November 2017

Society for the Advancement of

Material and Process Engineering



New Jersey Chapter

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

New Developments in Anhydride Curing Agents for PultrusionProduced 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 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

.

November 2017

Society for the Advancement of

Material and Process Engineering

New Jersey Chapter



2017 – 2018 Meeting Schedule

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



November 2017

Society for the Advancement of

Material and Process Engineering

New Jersey Chapter



Executive Board

CHAIR

Borys Schafran Evonik Corporation 973-929-8172 borys.schafran@evonik.com

TREASURER

Megan Casey Total Cray Valley 610-363-4117 mbc872@gmail.com

SECRETARY

Russell Caspe Gentex Corporation 570-282-8588 rcaspe@gentexcorp.com

PROGRAMS

Howard Kliger 732-469-7646 hskliger@comcast.net

MEMBERSHIP

Jane Arlauskas
Evonik Corporation
973-929-8165
jane.arlauskas@evonik.com

DIRECTOR

Louis A. Pilato
Pilato - Consulting
732-469-4057/fax: 732-764-9747
lapilato@optonline.net

LIAISON, SAMPE Technical Excellence Committee

Russell Caspe Gentex Corporation 570-282-8588 rcaspe@gentexcorp.com

ADVISOR-AT-LARGE

John F. Osterndorf 973-248-5885 jfo0956@gmail.com

LIAISON, Student and Young Professional Outreach

Joe Abrantes
Evonik Corporation
732-981-5246
joe.abrantes@evonik.com

November 2017

Society for the Advancement of

Material and Process Engineering



New Jersey Chapter

Past Chairs, SAMPE Fellows and Senior Honorary Members

CHAPTER CHAIRS

1977 – 1978 Raymond F. Wegman

1978 – 1979 William J. Russell

1979 – 1980 Michael Michno

1980 – 1981 Fred H. Ancker

1981 – 1982 Natalia Chujko

1982 – 1983 Robert J. Narsavage

1983 – 1984 Richard W. Reiter

1984 – 1985 Howard S. Kliger

1985 – 1986 John Burlage

1986 – 1987 John F. Osterndorf

1987 - 1988 Thomas J. Green

1988 - 1989 Harry S. Katz

1989 – 1990 Benjamin M. Rasmussen

1990 – 1991 Harry Tenney

1991 – 1993 Louis A. Pilato

1993 – 1994 John Burlage

1994 – 1995 Richard A. Walther

1995 – 1996 Frans van Antwerpen

1996 – 1997 Kathleen A. Froelich

1997 – 1998 Gail D. DiSalvo

1998 – 1999 Ash Chopra

1999 – 2013 Benjamin M. Rasmussen

2013 – 2017 Borys F. Schafran

SAMPE FELLOWS

Fred H. Ancker

Harry S. Katz

Dr. Howard S. Kliger

Dr. Frank K. Ko

Robert Pickney

Dr. Louis A. Pilato

Leonard Poveromo

Raymond F. Wegman

Charles Weizenecker

Dr. Carl H. Zweben

CHAPTER CHAIR EMERITUS

Benjamin M. Rasmussen

SENIOR HONORARY MEMBERS

Richard G. Adams

Gail DiSalvo

Edward A. Gallagher

Robert Golick

Harry Katz

Howard S. Kliger

Charles N. Muldrow

Louis A. Pilato

Benjamin M. Rasmussen

William D. Timmons

Raymond F. Wegman Charles Weizenecker **SAMPE Best Chapter Award Winner:**

1990, 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001

SAMPE Chapter Service Excellence Award Winner:

2002, 2003, 2004, 2005, 2006 (award retired after 2006)

SAMPE Chapter Sponsored Conferences:

ISSE – 1990 (Anaheim), 1994 (Anaheim), 1996 (Anaheim), 1998 (Anaheim), 2002 (Long Beach)

ISTC – 1981 (Mt. Pocono), 1989 (Atlantic City), 2006 (Dallas), 2009 (Wichita), 2012 (Charleston)

ISEC - 1994 (Parsippany)





November 2017

Society for the Advancement of

Material and Process Engineering

New Jersey Chapter



Chapter Sponsors

Airtech International, Inc.

Tony Constantino
5700 Skylab Road
Huntington Beach, CA 95647
714-899-8100
Fax: 714-899-8179
tconstantino@airtechintl.com
www.airtechintl.com

A&C Catalysts, Inc

Abe Goldstein 1600 W Blancke St Linden, NJ 07036 908-474-9393 agoldstein@ac-catalysts.com www.ac-catalysts.com

Ames Rubber Corporation

Ben Bordoloi 19 Ames Boulevard Hamburg, NJ 07419 Ben.bordoloi@amesrubber.com www.amesrubber.com

Bally Ribbon Mills

Dr. Amir Islam
23 North 7th Street
Bally, PA 19503
610-845-2211
amirislam@ballyribbon.com

Broadview Technologies, Inc.

Jason Tuerack
7-33 Amsterdam Street
Newark, NJ 07105
973-465-0077
jtuerack@broadview-tech.com
www.broadview-tech.com

Coast Line International

Patrick McMenanin 200 Dixon Ave Anityville, NY 1170 631-226-0500 patrickm@coast-lineintl.com

Composite Prototyping Center

Leonard Poveromo
121 Express Street
Plainview, NY 11803
631-875-2200
lpoveromo@compositepro.org
www.compositepro.org

Evonik Corporation

Borys Schafran 299 Jefferson Rd Parsippany, NJ 07054 973-929-8172 borys.schafran@evonik.com jayhawk.evonik.com

Fabric Development Inc.

Mary P. Shafer
1217 Mill Street
Quakertown, PA 18951
215-536-1420
mshafer@fabricdevelopment.com
www.fabricdevelopment.com

General Magnaplate

Edmund Aversenti 1331 US Route 1 Linden, NJ 07036 908-862-6200 eaversenti@magnaplate.com www.magnaplate.com

Gentex Corporation

Russell Caspe PO Box 315 Carbondale, PA 18407 570-282-8588 rcaspe@gentexcorp.com

IMR Test Labs

Bill DeLaurier 131 Woodsedge Drive Lansing, NY 14882 607-533-7000 sales@imrtest.com



November 2017

Society for the Advancement of

Material and Process Engineering

New Jersey Chapter



Chapter Sponsors (continued)

Northern Composites

Michael Leedie 102 Tide Mill Road Hampton, NH 03842 860-550-3240 mleedie@northerncomposites.com www.northerncomposites.com

Novoset LLC

Dr. Sajal Das 87 Main Street, Peapack, NJ 07977 908-470-4200 www.novoset.com

3HTi

Garry Hoffman 3000 Atrium Way #296, Mount Laurel, NJ 08054 609-953-2175 ghoffman@3hti.com www.3HTi.com

Technical Fibre Products Inc.

John Haaland 679 Mariaville Road Schenectady, NY 12306 518-280-8500 john.haaland@techfibres.com www.tfpglobal.com

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.

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

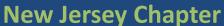


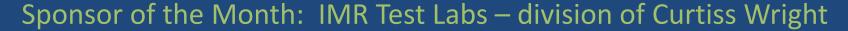


November 2017

Society for the Advancement of

Material and Process Engineering





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.

IMR has six facilities located in New York, Kentucky, Oregon, Singapore, China and the U.K. offering chemical analysis, cleanliness testing, corrosion testing, mechanical testing, metallurgical analysis, failure analysis and fatigue testing.

Behind the doors of IMR's labs are over 200 knowledgeable, experienced professionals — Ph.D.s, engineers, chemists, metallurgists, technicians and support staff — who work side by side with clients in a diverse range of industries including Aerospace, Automotive, Medical Device, Oil & Gas and Energy.

For information about specific accreditations and approvals, please contact us or visit our website at www.imrtest.com/accreditations

For information, please contact:

sampe

New Jersey



IMR Test Labs

Dennis Prentice 131 Woodsedge Drive Lansing, NY 14882 607-533-7000 dennis.prentice@imrtest.com www.imrtest.com

