SPEC SHEET
Newsletter of the Palisades - New Jersey Section
PALISADES NEW JERSEY
THE SOCIETY OF PLASTICS ENGINEERS
JANUARY 2020

MEETING LOCATION:
Rutgers Busch Campus
Fiber Optics Building

THURSDAY, JAN. 23, 2020

4:00 - 5:00 PM	Board Meeting, *Fiber Optics Conference Room 101*
5:00 - 6:00 PM	Appetizers & Networking Fiber Optics Lobby *(also known as the Easton Hub)*
6:00 - 8:00 PM	Technical Presentation *Fiber Optics Auditorium*

Members and guests:	$25
Unemployed members:	$15
Students and faculty:	free with RSVP

RSVP by **CLICKING HERE**
A link to register for parking will be sent to those who RSVP. Contact us at info@spe-pnj.org with any questions.

Directions and map to the Rutgers Busch Campus Fiber Optics Building, p 2. The building is a 7-minute walk along the pathway from the parking lot. The Fiber Optics building faces the MSE Building *(also known as the Mclaren Center for Ceramics Research, where we met in April 2018).* If you need to ask someone for directions, ask for the MSE Building.

2020
UPCOMING IMPORTANT DATES

January 25 (Saturday) – Plastics Chemistry Fair, Franklin Institute, Philadelphia

February 20 (Thursday) – Section Meeting Medical industry topic, Fox Hollow Golf Course

March 30 (Thursday) – ANTEC®

April 21-22 (Tues/Wed) – Plastics Processing TopCon hosted by Lehigh Valley Section

May 14 (Thursday) – Scholarship and Awards Night @Olde Mill Inn

October 20-22, 2020– Vinyltec®

THURSDAY, JAN. 23, 2020

Sustainability in Plastics: Recycling Innovations

Dr. Thomas Nosker, Rutgers University
Eric Olsson, Braskem
Jun Wang, Colgate Palmolive
Salvatore Monte, Kenrich Petrochemicals

Welcome to the new year! If we had to pick a word or phrase for the coming decade for the plastics industry, perhaps it might be "sustainability" or "circular economy." These ideas are not new—the green chasing-arrows recycling logo was invented in 1970 by a 23-year old college student (Business Insider, 2012), and the "reduce, re-use, recycle" mantra was born sometime in the 1970's. The plastics industry has been working on recycling innovations for decades as well, but the need for innovation in recycling has taken on a new urgency in the past two years. At our Thursday, January 23 section meeting, we will hear from four speakers who are innovators and experts in plastics recycling.

The Palisades-New Jersey Section of the Society of Plastics Engineers is fortunate to have as a member one of the pioneers in creating materials from recycled plastics. Dr. Thomas J. Nosker, an Assistant Research Professor in the Materials Science and Engineering Department at Rutgers, the State University of New Jersey, and his team have been patenting inventions in plastics composites derived from recycled plastics since the early 1990's. One of the group's many success stories was the creation of structural lumber made with recycled plastics (Rutgers News). At our upcoming section meeting, Dr. Nosker will share his expertise in recovering plastic materials and processing them into new products.

Braskem, a global producer of polymers and biopolymers with US headquarters in Philadelphia, has been experimenting with a range of ways to help make plastics more sustainable. The company's commercial I'm green™ Bio-Based polyethylene and EVA resins, for example, are sourced from a renewable feedstock—sugarcane. Braskem recently launched I'm green™ Recycled polypropylene, which uses a waste stream destined for the landfill (PP twine from hay bales) as a feedstock (Braskem PRNewswire, Oct. 17, 2019). The company partners with other companies in a variety of sustainability initiatives. For example, Braskem and Made In Space developed a self-contained plastics recycling facility to deliver to the International Space Station (ISS). The "Braskem Recycler" is designed to "convert plastic waste and 3D printed objects into feedstock that can be used by additive manufacturing facilities currently on the ISS" (Made in Space, Oct. 29, 2019). Come to our meeting to hear about some of these initiatives and more. Eric Olsson, Sustainability Projects and Market Strategy for Braskem America, will speak about sustainability needs in plastics recycling.

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Driving Directions to This Month's Meeting - Rutgers University

Arriving via Route 18 North

1. Take the exit toward Campus Rd/Rutgers Stadium/Busch Campus
2. Merge onto Campus Road
3. At the traffic circle, take the 1st exit onto Bartholomew Rd.
4. Turn left onto Brett Road at the first intersection (4-Way Stop Sign)
5. Take the first right onto Bowser Rd
6. Last Parking lot on the Left is Lot 59.

Arriving via 287 South

1. Take exit 9 for River Rd toward Bound Brook/Highland Park
2. Turn right onto River Road. Go 2.4 miles.
3. Turn left onto Hoes Ln W.
4. Turn slight right onto Frelinghuysen Rd. Continue onto traffic circle.
5. At the traffic circle, take the 3rd exit onto Bartholomew Rd.
6. Turn left onto Brett Road at the first intersection (4-Way Stop Sign)
7. Take the first right onto Bowser Rd
8. Last Parking lot on the Left is Lot 59.

Arriving via 287 North

1. Take exit 9 for River Rd toward Bound Brook/Highland Park
2. Turn left onto River Road. Go 2.4 miles.
3. Turn left onto Hoes Ln W.
4. Turn slight right onto Frelinghuysen Rd. Continue onto traffic circle.
5. At the traffic circle, take the 3rd exit onto Bartholomew Rd.
6. Turn left onto Brett Road at the first intersection (4-Way Stop Sign)
7. Take the first right onto Bowser Rd
8. Last Parking lot on the Left is Lot 59.

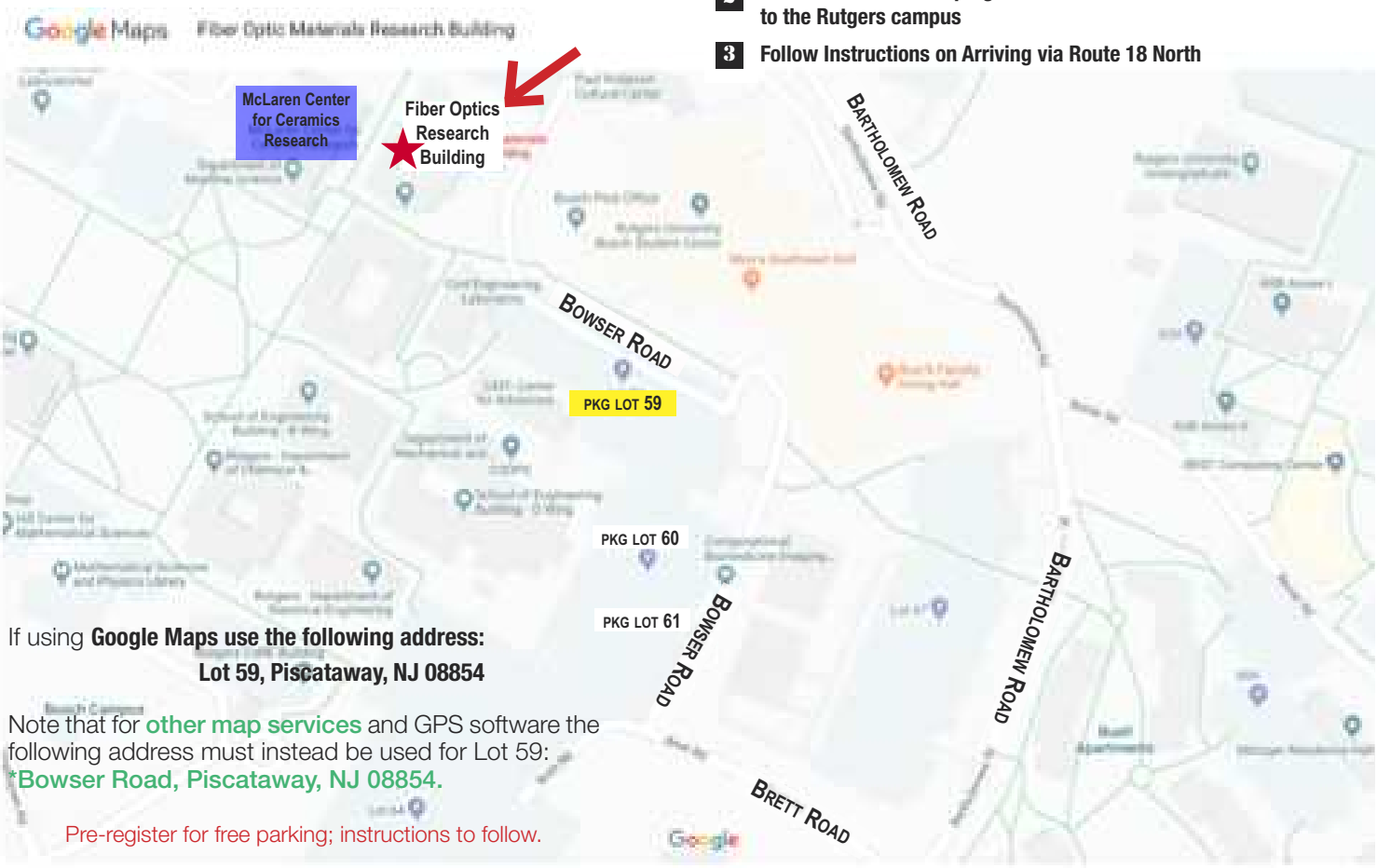
From the South via Routes I-95 and US-1

(also applicable from the north using US-1):

1. Follow Interstate 95 north through Philadelphia to cross the Delaware River into New Jersey.
2. Continue to Route 1 north.
3. Follow Route 1 to Route 18 north, about 20 miles.
4. Follow instructions on Arriving via Route 18 North.

From the New Jersey Turnpike:

1. Take Exit 9 (New Brunswick) of the turnpike.
2. After the tollbooth keep right to follow Route 18 north about 3 miles to the Rutgers campus
3. Follow Instructions on Arriving via Route 18 North



If using **Google Maps use the following address:**
Lot 59, Piscataway, NJ 08854

Note that for other map services and GPS software the following address must instead be used for Lot 59:
*Bowser Road, Piscataway, NJ 08854.

Pre-register for free parking; instructions to follow.

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SUSTAINABILITY IN PLASTICS: RECYCLING INNOVATIONS

Another need today is to design plastic products to be easily recycled. Colgate Palmolive—with a Global Technology Center that is a neighbor to Rutgers—recently announced commercialization of its new, recyclable toothpaste tube. The company's Tom's of Maine brand began using the new tube in 2019 and will complete the switch in 2020, and the Colgate brand will begin transitioning to the new tube this year. The company says it is sharing the technology "as part of its campaign to transform one of the most widely used forms of plastic packaging that until now could not be recycled," (Business Wire, Nov. 20, 2019). At our January. 23 meeting, we will hear from Jun Wang, Colgate Palmolive materials scientist, about the new tube construction.

Another challenge in plastics recycling is the mix of different, often incompatible, materials that comes through the post-consumer recycling stream. Salvatore J. Monte, President of Kenrich Petrochemicals, is an inventor and innovator in the area of coupling agents and a member of the Plastics Industry Association Recycle Subcommittee on Compatibilizers. Sal is also a long-time Palisades-New Jersey Section Member, SPE Fellow and Honored Service Member, and we are happy to announce that he will present some of his latest work on compatibilizing dissimilar materials in thermoplastics recycling using nano-titanium technology.

Join us in the Fiber Optics Building on the Busch campus of Rutgers *(see page 2 this newsletter for directions)* for refreshments and networking from 5-6 pm, followed by presentations from 6-8 pm. Students, faculty, and SPE members and guests are all welcome. There is no cost for students or faculty *(with RSVP)*; all others are $25 *(cash or check).* RSVP at this link today to join us this exciting and informative event. Contact us at info@spe-pnj.org with any questions.

Councilor's Report

The Council Meeting on November 14-15 was held at the new Headquarters at the Summit at Danbury, which is the re-purposed former Union Carbide/Dow building in Danbury CT. There are multiple tenants and on-site conference meeting facilities.

Fifty-nine councilors were in attendance. In the Council as a Whole, we discussed areas that were submitted for discussion by the Councilors, including ways to counter negative publicity about plastics, sustainability as a platform across the society, and ways to keep geographic members engaged when their sections boards have become non-functioning. We also had some brief discussion about the recommended governance re-structure which was a major part of the Council meeting agenda.

Council meeting highlights:
The Society continues to operate at a deficit. The Society's investment portfolio interest and dividends keep it afloat. Pat Farrey's goal as CEO is to close that gap. They are looking at charging differently for Staff's services *(e.g., bundling services and charging more competitive rates for Topcons etc.)*

They have instituted "Plastics For Life" as a new award program for Products developed in Plastics.

After much discussion, a new governance model was voted in: the current executive board plus the CCOW chair *(11 members).* The main proposed benefit is streamlined decision making, as well as allowing Councilors to dedicate more time to the creative programs and services so that they society can reinvent itself. Motions were worded to assure the councilors that they would be able to turn back any decision/by-law change by 2/3 of the council vote.

The ANTEC® redesign is being pursued to revitalize ANTEC® – to attract more participation and gain new members. ANTEC® 2020 runs from March 29 to April 2 and will be at the Mariott RiverWalk in San Antonio. There will be workshops on Sunday from 1-4 PM. There will be 4 days of presentations with invited speakers and plenaries in the morning sessions. Afternoon sessions with be submitted papers presented by the various divisions. The morning presentations will be of general interest to the attendees and will be non-concurrent sessions. There will be more opportunities for networking interspersed throughout the program. The exhibitors will have more concentrated schedule with the Tuesday night reception on the floor of the exhibition.

Presentations by the SPE Foundation highlighted the Plastivan and Scholarship programs, which are highly effective. Eve Vitale, the Foundation Director, encouraged us to sponsor the Plastivan and get the word out.

Maggie Baumann, Councilor

Sponsor News

Dover Chemical Corporation Receives FDA Clearance for Stabilizer

Dover Chemical Corporation has received FDA clearance for Doverphos® LGP-12 as an antioxidant thermal stabilizer in polymeric food-contact articles in LLDPE under conditions of use A through H, at loading levels in the polymer up to 2000 ppm. The proprietary, liquid high molecular weight polymeric phosphite is a suitable alternative to any phosphite in polyolefin applications. It is also recommended for use in other resin systems where high performance and exceptional color hold is needed. This product is the next generation of the Liquid Green Phosphite products, which are polymeric and completely alkylphenol-free.

Board of Directors And Committee List

2019-20 Officers			
President	Mike Carnese	Consultant	732-208-4333
1st Vice President	Peggy Schipper	Valtris	610-745-6244
2nd Vice President	Arya Tewatia	Rutgers University	908-565-1231
Treasurer	Francis McAndrew	Retired	908-273-3152 (hm)
Secretary	Arya Tewatia	Rutgers University	
Councilor	Maggie Baumann	G.H. Associates	908-832-2207
Past President	Jack Dispenza	Design Results	908 797-2662

2019-20 Directors		
Vikram Bhargava	Retired	
Rob Decker	Norac	215-696-2008
Andres Ginez	Lanxess	732-266-6238

2020-21 Directors		
Art Finkle	The Finkle Consultancy	203-572-8923
Michael Fisch	Retired	
Martine Delgado	Rutgers University	

2021-22 Directors		
Joe Duska	Mainetti	732-778-1599
Bob Kappus	Consultant	908-619-5858
Mark Lavach	Arkema	610-878-6985

Emeritus Director	
Jay Kotak	Retired

Contact any person on this page by emailing info@spe-pnj.org

Committee Chairs		
Awards:	TBD	
Finance:	Art Finkle	203-572-8923
Education Chair:	Mark Lavach	610-878-6985
Endowment Fund:	J. Stephen Duerr	908-500-9333
House:	Pete Hayles	732 569-2368
Membership:	Jennifer Markarian	908-638-5669
Program:	Stu Kapp	908-685-2233
Publications:	Jennifer Markarian	908-638-5669
Section Liaison:	Bob Kappus	908-619-5858
Social Media Mgr.:	Peggy Schipper	610-745-6244
Special Events:	Jim Williamson	610-662-7779
Sponsorship:	Pete Hayles	732 569-2368

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PALISADES
NEW JERSEY

Secretary Needed

Volunteer Board Secretary Needed

We are looking for a member to volunteer as secretary of the board of directors for the 2019-2020 year. The secretary is asked to attend 6-8 board meetings and write meeting minutes. This is a great opportunity to get more involved with a dedicated group of people who are passionate about the plastics industry and are working for the success of SPE.

Please contact the board at info@spe-pnj.org if you are interested.

facebook

Check out our Facebook page

https://www.facebook.com/PalisadesSectionSPE

And our Website

www.SPE-PNJ.org