

TPM&F

Thermoplastic Materials & Foams Division

A divisional newsletter of the Society of Plastics Engineers



VOLUME 4
2010/2011
JUNE ISSUE

DIVISION OFFICERS

Chairman

Kelvin T. Okamoto
Cereplast
Mobile: 847-271-9285
Skype: ktokamoto
Kto4SPE@mac.com

Secretary

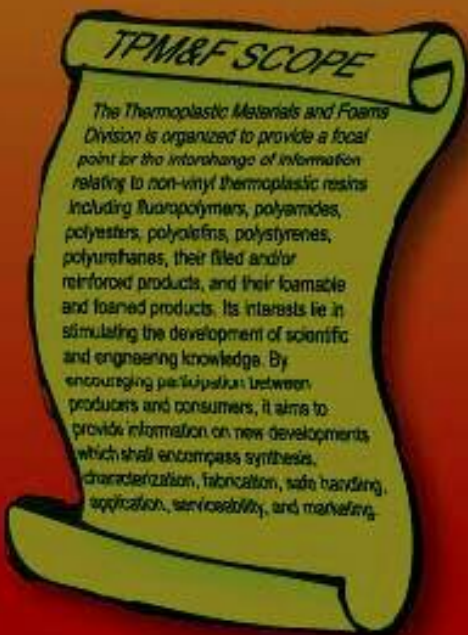
Ellen Phillips
Diamond Polymers
1353 Exeter Road
Akron, OH 44306
330-773-2700 phone
330-773-2799 fax
eaphillips@aol.com

Treasurer

Maxwell Wingert
Proctor & Gamble
513-634-2832 phone
mw4SPE@yahoo.com

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



CHAIRMAN'S MESSAGE



This is my final message as Chairman of the Society of Plastics Engineers (SPE) Thermoplastic Materials & Foams (TPM&F) division. I thank all of your dedicated board members over the past two years for their exceptional support and to you the members for allowing me to serve as your chairman. I hope that the changes that have been made over the past two years have allowed TPM&F to serve you better.

Perry Vadhar of Sealed Air is the incoming Chairman with his tenure to start on July 1st; I am sure that Perry will continue the evolution of the TPM&F division.

The TPM&F BOD has two new BOD members: Xiaoxi Wang and Neil Witten; a short bio on both BOD members is inside this newsletter issue. Congratulations to both Xiaoxi and Neil along with the five re-elected BOD members: Hani Naguib, Masahiro Oshima, Chul Park, Ashutosh Sharma and Ray Shute. I must also say a special thank you and best wishes to the retiring TPM&F BOD members: Scott Lambert, Ellen Phillips, Michael Reedy and Wen Wu. Each will be missed for their discussions and support; Scott is the outgoing newsletter editor, Ellen is the outgoing secretary, Wen is a long-time past treasurer and Michael has been instrumental in the FOAMS® TopCons and the new communications chair. I also would like to thank the other TPM&F members that were not elected and to encourage them to continue working with the division and increase their visibility for future elections.

I am also proud to announce that TPM&F was awarded two honors during the ANTEC® awards luncheon on Sunday, May 1. The first award is the Pinnacle Gold Award for the overall activities of the division; TPM&F has been awarded this honor several years in a row. TPM&F was also awarded the Special Recognition level of the Communications Excellence Award for all its activities that have led to increased interest in working with the division and its board, highlighted by the interest of several new individuals to step onto the board. All of your board has had a hand in gaining TPM&F this recognition.

Sincerely,

Kelvin T. Okamoto

Chairman, Thermoplastics Materials & Foams Division, SPE



BOARD OF DIRECTORS

AS OF MAY 1, 2011

Camilo Cano (2013)

Pactiv Corp.
585-393-5189 phone
ccano@pactiv.com
Membership Chair

Ananda (Andy) Chatterjee (2012)

IngeniaPolymers Group
713-296-1516 phone
achatterjee@ingeniapolymers.com
TPC-PO 2011

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

Theresa Healy (2012)

Reedy International Corporation
732-264-1777 phone
732-264-1189 fax
thealy@reedyintl.com
Communications Co-Chair

Vipin Kumar (2013)

University of Washington
Dept. of Mechanical Engineering
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@kenrich.com

Hani Naguib (2011)

University of Toronto
416-978-7054 phone/fax
naguib@mie.utoronto.ca
TPC-ANTEC *

Masahiro Ohshima (2011)

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
Chairman

Chul B. Park (2011)

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

Ellen Phillips (2011)

Diamond Polymers
330-773-2700 phone
330-773-2799 fax
eaphillips@aol.com
Secretary



N.S. Ramesh (2012)

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

Miguel Rodriguez-Perez (2012)

University of Valladolid
34 983184035 phone
34 983423192 fax
marrod@fmc.uva.es
TPC-FOAMS 2011

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 (2011)

Flint Hill Resources
316-828-8716 phone
845-489-6313 cell
ashutosh.sharma@fhr.com
Councilor

Raymond J. Shute (2011)

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
Best Paper Chair

Perry Vadhar (2013)

Cryovac Division/Sealed Air Corp.
864-433-2086 phone
864-433-2560 fax
perry.vadhar@sealedair.com
Chair-Elect, Education Chair

Xiaoxi Wang (2014)

MicroGREEN Polymers, Inc.
360-435-7400 x 112 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



EDUCATION CHAIR REPORT

TPM&F Board Meeting
May 1, 2011

NEXT WEBINAR SERIES

Based on the success of the first two webinar series, TPM&F Division should consider and plan for next webinar series on Biofoams. The series can be possibly offered prior to FOAMS® 2011.

The objective of the Biofoams series is to cover topics on monomers, polymers and applications. Proposal is to identify speakers from various companies including Purac, Synbra, NatureWorks, Cereplast, BASF, Mirel, and Microgreen. Also include speakers from the Universities to cover fundamentals on processing of biopolymers. Possible speakers from the TPM&F board can be Vipin, Hani and Chul.

CONSULTANTS' CORNER

Dr. Hani Naguib has agreed to provide support at Consultants' Corner. Dr. Chul Park is an alternate consultant on Foams in case there is a conflict.

2011 TPM&F SCHOLARSHIP

The total TPM&F Scholarship for this year is \$2,500. This includes donation from \$1,000 Walter Schrenk.

STUDENT ACTIVITIES

The TPM&F Division has donated \$2,000 (Platinum Sponsorship) for ANTEC® student reception scheduled on May 4th.

Perry Vadhar
Education Chair



Committed to the Future of Plastics

SAFOAM®/SAFTEC® Advanced Additive Solutions
Process Time Improvements
Energy Savings
Reduction in Part Density
Overall Cost Savings

25 E. Front Street
Keyport, NJ 07735
Ph: 732-264-1777
Fax: 732-264-1189



www.reedyintl.com



MEET YOUR BOARD MEMBERS

XIAOXI WANG, PHD



Xiaoxi Wang received his PhD in Mechanical Engineering from University of Washington in 2007. He also holds Master and Bachelor degrees in Materials Science and Engineering from Huazhong University of Science and Technology.

Dr. Wang is Senior Scientist in MicroGREEN Polymers, Inc. His research is on solid-state foaming of semi-crystalline, biodegradable, and composite polymers, commercialization of solid-state foaming, and recycling for solid-state PET foams. Dr. Wang led numerous product development projects which created direct revenue over \$2 million. In addition to directing industrial projects, he is also Principal Investigator for a NSF sponsored 3-year project "Continuous Production of Lightweight and Energy Efficient Solid-State Microcellular Panels from Recycled PET", to develop a commercially viable process to produce microcellular RPET panels with a size up to 1/4" x 5'x10'.

Dr. Wang has produced over 20 publications for major journals and international conferences, numerous research reports, 7 US patent invention disclosures and 4 US patents.

Dr. Wang is an active member of SPE. He was in the committee for Foams 2010 conference. He is President-Elect and Technical Program Chair for SPE Northwest Section. He is also serving as the Newsletter Editor for Thermoplastic Materials & Foams Division. His current term in Board of Director will end in 2014.

NEIL WITTEN PHD, BSc (Hons), MBA, FIMMM



Neil has over thirty years of working experience in the plastics and rubber industry and currently runs his own consultancy business, Crosslink Technical Consulting Ltd, offering technical development support and advice to the polymer foam industry and wider plastic materials community.

For 14 years, Neil was Director of Technology & Development at Zotefoams plc (UK), during which time he led the development of many crosslinked polyolefin foam products and customer development support programmes. He also inspired and directed the successful development of a range of new, differentiated high performance foams from polymers such as Polyvinylidene Fluoride and Nylon. As part of his role at Zotefoams, he became familiar with just about every foam and foam process technology available.

Prior to that Neil had many years working in polymer R&D with Cookson Group plc at the Cookson Technology Centre in Oxfordshire (UK), advising subsidiary companies of the group in many aspects of structure / property relations and product / process development. Before that he spent a number of years with ICI plc at the Wilton Materials Research Centre in Cleveland (UK) where he developed specialist knowledge in the fields of polymer tribology, polymer processing and materials testing.

Neil has presented at many major conferences and has several patents to his name. He holds a first degree in Materials Science, a PhD in the field of melt impregnation in thermoplastic composites, a Masters in Business Administration (MBA) with distinction and is a Fellow of the Institute of Materials, Minerals and Mining (IOM3).

More details of his professional background can be found at the company website at <http://www.crosslinktechnical.co.uk/about.html> or on LinkedIn at http://www.linkedin.com/profile/view?id=12608355&trk=tab_pro



NEXT BOARD MEETING:

SEPTEMBER 13, 2011

ISELIN, NEW JERSEY

Our next Board meeting will be held on Sept. 13 at the Renaissance Woodbridge Hotel, Iselin, NJ.

All members are invited to attend.

For those attending the Board Meeting please R.S.V.P. to perry.vadhar@sealedair.com



INCOMING CHAIR REPORT PERRY VADHAR

Dear Fellow Members;

It is a great honor for me to serve as your next Thermoplastic Materials and Foams Division Chairman starting July 2011 to June 2013. First let me thank our outgoing Chairman, Dr. Kelvin Okamoto, who has done a great job in the past two years running the division and holding successful Topcons and other activities that have certainly benefited our members. This is the first time our division has won not one, but two awards – these are the Pinnacle Gold Award and the Communications Excellence Award.

As for my background, I work at Sealed Air Corporation in Duncan, SC in the Technology & Innovation Group. I joined the TPM&F board in 2003 as the Best Paper Chair. I would like to thank my former colleague and Board member, Mr. Gautam Shah, who encouraged me to join this Board. I also want to thank my colleague and past Chairman, Dr. N. S. Ramesh, for nominating me as Chair.

I would like to thank several of our outgoing board members for their long years of service. They are Dr. Wen Wu, Mr. Michael Reedy, Dr. Scott Lambert, and Ms. Ellen Phillips. We will certainly miss them on the Board.

The Board has elected Dr. Hani Naguib as our next Chair-Elect. He has also agreed to take on the position of Education Chair. Professor Naguib is most suitable for this position due to his background in academia. He will bring some new ideas to further strengthen our commitment for education.

It is my pleasure to inform you that we have two new people joining the Board from the recent election carried out by Mr. Ray Shute. They are Xiaoxi Wang and Neil Witten. Xiaoxi has already taken over responsibility as the Newsletter Chair. Neil will certainly assist the Board with planning and coordinating international activities.

Please welcome our new ad hoc member, Mr. Dale Grove who has served on the Composites Board in the past in various capacities. Dale has agreed to serve as our Best Paper Chair. I also want to thank Mr. Lukas Stirnemann who has agreed to take over the open position of Secretary.

Kelvin Okamoto has volunteered to review and update the bylaws for the TPM&F division. The bylaws have not been updated for some time and with the changes in the Board membership and the new ways we communicate today with our members on the web, it makes good sense to update our bylaws.

The TPM&F Division sponsored several successful sessions at ANTEC® 2011 held in Boston in May. The session on Biofoams had excellent international participation. Thanks goes to Dr. Hani Naguib for his hard work for soliciting papers and organizing the technical program.

The 2011 TPM&F Outstanding Achievement Award was presented to Professor Don R. Paul. A reception was held at ANTEC® to honor Professor Paul on May 3. A special thanks goes to Professor Vipin Kumar for nominating Professor Paul's name and coordinating this event.

The TPM&F Division will cosponsor FOAMS® 2011, along with the Palisades Section of NJ at the Renaissance Woodbridge Hotel, Iselin, NJ. Dr. Miguel Perez, Technical Program Chair, has done a great job in soliciting many international papers for this conference. There will be a two-day tutorial (Sept. 12-13) followed by the conference on Sept. 13 and 14. Please mark your calendar and make plans to attend this conference.

Our next Board meeting will be held on Sept. 13 in NJ. I will provide more information once the details are finalized for the meeting. We need your help and feedback to successfully grow our membership within the TPM&F industry. Please contact me, or any of our Board members, if you are interested in extending your help or ideas.

I look forward to your continuing support for our division.

Perry Vadhar perry.vadhar@sealedair.com Ph: 864 433 2086

TPM&F BOARD MEETING MINUTES

ANTEC® 2011, BOSTON, MA MAY 2, 2011



In Attendance: Sal Monte, Erika Monte, Vipin Kumar, Hani Naguib, Kelvin Okamoto, Perry Vadhar, Donna Davis, Chul Park, Ashu Sharma, Dale Grove, Ray Shute, Lukas Stirnemann and Max Wingert.

Joining by Teleconference: Andy Chatterjee, Theresa Healy, Camilo Cano, Wen Wu, Miguel Rodriguez-Perez, N.S. Ramesh, and Eric Teoh.

Welcome and Opening Remarks – Kelvin Okamoto. This is going to be Kelvin's last meeting and then Perry will take over as Chair. Good news to report: The division was awarded the Pinnacle Gold this year. Congratulations! There was a Communication Special Recognition Award for various work done through several vehicles to attract new members, webinars, student posters, receptions, Linked-In Subgroup and newsletters. Congrats to Kelvin for doing such a wonderful job as Chairperson for our division and congrats to Perry for taking over as the incoming Chair.

Secretary's Report – Ellen Phillips. The minutes from the Polyolefins Meeting were approved. Since Ellen has resigned, the secretary position needs to be filled in early July. The position involves someone taking the notes and communicating those notes to the board. Lukas showed his interest in this position. A motion was passed to have Lukas Stirnemann take over the job of Secretary.

Treasurer's Report – Max Wingert. Financial Summary:

- 1) FY2011 budget: Income \$19,000; Expenses \$23,200. Thus, TPM&F has a budgeted deficit of \$4,200.
- 2) First half of FY2011 actual transactions are: Income \$2,440; Expenses \$5,512.
 - a) The category "Other Expenses" has again exceeded its budget. Max recommended we increase its budget for FY2012. This year's biggest expense is the TPM&F members' reception at FOAMS®2010 in Seattle, WA
 - b) Max also recommended we revise groupings for educational and student expenses.
- 3) Most of TPM&F net worth resides in the SPE Investment Program. In the first half of FY2011, this paid out a 3% interest rate. As of today, the interest rate remains at 3%, but is subject to change before the end of FY2011.
- 4) Contact Max for any reimbursements. Don't forget to opt out of sales tax due to our IRS 501(c)(3) non-profit status. See Max ahead of time for help with that.

Many thanks to past treasurer Wen Wu for lots of advice and assistance. Max asked about the expenses in Orlando next year and any catered events so he can include them in the budget. A motion was passed to have Max Wingert re-elected for a one-year term as Treasurer.

Nominations Chair Report – Ray Shute. 50 votes came through in this last election. This is the highest turnout, however we still need to encourage all to vote. There were 15 out of 24 BOD members that voted. Michael Reedy recently resigned from the board. Congratulations to the seven people that were elected to the 2014 Board: Ashu Sharma, Chul Park, Ray Shute, Mashahiro Ohshima, Xiaoxi Wang, Hani Naguib, and Neil Witten. We are now down to 21 board members.

Chair-Elect – Perry Vadhar.

As Perry moves over to the next Chair position, Hani will take over as Education Chair. A motion was passed to have Hani elected as Chair-Elect when Perry becomes Chair for the TPM&F division for 2 years. Congratulations to Hani and Perry as we are confident they will do a great job!

-Open Positions 2011-2012:

ANTEC® 2012 – TPC-Donna Davis will be taking over as the TPC for ANTEC®2012. Next year's ANTEC® will be co-located with the NPE, the first week in April in Orlando, FL.

Newsletter Chair – Xiaoxi Wang will take over this position from Scott Lambert.

PO2012-TPM&F Chair- Need to still choose a person. Many members feel that Andy Chatterjee is the ideal candidate for this position.

Education Chair-A motion was passed to have Hani Naguib take over as Education Chair. A motion was also passed to have Hani elected as Chair-Elect when Perry becomes Chair for the TPM&F Division for 2 years.

Secretary-Since Ellen has resigned, the secretary position needs to be filled in early July. The position involves someone taking the notes and communicating those notes to the board. Lukas showed his interest in this position. A motion was passed to have Lukas Stirnemann take over the job of Secretary.

Best Paper Chair- Dale Grove has agreed to become next Best Paper Chair on Perry's request.

Bylaws Chair – Kelvin Okamoto. Kelvin plans to review TPM&F bylaws that have not been revised for some time.

PO 2011 – Andy Chatterjee

TPM&F SESSIONS - Two technical sessions are planned by TPM&F Division during PO2012 in Houston. Donna Davis is considering developing a session on PO in Building & Construction.

Ananda Chatterjee is planning to develop a session on PO in Rigid packaging or PO Foam. We have narrowed down to these sessions, after carefully considering the suggestions from TPM&F BOD on possible session topics.

NEW TPM&F CHAIR FOR PO2012 – Andy reported the following: There is no need for creating an extra Title like this. TPM&F for many years had a Liaison with the PO Committee. I have served numerous years continuously in this role, working as a strong team with Donna Davis. This is a full-year job. I am volunteering for this Liaison role for PO2012 also. There is already a Chair for the whole PO Conf. Other partners like PMAD, Flex Packaging do not have Chairs, but Coordinator/Liaison. TPM&F should operate consistently with the current practice in PO Conference organization.

ANTEC® 2011 Report

- 1) TPC Report-Hani Naguib- The TPM&F Division had 40 papers/talks in total divided in 6 sessions:
(2 Thermoplastic sessions and 4 Foams sessions).
Innovation in Foams (Monday afternoon)
- 2) PLA Foams (Tuesday Morning)
- 3) Advances in Engineering Thermoplastics Development (Tuesday Morning) as a parallel session.
- 4) New Resins Properties (Tuesday afternoon)
- 5) Foam Properties (Wednesday Morning)
- 6) New Foam Processing (Wednesday afternoon)

The Lifetime Achievement Keynote and presentation will take place during Tuesday morning breakfast session.

A division talk will be presented on Tuesday afternoon session by Kelvin and Perry on “Thermoplastics Materials and Foams Division: Present and Future”.

The TPM&F business meeting and member reception will take place on Tuesday afternoon following the afternoon session.

There were many overseas contributions for the ANTEC® papers (China and Iran). There was some concern about these speakers obtaining visas to travel, so we need to plan for a back-up plan going forward. These speakers have been pushed toward the end of the program. Vipin mentioned that he could step in as a back-up if needed.

Student Activities – Perry Vadhar.

TPM&F Division has donated \$2,000 (Platinum Sponsorship) for ANTEC® student reception scheduled on May 4th.

OAA Activities – Vipin Kumar.

Vipin mentioned that we need to choose next person for the Outstanding Achievement Award by the end of the year. We need to start considering nominations for this award.

HSM/Fellows Nominations – Donna Davis.

TPM&F was successful in our nomination of Andrew Peacock to Fellow.

Best Paper Review – Lukas Stirnemann.

Lukas reviewed 40 papers. He made up charts and picked 5 from each category (5 from Polyolefins/5 from Foams)

FOAMS® 2011 Report – Sal Monte

Sal mentioned that we are on target for the hotel, sponsorship, hotel, etc... We are just waiting for the technical program to come together. Miguel informed us that there are 8 papers (3 from US/5 Europe). We do need about 20 papers so he suggested there should be another “Call for Papers”. As for the Tutorial, ST Lee would be one of the teachers in place of Ramesh. The biographies will be posted on the SPE website for the FOAMS® 2011. Kelvin mentioned that Dan Roberts showed interest in being a Key Note Speaker for this conference and Kelvin will check with Nicole Whiteman. Miguel also suggested he get a list of speakers at the ANTEC® so he can solicit these speakers to see if they would be interested in giving a paper at the FOAMS®. Hani will send that list to Miguel. The deadline for submitting abstracts is June 1st. Chul Park said he would push to get papers. Kelvin mentioned that he will coordinate the 1 gig flash memory drive. The content needs to be in by 8/15. Sal mentioned that we will start having monthly conference calls starting at the end of May.

PO 2012 Report– Andy Chatterjee/Donna Davis.

There was some discussion about the allocation of shares for this conference; more discussion to follow. Donna suggested that planning needs to begin now on the Polyolefins 2013 and there needs to be firm positions established by the end of the year.

Education Chair Report – Perry Vadhar.

Next Webinar Series

Based on the success of the first two webinar series, TPM&F Division should consider and plan for next webinar series on Biofoams. The series can be possibly offered prior to FOAMS®2011. The objective of the Biofoams series is to cover topics on monomers, polymers and applications.

Proposal is to identify speakers from various companies including Purac, Synbra, NatureWorks, Cereplast, BASF, Mirel, and Microgreen.

Also include speakers from the Universities to cover fundamentals on processing of biopolymers. Possible speakers from the TPM&F board can be Vipin, Hani and Chul.

Councilor's Corner. Dr. Hani Naguib has agreed to provide support at Consultants' Corner. Dr. Chul Park is an alternate consultant on Foams in case there is a conflict.

2011 TPM&F Scholarship

The total TPM&F Scholarship for this year is \$2,500. This includes donation from \$1,000 Walter Schrenk.

Future FOAMS TopCons– Kelvin Okamoto. Kelvin did put a

post on Linked-In about having FOAMS® in Europe but he did not receive many replies. Some members did not even see the post. There was some suggestion about having a class or webinar on “Linked-In Tips”. We need to have a future discussion about this as it takes longer to find a venue in Europe than the US. Kelvin will send an e-mail for discussion at the FOAMS® 2011 Topcon in the Fall. We need to talk with Karen Hately and Ken Braney and get their input. The FOAMS® will be in NJ this year and every 3 years in order to avoid any conflict with the Vinyltec® conferences.

Councilor's Report – Ashu Sharma. Ashu reported that they had a committee and council meeting where they discussed continuing to work on strategic planning and that the division is moving in the right direction. The operation plan is being put together. The Society as a whole is in the black and we are doing financially better due to best practices. Ashu also mentioned that we continue to stay within the approved budget (\$1500). There was some discussion about Miguel acting as a proxy if Ashu couldn't make the future Barcelona meeting, however it looks like Ashu is going to be attending. Sal will be another backup person as he plans to attend Eurotec.

Communications Report – Theresa Healy/Mike Reedy. Theresa reported that the SPE subgroup TPM&F is growing and she thinks we need to continue to update members on upcoming conferences on the site along with using the SPE site. This prompted discussion about how to work the tools on Linked-In and many members feel people would benefit from being educated about how to work “Linked In”. Xiaoxi Wang could not attend this meeting, however he is taking over the Newsletter position from Scott Lambert.

Membership Chair Report – Camilo Cano.

Camilo will look into the idea that was given by Dale Grove who offered some insight into gaining new membership. In his Composites Division, they were #1 between August and February for growing new members. They increased membership by 156%. They asked each member to find 5 new quality recruits. The division paid for the new members for the 1st year and had a 91% retention for renewals. This is a key finding to consider for increasing new membership. Camilo to inform the list of new members who have joined our division so Xiaoxi Wang can publish this in next newsletter.

New Business – Kelvin mentioned that he spoke to Marjorie Weiner of PlastiVan who asked the division to help sponsor middle school students at Epiphany School in S. Boston which is a private school of disadvantaged students. They are fully funded by endowments, etc...They are requesting \$500-\$1000.00 for this program. A motion was approved to donate \$1,000.00 for the Plastivan Epiphany School and payment will be made today.

FUTURE WEBSITE: Donna Davis suggested we should think about outsourcing the initial development of the website to jump start it. **CONGRATULATIONS TO KELVIN FOR HIS FANTASTIC JOB AS A CHAIRPERSON OF THIS DIVISION.** Kelvin thanked everyone for their continued support for the past 2 years. Perry will take over in this position and Hani will be Chair-Elect.

EVERYONE THANKED WEN WU FOR 24 YEARS (LAST 10 AS *TREASURER*) OF OUTSTANDING SERVICE WITH THE BOARD. This was his last BOD meeting. We sincerely wish Wen all the best now and in the future.

Meeting was adjourned at 11:00am.

ANTEC® 2011 WRAP-UP

This year ANTEC® 2011 took place in Boston, MA. May 1-5, 2011 and it was a great success to SPE and the TPMF division. The TPMF division has received 40 technical papers in total, from both academia and industry; and by North American and international speakers. We had six sessions that cover all aspects of Thermoplastics Materials and Foams including: Innovation in Foams, PLA Foams, Advances in Engineering Thermoplastics Development, New Resins Properties, Foam Properties, New Foam Processing. The Lifetime Achievement award was presented to Prof. Don Paul from the University of Texas Austin. The current chair and chair elect of the division presented a talk on the Present and Future of the Thermoplastics Materials and Foams Division.

Hani Naguib

ANTEC Chair for TPM&F Division



Don Paul receiving his ANTEC® Award



SEPTEMBER 14-15, 2011

Sponsored by the TPM&F Division and
the SPE Palasades-NJ Section
of the Society of Plastics Engineers

Location: Renaissance Hotel, Iselin, NJ

FOAMS® 2011 COMMITTEE:

General Chair: Salvatore J. Monte
sjmonte@4kenrich.com, Kenrich Petrochemicals, Inc.

Conference Co-Chair: Rich Bradley
rbradley4shawchem@gmail.com Shawnee Chemicals, Co.

Technical Program Chair: Miguel Angel Rodriguez-Perez
marrod@fmc.uva.es University of Valladolid

Sponsorship Chair: Theresa Healy
thealy@reedyintl.com Reedy International

Tutorial Chair: Chul Park
park@mie.utoronto.ca University of Toronto

Student Paper Chair: Max Wingert
wingert.m@pg.com, Procter & Gamble

Best Paper Award: Lukas Stirnemann
Lukas.Stirnemann@sulzer.com Sulzer

Treasurer: Joe Groder
plastiguru@aol.com Consultant

Advisory Committee:

Vipin Kumar, vkumar@u.washington.edu
Lesley Kyle, lskyle@4spe.org
Hani Naguib, naguib@mie.utoronto.ca
Kelvin Okamoto, Kto4SPE@mac.com
N.S. Ramesh, n.s.ramesh@sealedair.com
Ray Shute, rshute@cortechfoams.com

**FOAMS® 2011 TUTORIAL
SEPTEMBER 12-13, 2011**

FOAMS® 2011 STUDENT POSTER CALL FOR PAPERS

The FOAMS® 2011 student poster session is seeking graduate and undergraduate students doing research that relates to polymer foam.

The students will receive:

Free admission to the conference in Iselin, NJ (Sept 14 & 15)
A chance to win a \$250 award for Best Poster, to be awarded on Day #2 (Sept. 15). Opportunities to gain new ideas and network in the field of foams

How to participate:

Submit list of authors, title of poster, and 100-200 word abstract by **July 8** to Maxwell Wingert at mw4spe@yahoo.com (you will receive an email from Maxwell concerning poster mounting details)

Create a poster that will fit in a 48" wide by 36" tall space. Print your poster and bring it to the first day of the conference (Sept. 14)

Questions?
Contact Maxwell Wingert at
mw4spe@yahoo.com



FOAMS® 2011 HOTEL INFORMATION

Room reservations must be made before August 26th, after which normal hotel room rates will apply.

Call and mention the special SPE FOAMS® 2011
Conf. & Tutorial rate of US \$145/night + taxes:
Renaissance Woodbridge Hotel & Conference Center
515 Route 1 South & Gill Lane
Iselin, New Jersey (NJ) 08830
Toll Free: 1-800-468-3571
Phone: 732-634-3600 Fax: 732-634-0258

<http://www.marriott.com/hotels/travel/ewrwd-renaissance-wood-bridge-hotel/>

Rate applies for single or double occupancy. Cancellation policy is by 6:00pm the day of arrival. Check-in time is 3:00pm & after.

DAY 1: Wednesday, September 14th, 2011

SESSION 1: INNOVATION IN FOAMS - PART ONE

Polymeric Foams for Oral Drug Delivery - A review
G. Terife, N. Faridi, P. Wang, C. G. Gogos, New Jersey Institute of Technology, USA

Supercritical Foaming of Hydrophilic Polymers and Role of Cellulose Nanofibres in the Foaming process
J. Dlouhá, H. Yano, Kyoto University, Japan.

Novel Thermoplastic Foams for Electronic Packaging Applications
E. Chan, S. N. Leung, M. O. Khan, H. Naguib, F. Dawson, and V. Adinkrah, University of Toronto, Canada

SESSION 2: NEW FOAMING TECHNOLOGIES AND ANALYSIS OF FOAMING TECHNOLOGIES

Advanced Extrusion Systems in the Thermoplastic Foam Industry Optimized Twin Screw Concepts
J.P. Strasser, J. Kranzhoff, S. Strasser, Aixfotec, Germany

Production of Structural Foams Using Free Foaming. In-situ Analysis of the Foaming Process
M.A. Rodriguez Perez, J. Escudero, J. Pinto, E. Solorzano, CellMat, University of Valladolid, Spain

Double Melting Endotherms of Polyethylene Terephthalate (PET) for Expanded Bead Foams
M.R. Barzegari, M. Nofar, C. B. Park, University of Toronto, Canada

New Developments with Physical Foaming System "StielerSmartFoam"
Ulrich Stieler, Stieler Kunststoff Service, Germany

Steam Chest Molding of Expanded Polypropylene Bead Foam: Fundamental Issues
W. Zhai, C. B. Park, Chinese Academy of Sciences, University of Toronto, China and Canada.

Under Pressure Rheological Study of Molten Polyamide 66 Containing Dissolved Gas
C. Cocquet, Lise Trouillet-Fonti CNRS, France

DAY 2: Thursday, September 15th, 2011

SESSION 3: MICRO AND NANO FOAMS & NANOCOMPOSITES

Thermoplastic Nanocellular Foams with Low Relative Density Using CO₂ as the Blowing Agent
S. Costeux, The Dow Chemical Company, USA

Preparation of Polypropylene Nanocellular Foams by Controlling their Crystallinity with CO₂ and Crystal Nucleating Agent
H. Shikuma, M. Ohshima, Kyoto University, Japan

PMMA Based Nanocellular Foams with Low Relative Densities
J. Pinto, M.A. Rodriguez-Perez, J.A. de Saja, M. Dumon, R. Garcia, C. Dietz, CellMat, University of Valladolid, Spain

Effect of Transesterification at Interface Between Bisphenol A Polycarbonate (PC) and Polyethylene Terephthalate (PET) Domains on Micro/Nano Cellular Foam of their Blends
P. Gong, M. Ohshima, Kyoto University, Japan

Preliminary Experiments towards Thin Microcellular PC and PEI Films
B. Aher, R. Montecillo, and V. Kumar, University of Washington, USA

LDPE Microcellular Foams Produced by Solid Stated Foaming
J. Escudero, M.A. Rodriguez-Perez and V. Kumar, CellMat, University of Valladolid and University of Washington, Spain/USA.

Effect of Carbon Nanofillers in Reactive Foaming
R. Verdejo, M.M. Bernal, and M.A. Lopez-Manchado, CSIC, Spain

SESSION 4: INNOVATION IN FOAMS PART 2

Creating High Melt Strength Linear Low Density Polyethylene Through the Use of Electron Beam Modification for Use in Producing Extruded Low Density, Non-Crosslinked Foams
E.M. Phillips, W. Crilley, Polyolefins Specialist. USA

A New Way to Obtain Foamed Polyamide 66 Using Classical Transformation Processes
C. Cocquet, Lise Trouillet-Fonti, CNRS, France

Processing of Polyolefin Foamed Sheets, an innovative Route to New Tank Building Applications
M. Stallmann, M. Hoffmann, D. Mueller Simona AG, Germany

Investigation on the Effect of Water Soluble Polymer on the Acoustic Performance of Environmentally Friendly Open Cell Acoustics Foams
Shahzad Ghaffari and Hani Naguib, University of Toronto, Canada



FOAMS® 2011

9th International Conference on Foam Materials & Technology
Co-sponsored by the Palisades-New Jersey Section & TPM&F Division
The Society of Plastics Engineers
September 14th-September 15th, 2011
& FOAMS® 2011 Tutorial - September 12 & 13th, 2011

Renaissance Woodbridge Hotel · 515 US Hwy. 1 South, Iselin, NJ 08830 · Tel: 732-634-3600 · Fax: 732-634-0258

www.marriott.com/hotels/hotel-information/travel/ewrwd-renaissance-woodbridge-hotel

(Hotel rooms are available for a reduced rate of \$145/night+taxes/fees if you mention SPE FOAMS® 2011)

EXHIBITOR/SPONSORSHIP REGISTRATION FORM

Contact/Attendee: Erika G. Monte _____ Company: Kenrich Petrochemicals, Inc. _____

Address: 140 East 22nd Street _____

City/State/Zip: Bayonne, NJ 07002 _____

Phone #: (201) 823-9000 Fax #(201) 823-0691 Email Address: (please print legibly) sjmonte@4kenrich.com _____

- 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 \$1500.00** (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).
- X I wish to be an **Exhibitor for \$1000.00** (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 \$ 1,000.00
- Enclosed is my Check for \$ _____

Card # (Amex/Visa/MC) AMEX 3713 873772 94006 Exp. date _10/12

Authorized Signature  _____ Date: 06 / 02 / 2011

-Confirmation of Registration will be emailed once received. Set-up information will be emailed 2weeks prior to the FOAMS® 2011 Conference.

Questions about Exhibiting/Sponsorship? Email: Theresa Healy, Reedy International Corp. at thealy@reedvintl.com
(phone: +1-732-264-1777/Fax: +1-732-264-1189)

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? Salvatore J. Monte, Kenrich Petrochemicals, Inc. - Conference Chair @ sjmonte@4kenrich.com (phone: +1-201-823-9000)

All FOAMS® 2011 Exhibitor / Sponsorship Registrations must be made on/before August 26th, 2011

Mail Registration Form & Check (make check out to: **FOAMS® 2011 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@reedvintl.com
Additional FOAMS 2011 Information & Conference Registration can be obtained via:
❖ SPE Website: <http://www.4spe.org/conferences/foams-2011> ❖

REGISTRATION FORM FOAMS® 2011

September 14-15, 2011, Wednesday-Thursday Renaissance Woodbridge Hotel, Iselin, NJ, USA

NAME _____
 TITLE _____
 COMPANY _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____ COUNTRY _____
 TEL _____ FAX _____ E-MAIL _____



Please pay Registration Fee in US Dollars by: check credit card

Credit Card Payment:

Cardholder Name: _____

Card Number: _____

Expire Date: _____

Signature: _____

Please call, email, mail or fax this form to:
 Customer Relations Department
 Society of Plastics Engineers
 3 Church Hill Rd. Newtown, CT 06470 USA
 Phone: 203-740-5403 · Fax: 203-775-8490

Registration Fees		
Fee Type	Member Fee	Non-Member Fee
SPE Conference Only Registration		
Early/Regular:	\$450.00	\$650.00
Late:	\$650.00	\$850.00
SPE Conference and Tutorial Registration		
Early/Regular:	\$725.00	\$925.00
Late:	\$925.00	\$1125.00
SPE Tutorial Only Registration		
Early/Regular:	\$375.00	\$575.00
Late:	\$575.00	\$775.00

EUROTEC CONFERENCE

The conference will take place during the Expoquimia fair 14-15 November 2011 in Barcelona, Spain. Presenting a paper at EUROTEC is a great opportunity to receive feedback and discussion from leaders and researchers in the European plastics industry. It is also an opportunity for commercial exposure. The conference will be conducted in English and during parallel sessions focusing on the following areas:

- Product Engineering & Design
- Automotive & Transportation
- Extrusion/Flexible/Rigid Packaging
- Thermoplastic Materials and Foams
- Color & Additives
- Engineering Properties and Structure
- Medical Plastics
- Failure Analysis and Prevention
- Thermoforming
- Bioplastics
- Rapid Design, Engineering and Moldmaking
- General Business

On the foams session the main topics covered will be: Innovations in foams, characterization of foams, modelling of foams, novel blowing agents, micro and nanocellular foams, biodegradable foams and foamed nanocomposites

Miguel Rodriguez-Perez

POLYOLEFINS 2011 & 2012 CONFERENCE REPORTS

POLYOLEFINS 2011 INTERNATIONAL CONFERENCE REPORT
 For PO 2011 Conference was held in Houston during February 27 - March 2, 2011. TPM&F Division has organized two sessions as a partner in the PO conference. Donna Davis has developed a session on "Polyolefins in Nonwoven Fiber Applications". The six speakers in this session are from North Carolina State University (2 papers), Kenrich Petrochemical, Polyone, Elmarco and Smith, Johnson and Associates. This session was held on March 1 (Tuesday) in the morning.

Ananda Chatterjee has organized a session on "Processing and Applications of Polyolefins". The seven papers in this session will be presented by Coperion Corporation, Davis-Standard, Xaloy Inc, Enercon Industries, BBS Corporation and Texas A&M University (2 papers). This session was held on March 1 in the afternoon.

PO 2012 CONFERENCE
 TPMF Sessions - Two technical sessions are planned by TPM&F Division during PO2012 in Houston. Donna Davis is considering developing a session on PO in Building & Construction. Ananda Chatterjee is planning to develop a session on PO in Rigid packaging or PO Foam. We have narrowed down to these sessions, after carefully considering the suggestions from TPM&F BOD on possible session topics. Ananda Chatterjee is the TPM&F Liaison with PO Committee for PO2012.

Ananda Chatterjee

Welcome New Members!

John Chiao	Krailburg TPE	Joseph Carlise	Kraft Foods
Tianhua Ding	SABIC Innovative Plastics	A Sai Pattanik	Renault Nissan Tech. & Business Centre India Pvt. Ltd.
Steve Vincent	Doric Products Inc	Florence Jones	Lavergne Group
Chris Landis	Bamberger Polymers Inc	R Haresh Babu	Multibase India Ltd
Steve Wilson	Cold Jet	Rajinder Khanna	Multibase India Ltd
Bruce Acord	Premix Inc	Nancy Easterbrook	Air Products
Paul Arch	Nova Chemicals Inc	Frederic Juprelle	Beads Belgium SA
Dragica Petrovic	S&C Electric	Laura DeSimini	DDS Polymers, Inc.
Ram Narayanan	Ticona	Jason Middleton	Preproduction Plastics Inc.
Yanping Feng	ExxonMobil (China) Investment Co., LTD	Shawn Jenkins	Kimberly-Clark Corp.
Jeffrey Borntrager	Albermarle Corporation	Mehet Onur	Ultrapolymers TURKEY
Tim Besuijen	NOVA Chemicals Corporation	Tie Lan	Nanacor Inc
Joseph Congdon	Basell Polyolefins	Keith Jones	Angus Industries Inc
John Hain	Grace	John Keirstead	WAL Consulting (HK) Ltd.
Sam Phan	Lummus Technology	Kitty Tedder	Corning Cable Systems
Justin O'Connor	INEOS	Aster Teo	Milliken Asia Pte Ltd
Randy Snavelly	PCC Chemax	Brian Cristea	International Automotive Components
John Kaarto	Dow Chemical	Phil Magnusson	Washington Penn Plastic Co.
Clifford Lee	Chemical Market Resources	Scott Szczerowski	Advanced Composites, Inc.
Hasnain Rangwalla	ExxonMobil Chemical Co	David Norman	Perkin Elmer Inc
William McIntyre	Clorox	Bin Li	Washington State University
Mun Tse	Exxon Mobil Chemical Co	Antonio Marcucci	Poly-Vac
Frank Dudzik	Baxter	Gary Smith	Penn State Behrend
Jiang Li	Advanced Composites, Inc.	Dawn Duncan	The Lubrizol Corporation
Lun Howe Mark		Kam Ho	Nova Chemicals Ltd
Steven Dillon	P. D. Plastics	Lu Feng	
MengHsin Tsai	Washington State University	Stijn Van Lierde	Exxonmobil Chemical Europe Inc.
Josh Brown	LPKF Laser & Electronics	Cheng Qu	University of Akron
Lamy Chopin	The Dow Chemical Company	Jonathan Tan	WDI
Ryohei Koyama	Kaneka Corporation	Guy Havet	
Xiangmin Han	Owens Corning	Scott Tripple	Pandrol USA
Hui Wang	University of Toronto	Andrew Horsman	Ontario Tire Stewardship
Ali Razvi	Microcellular Plastics Manufacturing Lab	Luke Murphy	Microsoft
Mohammad Hasan	University of Toronto	Andrea Barish	Smurfit Stone Container Corporation
Tunglin Tsai	Qunatumbeam	Steven Mcnally	Arplank Sales
Brian Mulvany	Teknor Apex Company		
Michael Alexandre	University of Liège / CERM		
Brett Wehner	Weco International Inc		

We welcome each one of you as members to our Division. The experience you bring to our membership will be appreciated as will the experience we hope you will gain from your involvement with your fellow TPM&F members in this society.

Camilo Cano

Membership Chair