



April 2023 Newsletter

In-Person Meeting

April 6th, 5:30 pm, Evonik Corporation

Student Night

Presentations from NYU Tandon, Rowan and Rutgers

2023 Regional Additive Manufacturing Symposium

Sponsor of the Month

Aurorium



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Student Night Presentations



Christopher Altamuro, William Beck, Caylei Hoffman, Alan Kwok, Ryan Leeds, and Ron Torculas - Rowan University

“Rowan University's Progress Towards Composites Research and Education”

Rowan is entering two teams to the SAMPE Bridge Building Competition for the first time. The teams are actively working through fundamental progressions from material selection, characterization, and composite processing. The students will be presenting aspects of their bridge design process as well as ongoing interdisciplinary composite research at Rowan University.

Omer Keles - NYU Tandon School of Engineering

“Telecommunications and Space Debris: Adaptive Regulation Beyond Earth”

Adaptive governance structures via the UN Office for Outer Space Affairs, International Telecommunication Union, and private/public space agencies are proposed to deal with the long-term consequences of debris accumulation beyond the Earth's atmosphere. Through the usage of new technologies, non-partisan economic incentives, and clarification on acceptable environmental conditions, an adaptive governance model is key to making space safe for communication and research.

Vidita Gawade - Rutgers University

“Effectiveness of Work Design, Human Factors, and Ergonomics on Students’ Learning Experience”

Work Design and Ergonomics (WDE) is a core course in undergraduate engineering where students learn human factors and ergonomics to promote productivity and efficiency while easing workplace discomfort. Effectiveness of the WDE lab will be presented from two aspects: how COVID-19 affected teaching and learning; and how new lab enhancements drive students’ interest in human factors and ergonomics.

Meeting Details

- Date:** April 6th, 2023
- Location:** Evonik Corporation
2 Turner Place, Piscataway, NJ
(Directions on next page)
- RSVP:** [Click here](#)
RSVP by Mar 30, 2023
- Agenda:**
- 5:30 pm Networking
 - 6:00 pm Dinner
 - 6:30 pm Presentations
 - 8:00 pm Adjourn



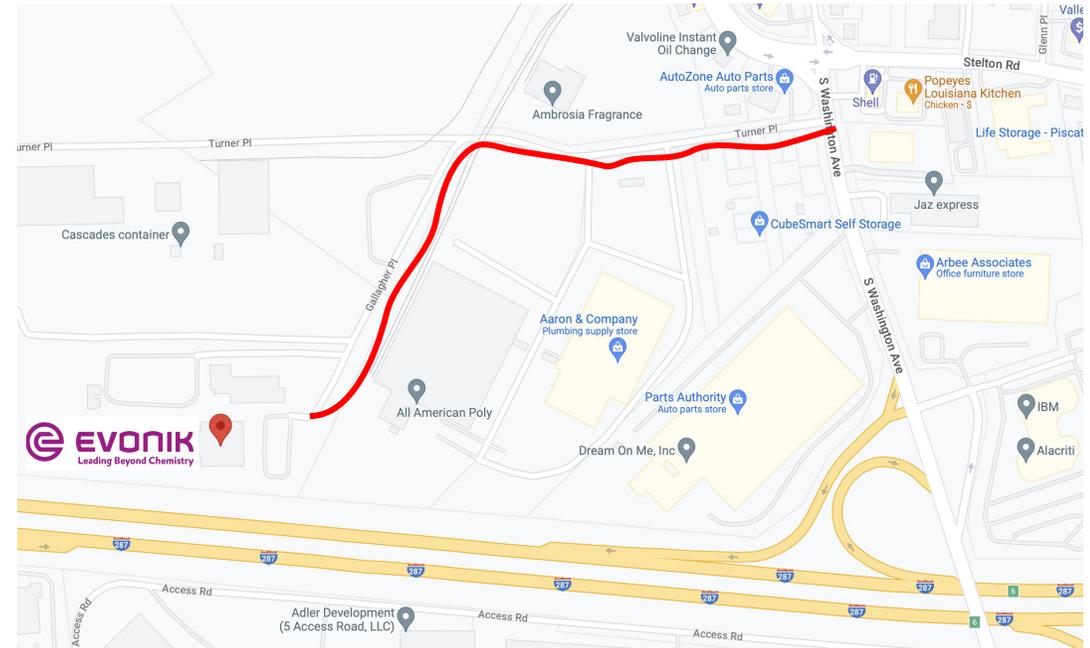
- Fee:** General admission: \$30 - Prepay via credit card or cash/check at door
Corporate Sponsors: First attendee is complimentary, then \$30 for all others
Students: Always free! Please RSVP to megan@njsampe.org to ensure an accurate headcount.

Meeting Details - Directions

Address: Evonik Corporation
2 Turner Place
Piscataway, NJ

Directions:

- The turn onto Turner Place from South Washington Road is next to the AutoZone store, across from Shell gas station. There is a sign for Evonik Technology Center on the sidewalk.
- Turn onto Turner Place. Drive all the way to the end on Turner Place. You will pass a storage facility on your left, then “Aaron Plumbing” and “All American Poly.” Keep going straight.
- At the end of the street you will cross railroad tracks and see the entrance to what looks like a very large warehouse space (green colored building). You will also see signs for Cascade Paper and Evonik. You are where you need to be!
- Cross the railroad tracks and enter the site. Turn left. Follow the road all the way to the end, where you will see Evonik signs and a fence. There will be a parking lot right in front of you. Do not turn right at the sign. Just keep going straight into the parking lot in front. We’ll meet you at the front door!



Monthly Meeting Preview

Mark your calendar! Looking forward to seeing you!

We are pleased to preview our schedule for the remainder of the season

April 6th - Student Night

Location - Evonik Corporation, Piscataway, NJ

May 4th – Suren Batra - Structural Maintenance of the World Trade Center and 9/11 - “I was there”

Location - Evonik Corporation, Piscataway, NJ

June 22nd – 2023 Regional Additive Manufacturing Symposium

Location - Rowan University, Glassboro, NJ

Contact Howard Kliger hskliger@comcast.net for speaker or sponsorship opportunities. All are welcome!

2023 Regional Additive Manufacturing Symposium - Registration Now Open

The New Jersey Chapter of SAMPE, in cooperation with the Rowan University College of Engineering and Advanced Materials & Manufacturing Institute (AMMI), is hosting a one-day symposium to highlight advancements in additive manufacturing technology and related research initiatives in the Greater NJ/NY/PA/CT area. This event will provide a forum for suppliers to showcase their products and for researchers to present their ongoing work. All participants are encouraged to explore collaboration opportunities.

Topics of interest include, but are not limited to:

- Additive manufacturing processes
- Novel materials
- Equipment developments
- Production experience and applications
- Challenges to wide-scale implementation
- Technical collaboration initiatives

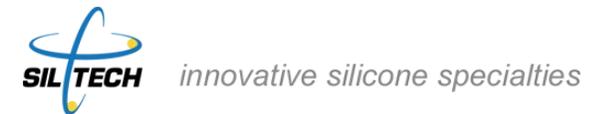
[Registration - click here](#)



We have invited participants from universities, research institutions, equipment/material suppliers, software developers, and end users/manufacturers to submit abstracts for consideration. No formal papers are required for presentations. Poster presentations will also be considered. The Symposium will collect and distribute all presentation materials to attendees. There will be a separate area for table top displays for material and equipment suppliers. Lunch will be served, with ample opportunity for side discussions and introductions. Registrants who are not SAMPE members will be credited a 1-year professional membership to SAMPE. Symposium sponsorship opportunities are available.

Thank You to Our Sponsors!

We are most pleased to acknowledge our New Jersey Chapter Corporate Sponsors for 2023-2024. These fine companies help us to continue our activities and programs.



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Sponsor of the Month – Aurorium

Formerly Vertellus, **Aurorium** is the materials innovation partner that helps global manufacturers harness the power of possibility to make the world a better place.

Prior to re-branding as Aurorium in March 2023, Vertellus completed six acquisitions since 2019: **Bercen Chemicals, Chemtrade Life Sciences, IM Chemical, Jarchem Innovative Ingredients, Polyscope Polymers, and Centauri Technologies.**

Centauri's expertise in hydroformylation and hydrogenation processes, including high pressure, high melt, and other complex capabilities, complements Aurorium's strategy.

Aurorium's portfolio of specialty ingredients and performance-enhancing materials serve key industries, including: coatings & adhesives, energy & electronics, transportation, healthcare, personal & home care, food & beverages, agriculture, and paper & packaging.

The high maleic anhydride functionality of **ZeMac™ co-polymers** is ideal for use in fiber and mineral sizings formulated for demanding automotive and infrastructure applications.

Xiran™ and Xibond™ styrene maleic anhydride (SMA) co-polymers, compounds, and aqueous solutions address unique challenges in specialty electronics, automotive, and adhesive applications.

Polycin™ polyols and Vorite™ pre-polymers are designed and paired to meet critical performance specifications of adhesive and sealant systems in challenging environments.

Single component **Sealrite™ gel sealant systems** deliver excellent hydrolytic stability with extremely low hardness, enabling low stress encapsulation.

The versatile **Morflex™ and Citroflex™ families of plasticizers** are compatible with a wide range of polymer systems. Offerings include non-toxic options suitable for phthalate replacement.



For more information, contact

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New Jersey Chapter

2023

Support the NJ Chapter of SAMPE

***Celebrating our 46th year of service to the greater
NY/NJ/CT/PA area***

- Attend a meeting***
- Network with industry peers***
- Make a presentation***
- Become a Corporate Sponsor***
- Volunteer***



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