

TPM&F

Thermoplastic Materials & Foams Division

A divisional newsletter of the Society of Plastics Engineers



VOLUME 3
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APRIL ISSUE

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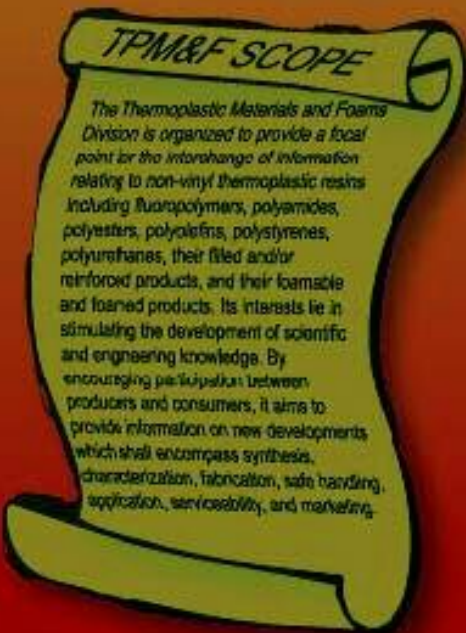
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CHAIRMAN'S MESSAGE



Wow, it is hard to believe that it is already spring and soon time for ANTEC® in Boston!

Within this newsletter, you will find information regarding the TPM&F at ANTEC®, including the technical session schedule and Board of Directors meeting time. TPM&F will be holding six technical sessions—two on polyolefins and four on foams—with the highlight being the presentation of Prof. Don

Paul the 2011 TPM&F Outstanding Achievement Award and his keynote speech on Tuesday May 3 from 7:00 – 8:00 AM. A continental breakfast will be provided. On the same day, TPM&F will also be holding a Business Meeting at the end of the Tuesday afternoon technical session followed by a Members Reception from 5:30 – 7:30 in the Hynes Convention Center Room 202. Please stop by at these events to meet and talk with fellow members.

The TPM&F Board of Directors has also been working to improve TPM&F governance, its activities and communications over the past few years. To learn about these efforts and to provide input for the future direction of the division, please participate in a presentation and discussion to be held Tuesday, May 3, 1:30 – 2:30 to open the technical session. The division chairperson Kelvin Okamoto and chair-elect Perry Vadhar will lead the discussion. If you want to have a more active role with the division, I also urge you to attend the TPM&F Board of Directors meeting on Monday, May 2.

Polyolefins 2011 was a success in February. TPM&F developed and chaired two technical sessions at the TopCon. Through the TopCon, the Division also awards two scholarships to college students local to the Houston event.

Planning is already well underway for the FOAMS® 2011 in New Jersey in September. If you are interested in presenting or exhibiting at this TopCon, please contact Sal Monte at sjmonte@4kenrich.com.

That's all for now. I hope that you enjoy the spring and to see you in Boston!

Sincerely,

Kelvin T. Okamoto

Chairman, Thermoplastics Materials & Foams Division, SPE

BOARD OF DIRECTORS

AS OF MAY 15, 2010

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EDUCATION CHAIR REPORT



A five-part webinar series on Polyolefins, co-sponsored with the SPE Headquarter, was a big success. About thirty-five members registered for the series. Thanks to Donna Davis and other board members who have supported in planning the webinar series.

The TPM&F Division plans to sponsor student activities at ANTEC® 2011. Our division will contribute \$2,000 towards Platinum Sponsorship for the event. Also, the total TPM&F Scholarship for this year is increased to \$2,500. Thanks to Walter Schrenk for donating \$1,000 towards this scholarship.

Two of our board members, Dr. Hani Naguib and Dr. Chul Park, have graciously agreed to provide their support at Consultants' Corner planned at ANTEC®. They will offer consultancy on FOAMS®.

Attendees can register for the appointments-only program, called "Consultants' Corner," at the ANTEC® website,

www.anteq.ws



Each appointment will last 30 minutes.

Perry Vadhar

Education Chair



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MEET YOUR BOARD MEMBERS

SALVATORE J. MONTE



Salvatore J. Monte received his B.C.E. from Manhattan College in 1961 and M.S. Polymeric Materials from NYU Poly in 1969. He is President and co-owner with Erika G. Monte of Kenrich Petrochemicals, Inc. – Bayonne, NJ.

Sal holds twenty-nine U.S. Patents filed worldwide and one pending. Two patents on “*Enhanced Energetic Composites*” and “*Solid Rocket Propellant*” were held under Secrecy Orders by DOD for over a decade.

Current work covers diverse areas such as: a patent application to regenerate spent drilling mud (BaSO₄) and oil soaked beach sand into useful construction materials; the anaerobic biodegradation of conventional petroleum derived thermoplastics such as disposable PP non-woven diapers under ASTM D-5526-94 conditions to generate biomass and biogas for generating electricity; a new generation of endothermic MEK peroxide cured unsaturated polyester composites; taking sulfur derived from secondary and primary oil and gas recovery and converting it into non-blooming insoluble sulfur for superior performing tires. Three hundred seventy ACS CAS abstracted patents, technical papers; journal articles and book chapters on applications of organometallics and reactive diluents in thermosets and thermoplastics are attributed to Sal. In addition, he has authored a 340-page Ken-React® Reference Manual on Titanates, Zirconates and Aluminates — 78,000 copies printed; authored several book chapters (*Most recent – Chapter 5 – Functional Fillers – Wiley-VCH, 2005 – edited 2010*); testified on several occasions before the U.S. Congress on Intellectual Property and Trade issues; and lectured on coupling agents around the world including: Europe, Greece, Turkey, South America, Canada, Mexico, India, Australia, South Korea and Japan.

He is a licensed Professional Engineer in NJ; Fellow of the Society of Plastics Engineers (SPE); SPE Honored Service Member; SPE: Conference General Chair of FOAMS® 2011, Councilor & Past Chairman-Thermoplastic Materials & Foams Division of SPE (1997 –2000); Past President – SPE Palisades-New Jersey Section-2009; Past Chairman of the New York Rubber Group – ACS Rubber Division; twice winner of the C. Homer Flynn Award for Technical Excellence – Federated Society of Coatings Technology; member AIChE; member SAMPE; Voting Member to the ASC (*Adhesives and Sealants Council*), SPI (*Society of Plastics Industries*), CPIA (*Canadian Plastics Industries Association*) and ACMA (*American Composites Manufacturers Association*); Life Member of the National Defense Industrial Council; Paul Harris Fellow; and listed in Who's Who in Finance and Industry and Who's Who in the World.

VIPIN KUMAR



Professor Kumar graduated from the Indian Institute of Technology at Kanpur, India with a Bachelor's degree in Mechanical engineering in 1970. After getting an MS and an MBA from University of Rhode Island, USA, he worked in the nuclear piping systems industry for 10 years.

In 1984 he joined the MIT Mechanical Engineering Department and graduated with his PhD in 1988. Since that time he has been on the Mechanical Engineering faculty at the University of Washington at Seattle, USA. Kumar's professional interests lie in areas of design, manufacturing, and technology transfer to industry. Over the past 25 years, his research efforts have primarily focused on solid-state microcellular foams processing, characterization, and applications development. He holds four patents and has authored or co-authored over 100 publications in this area. Professor Kumar is a Fellow of the Society of Plastics Engineers.

NEXT BOARD MEETING: MAY 2, 2011 (DURING ANTEC®) BOSTON, MASSACHUSETTS

The meeting will be held Monday Morning 9:00 AM - 11:30 AM in the Provincetown Room at the Marriott Copley Boston Hotel.

A hot breakfast will be available.

All members are invited to attend.

For those attending the
Board Meeting please
R.S.V.P. to

Kto4SPE@mac.com



TREASURER'S REPORT

Report for First Half of FY2011 (7/1/10 - 12/31/10)



Thermoplastic Materials and Foams Division
December 23, 2011

Financial Summary

- FY2011 budget: Income \$19,000; Expenses \$23,200. Thus, we have a budgeted deficit of \$4,200.
First half of FY2011 actual transactions are: Income \$2,440; Expenses \$5,512.
- The category "Other Expenses" has again exceeded its budget. I recommend we increase its budget for FY2012.
This year's biggest expense is the TPM&F members' reception at FOAMS®2010 in Seattle, Washington.
I also recommend we revise groupings for educational and student expenses.
- Most of our 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. Contact me for any reimbursements. Don't forget to opt out of sales tax due to our IRS 501(c)(3) non-profit status. See me ahead of time for help with that.

Many thanks to past treasurer Wen Wu for lots of advice and assistance.

2 Year Financials

	FY2010 6/30/10 Actual	FY2010 Budget	FY2011 12/31/10 Actual	FY2011 Budget
INFLOWS				
Interest & Dividends	\$ 5.40	\$ 50.00	\$ 0.47	\$ -
SPE Investment Program	\$ 2,954.17	\$ 2,000.00	\$ 2,028.83	\$ 2,000.00
Sponsorship	\$ -	\$ 1,000.00	\$ -	\$ 1,000.00
Conference - FOAMS	\$ 7,918.54	\$ 8,000.00	\$ -	\$ 8,000.00
Conference - Polyolefins	\$ 6,364.13	\$ 6,000.00	\$ -	\$ 6,000.00
Member-Get-A-Member	\$ -	\$ -	\$ 25.00	\$ -
SPE Rebate	\$ 770.41	\$ -	\$ 385.21	\$ 2,000.00
Total Inflows	\$ 18,012.65	\$ 17,050.00	\$ 2,439.51	\$ 19,000.00
OUTFLOWS				
ANTEC expenses	\$ 2,500.00	\$ 1,500.00	\$ -	\$ 2,000.00
Best paper awards	\$ 268.69	\$ 2,400.00	\$ 11.58	\$ 500.00
Board Meeting	\$ 2,968.28	\$ 4,500.00	\$ 1,252.14	\$ 4,000.00
Councilor Travel	\$ 1,301.33	\$ 1,500.00	\$ 425.98	\$ 1,500.00
Educational Programs	\$ 500.00	\$ 3,000.00	\$ 825.00	\$ 3,000.00
General Office	\$ 62.92	\$ 200.00	\$ 3.41	\$ 200.00
Newsletter	\$ 1,951.00	\$ 2,800.00	\$ 1,133.00	\$ 2,000.00
Outstanding Achievement	\$ 35.91	\$ 5,000.00	\$ -	\$ 5,000.00
Scholarship Grant	\$ -	\$ -	\$ -	\$ -
SPE Foundation	\$ 2,500.00	\$ 4,000.00	\$ -	\$ 4,000.00
Other expenses	\$ 2,333.99	\$ 1,000.00	\$ 1,860.91	\$ 1,000.00
Total Outflows	\$ 14,422.12	\$ 25,900.00	\$ 5,512.02	\$ 23,200.00
Overall Surplus (deficit)	\$ 3,590.53	\$ (8,850.00)	\$ (3,072.51)	\$ (4,200.00)
Budget Plan	\$ (8,850.00)	\$ (8,850.00)	\$ (4,200.00)	\$ (4,200.00)
Variance from Budget	\$ 12,440.53	\$ -	\$ 1,127.49	\$ -
Ending Account Balance	\$ 145,687.15		\$ 142,614.64	



Respectfully submitted by:

Maxwell J. Wingert

mw4spe@yahoo.com

TPM&F BOARD MEETING MINUTES

POLYOLEFINS CONFERENCE, FEBRUARY 28, 2011



In Attendance: Andy Chatterjee, Donna Davis, Sal Monte, Hani Naguib, Michael Reedy, Abdelhadi Sahnoune, Ashu Sharma, Hank Schirmer, Lukas Stirnemann, Wen Wu.

Joining by Teleconference: Theresa Healy, Scott Lambert, Kelvin Okamoto, Chul Park, Ellen Phillips, N. S. Ramesh, Eric Teoh, Ajit Ranade, Perry Vadhar, Xiaoxi Wang, Max Wingert

Guests: Erica Monte, Patricia McKnight

Kelvin welcomed Board Members and Guests. 21 out of 23 members in attendance.

Secretary's Report – Ellen Phillips/Theresa Healy. Minutes that were distributed electronically are approved.

Chair Report – Kelvin Okamoto. Our division has applied for Gold Pinnacle Award and the 2010 Communication Award. There was a discussion on ways to improve our communication within the division.

Treasurer's Report – Max Wingert. Wen Wu's treasurers' amended report was approved as distributed. Max presented the budget update for this year.

Chair-Elect and Education Chair Report – Perry Vadhar.

Perry has distributed his educational report electronically. There were 33 attendees for all 5 PO webinars. There were several international participants. The price to attend all 5 presentations was \$197. The series actually made some money for SPE HQ. Kelvin thanked everyone for their efforts. The division is sponsoring student activities at ANTEC®. This year scholarship amount is \$2500 (\$1000+\$500 +\$1000 endowment). At ANTEC®'s Consultant's Corner Hani and Chul will volunteer their time. Perry will find out the time they are to be there. Michael suggests that people must schedule in advance so our time is well used. This should also be used as a marketing tool for ANTEC™.

Membership Chair Report – Camilo Cano.

There are 1051 active members and 236 suspended members. Camilo Cano suggested that there are quite a few emails supplied by SPE and perhaps the number made were too many and lost the impact.

FOAMS® 2010 Report – Kelvin Okamoto/Eric Teoh.

The \$5000 seed money given to the hosting SPE section was repaid and the division made \$8000. There was some discrepancy in the share SPE was given but the discrepancy was minor and determined not to be worth revising the amount.

PO 2011 – Andy Chatterjee/Donna Davis.

The TPM&F Division has 2 out of 10 sessions. Our share of the proceeds will be 6.0%. There are 490 pre-registered attendees.

The final count was not available but for reference there were 544 attendees in 2010. The meeting is international in its attendees.

FOAMS® 2011– Sal Monte. Ramesh to forward the tutorial to Sal by April. Sal gave an update on the status. The initial call for papers has gone out. Michael has suggested we send out increase email blast for papers and it was suggested that we go outside SPE for additional calls for papers. SPE HQ is going to be helping in the email blast.

PO 2012 – Ananda Chatterje/Donna Davis. The conference has about 16 talks (3 plenary). It is broken down into 60% by academia and 40% by industry. It seems 40% is from Europe. There were 30 signed up for the Tutorial and this drove about 25 new attendees to the conference.

Newsletter Report – Scott Lambert. The newsletter will be distributed by the end of March to encourage ANTEC® attendance.

Communications Report – Theresa Healy/Mike Reedy. The LinkedIn site for TPM&F group to improve communication is operational. The thought was to have 2-3 people take oversight/mangers over this website. They are asking for people to start threads of discussions posted on this site.

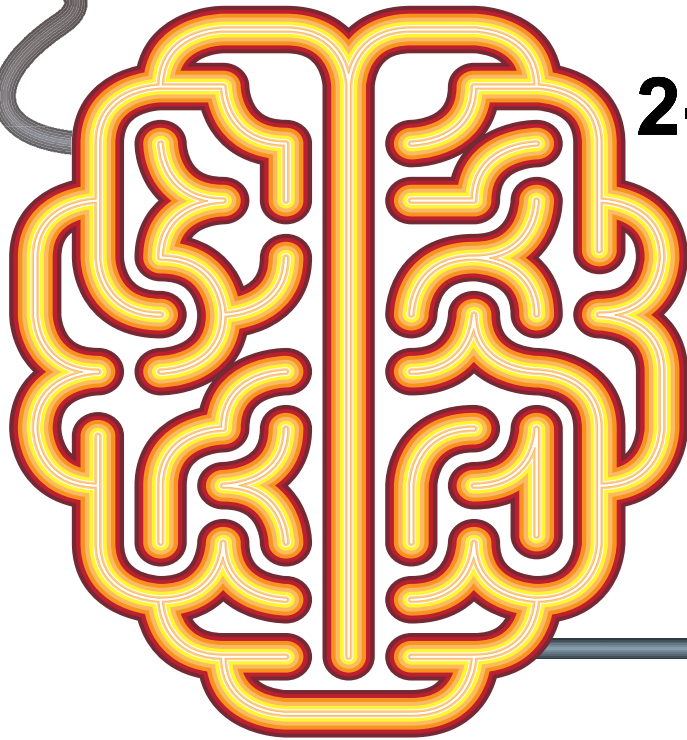
Councilor's Report – Ashu Sharma. Ashu is a member of the following committees: situational planning committee and structure committee.

Nominations Chair Report – Ray Shute. Nine BOD members are up for re-elections. There are 2-3 members that are stepping down this year and there are 4-5 people that are interested in servicing. Elections will be electronic in April.

Miscellaneous – There was a discussion on other alternatives to this call-in for those who cannot be present at the meeting. The poor sound system is a problem. Other avenues will be investigated.

New Business – The next board meeting will be Tuesday Evening at ANTEC® 2011. Motion to adjourn was made and passed at 10:30 pm.

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ANTEC 2011

May 1 - 5, 2011

Hynes Convention Center
Boston, Massachusetts, USA



PROFESSOR DON PAUL TO RECEIVE THE 2011 OUTSTANDING ACHIEVEMENT AWARD

The TPM&F Division has selected Prof. Don Paul, the Ernest Cockrell Sr. Chair in Engineering at the University of Texas at Austin, to receive the Outstanding Achievement Award (*formerly called the Lifetime Achievement Award*) for 2011. The award will be made at a ceremony over breakfast on Tuesday May 3 at the 2011 ANTEC® at Boston.



Prof. Paul received degrees in Chemical Engineering from North Carolina State University (B.S.) and the University of Wisconsin (M.S. and Ph.D.) and then worked at the Chemstrand Research Center prior to joining the Department of Chemical Engineering at the University of Texas at Austin in 1967. He served as Department Chairman during 1977-85 and founded the Texas Materials Institute in 1998 and served as its director until 2011.

Don Paul has supervised the research of more than 150 graduate students, post-doctoral fellows, and visiting scholars. He has edited numerous books on blends and membranes and has published more than 600 research papers. He was named an SPE Fellow in 2004. He was elected to the National Academy of Engineering in 1988 and to the Mexican Academy of Sciences in 2000.

His research on polymer blends pioneered a major route to new commercial polymer products just as alloying did in metallurgy. His work on the thermodynamics, interfaces, rheology, processing, morphology and processing of these materials has built the modern foundations for product development. Of particular note is his pioneering focus on polymer-polymer interactions as the key to miscibility and to interfacial behavior in multiphase mixtures and recognizing that intramolecular repulsive interactions in random copolymers can be the basis for exothermic mixing and, hence, miscibility with other polymers.

He has been a pioneer in “compatibilizing” immiscible polymer blends by block or graft copolymers formed in situ during melt processing to improve morphology and to strengthen the interface. He has used this approach to demonstrate the principles involved in making super-tough engineering thermoplastics based on polyamides, polyesters, polycarbonates, etc.

More recent research has focused on nanocomposites formed from the layered silicate platelets of montmorillonite and from carbon nanotubes. He has published significant papers on the mechanisms of exfoliation or dispersion of these nano-fillers in polymer matrices and how they can alter polymer performance. He has worked closely with industry to commercialize products in this area particularly for the automotive industry.

He has also made important fundamental contributions to permeation in polymers relating to diverse areas of membrane separations especially for purification of gases and water.

Don Paul grew up on a farm in Eastern North Carolina. His first wife, and mother of his children, was Sally who died of cancer 16 years ago. He is now married to Barbara. His children are Mark, who is a chef-owner of a high end restaurant, and Ann Karnes, an accountant. Both live in Austin and have blessed him with a grandson and granddaughter.

Vipin Kumar

University of Washington
Chair, Award Committee
TPM&F Division

Previous Award Recipients



- 2010 Walter Schrenk, Senior Research Scientist, Dow Chemical Company
- 2009 Dr. Andrew Peacock, Development Assoc. at Tredegar Film Products.; PE structure-properties optimization
- 2008 No Award Made
- 2007 Prof. Nam P. Suh, Polymer processing; Microcellular polymers.
- 2006: Dr. Steve Chum – polymer materials science and applications; INSITE technology
- 2005: Professor Leo Mandelkern, Florida State University - Crystallization of Polymers
- 2004: Professor Anne Hiltner/Case Western Reserve University – Structure/property Relationships of Polymeric Materials
- 2003: Dr. Leszek A. Utracki/National Research Council, Canada – Polymer Physics
- 2002: Dr. Che-I Kao/Dow Chemical – Innovator and Pioneer in the areas of polyolefins, polycarbonates, engineering thermoplastic
- 2001: Dr. Jim Randall/Exxon-Mobil Inc. – Analysis and Characterization
- 2000: Professor Ian Harrison/Penn. State University and Dr. L. Wild/Equistar Chemical, L.P. - Analysis & Characterization



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
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Technical Program Chair: Miguel Angel Rodriguez-Perez
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Sponsorship Chair: Theresa Healy
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Tutorial Chair: Chul Park
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Student Paper Chair: Max Wingert
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Best Paper Award: Lukas Stirnemann
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Treasurer: Joe Groder
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Ray Shute, rshute@cortechfoams.com,

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

FOAMS® 2011 CALL FOR PAPERS

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

New materials, processes, equipment and foaming agents are being continually developed for foam applications. Finding new polymers and foaming agents is one of the top priorities of the foam-manufacturing industries. There is also great interest in developing environmentally safe methods to manufacture polymeric foams.

The FOAMS® 2011 conference will address these key issues in a collection of groundbreaking presentations by leading researchers in industry and academia. It will feature world-renowned speakers presenting technical papers on innovations in foam processing, novel blowing agents, micro and nanocellular foams, sustainability in foams, biodegradable foams, foamed nanocomposites, etc., with special emphasis on industrial applications. The FOAMS® 2011 conference, which will be held September 14–15 in Iselin, New Jersey, is the premier forum for presentations of new developments in foaming technologies.

As an accomplished technical and business leader in polymeric foams, you are invited to give an oral presentation at this conference. Please consider contributing an original paper on technical or business aspects of your recent significant developments in foaming of plastics. If you agree to submit a paper for this conference, please review the attached page carefully, and submit the completed Intent to Present Form by email, mail, or fax. Thank you.

Timetable for the FOAMS® 2011 conference:

May 15: Complete and mail (or email or fax) the Intent to Present Form. An abstract of 100 words minimum that describes your intended paper is required.

June 1: Notification of accepted papers to all authors.

July 15: First version of the paper to be sent to Miguel Angel Rodriguez-Perez, Technical Program Chair.

August 15: Final update of the paper.

September 14-15: FOAMS® 2011 Conference. 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 on June 1.

If you have any questions regarding the abstract, topics, or deadlines, please contact us. We look forward to your participation.



FOAMS[®] 2011 STUDENT POSTER SESSION



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

TPMF DIVISION SCHOLARSHIPS PRESENTED AT POLYOLEFINS 2011 CONFERENCE

Two scholarships were presented at the Polyolefins 2011 International Conference in Houston (February 27 – March 2, 2011), in the name of the TPMF Division, a regular partner in organizing the conference. The funds originated from the proceeds of the conference. Each scholarship was \$1000. The scribe presented the checks during the Monday reception.

The first recipient was **Mr. Shailesh Vidhate** of the University of North Texas in Denton, TX. Shailesh is a PhD student in Materials Science & Engineering, working under the guidance of Professor Nandika D'Souza. His Ph.D GPA is 4.0. He has published several journal papers and presented his research on polymer nanotechnology in several conferences.



The second recipient was **Ms. Cara Southworth**, a junior in Texas State University-San Marcos majoring in chemistry. Cara started her work, as an undergraduate research assistant, on polymer/synthetic nanofiller nanocomposites in the laboratory of Professor Luyi Sun from the beginning of 2010. In the past one year, Cara fully demonstrated her excellent laboratory skills and dedication to research projects. She is a co-author of two papers, one published in *Macromolecular Chemistry and Physics*, and the other submitted to *Macromolecules (under revision)*. She is also the first author of three presentations given at ACS Fall meeting, AIChE annual meeting, and Materials Science and Technology 2010 Conference, respectively.

**Submitted by:
Ananda M. Chatterjee**



Ashutosh H. Sharma

This summary is intended to help you review the highlights of the Council Meeting held via telephone conference on February 11, 2011. Some highlights from the report are:

President's Remarks

President Braney presented his comments updating his operating plan. His presentation is available online. Highlights include membership increases and increasing geographic, age, and gender diversity. Also, highlights about the new computer system and the growth of non-dues revenue.

COUNCILOR'S
CORNER

Bylaws and Policies

Second Readings

Motion: Gregory Campbell moved that Bylaw 4.4.4, "Multiple Section Affiliation and Fees" be approved as distributed. The motion was seconded. The motion carried.

This Bylaw amendment will allow SPE members to affiliate with multiple Sections in the same way that is currently allowed for multiple Division membership. There was discussion about whether people will use this change to be proxies or Councilors without being active member of Section.

Motion: Bill O'Connell moved that Council approve the pricing of multiple Sections to be the same as for Divisions. The motion was seconded. The motion carried.

Motion: Gregory Campbell moved that Bylaw 6.2.5 be taken up from table. This proposed bylaw change affects councilor proxy tenure requirements. The motion was seconded. The motion carried.

Motion: Gregory Campbell moved that Bylaw 6.2.5 "Council, Proxy Tenure Requirements," be approved as published and distributed. The motion was seconded. The motion carried.

With this change, any Councilor shall be entitled to give written proxy to another SPE member from the same Section or Division for the purpose of representing the Section or Division, with full rights of a Councilor on any question before Council. The change to this motion is the elimination of the following sentence: "Sections or Divisions outside the United States and Canada are excluded from the requirement that their proxy be a member of that Section." There was considerable discussion around exactly how this would be implemented, and it was noted that policy needs to be further developed to guide Council on the use of proxies.

Motion: Gregory Campbell moved that Bylaw 6.2.2, "Council Meeting Times and Places," be approved as published and distributed. The motion was seconded. The motion carried.

This amendment divides the Bylaw into two parts – Regular Meetings and Special Meetings, clears up any confusion about which President designates meeting times and places, and adds a clause defining the amount of notification required to hold a Regular Meeting. The notification clause was included in the portion of the Bylaw about Special Meetings, but did not exist in the portion about Regular Meetings.

PAOM Update/Strategic Planning Committee

A discussion of the work of the committee ensued. The presentation is available on-line. Lance Neward gave a brief introduction, Scott Owens went into a significant amount of detail regarding the overall process, Jim Griffing and Brent Strong talked about the Structures subcommittee and Financial Factors subcommittee, respectively, and Mr. Neward gave a very brief concluding statement. The floor was open for questions.

Financial Update

SPE Treasurer Scott Owens gave a financial update. It was noted that this, and all presentations made as part of the meeting are available online to Councilors, who are free to use these materials with their respective boards.

Mr. Owens reported that all 2010 results were not yet audited, but the results on file at the time of the meeting were:

Gross Operating Incomes, including the Foundation, of \$3,416,000
Gross Operating Expenses, including the Foundation, of \$3,296,000
Operating Net: \$ 120,000
Budgeted Net: \$ 119,325

Mr. Owens noted that approximately half of SPE's net incomes were proceeds from the SPE Foundation, and thus restricted funding. He further related that the Finance Committee had discussed whether or not additional funds should be distributed for rebates given the surplus, but that the Finance Committee had decided that the financial position of SPE was still too tenuous to further distribute these funds. Mr. Owens said that the Finance Committee would look at supplemental distribution of rebates in 2011 should SPE make its budgeted net revenues.

Mr. Owens then reviewed SPE's investment account funds for the SPE Foundation, the SPE Section/Division Investment Program, and the SPE Building Fund (proceeds from the sale of the building in 2009, now invested). He concluded his remarks with a brief report on ANTEC™ incomes to date, and noted that no material changes to the 2011 budget were being contemplated at this time.

Staff Update

Executive Director Susan Oderwald delivered a staff update. She noted that a full written brief is available online. Her report included an update on staffing and technology changes. She then invited other senior staff members to report on their areas.

Membership

Tom Conklin gave the update about membership results for 2010 and the 2011 plan. He likewise reported on major findings in 2010, as well as new initiatives for 2011.

Foundation

Gail Bristol delivered a report about the SPE Foundation, Corporate Outreach and SPE's Annual Awards. It is noted there that the SPE Foundation performed in 2010 as follows:

Financial Summary – end of December 2010

Surplus - \$60,000
Investment Balance - \$1,700,000 (excludes Chicago Fund)
Scholarship Program: 31 Students = \$107,500
Grants Program: \$15,190
Thermoforming equipment grant to Yale School of Architecture
General grant to Rochester Institute of Technology
Matching funds grant from the Plastics Pioneers Association for PlastiVan visits

Ms. Bristol reported this year's Fellows and Honored Service recipients. They include:

2011 Honored Service Members

Earl W. Balthazar III – nominated by the Color & Appearance Division
Ken J. Braney – nominated by the European Thermoforming Division
Dr. Gregory A. Campbell – nominated by the Extrusion Division
Joseph J. Duska – nominated by the Palisades/New Jersey Section
Irvin E. Poston – nominated by the Detroit Section

2011 Fellows of the Society

Dr. Richard C. Bopp – NatureWorks LLC
Dr. Furong Gao – Hong Kong University of Science and Technology
Dr. David O. Kazmer – University of Massachusetts, Lowell
Dr. Andrew J. Peacock – Tredegar Film Products
Dr. Kalyan Sehanobish – The Dow Chemical Company

Ms. Bristol reported on this year's Annual Awards recipients. They include:

International Award

Dr. Musa R. Kamal – McGill University

Research/Engineering Technology Award

Dr. Rajendra Krishnaswamy – Metabolix/Tellex LLC

Education Award

Dr. Walter L. Bradley – Texas A&M University

All awards will be presented at the SPE Celebrates! Banquet at ANTEC® in Boston on May 1, 2011.

Conference Update

Lesley Kyle discussed the three major events: ASIATEC, ANTEC® and EUROTEC.

A question was raised from the floor about the Council meeting at EUROTEC. Ms. Kyle confirmed that meetings would be held at the Porta Fira hotel. The dates and schedule will be set soon. A question was raised about whether Councilors will get lower rate for EUROTEC; it was stated that such a rate is under consideration, but the amount has not yet been determined.

ANTEC 2012-13 TPC Approval

Motion: Brian Grady moved that Mark Spalding be approved as 2012 and 2013 Technical Program Chair for ANTEC®. The motion was seconded. The motion carried.

Reports

Student Activities at ANTEC® Committee

Steve McCarthy discussed an expanded poster session Monday and Tuesday afternoon at ANTEC®. He also noted that the committee has a Plant tour planned, and that lunch on Wednesday is open to all members at a cost of \$25, in advance. The luncheon will have 4 people talking about being CEOs of medical device companies. Mr. McCarthy expressed the committee's thanks to those Sections/Divisions who have contributed to student programming at ANTEC®.

Ashutosh H. Sharma

TPM&F Councilor



The TPMF division has 40 papers/talk in total.

This is divided in 6 sessions:

Two Thermoplastics Sessions and Four Foams Sessions:

1. 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.

Please see the following page for our Section's presentation titles, authors and time slots.

For even more detailed information please visit the ANTEC® website or click on the login below to go directly to the advanced program.



MONDAY AFTERNOON • MAY 2



Innovation in Foams M35

1:30 Development of Polymer Foams - Trends and Sustainability
Holger Ruckdaeschel, BASF SE

2:00 Bimodal Polystyrene/Particle Foam by Extrusion Foaming
Cailliang Zhang, The Ohio State University

2:30 Foaming of Polymer Carbon Nanotube Nanocomposite From the Retrograde Phase
Changchun Zeng, Florida State University

3:00 Investigating the Foamability of the Low Melt Strength Homopolymer Linear PP and Coupling Agent by Using Nanoclay
Mohammadreza Nofar, University of Toronto

3:30 Preparation of Flame-Retardant Polyolefin Foam Using a Phosphorus Compound
Chung Park, Bushitol Corporation

4:00 Bead Foaming in Autoclave-Based EPP Process
Yanting Guo, University of Toronto

4:30 Foaming Behaviors of Polypropylene Blown with Carbon Dioxide Under Extensional Stress
Anson Wong, University of Toronto

5:00 In Situ Observation of Polystyrene Foaming Processes with Carbon Dioxide-Nitrogen Gas Blends
Anson Wong, University of Toronto

5:30 Nano-silica Addition Improving Cell Morphology and Expansion Ratio of PP Copolymer Foams Blown in Continuous Extrusion
Wentao Zhai, NIMTE, CAS

TUESDAY MORNING • MAY 3

Advances in Resin Developments T16

8:00 Weatherability and Physical Properties of Opaque Lexan* SLX1432 Resin for Injection Molding and Cap-layer Applications
Paul Sybert, SABIC Innovative Plastics

8:30 Environmentally Progressive PBT-Based Engineering Thermoplastics Product Portfolio for Automotive and Electrical Applications
Rama Konduri, SABIC

9:00 Evaluation of Biodegradable Copolyester Resins with Increased Green Content
Husnu Alidedeoglu, Sabic Innovative Plastics

9:30 New Environmentally Progressive Polyester and Polyester/Polycarbonate FR Resins
Tianhua Ding, SABIC Innovative Plastics

10:00 Hydrolysis-Resistant, High-Impact Polyetherimide Resin Blends
Mark Sanner, SABIC Innovative Plastics

10:30 PET-Polyetherimide Blends
Robert Gallucci, SABIC Innovative Plastics

TUESDAY MORNING • MAY 3

Biofoams T17

7:00 Lifetime Achievement Award Presentation: Don Paul

8:00 Open-Cell Microcellular Foams of Polylactic Acid (PLA)-based Blends with Semi-Interpenetrating Polymer Networks
Masahiro Ohshima, Kyoto University

8:30 The Effect of Chain Branching on the Crystallinity Behavior of Polylactide with the Presence of Dissolved CO₂
Mohammadreza Nofar, University of Toronto

9:00 Development and Characterization of Environmental Friendly Open-Cell Acoustic Foams
Shahrzad Ghaffari Mosanenzadeh, University of Toronto

9:30 Effects of Gas and D-Lactic Acid Contents on the Structure and Properties of Microcellular Injection Molded Poly(Lactic Acid)
Hai-bin Zhao, South China University of Technology

10:00 Effect of Expandable Thermoplastic Microspheres on Microcellular Injection Molded Polylactic Acid (PLA): Microstructure, Surface Roughness, and Tensile Properties
Jun Peng, South China University of Technology

10:30 Study of Injection Molded Microcellular Polylactide (PLA)/Poly(butylene adipate-co-terephthalate) (PBAT) Blends with Various Composition Ratios
Ke Li, South China University of Technology

TUESDAY AFTERNOON • MAY 3

New Resins Properties T35

- 1:30 Keynote: Kelvin Okamoto Thermoplastic Materials and Foams Division: Present and Future
- 2:30 Barrier Property and Characteristic of Polyglycolic Acid for Un-Oriented Sheets and Oriented Films
Daisuke Ito, Kureha Corporation
- 3:00 Simulation of BEAD Manufacturing in Batch-Foaming Process Through High-Pressure Differential Scanning Calorimeter (HPDSC)
Mohammadreza Nofar, University of Toronto
- 3:30 PVT Behaviors of Polystyrene in Presence of CO₂+N₂ Blends
Rubyet Islam, University of Toronto
- 4:00 Further Understanding of the Mechanism of Anionic Polymerization Through Bulk Polymerization of Styrene at High Temperature
Anna Zheng, East China University of Science and Technology
- 4:30 Rheological – Morphological Relationship in Immiscible and Reactively Compatibilized SAN/EPDM Blends *Mona Taheri, IPPI*
- 5:00 TPM&F Business Meeting and Reception

WEDNESDAY MORNING • MAY 4

Foam Properties W16

- 8:00 Rheological Effects on Foam Processing in Rotational Molding
Maryam Emami, McMaster University
- 8:30 Investigating the mechanical properties of expanded polypropylene bead products
Nemat Hossieny, University of Toronto
- 9:00 Application of Variational Asymptotical Method for Unit Cell Homogenization (VAMUCH) in the Prediction of Mechanical Properties for Microcellular Plastics
Emily Yu, University of Wisconsin-Madison
- 9:30 Tensile Behavior of Symmetric and Asymmetric Structural Composite Foams
Denis Rodrigue, Université Laval
- 10:00 Numerical Analysis of Density Graded Foams: Tensile Properties
Denis Rodrigue, Université Laval
- 10:30 Combinatorial Effects of Mechanical Vibration and Shear on the Cell Morphology of Microcellular Polymethyl Methacrylate
Hai-bin Zhao, South China University of Technology

WEDNESDAY AFTERNOON • MAY 4

Foam Processing W31

- 1:30 Influence of Crosslinking on the Foaming Behavior of Ethylene-vinyl Acetate (EVA) using Carbon dioxide as the Physical Blowing Agent
Nan Chen, University of Toronto
- 2:00 Effect of Surfactant on Foaming of Polystyrene
R.K.M. Chu, University of Toronto
- 2:30 Study on Preparation of PP/PA6/OMMT Nanocomposites and Batching Foaming Process Conditions with Vibration Force Field
Haoyang Mi, South China University of Technology
- 3:00 Study on Continuous Extrusion Foaming of PP/PS/Nano-clay with Supercritical CO₂
Mingyi Wang, Mechanical and Electrical Engineering Institute, Zhengzhou University of Light Industry
- 3:30 Study of Graphene Oxide As a Heterogeneous Nucleation Agent in Supercritical Fluid Carbon Dioxide Foaming
Mingqiang Zhong, Zhejiang University of Technology
- 4:00 Synthesis of Silica Particles Grafted with Poly(Ionic Liquid) and Its Application in Microcellular Foaming of Polystyrene
Mingqiang Zhong, Zhejiang University of Technology
- 4:30 Study of Foaming Behavior of PP/PDMS Blends in Extrusion Process
Mingyi Wang, Mechanical and Electrical Engineering Institute, Zhengzhou University of Light Industry
- 5:00 A Green Process for the Synthesis of Mesoporous Silica Materials
Mingqiang Zhong, Zhejiang University of Technology