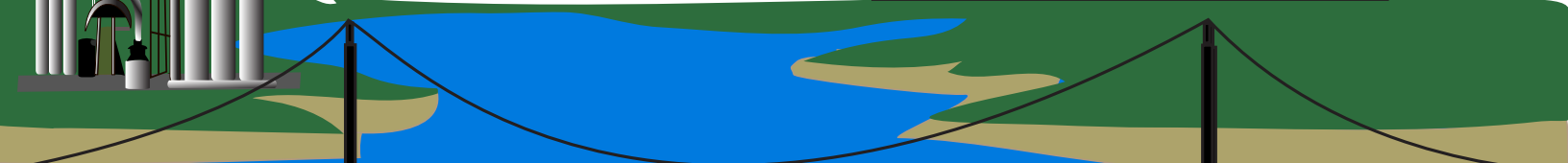
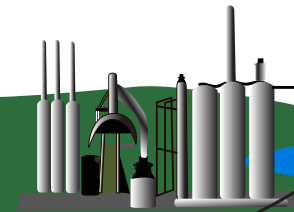


# SPEC SHEET



PALISADES  
MIDATLANTIC



Bridging the Lehigh Valley and Palisades-New Jersey Regions

## SPE PALISADES-MIDATLANTIC SECTION MEETING

Thursday, April 21, 2022

In-person at Rutgers University

### Presentations on Flame Retardant Additives for Polymers

#### *Introduction and Current Trends in Flame Retardants*

by Maggie Baumann, FRX Polymers

#### *A Novel Fire-Protective Coating*

by Rutgers graduate student Alyaa Elsaadany

#### *Current Trends in Flame Retardants*

Maggie Baumann

Fire Safety and Plastics material continues to be a topic of active discussion and importance. The IOT (Internet of Things), the evolution of transportation uses and our habitat offer challenges that the industry is working to meet. In our presentation we will offer an overview of the FR additives market and the opportunities and challenges it is meeting. We will briefly discuss an association which FR additives producers and users support, Pinfa (Phosphorus, Inorganic and Nitrogen) flame retardant producers association. We will cover the market for FR additives, recent FR innovation and challenges, Fire safety and its importance, how FR additives work, HSE (environmental and regulatory considerations) and future opportunities for Sustainable FR solutions.

#### *Development of Multifunctional Biodegradable Additives for Improving the Sustainability of Biopolymers*

Alyaa Elsaadany

The transportation of hazardous materials (hazmat) has been the subject of great attention by the railroad industry due to the severity of hazmat transportation accidents. Accidents related to hazmat transportation may result in catastrophic consequences, causing environmental pollution, fires and explosions, disruptions of service, economic losses, and even fatalities. One important factor requiring additional research is tank car thermal protection. This issue is particularly sig-

CONTINUED ON NEXT PAGE

### EVENT LOCATION:



Rutgers University

Busch Faculty Dining Hall A

*All events below at this location*

*(see parking & directions pg.3)*

### SCHEDULE:

Board Meeting	4:00-5:30
Networking	5:30-6:00
Meeting	6:00
Dinner & Presentations	6:00-9:00

### Cost for dinner:

with RSVP: \$40

at-door: \$45

unemployed SPE members with RSVP: \$25

students with RSVP: FREE

RSVP for the meeting by April 18 by filling

out the form [here](#). If you have any problems

with the form, contact

[info@spe-pnj.org](mailto:info@spe-pnj.org) or Pete Hayles, 732-569-2368.

### UPCOMING DATES

#### 2022

April 18-22 National Week of  
Plastics Processing

April 20 Virtual Plastics  
Processing Conference

April 21 Section Meeting  
*in person at Rutgers University*

May 19 Awards Night  
*Olde Mill Inn (Basking Ridge, NJ)*

nificant since railroads could use unit trains (which may carry over 100 tank cars) to transport large quantities of flammable liquids. This presentation will discuss research at Rutgers University on a new thermal protection system using radiative dissipation that functions differently than traditional thermal protective systems for tank cars. This new material has been evaluated in the Rutgers Material Science laboratory using fire tests, in accordance with USDOT regulatory requirement (e.g., 49 CFR 179.18) and in comparison with current state of the art materials used in the tank car industry.

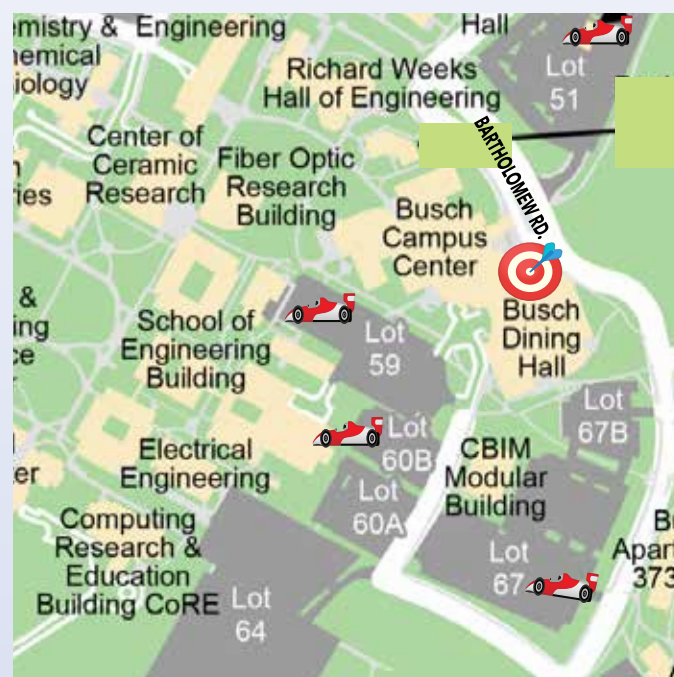
#### ABOUT THE SPEAKERS

**Maggie Baumann** has over thirty years of experience in the international plastics industry as a consultant and advisor. She has done many customized market reports and business analysis and planning through G.H.Associates, her consulting company. Her specialty is assessment of the potential market for new material-based technologies and market development including identifying partnerships and supply chain relationships. Maggie is currently the Councilor for the Palisades-MidAtlantic section and chairperson of the Marketing and Management Special Interest Group of SPE.

Since 2010, she has been serving as Business Manager- Americas for FRX Polymers, Inc., a Venture backed firm that developed and manufactures Polyphosphonate homopolymers, copolymers and reactive oligomers. Polyphosphonates represent an evolution in FR additives in that it enables new applications for flame retardant engineered materials. In late 2014 she founded Performance Polymers and Additives, a specialty polymeric material additives distributor. She also serves as vice-chair of Pinfa NA on behalf of FRX Polymers Inc. Pinfa NA is a not for profit trade group of FR Manufacturers and Users. Maggie can be reached at [mbaumann@frxpolymers.com](mailto:mbaumann@frxpolymers.com) or [mhbaumann@performancepa.com](mailto:mhbaumann@performancepa.com).

**Alyaa Elsaadany** is a third year graduate student in the Department of Materials Science & Engineering at Rutgers University, and a member of the AMIPP Research Center. In her first, year and a half she worked on tank car thermal protection systems. The primary focus of her doctoral dissertation will be on graphene reinforced polyethylene terephthalate prepared using in-situ high shear exfoliation under Dr. Thomas Nosker. Alyaa holds a BS in Chemical and Biomolecular Engineering from the New York University in New York, NY. Alyaa is a member of the Society of Plastics Engineers, and the Graduate Student Administration.

#### PARKING INFORMATION AND DIRECTIONS:



Register by clicking [here](#) Park in Lots 51, 59, 60B & 67. Special event permits are only for visitors to the University; Faculty, Staff, and Students must park only in lots they are authorized to park in. Visitors must register or you may receive a citation.

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

**For other map services** instead use: Bowser Road, Piscataway, NJ 08854.

The Busch Faculty Dining Hall is next to the Busch Student Center.

## 2022 SCHOLARSHIP APPLICATION NOW OPEN

The Palisades-Midatlantic Section of the Society of Plastics Engineers (SPE) is proud to offer academic scholarships to associated members who have demonstrated excellence in various fields of study. Listed below are the available scholarships and criteria. If you, or a family member, are interested in applying, please submit the required documents by April 20, 2022. If you would like to learn more about our scholarships, which honor our Section members, you can read the history [here](#).

If you are not a current member of SPE but you are interested in joining or becoming affiliated with the SPE Palisades-Midatlantic Section, please contact us at [info@spe-pnj.org](mailto:info@spe-pnj.org) or visit [www4spe.org](http://www4spe.org)

Scholarship Name	Scholarship Award	Number Available	Academic Criteria	Palisades-Midatlantic Section Criteria
Alva Whitney Graduate Scholarship	\$4000.00	1	Graduate study in any field. Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member
John Manson-Les Sperling Graduate Scholarship	\$2000.00	1	Graduate study in Physical/Chemical or Materials Science/Engineering Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member
Jack Ryan-Kris Mathur Undergraduate Scholarship	\$4000.00	1	Undergraduate study in any field. Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member
J. Stephen Duerr and John Manson-Les Sperling Undergraduate Scholarship	\$2000.00	2	Undergraduate study in Physical/Chemical or Materials Science/Engineering Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member
Richard Bradley Undergraduate Scholarship	\$2000.00	1	Undergraduate study in any field. Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member
Francis McAndrew and Sal Monte High School Scholarships	\$2000.00	2	Enrollment at 2 or 4 year college/university. Planned study in any field	Graduating High School Student at Time of Award. Child/grandchild of an active Palisades Midatlantic Section Member
Palisades-Midatlantic Scholarships	Varied	TBD	Graduate or undergraduate study in any field. Applicant must be in good academic standing	Full, affiliate, or student SPE member, OR child/grandchild of an active Palisades Midatlantic Section Member

To apply for a scholarship, please submit the documents listed below. Transcripts are confidential and not viewed by anyone outside of the evaluation team. Submit essays and any membership information by email to [mark.lavach@arkema.com](mailto:mark.lavach@arkema.com). If not using validated transcript service, submit official transcripts to Mark Lavach, Arkema, Inc., 900 First Avenue, King of Prussia PA 19406.

### Required documents:

- Official transcript (Submitted by mail or validated transcript service)
- A one to two page essay describing your contributions to your chosen field of study or how the scholarship award might help you to achieve your future goals.
- Your SPE membership number, or the name and membership number of the member to whom you are related.

The deadline for submissions is April 20, 2022, with awards announced in May 2022.

The SPE Palisades-MidAtlantic Section are pleased to announce the [SPE National Week of Plastics Processing Conference](#).

### WEDNESDAY (4/20) CONFERENCE TRENDS AND INNOVATION IN PLASTICS PROCESSING AND RECYCLING

The technical program will focus on topics including:

-  Current Trends in Plastics Processing and Compounding Technology
-  Advances in Plastics Processing
-  3D Printing
-  Sustainability & Recycling
-  And more!

To become a sponsor and/or exhibit, contact [Peggy Schipper](#)

Registration is open  
[Click Here](#) to register and go to site

### WORKSHOPS, TUTORIALS, & PRESENTATIONS

Monday (4/18) 10:00 AM- 11:00 AM  
Introduction to Polymers & Plastics Processing

Tuesday (4/19) 10:00 AM - Noon  
Plastic Processing Tutorials  
(Extrusion & Injection Molding)

Thursday (4/21) 10:00 AM - Noon  
Plastic Processing Tutorials  
(Additive Manufacturing)

Friday (4/22) Access to 2021  
Plastics Processing Conference Presentations

### REGISTRATION COSTS

Wednesday conference:

SPE Members \$99/non-members \$299

Workshops, tutorials, and presentations:


SPE Members No Charge/non-members \$49

### VINYLTEC® 2022: CHARTING THE COURSE FOR A SUSTAINABLE FUTURE SEPTEMBER 27-29, 2022 HOLIDAY CROWN PLAZA, KING OF PRUSSIA, PA

The Vinyl Division Technical Program Committee is soliciting papers and Keynote Speakers in the following areas:

- Resin and Additives
- Sustainability and Recycling
- Megatrends (Climate Change, Data analytics & Digital Connectivity, Decentralized Financing, Globalization, Health and Wellness, Populations Shift, Resource Constraints, Social Responsibility, Transparency, Workforce Resilience)
- Vinyl Industry Association Updates

Please Contact: TPC Chair, Peg Schipper  
[peggy@performanceadditives.us](mailto:peggy@performanceadditives.us)  
with proposed talk title and author.

Check out our [Facebook page](#)

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**Ken-React® Titanates & Zirconates**  
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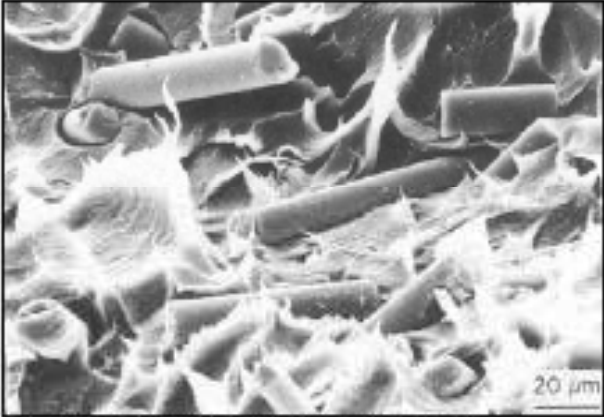


Figure 1. Scanning electron micrograph of Ken-React titanate/zirconate fibers in polyurethane matrix (100x).

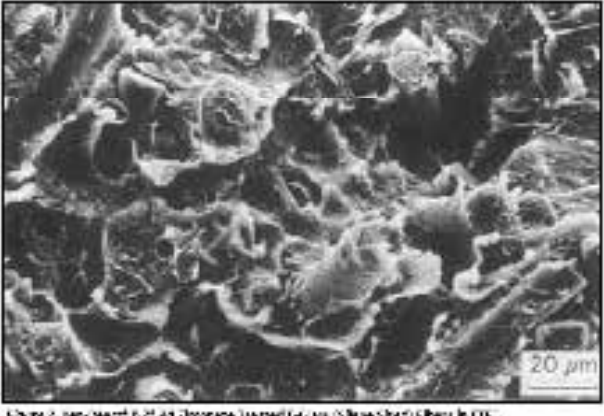




Figure 2. Scanning electron micrograph of Ken-React titanate/zirconate fibers in polyurethane matrix (100x).

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Contact any person on this page by emailing [info@spe-pnj.org](mailto:info@spe-pnj.org)

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