

# NEWSLETTER

May 2016

## Society for the Advancement of Material and Process Engineering

### New Jersey Chapter



We are pleased to present the featured Guest Speaker for our May 5th Meeting:

## Structural Epoxy Adhesives Overview

Dilip Shah  
Director of Sales and Marketing  
ACCI Specialty Materials  
Linden, NJ

### Biography

After receiving an MS in Polymer Science and Engineering from Lehigh University, Dilip spent 6 years at Lord Corporation and developed two-part structural adhesives for the auto industry. In 1990, he joined Air Products and Chemicals and worked in their epoxy curing agents business and held several technical positions. His primary responsibilities include technical service and product development for the structural adhesives, composites and coatings markets. In 2015, Dilip joined ACCI Specialty Materials as Director of Sales and Marketing.

### MEETING DETAILS

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

Time: 5:45 – 8:30

Cost: \$15.00 Adv Registration; \$20.00 at Door; Students – Free  
This meeting is open to all SAMPE members, spouses, guests, and other interested parties

Reservations contact John Osterndorf at 973-248-5885 or at [jfo0956@gmail.com](mailto:jfo0956@gmail.com) by noon Wednesday before the meeting.  
Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on the 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.

### Abstract

Structural adhesives are widely used in automotive, electronics, aerospace and general Industrial markets. The presentation outlines different types of structural adhesives with an emphasis on epoxy resin based adhesives, typical formulations and types of curing agents used in one and two part epoxy adhesive systems. Typical test methods, applications and market requirements will be briefly summarized.



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Other notes:

**Copies of the student presentations from the April meeting may be obtained from the students directly:**

New Perfluoropolymer Synthesis for Gas Membrane Separation  
Joseph Madrazo, NYU  
[jam1072@nyu.edu](mailto:jam1072@nyu.edu)

Strengthening Autoclaved Aerated Concrete Beams using Basalt Fabrics with Inorganic Matrix  
Alaa Abd Ali, Rutgers  
[aaa215@scarletmail.rutgers.edu](mailto:aaa215@scarletmail.rutgers.edu)

Mechanochromic Soft Materials for Mechanical and Fluid Sensing  
F. Cellini, S.D. Peterson and M. Porfiri, NYU  
[fc975@nyu.edu](mailto:fc975@nyu.edu)

Calcium and Carbon Dioxide Effects on the Viscosity of Mucin  
Alyssa D'Apice, NYU  
[amd736@nyu.edu](mailto:amd736@nyu.edu)

### GOLF OUTING July 7th

NJ SAMPE welcomes members and guests to our 33<sup>rd</sup> ANNUAL GOLF OUTING



DATE:	Thursday, July 7, 2016
PLACE:	Picatinny Arsenal Golf Club, Picatinny Arsenal, NJ
TEE TIME:	11:00 am
GOLF AND DINNER:	\$125 each or \$475 for a complete foursome. NJ SAMPE Corporate Sponsors will receive a \$25 discount for their first golfer. Package includes: <ul style="list-style-type: none"><li>• Greens fee &amp; golf cart</li><li>• NJ SAMPE gifts</li><li>• Short game practice facility</li><li>• Access to locker rooms, showers</li><li>• Cash bar at 19<sup>th</sup> hole</li><li>• Banquet dinner with carving stations</li></ul>
DINNER ONLY:	\$35 each



The picturesque Picatinny Golf Club is located on Picatinny Arsenal in Northern New Jersey. Established in 1921, the golf club offers an 18-hole championship course, multiple sets of tees, a top notch short game facility, a fully stocked pro shop and the Sam Adam's Pub for your 19th hole comfort. Well respected for its challenging but fair play and excellent greens, the golf course is designed to provide a fair test for every level of player. With two risk reward par fives and two par threes on each side, the course offers perfect balance and plenty of competitive opportunities.

CONTACT JOHN OSTERNDORF AT (973) 248-5885 OR [JFO0956@GMAIL.COM](mailto:JFO0956@GMAIL.COM) TO SIGN UP

RESERVATIONS WITH PAYMENT MUST BE RECEIVED BY JUNE 29, 2016

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

DIRECTIONS:

[http://www.picatinnygolfclub.com/Picatinny\\_Golf\\_Club\\_Directions.pdf](http://www.picatinnygolfclub.com/Picatinny_Golf_Club_Directions.pdf)



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### 2015 – 2016 Meeting Schedule

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**September 10, 2015** – Garry Hoffman, 3HTi, LLC.

**October 1, 2015** – Louis Pilato, Bio-Based Resins

**October 26 - 29, 2015** – CAMX, Dallas TX, sponsored jointly by SAMPE and ACMA

**November 5, 2015** – Joe Landolina, Suneris Technologies Inc.

**December 3, 2015** – Aram Mekjian, Mektech Composites Inc.

**February 4, 2016** – Dennis Prentice, Rob Demaree, IMR Test Labs

**March 3, 2016** – Mary Shafer, Fabric Development

**April 7, 2016** – Student Night - Short presentations from NYU and Rutgers student members

**May 5, 2016** – Dilip Shah, A&C Catalysts

**May 23 - 26, 2016** – SAMPE Long Beach, Long Beach CA

**June 9, 2016** – Visit to USGA Golf Museum and Laboratory, Far Hills NJ (tentative date; see [www.njsampe.org](http://www.njsampe.org) for updates)

**July 7, 2016** – 33rd NJ SAMPE Golf Outing, Picatinny Arsenal



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## Society for the Advancement of Material and Process Engineering

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#### Executive Board

##### CHAIR

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

##### TREASURER

John F. Osterndorf  
973-248-5885  
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##### SECRETARY

Megan Casey  
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##### PROGRAMS

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##### DIRECTOR

Louis A. Pilato  
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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

Our 2016 slate of candidates has been announced! Elections to be finalized at the May 5, 2016 meeting.

Chair: Borys Schafran

Advisor-at-large: John Osterndorf

Director: Louis Pilato

Alternate Director: Howard Kliger

Membership: Jane Arlauskas

Programs: Howard Kliger

Secretary: Russ Caspe

Treasurer: Megan Casey



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## Society for the Advancement of Material and Process Engineering

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### 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 – 2015 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)



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### Chapter Sponsors

#### **Airtech International, Inc.**

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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

#### **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

#### **Daicel USA Inc.**

Kenichiro Mimura  
One Parker Plaza  
400 Kelby St  
Fort Lee, NJ 07024  
mimura@us.daicel.com  
www.daicel.com/en/us

#### **Evonik Corporation**

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

#### **Fabric Development Inc.**

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1217 Mill Street  
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215-536-1420  
mshafer@fabricdevelopment.com  
www.fabricdevelopment.com

#### **General Magnaplate**

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Linden, NJ 07036  
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eaversenti@magnaplate.com  
www.magnaplate.com

#### **Gentex Corporation**

Russell Caspe  
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rcaspe@gentexcorp.com

#### **IMR Test Labs**

Bill DeLaurier  
131 Woodsedge Drive  
Lansing, NY 14882  
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#### **Lonza Inc.**

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www.lonza.com



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## Society for the Advancement of Material and Process Engineering

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### Chapter Sponsors (continued)

#### **Mektech Composites Inc.**

Aram Mekjian  
40 Strawberry Hill Road  
Hillsdale, NJ 07642  
201-666-4880  
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mekmail@prodigy.net

#### **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

#### **3 HTI**

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

#### **3M Co.**

Kevin Merlini  
Aerospace & Coml Trans Div.  
325 Cherry Lane  
Glenside, PA 19038  
215-327-3842  
kwmerlini@mmm.com  
www.3m.com

#### **Bally Ribbon Mills**

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



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### Sponsor of the Month Airtech Advanced Materials Group

Established in 1973, Airtech Advanced Materials Group is the largest privately owned manufacturer of vacuum bagging and tooling materials of its kind in the world. Airtech serves the aircraft-aerospace, printed circuit board, marine, wind power, automotive, solar energy and recreational industries. The product range consists of: vacuum bagging films up to ultra-high temperature and very large width, release films and release liquids, pressure sensitive tapes, peel plies, breathers and bleeders, vacuum bag sealant tapes, vacuum bag connectors and hoses, rubber, tooling materials, carbon and glass reinforcements.

We have six locations strategically placed worldwide: Huntington Beach, California, USA; Chino, California, USA; Springfield, Tennessee, USA; [Differdange, Luxembourg](#); [Chadderton, England](#); and [Tianjin, China](#). All of our facilities offer technical assistance and are ready to meet your composite production challenges. Airtech is an ISO 9001:2008 registered company.

43 years ago, the founder Mr. Bill Dahlgren, an inspired engineer, started the business with 4 people in San Bernardino, California. The main goal of the business was to create a "one stop shop" and distribute vacuum bagging and composite tooling materials to make.

fiberglass and graphite parts for the aerospace industry. With a dream in mind and persistency of hard work, the company grew to over 500 employees in six different locations, Airtech continues to innovate and meet the demands of its growing markets

For information,  
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