



October 2022 Newsletter

In-Person Meeting

November 3rd, 5:30 pm, Vintage Tavern, Gillette, NJ

William Wolf, Sartomer USA LLC

“Material Strategies in 3D Printed Dental Appliances”

The Future of Industry Meetings

Sponsor of the Month

Kaneka Corp.



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Our Speaker

William Wolf leads a team of material scientists and engineers in the design of 3D printable photopolymers. He has been with Sartomer, a business line of Arkema group, for 11 years, starting as an applications engineer supporting key customer engagements, and now manages technical activities for the group. He holds a Bachelors degree in Chemical Engineering and a Masters in Materials Science, both from Drexel University.

Material Strategies in 3D Printed Dental Appliances

Acrylic and (meth)acrylate based chemistries have long provided the durability demands to succeed as dental appliances. Digitization and 3D printing workflows have begun to disrupt this industry challenging material scientists to design 3D printable materials capable of withstanding the rigors of the mouth. Materials designed for orthodontic applications commonly involve the combination of monomer, oligomer and photo-initiators where the balance is often optimized for mechanical, kinetics and rheology demands. We'll discuss durability challenges inside orthodontic applications and some formulation strategies to surmount these application demands.

Meeting Details

- Date:** November 3rd, 2022
- Location:** Vintage Tavern, 342 Valley Road Gillette, NJ 07933
<https://www.vintagetavern.com>
- RSVP:** E-mail Megan Casey at megan@njsampe.org
Please RSVP by October 28, 2022
- Agenda:** *Networking Social - 5:30 pm*
Dinner - 6:00 pm
Presentation - 7:00pm
- Fee:** General admission: \$30
Corporate Sponsors: First attendee is free, then \$30 for all others
Students: Always free
Prepay via PayPal to Megan Casey or cash/check at door



Monthly Meeting Preview

Mark your calendar! Looking forward to seeing you!

We are pleased to present our Fall 2022 Additive Manufacturing Series

September 8th – Yuebin Guo - Rutgers University

Rutgers University (with tour of Rutgers AM laboratory)

October 6th - Wangyang Ni – Stryker Corporation

Vintage Tavern, Gillette, NJ

November 3rd – William Wolf – Sartomer USA LLC

Vintage Tavern, Gillette, NJ

December 1st – Jaclyn McLaughlin – Rowan University

Rowan University, Glassboro, NJ

Contact Howard Kliger howard@njsampe.org for speaker or sponsorship opportunities. All are welcome!

October 2022 News

The Future of Industry Meetings

Meeting attendance at industry events including trade shows, technical conferences, and local meetings has waned in recent years, most notably with the onset of the pandemic in early 2020. Health concerns limited all types of social interactions, and the familiar environment of NJ SAMPE monthly gatherings to network, enjoy a meal with friends and listen to featured local speakers suddenly was off limits. In response, many organizations including NJ SAMPE transitioned to virtual meetings, but with the Fall 2022 season, we have returned to in-person meetings and the normal course of business. So...where is everybody?

NJ SAMPE serves a large geographic region, so we will now be hosting monthly meetings at various venues throughout NJ to accommodate our members and friends closer to New York City and Philadelphia. We've also contracted with restaurants and pubs to upgrade meal offerings and meeting spaces. While featured speakers will continue to showcase our SAMPE designation as an Additive Manufacturing Center of Excellence, other topics including professional development will be sprinkled into the schedule.

Live-streaming to increase participation is an ongoing topic, and we will continue to evaluate these and other ways to engage our membership. However, our 45-year tradition of local industry professionals coming together to network, learn from each other, and maybe find that next job or opportunity will continue.

Please join us at our next meeting and bring a younger colleague to help expand their network and gain visibility in the NJ SAMPE community.

Have an idea to improve our meetings? Drop us a line anytime at inquiry@njsampe.org



Thank You to Our Sponsors!

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



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Sponsor of the Month – Kaneka Corp.

Kaneka Corporation is a producer of chemical products including resins, pharmaceutical intermediaries, food supplements, synthetic fibers, and fine chemicals. Kaneka was established in 1949 when its main products were caustic soda, soap, cosmetics, edible oils, and electric wires. The company diversified into polymers, fermentation, biotechnology, electronics, and other fields. Business activities now span a broad range of markets: synthetic resins, resin products, chemicals, foodstuffs, pharmaceuticals, medical devices, electrical raw materials and synthetic fibers. Kaneka's 3,300 employees (8,400 including subsidiaries) meet customer needs on all continents, with subsidiaries in the United States, Belgium, Germany, Singapore, Malaysia, Australia, China, Vietnam, India, Taiwan, and South Korea.

KANE ACE MX is Kaneka's novel core-shell rubber toughening system for thermoset resins.

It is a predispersed CSR Masterbatch which enhances the physical properties of the resins through optimal dispersion of core-shell particles.

The liquid impact modifiers of Kane Ace MX achieve highly improved strength, improved fracture toughness and endurance without losing the heat resistant characteristics of thermoset resins.

Kaneka North America LLC is a subsidiary of the Kaneka Corporation, headquartered in Tokyo Japan.



For more information, contact:

The logo for Kaneka, featuring the word "KANeKA" in a bold, blue, sans-serif font. The letters "K", "A", "N", and "E" are in all caps, while "K" and "A" are in lowercase. The logo is set against a white background with a subtle blue glow effect.

Brian Churchill

Sr. Marketing Manager MX

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New Jersey Chapter

2022

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***Celebrating our 45th year of service to the greater
NY/NJ/CT/PA area***

- Attend a meeting***
- Network with industry peers***
- Make a presentation***
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