JUNE 18, 2015

Scholarship Award Event
Insights from Dr. Stephanie Lee

Come join us on June 18 as we present our Section's scholarships to seven student award winners and hear from an accomplished young researcher and professor, Dr. Stephanie Lee.

Dr. Stephanie Lee, a New Jersey native from Randolph Township, is currently an assistant professor at Stevens Institute of Technology in the Department of Chemical Engineering and Materials Science.

Prior to joining Stevens in 2014, she received a B.S. degree in Chemical Engineering from MIT in 2007, and M.A. and Ph.D. degrees in Chemical Engineering from Princeton University in 2009 and 2012, respectively. In addition to teaching at both the undergraduate and graduate level, Professor Lee leads a dynamic research team developing novel hybrid materials for optoelectronic applications, including lightweight, flexible solar panels. Her research has appeared in more than 20 peer-reviewed journal articles and has been presented at multiple national conferences over the past six years. At the scholarship event, Professor Lee will share insights from her journey in academia and the factors that shaped her career aspirations.

2015 Scholarship Winners

Congratulations to all the 2015 scholarship winners! These students will be honored at the upcoming June 18 awards meeting.

High School scholarship:
KEES SCHIPPER, Conestoga High school, intends to major in engineering, CHARLES WILLIAMS, The George School, intends to major in engineering

Undergraduate scholarship:
CHRISTINA SHENG, Rutgers, Material Sci. & Engineering, RACHIT MEHTA, Rutgers, Material Sci. & Engineering

Discretionary scholarship:
MICHAEL CRUZ, Rutgers, Mechanical Engineering/East Asian Studies

Ryan scholarship:
JAMES CARROLL, Penn State, Actuarial Science

Whitney scholarship:
ERRKAN SENSES, Stevens Institute of Technology, Materials Engineering
During my time at ANTEC®, I saw a variety of research topics and many companies that specialize in plastics. This was a special conference because it aligned with NPE: The International Plastics Showcase. There were industry professionals from all over the world that wanted to network and learn about the latest technologies for plastics manufacturing and processing. It was a very eye-opening experience because I was given opportunities to network and explore the entire industry from this conference. The best part about this conference was being able to check out the different booths of companies that displayed their processing and manufacturing machines. There were a variety of injection molders, extruders, mechanical testing machines, and other advanced technologies in the plastics industry.

Although I was the only student to go from Rutgers University, I met a lot of students at this conference, and there were several workshops targeted for students. We developed several skills, including leadership skills, by finding creative ways to attract students to participate in Society of Plastics Engineers (SPE). SPE put together a competition called the “Plastics Race” that enabled participants to explore the different booths at NPE and ANTEC®, network with industry professionals, and learn about the latest technologies and developments in plastics. There were various questions that were extremely difficult. Some of the industry professionals did not know some of the answers, so it was definitely a tough competition. We definitely learned a lot from plastics because of the competition.

In my presentation, I enjoyed presenting what I researched for the past year and a half. There were a handful of judges that asked numerous inquisitive questions. I was happy to know that many people know about the recycled plastic lumber technology and hope it can surpass the wood lumber industry someday. I was also able to check out the other presentations at the conference to learn more about the different research topics that occur in the plastics industry. The research I did will assess the way plastics are recycled in order to decrease the engineered plastics from the landfills so it can be used to manufacture recycled plastic lumber. Research can have many hiccups from equipment failures to general setbacks such as getting bad data; but it is the drive to discover something new and applicable in the world that allows me to continue. The ability to share my research with others who have similar interests was such a rewarding experience. I was given several tips on my research and how to do some processes differently. This experience gave me a goal to strive for in order to continue to present my research every year at ANTEC®.

Rachit Mehta
Society of Plastics Engineers
Palisades-New Jersey Section
in conjunction with
Polymer Modifiers and Additives Division
Annual Golf Outing 2015

Tuesday, June 2, 2015
Oak Hill Golf Club
15 Fernwood Road
Milford, NJ
Visit website or call for directions:
www.oakhillgolf.com  (908) 995-2285

Cost: $175.00 per golfer. Registration deadline – Tuesday May 26, 2015
Registration/lunch: 11:00 AM
Golf/Shotgun: 12:00 Noon
Dinner/Cash Bar/Awards 6:00 PM

$175 per Golfer includes all of this:

- Greens fees & cart
- BBQ lunch buffet
- Range balls
- Skill prizes
- Sit-down dinner
- Door prizes

Not a golfer? Join us for Dinner-Only: $50

Palisades - New Jersey Section
Polymer Modifiers and Additives Division

Contact person: Jim Williamson
Phone: 610-662-7779
Email: Jim.Williamson@doverchem.com

Hole Sponsorships Available
$100 per Hole

Make checks payable to Society of Plastics Engineers
and mail to:
Jim Williamson
SPE Golf Outing
1311 Thomas Oakes Drive
Pottstown, PA 19465 - 7275

Name

E-mail

Company/Affiliation

1. ________________________________________________________________
2. ________________________________________________________________
3. ________________________________________________________________
4. ________________________________________________________________
I attended committee and council meetings at the Orange County Convention Center in Orlando, Florida on March 21-22, 2015, followed by the 2015 ANTEC® and the SPI sponsored NPE. There were numerous topics discussed and objectives accomplished, but I will limit this report to some of the highlights and highly recommend you visit the new SPE website (www.4SPE.org) for further details.

Divisions / Sections / CCOW Meetings were attended by about 55 Councilors and a general consensus is that corporate support for Councilors to attend Council meetings is dying. We need to address ways to regain and grow this support.

Divisions Committee Chair Brian Landis reported that a new SIG for Additives Manufacturing/3Dp has been formed and already has over 100 members. Austin Coffey is the new Committee Chair and is looking for a Vice Chair.

Sections Committee Chair Monica Verheij reported eight student chapter petitions, including Stevens Institute of Technology. Also, the Toledo Section is back up and running with elected officers and Board of Directors that plans to support programs at The University of Toledo. Rodney Joslin is the new Committee chair and is also looking for a Vice Chair.

A significant portion of the CCOW meeting was consumed by presentations on The Foundation, Plastivan and “The Chain”. I will offer a summary of each, but encourage you to log into the SPE website for additional details.

Touting their success, vast administrative & financial experience, SPE National support and management of 36 student scholarships, “The Foundation” strongly encouraged Sections and Divisions to let them administer scholarship programs to save board members time and money.

Margie Weiner advised that the Plastivan Program is gaining support and quickly growing, especially in Southeast Michigan with support of the Automotive Division and Detroit Section, where they have added 2 Contract Educators who have already (this fiscal year) seen 19,000 students in 86 different schools. There are plans to hire a Contract Educator for both the Southeast and West Coast regions. Margie also showed a short video to promote the Plastivan Program.

Scott Owens gave a presentation on “The Chain” promoting it as an efficient means of communication with free access to all Divisions, Sections and SIGs, for all members and/or limited to Officers and BoD members. It also supports “Communities” designed to connect members with common interests & needs. He encouraged the use and promotion of “The Chain” by all Councilors. Successful in the first year, “The Chain” has already generated over $250K in advertising for the coming fiscal year which will support an ROI on the investment of the new Website of less than 2 years.

Successful in the first year, “The Chain” has already generated over $250K in advertising for the coming fiscal year which will support an ROI on the investment of the new Website of less than 2 years.

The CCOW also included two controversial discussions. The first was on proposals to change by-laws that could shift SPE control from Council to the EC. The second discussion was on the introduction of a free or low cost E-membership in hopes of increasing total membership numbers. Both of these discussions were continued during the Council meetings.

Council I and Council II: The following is a brief summary of Council with details posted on our website. The Finance Committee reported positive results with stable membership and a 20% improvement in advertising revenue. The question of TopCon performance related to the highly controversial change in payment to National from 30% net to 12% gross revenue was raised. We were advised that, since this change only took place last

Continued on page 5
summer, the EC will provide information to Council after a full year is completed.

Council participated in a one hour video presentation on “The Race for Excellence: 5 Radical Changes for Associations” followed by a video chat Q & A with the author, Mary Byers, C.A.E. which promoted the idea of limiting the Board of Directors. For SPE this suggests a reduction in Council size. Currently, about 100 Councilors are the “board of governance” which appoints a 10 member Executive Committee (EC) to control 12 full-time SPE employees. This presentation and video chat was the lead-in to an afternoon exercise breaking councilors into several small groups to arrive at suggestions for changing the current role of governance, how many people should be involved and how it should be organized. The results will be reviewed and posted. My primary concern was that I could not get an answer to my question about how SPE currently defines the role of governance.

As the result of the election of officers held during the Council I meeting, Scott Owens became President Elect, Olivia Crave is the new Senior VP, Monica Verheij is a new VP and Sandra McClellan is Chair of CCOW.

The posted 2015-2016 Operating Plan was approved by Council and W. De Vos also committed to having the long term SPE Strategic Plan posted.

During the Annual Awards Luncheon, Vijay Boolani turned the gavel over to new president Dick Cameron, where I was privileged to accept both the Pinnacle Gold and Communication Excellence Awards for the Palisades – New Jersey Section.

On Wednesday March 25th I attended the Student Luncheon, supported by the ANTEC® Student Activities Committee that raised over $35,000 to support travel awards given to over 100 students attending ANTEC® from around the world and 5 graduate and 5 undergraduate (Digital) Student Posters award winners.

The next Council Meeting is scheduled for 10-11, October 2015 and will be held at The Sheraton Hotel in Pittsburgh, PA.

The Stevens Student Chapter, sponsored by our section, was approved at the ANTEC® council meeting in March 2015. At the Chapter’s recent meeting, Mark Lavach introduced our Section and spoke to the students, who were from Chemical Engineering, Materials Science, Chemistry, and Mechanical Engineering departments. Shown are the officers of the student chapter (from left to right): President, Haoyu Wang; Liaison, Jing He; Vice President, Siyang Yang; and Secretary, Siqi Liu.

### Flame Retardant Concentrates & Compounds

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Carrier Resin</th>
<th>LDR</th>
<th>Usage For V-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>100532</td>
<td>0-Halogen</td>
<td>PE</td>
<td>100%</td>
<td>Compound</td>
</tr>
<tr>
<td>103132</td>
<td>0-Halogen</td>
<td>EVA</td>
<td>100%</td>
<td>Compound</td>
</tr>
<tr>
<td>11371</td>
<td>Brominated</td>
<td>PE</td>
<td>18-20%</td>
<td>Concentrate</td>
</tr>
<tr>
<td>401155</td>
<td>Brominated</td>
<td>PP</td>
<td>18-20%</td>
<td>Concentrate</td>
</tr>
</tbody>
</table>

Other flame retardants, foams and specialty additive concentrates for various resin types (HDPE, PVC, PP) are available.

Contact Joe Serbaroli at: joseph.serbaroli@ampacet.com or:

**Ampacet Corp., Tarrytown, NY 800-888-4267**
However the plastic processing industry develops in the coming years, you can rely on us to deliver the plastic additives solutions you need. After all, working with our customers to enable new additives applications and innovative solutions has been part of our DNA for many decades. So today, no one is better placed to enable you to successfully achieve your goals.

www.plasticadditives.basf.com

Michael J. Carnese
Sales Representative
(908) 874-4700 x451
Cell: 732.208.1333 Direct: 732.828.4686
mjcarneese@juno.com

Century 21

OMYA, INC.
9987 Carver Road, Suite 300
Cincinnati, OH 45242

Tel (770) 500-0373
Rabun.Lewis@omya.com
www.omya.com

Ken-React® Titanates, Zirconates and Aluminates
Ken-Stat® Antistatic Agents
Kenflex® Polymeric Plasticizers & Kenplast® Plasticizers

Ken-React® LICA® 38 allows increased filler, decreased plasticizer, finer cell structure, flame retardance—while increasing flexibility & flow in plastics. www.4kenrich.com

Residential, Commercial, and Relocation Real Estate Specialist.
Michael J. Carnese

Century 21

Rabun Lewis
Key Account Manager Polymers

OMYA Chemical Corporation
A Subsidiary of ICC Industries Inc.

High Performance Additives for Plastics
Antioxidants:
Doverphos® S-9228
Dovernox® 10 & 76

Heat Stabilizers:
Doverphos® liquid phosphites
Doverphos® HiPure 4

Lubricity Additives:
Doverlube® Ca & Zn stearates

Flame Retardants:
Chlorez®, Paroil®, Doverguard®

Jim Williamson, Eastern Regional Sales Manager
Phone: 330-284-0600; Fax 330-365-3987
Email: jim.williamson@doverchem.com

Dover Chemical Corporation

We create chemistry that makes enablers love plastics.
Your Global Source for Additives

- Akcrostab® and Interstab® Heat and Light Stabilizers for PVC (Mixed Metal and Tins)
- Intercide® Microbiocides
- Bonding Agents
- Plastoflex® Epoxy Plasticizers
- Interstab® Lubricants

For research, technical service, manufacturing, marketing and customer service, contact Akcros today.

Akcros Chemicals
500 Jersey Avenue, New Brunswick, New Jersey 08901
Tel: 732-247-2202 Fax: 732-247-8416
ISO 9002 and ISO 14001 Certified
www.akcros.com
Let Norac show you how our high quality metallic stearates and related products provide solutions for your polymer processing problems and enhance your profitability.

Our products find use as lubricants, mold release agents, acid scavengers, and costabilizers in the PVC, Polyolefin, Thermoset, and Rubber Industries. Our line includes Stearates of Calcium, Zinc, Magnesium, Aluminum, Lithium, and Sodium.

NORAC, Inc.
405 SOUTH MOTOR AVENUE
AZUSA, CALIFORNIA 91702-3232
(626) 334-2908 FAX (626) 334-3512

---

Keep tomorrow in mind with all that we do today.
With continuous innovation for over 50 years, we created LOXIOL®, today’s most sought after natural-based plastic additive. This paved the way for more application of plastics in various industries, making us one of the world’s leading natural-based chemicals producers. With a 170-year-old heritage, global distribution network and commitment to research and technology, we can help formulators meet market demands for sustainable and high performance solutions while working towards a greener future for plastics too.

---

NORAC® ADDITIVES
COAD® and MATHE® Metallic Stearates

---

EXTRUSION ENGINEERS
DAVID W. RILEY PLASTICS PROCESSING CONSULTANT
Fellow ASTM, SPE, AIC, AAAS www.extrusionengineers.com

858 Princeton Court, Branchburg, NJ 08853
Business & Fax (908) 369-7260 email drdriley@aol.com

---

POLYMER ADDITIVES GROUP
FLAME RETARDANTS & SMOKE SUPPRESSANTS

• LOW SMOKE SOLUTIONS
• CHAR FORMERS
• FR PLASTICIZERS

Zn • Mo • Sn • Al • P • Br • Sb • Mg
Molybdates•Borates•Hydrates•Carbonates•Stannates
Phosphates•Antimony Synergists•Melamine•Bromine
Antimony and AOM Replacements

Trusted Brand Names
CHARMAX™ BROMFLAM™ FOSFLAM™ HYDRAX™ HYDRAMAX™

(317) 290-5006 • Indianapolis, Indiana • www.pagholdings.com info@pagholdings.com

---

MONSON COMPANIES
Member of National Association of Chemical Distributors
Providing the highest quality raw materials and superior service to the plastics, polymer, and coatings industries for over 20 years.

• Metallic Stearates • Fillers
• Plasticizers • Waxes • Pigments
• Heat Stabilizers • UV Absorbers
• Antioxidants • HALS • Biocides
• Optical Brighteners • Much More!
Phone 908-526-6800 Fax 908-526-7430/7412
See us on the internet at www.monsanoco.com

---

RKTECH
www.rk-tech.com
rktech@att.net
PH/FX 609.799.9034

RK Tech Inc.
Leader in PVC Technology
35 Hamilton Lane
Plainsboro, NJ 08536

---

VOLUME 53 NUMBER 8 JUNE 2015
BOARD OF DIRECTORS AND COMMITTEE LIST

2014-15 Officers
S.T. Lee Sealed Air President 201-712-7142 st.lee@sealedair.com
Michael Fisch Consultant 1st Vice President 201-888-9066 mhfisch@alumni.caltech.edu
Giorgiana Giancola Kobo Products 2nd Vice President 732-986-1144 giorgiana.giancola@gmail.com
Francis McAndrew Retired Treasurer 732-986-1144 fbmcandrew@verizon.net
Lenny Davis Sun Chemical Corp. Secretary 201-933-4500 (x1296) leonard.davis@sunchemical.com
Tom Martin Tekni-Plex Councilor 201-600-6874 Tom.Martin@Tekni-Plex.com
Mark Lavach Arkema, Inc Past President 610-678-6985 mark.lavach@arkema.com

2012-15 Directors
Brian Gibson Tekni-Plex Director 973-743-7850 (Home) BGibson322@aol.com
Paul Nardone Consultant Director 973-670-0234 pnardone1952@gmail.com
Robert MacFarlane, Jr. THO Services Director 973-410-0590 THOServices@aya.yale.edu

2013-16 Directors
Rich Bradley Shawnee Chemical Director 203-938-3003 rbradley4shawchem@gmail.com.
Ron Klein Daikin Americas, Inc Director 845-365-9537 rklein@daikin-america.com
Len Krauskopf Vinyl Consulting Co. Director 609-275-4561 lenkrauskopf@comcast.net
Sal Monte Kenrich Petrochemicals Director 201-823-9000 sjmonte@4kenrich.com

2014-17 Directors
Mike Carnese Consultant Director 732-208-4333 mjcarneese@msn.com
Art Finkle BASF Director 203-371-6677 arthur.finkle@BASF.com
Stuart Kapp American Leisritz Director 908-685-2333 skapp@alec-usa.com
Arya Tewatia Rutgers University Director 908-565-1231 aryatewatia@gmail.com

Committee Chairs
Past Presidents Advisory: Mark Lavach 610-878-6985 mark.lavach@arkema.com
Awards: Paul Nardone 973-670-0234 pnardone1952@gmail.com.
Finance: David Riley 908-369-7260 drdavidwiley@msn.com
Education Chair: Brian Gibson 973-743-7850 (Hm) BGibson322@aol.com
Endowment Fund: J. Stephen Duerr 908-500-9333 chenlabconsulting@gmail.com
House: Pete Hayles 732 239-8984 phayles@monsonco.com
Membership: Mike Carnese 732-208-4333 mjcarneese@msn.com
Program: Jay Kotak 609-799-9034 rktech@att.net
Publications: Jennifer Markarian 908-638-5669 njmarkarian@comcast.net
Rules & Org.: Robert MacFarlane, Jr. 973-410-0590 THOServices@aya.yale.edu
Special Events: Jim Williamson 610-662-7779 jim.williamson@doverchem.com
Sponsorship: Pete Hayles 732-239-8984 phayles@monsonco.com

Emeritus Directors
Jay Kotak rktech@worldnet.att.net 609-799-9034
Dr. David Riley drdavidwiley@msn.com 908-369-7260

CONGRATULATIONS

Congratulations to the newly elected SPE Palisades-New Jersey Section Board of Directors Members for the term of 2015-2018:
Matthew Bobertz
Jack Dispenza
Robert Kappus
Robert Smith

Thank you for your willingness to volunteer your time and expertise!

NEXT NEWSLETTER PUBLICATION

The next newsletter will be published in September. Contact us if you want to sponsor the newsletter with an advertisement in the 2015-2016 year.

Have a great summer!