

We are pleased to present the featured Guest Speaker for our November 2nd Meeting:

### New Developments in Anhydride Curing Agents for Pultrusion- Produced Advanced Epoxy Composites

Vinay Mishra, PhD  
Dixie Chemical

#### Abstract:

Composite parts can be produced via pultrusion at high throughputs, tied directly to resin reactivity. Many new advanced composite specifications call for superior mechanical, thermal & electrical properties, making anhydride-cured epoxy a good resin choice. However, to meet stringent economic targets with pultrusion, it can be attractive to consider faster reacting resins instead, e.g, polyesters & vinyl esters. This brings about styrene VOC emission issues and can force a compromise on the composite's design properties.

Dixie Chemical has developed new anhydride curing agents that greatly improve on epoxy pultrusion line speeds while maintaining superior cured properties. These products help broaden the range of applications that high-performance epoxy composites can target economically.

#### Biography

Vinay Mishra leads Thermoset Business Development & Technical Service for Dixie Chemical, focusing on the Composite market. He has 20 years of experience in various thermoset applications. Prior to Dixie, he held R&D leadership positions at companies such as Air Products (now Evonik), Sika & ITW. Vinay has a BS in Chemical Engineering from IIT, India & a PhD from Lehigh University. He has also completed an executive program at MIT SLOAN School of Management. Vinay has served industry organizations such as TRFA where he was President in 2009 & 2010.

#### MEETING DETAILS

Place: Bridgewater Manor, Bridgewater, NJ; (908) 658-3000

Time: 5:45 – 8:30

Cost: \$20.00 at the door. Free for students. Cash, check and PayPal options are available. This meeting is open to all SAMPE members, spouses, guests and other interested parties. For reservations or questions, please contact Megan Casey at [mbc872@gmail.com](mailto:mbc872@gmail.com) by noon Wednesday before the meeting. Meal options are available.

Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on the right.

### 2017 – 2018 Meeting Schedule

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**September 7, 2017** – Akm Samsur Rahman,  
New York City Technology College

**September 11-14, 2017** - CAMX, Orlando FL,  
postponed to December

**October 5, 2017** – Dan Kling, Foldstar Inc.

**November 2, 2017** – Vinay Mishra, Dixie  
Chemical

**December 7, 2017** – Steve Medlar, Rutgers  
Univ (Ret)

**December 11-14, 2017** - CAMX, Orlando FL,  
sponsored jointly by SAMPE and ACMA

**February 1, 2018** – To be Announced

**March 1, 2018** – To be Announced

**April 5, 2018** – Students Night

**May 3, 2018** – To be Announced

**May 21-24, 2018** – SAMPE Long Beach CA

**June 2018** – Field trip – Date To be  
Announced

**June 28, 2018** – 35th NJ SAMPE Golf Outing,  
Picatinny Arsenal

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### NYU Student Chapter Notes

The Department of Student Affairs at New York University,  
Tandon School of Engineering presents

#### All Things Bakelite: The Age of Plastic

Director John Maher will moderate the post-film discussion with special guests TBA. Reservations are required for campus security. Phone number and link will be announced. Until then, to be put on the guest list, please contact us at: [info@allthingsbakelite.com](mailto:info@allthingsbakelite.com).

When and Where:

**Wednesday, November 29th, 6:30 pm**

**New York University  
Tandon School of Engineering  
Pfizer Auditorium  
5 Metrotech Center, 1st Floor  
Brooklyn NY 11201**



## Sponsor of the Month: IMR Test Labs – division of Curtiss Wright

IMR Test Labs in Ithaca, NY is a Nadcap (MT, NMMT) and A2LA (ISO 17025) accredited testing laboratory offering a wide range of testing on fiber-reinforced composite materials. Additionally, IMR carries approvals from major manufacturers including Aurora Flight Sciences, GE, Gulf Stream, Sikorsky, SNECMA and others.

Analytical services offered include climbing drum peel, compressive properties, short beam strength, shear properties, flexural properties, tensile properties, sectioning/microscopy, failure analysis and other methods.

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