suggests putting a third of the money in that bond. The investment plans will be finalized during the next BOD meeting.

Approval of budget. has not been touched on.

ANTEC® 2012 — DONNA DAVIS

Six sessions fully populated and Moderators are assigned. Dale will receive all the papers for the best paper award. SPE wide reception is Monday afternoon.

EDUCATION CHAIR — HANI NAGUIB

Sent report to the board. 1) Student activity 2) Scholarships. 3) Hani is suggesting trying to get a scholarship to students through the FOAMS® conference \$1000 per student up to 2 students. The amount used for scholarship do not have to share with the SPE HQ. Andy is questioning the purpose of these scholarships. It should advertise globally and should have clear mission and purpose. Details will be discussed during ANTEC® in Florida. Maybe we can advertise scholarships globally. Consultants Corner cancelled at ANTEC®. Need to conduct new webinar series but not been able to find a speaker. May be someone from Board can help.

BEST PAPER'S CHAIR REPORT — DALE GROVE (*not present*)

Plans for ANTEC® 2012 & FOAMS® 2012

Dale is looking for volunteers to review papers. He needs 4 to 5 reviewers.

HSM/FELLOWS NOMINATIONS — DONNA DAVIS

Its time to start thinking about who to nominate for next year.

MEMBERSHIP CHAIR REPORT — AJIT RANADE (*not present*)

Current TPMF membership is at 831. Does anyone have any ideas to gain more members? Please send ideas to Ajit. Perry emphasized this as on his goals to increase the membership counts. GPEC sends outs recruiting letters

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MEETING MINUTES - CONTINUED

of people who hit up their website. Can we reach out for former member to find out why they left? Retention is a little over 80%. Maybe improve website to make our division more visible. Plans for recruiting more members.

NOMINATION CHAIR REPORT — RAY SHUTE

He sent out an email to 2012 board members (*N. S. Ramesh, Miguel*). Please respond to Ray if you would like continuing on the board by March 9th. Suggested to consider Hank for Emeritus status.

NEWSLETTER CHAIR REPORT — XIAOXI WANG

Newsletter deadlines is late March before the ANTEC. He will send out a reminder. The division received Communication Excellence Award. Reedy International is the only sponsor for the newsletter.

REVISION OF TPM&F BY-LAWS — KELVIN OKAMOTO (*not present*)

BOD members reduced from 27 to 21. By-laws can be presented to SPE HQ. Can be finalized before ANTEC®. Perry will send them out for revision.

INTERNATIONAL ACTIVITIES REPORT — MASAHIRO OHSHIMA & NEIL WITTEN (*not present*)

Sent report to BOD. listed up upcoming conferences related to FOAMS®. He cannot attend all the international meetings. What is expected by all the BOD members? This is not a really pro-active chair. Maybe Prof. Ohshima can support Miguel on the FOAMS®2012. Perry proposes having another BOD meeting in June during daytime to connect with BOD in Europe and Asia.

NEW/OLD BUSINESS

No additional topics.

Next Board meeting time and date during ANTEC® 2012

It will be held on Tuesday on April 3rd. Ray Shute suggested the meeting used to held on Sunday. Perry agrees and plans to hold meeting on Sunday evening at ANTEC® 2013.

Meeting adjourned.

submitted by Lukas Stirnemann

MEMBERSHIP CHAIR REPORT

by Ajit Ranade

TPM&F division active members as of 2/27/12: 871

We lost 181 members over 1-year period. I don't know the specific reason behind membership loss. Perhaps they either did not renew SPE membership or turned away from TPM&F. This will require detail marketing survey and we don't have access to these tools.

We need to discuss.

Has it happened before?

How did we manage to fix it?

Can we follow the same steps?

If we are witnessing this for the first time then we need to discuss some actions to bring the members back. I am open for suggestions and ideas.