

We are pleased to present the following speaker for our September 17 virtual meeting – Details to follow!

Evonik Silane Technology for Composite Applications

Jacob Shevrin

Evonik Corporation

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Abstract

It is well known that glass fiber is a common reinforcing material in many types of composites, as the additional strength imparted by the glass fiber reinforcement allows for higher performance systems. Organofunctional silanes are often used to

covalently bond to the glass fiber surface, thus functionalizing the surface with an organic group that further couples into a polymeric matrix. For this reason, organofunctional silane coupling agents typically offer improved adhesion, mechanical protection, hydrophobicity, and chemical resistance to glass fiber reinforced systems. In this new work, we will analyze the wetting, surface tension, and other structural properties of glass fibers treated with a unique aminosilane in comparison to a commonly used aminosilane in the glass fiber industry.

Biography

Jacob Shevrin joined Evonik's Functional Silanes business line as an Applied

Technology Scientist in May of 2017. Since then, his research has focused on silanes for coatings, metal treatment, and glass fiber applications. Prior to joining Evonik, Jacob obtained an undergraduate degree in Physics from The Pennsylvania State University, and a masters degree in Materials Science & Engineering from Upenn.

MEETING DETAILS

This will be a virtual meeting utilizing Microsoft Teams. There is no charge for the meeting, which will begin at 12 noon on Thursday, Sept 17th.

**Log-in details will follow with
an email blast in a few days.
Save the date/time**



NEWSLETTER

September 2020

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



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2020– 2021 Meeting Schedule

**September 17, 2020 – Jacob Shevrin,
Evonik Corp.**

**September 21-24 – CAMX, On-Line
Conference**

October 1, 2020 – TBD

**October 15 Golf Outing, Picatinny
Arsenal**

November 5, 2020– TBD

December 3, 2020 – TBD

February 4, 2021 - TBD

March 4, 2021 - TBD

April 1, 2021 - TBD

May 6, 20201– TBD

**May 2021– SAMPE 2021, Long Beach
CA**

**June, 2021 – 2nd Annual NJ Additive
Manufacturing Symposium, at Rutgers
Weeks Engineering Building – in planning
stages now.**

Golf at Picatinny Arsenal

Please join us for our 37th Annual Golf Outing
Thursday, October 15, 2020
Picatinny Arsenal Golf Club, Picatinny, NJ
Everyone is welcome!

Contact Megan Casey at 610-427-3534 or
mbc872@gmail.com to sign up
RESERVATIONS WITH PAYMENT MUST BE
RECEIVED BY OCTOBER 1, 2020

Walk-ups are subject to availability and an
additional \$20 fee

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For more information,
please contact:

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- 2010-2018 R&D Chemist, ITW Performance Polymers Formulation and technical service of products in a variety of thermoset chemistries and applications.

Contact: (215) 620-7764
uc_phil@yahoo.com

Miles Petchler

I am a **chemist** who works developing resinous floor coatings for a building materials company. I am a **skilled formulator** who has created a diverse, easy to manufacture product line for my current employer based largely on feedstock materials for proactive cost optimization via sourcing.

I have also championed innovative ideas, such as using tile installation products to install wireless chargers for electric vehicles into floors. I presented this idea to the owner of the company. I am looking to expand my knowledge in coatings; cement products are my current employer's core competency, so R&D efforts with coatings are limited.

I take pride in my attention to detail, personal drive, and ability to solve problems outside of the skillset of a chemist. Please contact me if you would care to discuss the work I have done in more detail.

Contact: (860)575-6768
miles.petchler@gmail.com