

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.

CHAIRMAN'S MESSAGE

MARCH 2014



The Thermoplastics Materials and Foams Division has just received two of the most prestigious awards for the Society of Plastic Engineering: the 2014 SPE Gold Pinnacle Award and the 2014 SPE Communications Excellence Award. The Pinnacle Gold is awarded to those who, in addition to meeting Pinnacle Silver criteria, demonstrate superior performance in the Gold achievement categories. The Communications Excellence Award recognizes a full range of achievements in communications excellence in which our board has been recognized with the highest level: Communication Leader. I would like to take this opportunity to congratulate all the divisions' members and board for this great achievement. I want to acknowledge the Board Members for their dedication and excellence in serving on the board and all the divisions' members for the continuous support and involvement to the division activities.

As a division, we are all continuing our commitment of conveying the mission of the SPE in the education and training in the plastics industry and closing the gap between academics and industries for prosperous collaboration in the field of thermoplastics and foams. We are committed to reach excellence in our service to the board, and to achieve our goals in increasing the depth of our education activities; organizing global TopCon conferences and grow the membership of the division.

I would like to highlight the great success of the International Polyolefins Conference that took place on February 23-26, 2014 in Houston, Texas and to recognise all the hard work from the division members that were involved in the event. The theme for the conference this year was on "The Polyolefin

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CHAIRMAN'S MESSAGE

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Renaissance” in which it included topics on innovation in polyolefins, resin and copolymer development, advances in equipment and processing of polyolefins and new applications. The conference featured renowned speakers from academics and industries presenting technical papers on innovations in polyolefins and their research and development as well as industrial applications.

I need to take this opportunity to invite you all for our upcoming events of the division: SPE ANTEC®2014 conference, April 28-30, 2014 held in Las Vegas, Nevada. During ANTEC®, our division will have five sessions and technical papers in thermoplastics and foams themes. I would like to extend the invitation for all the board members and non-members to join us in the division business meeting on Tuesday April 29, 2014 at 5 pm. In addition, our division will also have its annual FOAMS®2014, 12th International Conference on Foam Materials & Technology on September 8-11, 2014 at Iselin, NJ USA.

Finally, I like to invite all the members and non members to join our division and its activities, we are continuing to grow our network of professionals and specialists in this field and we would always welcome your help, support and feedback to achieve our missions.

Best regards.
Hani Naguib
TPM&F Chairman

COMMUNICATION CHAIR REPORT

by Theresa Healy
March, 2014




COMMUNICATION CHAIR UPDATE:

We have been advised that our division has won the Communication Leader in the 2014 SPE Communication Excellence Award. Congrats to everyone's input and efforts on the board to make this happen.

TPM&F WEBSITE - EDUCATION TAB:

Stephane helped me put together updates on the Education Tab including webinars, scholarship info, etc... We would like to have monthly/quarterly updates to keep all of our member informed of any happenings. We have updated the other tabs as well. I also added the Fellows to the website. Any suggestions, pictures from conferences, and input are appreciated. We will want to advertise (scrolling advertisement) on the sides. Ideas/suggestions are welcomed. Perhaps, we can even have a committee formed to help get sponsors. I will send out reminders possibly monthly and/or quarterly for input.

LINKED-IN TPM&F SITE:

 There were two Linked-In sites with the same name. One was created by Michael Reedy and I was able to transfer a message to those members to join our TPM&F group (subgroup of the SPE). I uploaded the new SPE logo to the Linked In site as well as our website. I had to go through several people at Linked-In to get the other group deleted but now it is completed and we have our own Linked-In group which is a subgroup of the SPE. We had 462 members in September and are at 522 members as of mid-February. Again, I would encourage all BOD members to join the site and if you would like to offer some technical topics around thermoplastic materials and foams, feel free to post. We can use this site to post happenings, upcoming events, webinars, etc...I used this site to post the webinars and also the FOAMS® and Polyolefins. Conference Materials. If any students or anyone within the group has a technical question involving thermoplastic foams, they should be encouraged to post as we have several professionals/consultants that can help address those questions. This group is checked and cleaned up on a daily basis. This is another tool for education and networking for our division which we will continue to update.

NEWSLETTER: We will want to continue to support the efforts of the newsletter. The newsletter is an outstanding tool of communication. Xiaoxi does an excellent job in this area and we should continue to supply him with information on our happenings. As far as the Sponsorship for the newsletter, I think we should take a look at other newsletters within the SPE to see how they gain sponsors and what they do to promote sponsorship.

www.SPETPMF.com

EDUCATION REPORT

TPM&F Board of Directors Meeting

February 24th, 2014

Objectives for 2014: The objectives remain as defined by the previous chairman (*Hani Naguib*).

- 1) Student Scholarships at ANTEC® and FOAMS® 2014
- 2) Webinar Series
- 3) Educational Outreach Initiatives

Progress since the September BOD Meeting:

1) Student Scholarship

ANTEC® 2014: the TPM&F division elected to sponsor the student luncheon at ANTEC® 2014 at the Platinum level for an amount of \$2,500. Max sent a check to SPE on Jan 22, 2014.

FOAMS®2014: the division will sponsor one \$500 scholarship for a student to attend the conference. A second \$500 scholarship in the name of Mike Reedy will also be awarded. Theresa Healy indicated that Reedy International would like to fund this scholarship.

2) Webinar Series. The first Webinar series on Polyolefin was organized in January:

January 14th: Abdelhadi Sahnoune (**ExxonMobil**)
Polyolefins - Developing and Delivering Products to Address Sustainability Needs

January 28th: Lisa Madenjian (**Dow Chemical**)
INFUSE™ Olefin Block Copolymers: Structure, Properties and Applications

The division offered a 20% discount to its members who registered for the seminar series (*\$120 instead of \$150*). Webinars are available on-demand for registrants who could not attend both webinars.

Scott Marko from SPE was assigned to the organization of the webinars. The process is rather effective, although the advertising of the seminars occurred too late to reach a large attendance. Also, the message announcing the discount (*sent only to TPM&F members*) looked like a repeat of the initial, broader announcement. Some adjustments will be made in the future to increase attendance and better advertise the discount. I will also ask about advertising the webinars on the Plastics Engineering website. Reception was good despite limited attendance. Speakers commented that the webinars helped establish new connections or commercial leads.

FUTURE WEBINARS:

Kim McLaughlin - (**optional, April or May 2014**)

3-PART WEBINAR ON FOAMS (**to be scheduled in June-August 2014**):

Part 1: Miguel Rodriguez-Perez – “Cellular Nanocomposites”

Part 2: Hani Naguib – “Bio and Sustainable Foams”

Part 3: Stéphane Costeux – “Nanocellular Foams”

3) Other Educational Outreach Initiatives

Donna Davis - South Texas Section has participated in local science fairs for several years now. They recruit judges who attend the science fairs, looking particularly for plastics related projects, and selecting “winners” for scholarship awards, ranging up to \$500. The awards are presented at the annual section awards event, with parents invited, etc.

New potential activities: Donna help spread the message out that TPM&F is looking for opportunities to fund new educational activities (*scholarship, awards, participation in science fairs, school visits by SPE professionals etc.*). See suggestions below. Next step is to select key activities to support, and to implement through contacts in the local sections. My personal recommendation for this first year would be to sponsor several small awards (\$50 to \$100) for existing science fairs (*e.g. “best use of plastics or foams”*) and to arrange one Plastivan event in one section where TPM&F has a strong presence.

4) Website

The education tab on the TPM&F website was updated to include a statement of the educational mission of the division and a list of sponsorship activities. The page will be maintained to list upcoming webinar. [Many thanks to Theresa Healy for facilitating all the updates on the website!]

Stéphane Costeux
TPM&F Division Secretary

TREASURER'S REPORT

February 24, 2014



FINANCIAL SUMMARY:

1. FY13-14 budget: Income \$35,283; Expenses \$27,550.00. Thus, we have a budgeted surplus of \$ 7,733.
2. First half of FY actual transactions are: Income \$20,098.93; Expenses \$3,364.77.
3. Don't forget to opt out of sales tax due to our IRS 501(c)(3) non-profit status. See me a head of time for help with that.
4. The division received \$8,782.93 proceeds for PO2013 in July 2013, so the budgeted income for PO conference proceeds are higher than normal this FY (because we should receive income for PO2014 before July 2014).

INVESTMENT ACCOUNT UPDATE:

Between June 30 and December 31, the account managed by Constitution Advisory Group gained 8.3% from \$123,801.73 to \$134,091.48.

As of February 23, the investment account value is now \$135,522.27.

TPM&F FINANCIALS:

	FY 2012-13		FY2013-14	
	6/30/13 Actual	Revised budget	12/31/13 Actual	Budget
INFLOWS				
Interest & Dividends	\$ -	\$ -	\$ -	\$ -
CAG Investment Program Net Gain	\$ 9,788.20	\$ 4,000.00	\$ 10,259.75	\$ 4,000.00
Sponsorship	\$ 375.00	\$ 500.00	\$ -	\$ 500.00
Conference - FOAMS	\$ 5,672.05	\$ 5,000.00	\$ -	\$ 5,000.00
Conference - Polyolefins	\$ -	\$ 5,000.00	\$ 8,782.93	\$ 16,783.00
Previous Year TopCon Reimburse	\$ 10,034.30	\$ 10,034.30		\$ 5,000.00
SPE Rebate	\$ 4,616.11	\$ 1,000.00	\$ 1,056.25	\$ 4,000.00
Total Inflows	\$ 30,485.66	\$ 25,534.30	\$ 20,098.93	\$ 35,283.00
OUTFLOWS				
ANTEC Expenses	\$ 1,430.69	\$ 3,500.00	\$ -	\$ 3,500.00
Best paper awards	\$ 42.36	\$ 1,700.00	\$ 531.40	\$ 2,700.00
Non-ANTEC Board Meeting	\$ 1,554.87	\$ 3,000.00	\$ 1,230.82	\$ 3,000.00
Councilor Travel	\$ 2,085.17	\$ 1,500.00	\$ 483.72	\$ 2,000.00
Educational Programs	\$ 5,000.00	\$ 6,000.00	\$ -	\$ 6,000.00
Future Year TopCon Expenses	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -
General Office	\$ -	\$ 50.00	\$ 31.09	\$ 50.00
Communication	\$ 2,669.00	\$ 2,800.00	\$ -	\$ 2,800.00
Outstanding Achievement Award	\$ 2,021.87	\$ 9,000.00	\$ -	\$ 4,500.00
Scholarships/Grants	\$ 1,040.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
Technical Training Seminars	\$ -	\$ 1,500.00	\$ -	\$ 1,500.00
CAG Investment Program Net Loss	\$ -	\$ -	\$ -	\$ -
Other expenses	\$ 3,112.31	\$ 1,000.00	\$ 87.74	\$ 1,000.00
Total Outflows	\$ 23,956.27	\$ 36,050.00	\$ 3,364.77	\$ 27,550.00
Overall Surplus (deficit)	\$ 6,529.39	\$ (10,515.70)	\$ 16,734.16	\$ 7,733.00
Budget Plan	\$ (10,515.70)	\$ (10,515.70)	\$ 7,733.00	\$ 7,733.00
Variance from Budget	\$ 17,045.09		\$ 9,001.16	
Ending Account Balance	\$ 145,032.06		\$ 161,766.22	

Respectfully submitted by:
Maxwell J. Wingert
 SPE TPM&F Treasurer

APRIL 28 Monday AM

FOAMS I SESSION	AUTHOR CONTACT	TITLE
Moderator: Perry Vadhar	Hao Ding, <i>Dept. of Mech. Eng., Lassonde School of Eng., York Univ., Toronto Ontario Canada</i>	Micromechanical Modeling of Thermally Conductive Polymer Matrix Composite Foams
	Davoud Jahani <i>Univ. of Toronto, Toronto, Ontario Canada</i>	Utilizing the Sound Absorption of Polymer Based Open-Cell Materials for Low Frequencies by Considering Air-Gap
	M. A. Barger <i>Dow Chemical Company, Midland, Michigan</i>	Structure-Property Relationships in Lightly Crosslinked Polyolefin Foams
	Raymond K. Chu <i>Univ. of Toronto, Toronto, Ontario Canada</i>	Injection Molding of Highly-Porous PP Foams

APRIL 28 Monday PM

FOAMS AND THERMOPLASTIC RESIN SESSION	AUTHOR CONTACT	TITLE
Moderator: Xiaoxi Wang	Na Zhao <i>Zhengzhou University, Zhengzhou China</i>	PVOH Foaming with CO ₂ and H ₂ O as Co-Blowing Agents
	Andrew Shinko <i>Polym. Eng., Univ. of Akron, North Canton, OH</i>	Crosslinked Polyurea Aerogels and Controlled Porosities
	Alicyn M. Rhoades <i>Univ. of Toronto, Toronto, Ontario Canada</i>	Detection of the Brill Transition to Elucidate Localized Thermal History in Nylon 6/6 Molded Samples
	Nemat Hossieny <i>Univ. of Toronto, Toronto, Ontario Canada</i>	Feasibility of Double Melting Peak Generation for Thermoplastic PUR Bead Foams

APRIL 29 Tuesday AM

PROCESSING STUDIES OR PROCESS SENSITIVE VARIABLE STUDIES	AUTHOR CONTACT	TITLE
Moderator: N. S. Ramesh	Bernd Geissler, <i>Polymer Competence Center Leoben GmbH, Leoben Austria</i>	Influence of the Flow Channel Geometry on the Degasing Pressure in Foam Extrusion
	Juan Lobos, <i>Chem. & Petrol. Eng., Univ. of Pittsburgh, Pittsburgh, PA</i>	Improving Thermoplastic Foam Stability in the Molten State by Interfacially Absorbed Particles
	Xuelian Chen, <i>National Inst. Of Clean and Low Carbon Energy, Beijing China</i>	Improving Foaming Properties of Low Melt-Strength PE via Controlled Crosslinking
	Alireza Tabatabaei Naeini <i>Univ. of Toronto, Toronto, Ontario Canada</i>	PP Crystallization in Bulk During an Extrusion Process: Effect of MW and Supercritical CO ₂
	Vahid Shaayegan <i>Univ. of Toronto, Toronto, Ontario Canada</i>	A New Visualization Mold Design for Foam Injection Molding
		The Effect of Rheological Behavior on the Morphology and Mechanical Properties of Multi-Layered PP Film/Foams

APRIL 29 Tuesday PM

NANOCOMPOSITE FOAMS OR NANOCELLULAR FOAMS

	AUTHOR CONTACT	TITLE
Moderator: Stéphane Costeux	Aboutaleb Ameli <i>Mech. And Ind. Eng. Dept., Univ. of Toronto, Toronto, Ontario, Canada</i>	Lightweight PP-Carbon Nanotube Foams with Low Filler Content, High Permittivity, and Low Dielectric Loss for Charge Storage Apps
	Mehdi Saniei <i>Univ. of Toronto, Toronto, Ontario Canada</i>	One-Step Nanocellular Foaming of Clarified PP Using Supercritical CO ₂
	Yan Li <i>Florida Sate University, Tallahassee, Florida</i>	Cyclic Olefine Copolymer (COC) Nanocomposites and Nanocomposite Foams Preparation, Morphology, and Properties

APRIL 30 Wednesday AM

BIODEGRADABLE FOAM SESSION

	AUTHOR CONTACT	TITLE
Moderator: Changchun Zeng	Mohammadreza Nofar <i>Univ. of Toronto, Toronto, Ontario Canada</i>	Development of Expanded PLA Bead Foams: A Promising Substitute of Expanded PS and PP Products.
	Tairong Kuang <i>South China Univ. of Tech., Guangzhou, China</i>	Microcellular Foaming Behavior of Poly(butylene succinate)/Nanosided CaCO ₃ Composites
	Qi Guan Univ. of Toronto, Toronto, Ontario Canada	The Effect of Immiscibility on Biobased PLA/PHBV Foams
	Peng Yu <i>South China Univ. of Tech., Guangzhou, China</i>	Properties and Foaming Behavior of Biodegradable PLA/Poly(butylene succinate)Blend
	Han-Xiong Huang <i>South China Univ. of Tech., Guangzhou, China</i>	Crystallization and Foaming Behaviors of Poly(lactic acid) Using Supercritical CO ₂ as a Foaming Agent



Rio All-Suite Hotel & Casino
April 28–30, 2014
Las Vegas, Nevada, USA

[Click Here to REGISTER](#)

POLYOLEFINS 2014 REPORT

By Ananda M. Chatterjee, TPC – PO 2015

TPMF Division organized three sessions for the Polyolefins 2014 International conference. TPM&F was a partner in this conference, with the SPE South Texas section, PMAD Division and Medical Plastics Division. Attendance at PO was about 650 people.

Donna Davis developed and chaired a session on “Polyolefins Targetting Engineering Applications” (held on Tuesday February 25, 2014 afternoon). Ananda Chatterjee organized and moderated his session on “Advancements in Polyolefin Film and Fiber Technology” (Tuesday morning). Gary Wilkes developed and moderated a session on “Polyolefin Rigid Packaging” (Wednesday morning).

All sessions were full (six papers each); most of the papers were invited. I appreciate the contributions of Donna and Gary in helping TPM&F toward the success of PO 2014 conference.

PO Education Report - Two scholarships (each \$1000) were presented at PO conference on behalf of TPM&F Division; the funds came from the proceeds of the conference. The first winner was Mr. Mau Truong of the University of Houston Downtown, where Mau is an undergraduate student in Chemistry. The other winner was Mr. Joshua Weed of Baylor University, Waco, TX, where Joshua is a

graduate student in Chemical Engineering. We wish Mau and Joshua continued success in their career. Both schools are part of the educational program of the South Texas Section.



TPC Ananda Chatterjee and scholarship winner Mau Truong



TPC Ananda Chatterjee and scholarship winner Mr. Joshua Weed

NEWSLETTER REPORT

by Xiaoxi Wang

Newsletter publication plan for the year 2013/2014

Oct 2013 (FOAMS[®]2013, BOD meeting, PO2014 promotion etc.)

March 2014 (PO2014, BOD meeting, ANTEC[®] preview, FOAMS[®]2014 promotion, etc.)

May 2014 (ANTEC[®]2014, BOD meeting, FOAMS[®]2014 promotion, etc.)

July 2014 (FOAMS[®]2014 promotion, Best Papers special edition: full-text papers for ANTEC[®] 2013, FOAMS[®]2013, and ANTEC[®]2014.



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COUNCILOR'S REPORT



The Fall Council Meeting was held in San Diego on November 16 and 17, 2013. Following is the summary from the meeting.

The following positions were stated as assumed through successive rotation. These are: President-elect Vijay Boolani automatically advances to become President. Current President Jon Ratzlaff automatically moves to Past President. Past President Jim Griffing will move off the Committee. Raed Al-Zu'bi's one-year term as Senior Vice President will complete at ANTEC®2014 and he has chosen not to run for office this year.

New Officers Election: Dick Cameron was elected by vote to the position of President-Elect. Scott Owens was elected as the new SPE Senior Vice President. Jamie Gomez was elected by ballot to the position of Vice President. Council also elected Sandra McClelland as a Chair for the Council Committee of the Whole (CCOW) for 2014-2015.

SPE Strategic Plan 2014-2016. CEO De Vos presented the elements of a detailed strategic plan for the society moving forward with a first draft available by the winter Executive Committee (EC) teleconference. CEO De Vos' presentation is available to Council on the SPE extranet.

Budget 2014. CEO De Vos reviewed the financial performance for October month and YTD (*document available on the extranet*). Revenues were mostly affected by a lower return from ANTEC®. Expenses were lower on membership mailings but significantly higher on events and other expenses. The primary reason with the event expenses is associated with pre-payment of expenses for the China TopCons. Operationally, we are over budget by \$142K. For October YTD, SPE operations are at a \$83K loss. The SPE cash position is down \$86K in October. CEO De Vos presented both the conservative and progressive budgets. A modified progressive budget (-\$86k) was approved by the Finance Committee and sent to the EC for approval. The EC approved this budget at the San Diego EC meeting. Upside revenue potential exist associated with website and SPE-Connect advertising. Investments in infrastructure and IT upgrades have increased expenses due to higher depreciation with a positive ROI coming later. Potential cost reduction actions include holding the fall Council meeting on-line instead of at a remote site. CEO De Vos reminded Council that the new rebate policy will in effect increase rebate payments. For 2014, SPE will still pay out rebates but will reduce the payment by 25% to help with the budget. Margie made a motion not to accept the budget as it stands. This original motion was later on voted with the nays in majority. The motion did not pass and the budget stands as presented.

Membership Update by Tom Conklin

The June drop reflects the membership clean-up as migration occurred to Enterprise system. Some of the other drops are associated with Enterprise migration downtime. The August membership drop is typical and associated with a large number of members with June renewal dates.

New Website Update

Council input was that the website is looking very good. Divisions and Sections will be able to manage the content and resources of their own websites as well as restricting content as desired.

Change-over process and timeline

Logo (*change over now for new events or printed materials*). Websites, emails, newsletters (*digital media*) – end of January 2014. Digital color change – end of June 2014. Can continue to use hardware (*signs, giveaways, etc.*) on

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THERMOPLASTIC MATERIALS AND FOAMS DIVISION BOARD MEETING MINUTES

Meeting Date: February 24, 2014

Location: Polyolefins 2014, Houston, TX

ATTENDANCE

Attending the BOD meeting in person: Donna Davis, Gary Wilkes, Lukas Stirnemann, Andy Chatterjee, Theresa Healy, Sal Monte, and Ajit Ranade and **Joined by phone:** Hani Naguib, Ashu Sharma, Dale Grove, Perry Vadhar, Ray Shute, Max Wingert, Stephane Costeux, and Xiaoxi Wang.

CHAIR REPORT — HANI NAGUIB

Congrats to the division for winning the Communications Award and the Pinnacle Award. So far, we do not have anybody filling the position of the Vice-Chair of the Division. Hani will send an email out and if anyone is interested, please let him know.

SECRETARY'S REPORT — LUKAS STIRNEMANN

Thank you to Theresa for the Minutes from the last meeting at the FOAMS® Conference in Seattle (*Sept. 10, 2014*). There was a vote to approve the minutes and the motion was approved..

FOAMS®2013 REPORT — VIPIN KUMAR AND XIAOXI WANG (*CHUL PARK, THERESA HEALY, GARY WILKES, AND MAXWELL WINGERT*)

Thank you to Vipin and Xiaoxi for running a very successful conference. Financially speaking, the conference was profitable. Total Registered Income was \$76,225.00. After expenses, the overall profit was \$33,762.90. Our division received 35% of that profit at \$11,817.01. Tutorials were one of the highest attended. Xiaoxi did a good job attracting Boeing and others to the conference. Chul recommended removing the word "Advances" in the FOAMS® title to be consistent so this year will be "12th International Conference on Foam Materials & Technology".

TREASURER'S REPORT — MAX WINGERT

(see page 5 in this newsletter).

PO 2014 TOPCON REPORT — ANDY CHATTERJEE/DONNA DAVIS

The Polyolefins 2014 appeared to be very well attended. Attendance is up from last year. Once the conference is over, the data will be compiled and a report will be sent. Andy Chatterjee said that the technical papers were good. TPM&F Division has organized three sessions for the SPE Polyolefins 2014 International conference. As in past, TPM&F is a partner in this conference, with the SPE South Texas Section and PMAD Division. Donna Davis has developed "Polyolefins Targeting Engineering Applications" (*to be held on Tuesday, February*

25, 2014 in the afternoon). Andy Chatterjee has organized a session on "Advancements in Polyolefin Film and Fiber Technology" (*Tuesday morning*). Gary Wilkes has developed a session on "Polyolefin Rigid Packaging". (*Wednesday morning*). All sessions are full (*six papers each*); most of the papers were invited. Andy appreciates the fine contributions of Donna and Gary in helping TPM&F toward the success of the PO conference. Andy requested ideas for topics for Polyolefins 2015. Our Division will be responsible for 3 sessions again. Some suggested topics include: Engineering Applications, Nanotechnologies, Processing Technologies, Flexible Polyolefins, Elastomeric Processing, Polyolefins Manufacturing Equipment, Sustainability in Polyolefins, Fluoroplastic Additives, Property Improvements of Polyolefins, Rigid Packaging, Fibers (*PP nonwoven*) and Non-wovens, Biomedical Applications-COC, State of the Art of FR Polyolefins, Food Packaging, and Multilayer Structures of Polyolefins (*HMS, coupling, nano-silver, anti-microbial, and efficiencies in Polyolefins*). Donna said someone could do a patent search on the future of Polyolefins and create a session around that. Maybe, we could have a session on PP, PE, Transport Properties in polyolefins-Barrier Films, Polyolefins in Flexible Electronics, and Advances in Manufacturing. Andy reminded us that we need at least 6 papers on each topic.

PO 2014 TOPCON BEST PAPER AWARD — GARY WILKES. Polyolefins 2014 - No way to accurately evaluate Best Paper with Parallel Sessions. Gary asked for a mechanism on how we can award best paper. Please send your suggestions to him. FOAMS®2013-Stephane Costeux-The Dow Chemical Company won the Best Paper. Award letter for payment is still pending. SPE ANTEC® 2014 – Planning in Progress; screening team being assembled SPE FOAMS®2014 – Planning in Progress; screening team being assembled

PO2014 TOPCON SCHOLARSHIPS — ANDY CHATTERJEE. (*see page 8 in this newsletter*).

continued on page 11

MEETING MINUTES - CONTINUED

ANTEC® 2014 — DALE GROVE

There are 26 papers/2 papers were rejected. There is still a lot of Scholar One Issues. You save your work and then it reverts back to the original without your changes. They are looking for another form to use for the future. In the preliminary program, there were a lot of mistakes which will be corrected. Dale mentioned he will handle the ANTEC® next year but that will be his last year. Hani thanked him for all the efforts and the papers look like excellent quality.

FOAMS®2014 REPORT — SAL MONTE, MAXWELL WINGERT, AJIT RANADE, CHUL PARK

Max is the Chair for this conference and Sal is the Co-chair and house chair, Ajit is our TPC, Theresa is our Sponsor Chair, and other Palisades section personnel will help out with this conference. Flyers were posted to our home page. We have a website with the Call for Papers and Sponsorships. Tutorials will go up. Chul created the tri-fold. Need to know who printed them out. Chul has the electronic copy. There were hard copies printed out of the Tutorial speakers. Joyce may have printed those. We will want to hand them out at ANTEC®. We want to advertise in the SPE programs for the FOAMS®. Send information to Dale to do the advertising stuff-Max to send the flyer. Who did it last year? Donna may have done it and she will look for it. 10-11 papers to date, Ajit and Max will go for target speakers. They are working with Miguel as well. They will have the SPE help us. Max said we are going to use SPE for registration and they will send someone in like they did in Seattle.

COUNCILOR'S REPORT — PERRY VADHAR

(see page 9 in this newsletter).

NEWSLETTER CHAIR REPORT — XIAOXI WANG

(see page 8 in this newsletter).

COMMUNICATION CHAIR REPORT — THERESA HEALY *(see page 3 in this newsletter)*

EDUCATION CHAIR REPORT — STEPHANE COSTEAUX. *(see page 4 in this newsletter).*

MEMBERSHIP CHAIR REPORT — AJIT RANADE
As of 2/14/14, there are 935 members. There are 31 new members since our last meeting. Two years ago there were 880 members. Perhaps the communication is attracting new members and keeping the existing members. Hopefully we will reach the 1,000 mark soon. Small work by every member is adding up.

TPM&F BY-LAWS — RAY SHUTE

We don't have a chair-elect. Send an e-mail to Ray or Hani if interested. Chair elect is good to have a succession plan but I am not sure if it is a requirement any longer for Pinnacle. Check Ray's last report for updates. Ray will resend his report and that will be the final chance to comments. As far as elections, if your term is up you can send an updated photo and 2-4 sentences as why we should vote for you. Check the newsletter on when your term is up. Seven people are up for this next election. Ray will send an email for those people up for the next election.

HSM/FELLOWS NOMINATIONS — DONNA DAVIS

We are awarding Professor Ohshima to Fellows. Perry is awarded the HSM Award -We want to thank Perry for all his hard work and dedication.

OUTSTANDING ACHIEVEMENT AWARD CHAIR REPORT — VIPIN KUMAR

Nothing to report-we will have an update at the ANTEC (Probably give the award at FOAMS® Conference)

INTERNATIONAL ACTIVITIES REPORT — MIGUEL PEREZ AND LUKAS STIRNEMANN

Nothing to report.

NEW/OLD BUSINESS-Nothing to report.

NEXT BOARD MEETING:

5:00-7:00pm-Sunday April 27 in Las Vegas (*might move from 4-6*) we will check with the timing of the awards.

Meeting adjourned- 9:34pm

*Respectfully submitted,
Lukas Stirnemann
TPM&F Division Secretary*

on stock until December 2014. New polo shirts will be available with new identity. Black and Green polo shirts made from 100% recycled PET bottles. Divisions and Sections to order quantities for sell to their membership. Price for Division and Sections is \$35 each with a member price of \$39.95 each. Staff will send the shirt artwork to the Sections and Divisions to ask their boards for ordering approvals.

[New Topcon Policy 30 \(W. De Vos\)](#)

Applied to all conferences with gross sales in excess of \$25K. Royalty to SPE HQ is 12% of gross revenue. SPE will provide services if wanted. Added SPE HQ insurance as part of extended services for the event. Limited services are primarily for sites that are far from Newtown (*India, Dubai, etc.*) and also for groups with one day event/non-conference with revenue more than \$25K not requiring registration processes, 6% of gross will be applied.

[Removed from the gross revenue calculation are:](#)

Tutorial registration Proceedings must be sent to SPE HQ (Tom Conklin) for upload to the technical library made available 6 months after conclusion of the conference with any sales of those proceedings being returned to the Division/Section. Up to \$5000 for scholarships if paid through SPE Foundations. Losses up to \$10k will pay a 6% royalty based on conference revenue. Losses greater than \$10k will not pay royalty. Policy implementation will now be June 30, 2014 (*moved back from January 1, 2014*)

[Committee Reports](#)

Council approved the following:

Merger to form Eastern New England.

A new section to be called the ASEAN Section.

The formation of a student chapter at the University of Alabama, Birmingham and at the University of Connecticut.

Perry Vadhar

TPM&F Division Councilor

FOAMS® 2014 TUTORIALS

September 8-9, 2014

Instructors:

Dr. S.T. Lee

Prof. Chul B. Park

Prof. Hani E. Naguib



Co-sponsored by the TPM&F Division and Palisades-New Jersey Section of the Society of Plastics Engineers

Purpose & Review

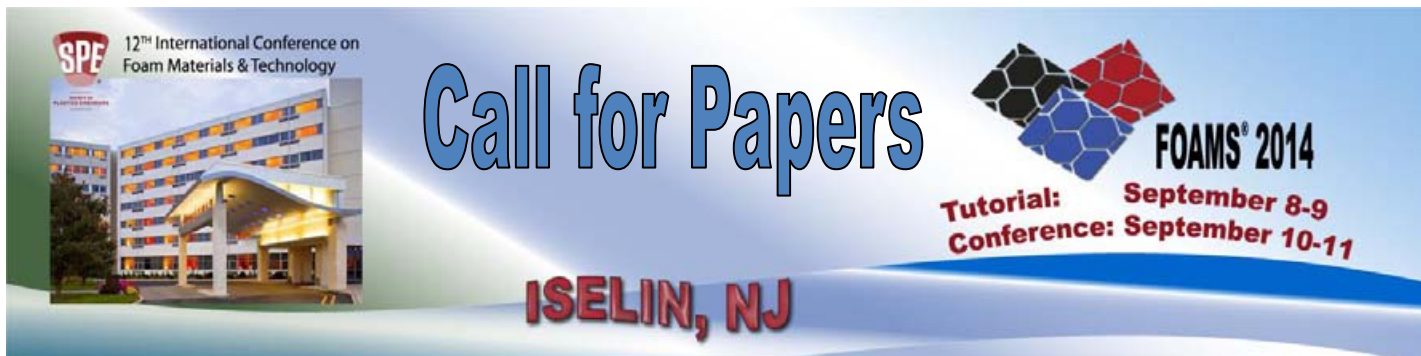
This tutorial will provide practical information that will help you enhance your technical capability in foaming. It will help you develop new blowing agents to meet the growing challenges, design foam products that meet customer's needs, improve effectiveness of your foam R&D and processing projects. The attendee will also receive updated key references on plastic foams.

Who should attend?

This tutorial is intended for a range of companies and individuals involved in thermoplastic foam development, production, and applications: R&D scientists and engineers, formulation scientists, process engineers, quality engineers and application engineers from thermoplastic foam production and manufacturing companies. Chemists and chemical engineers involved in development of foaming grade resins and blowing agents. Foaming equipment manufacturing: design engineers, project engineers, and rheology specialists. Development engineers and research scientists working on new foam developments. Foam users and application specialists.

Tutorial Contents

- ◆ How to apply scientific principles to improve the existing foaming technologies
- ◆ The chemical, rheological and mechanical aspects of foam extrusion
- ◆ Microcellular foam evolution
- ◆ Strengths and weaknesses of thermoplastic foam products
- ◆ State-of-the-art foaming technologies



12th International Conference on Foam Materials & Technology
Co-Sponsored by the Palisades-NJ Section & TPM&F Division
The Society of Plastics Engineers

Tutorial September 8 - 9, 2014
Conference September 10 - 11, 2014
Iselin, New Jersey USA

The FOAMS[®] 2014 conference is planned to address the advances in synthesis, characterization, and properties of polymer foams by leading foam researchers in industry and academia. This conference is the premier forum for sharing ideas and learning about new developments in foaming technologies due to the diversity of the attendees.

As an accomplished technical and business leader in polymeric foams, we invite you to give a technical presentation at this conference. Please consider contributing an original paper on technical or business aspects of your recent, significant developments in thermoplastic foams. The submitted papers will be carefully reviewed. The criteria for selection of papers will be based on significant –developments that will bring benefits to the foam industry with highest quality and originality. The best papers will be selected and announced in January 2015. If you have any questions regarding the abstract, topics, or deadlines, please contact Ajit Ranade. We look forward to your participation. Thank you,

Maxwell Wingert, Conference Chair, Procter and Gamble
 Sal Monte, Conference Co-Chair, Kenrich Petrochemicals
 Ajit Ranade, Technical Program Chair, Sonoco Corporation

Papers are invited on the following topics:

- **Polymer Foam Sustainability** (including bio-based or biodegradable materials)
- **Foaming Technologies** (including extrusion, steam chest molding, or injection molding)
- **New Materials, New Properties** (including blowing agents, new advanced foams, or nano-cellular foams)
- **Applications** (including packaging, automotive, aerospace, building/construction, medical, or consumer products)

Timeline for FOAMS[®] 2014 technical presentations:

- **May 15, 2014** – Abstract due.
- **June 1, 2014** – Notification of accepted abstracts to all authors
- **July 1, 2014** – First version of the paper to be sent to Ajit Ranade (ajit.ranade@sonoco.com)
- **August 1, 2014** – Final version of the paper with any revisions due.
- **September 10, 2014** – FOAMS[®] 2014 Conference

Please send your full contact information, the title and 100-150 word abstract of your paper by May 15 to:

Ajit Ranade ajit.ranade@sonoco.com



FOAMS® 2014 – 12th International Conference on Foam Materials & Technology
FOAMS® 2014 Conference: September 10-11, 2014 – Tutorial: September 8-9, 2014
Co-Sponsored by the Palisades-NJ Section & TPM&F Division of Society of Plastics Engineers

Renaissance Woodbridge Hotel · 515 US Highway 1 South, Iselin, New Jersey, 08830 USA · Tel: 1-732-634-3600
 Renaissance Woodbridge Hotel for \$159.00 USD per night – Book your group rate: Mention SPE-FOAMS Conference 2014 or [CLICK HERE](#) to go to link.

EXHIBITOR/SPONSORSHIP REGISTRATION FORM

Contact/Attendee: _____ Company: _____
 Address: _____
 City/State/Zip: _____ Phone # () _____
 Fax #() _____ Email Address: *(please print legibly)* _____

- I wish to be a **Gold Sponsor** for \$2,000.00 *(Includes tabletop, one free registration, reception, company logo on poster, submission of logo on website, incorporation of logo in two "Plastics Engineering" ads, announcement of Gold Sponsorship during conference, and submission of literature to attendees during registration process)*
 - I wish to be a **Coffee Break Sponsor** for \$1,500.00 *(Includes one free registration, tabletop, reception, announcement of sponsorship during coffee break, company logo on poster and website, and incorporation of logo in two "Plastics Engineering" ads).*
 - I wish to be an **Exhibitor** for \$1,200.00 *(Includes a tabletop, one free registration, reception, company logo on poster and website, and incorporation of logo in two "Plastics Engineering" ads).*
 - Please charge my Credit Card \$ _____ Enclosed is my Check for \$ _____
 Card # (Amex/Visa/MC) _____
 Exp. Date: ____ / ____
- Authorized Signature: _____ Date: ____ / ____ / ____

-Confirmation of Registration will be emailed once received. Set-up information will be emailed 2weeks prior to the FOAMS® 2014 Conference.

Questions about Exhibiting/Sponsorship?

Email: Theresa Healy, Reedy International Corp. at thealy@reedyintl.com (Tel: +1- 732-264-1777/Fax: +1-732-264-1189) or Sal Monte at sjmonte@4kenrich.com (Tel: +1-201-823-9000/Fax: +1-201-823-0691)

Questions about Registration?

SPE Customer Relations, Society of Plastics Engineers, 13 Church Hill Rd., Newtown, CT 06470 or Phone: +1-203-740-5403
 Fax: +1-203-740-8490 -Email: conferences@4spe.org

Questions about the Conference?

Dr. Maxwell Wingert, Procter & Gamble at mw4spe@yahoo.com (Tel: 513-634-2832)

All FOAMS® 2014 Conference Exhibitor / Sponsorship Registrations must be made on/before August 23RD, 2014

Mail Registration Form & Check *(make check out to: FOAMS® 2014 Conference Sponsorship)* to:
 Theresa Healy, Reedy International Corporation, 25 E. Front Street, Keyport, NJ 07735

– Or –

Fax/Email Exhibitor/Sponsor Registration Form & Credit Card payment to: Fax: +1-732-264-1189/thealy@reedyintl.com

Additional FOAMS® 2014 Information & Conference Registration can be obtained via:
 SPE Website: www.4spe.org