



We are pleased to present the featured Guest Speakers for our November 3rd Meeting:

FORMULATING LOW-SURFACE ENERGY NANO-COMPOSITE MATERIALS FOR SUPERIOR ICE- PHOBICITY APPLICATIONS

Ben Bordoloi, Ames Rubber Corp.

Abstract:

An understanding of the principles for formulating superior ice-phobic coatings will be presented. Materials investigated would include (I) low surface energy Polymers, eg. Silicones, Fluoro-silicones and Fluoro-elastomers, (II) various types of Fillers, eg. Silica, Polypropylene, Nano-PTFE and Graphene; (III) Cryoprotectants, eg. Glycerol and Polyvinyl Alcohol, and (IV) various coating types of VOC, Non-VOC and Solventless. Methodologies would include, high shear mixing, air-assisted spray coatings, viscosity measurements, AFM and SEM of coating surfaces, contact angle measurements, "Ice-Pin" push out test, and erosion test. Formulation strategy and some of the performance results will be discussed. These coatings find commercial applications in the aerospace industry.

Biography

Ben Bordoloi is a graduate of New York University – Tandon School of Engineering (formerly Polytechnic), where he did his Ph.D. (Polymer Sci. & Eng.). He also did his MBA from the University of California, Los Angeles. He was a Visiting Lecturer for 5 years at the Department of Materials Sci. & Eng, UCLA. His professional work experience included both consumer and healthcare industries over 25 years. These included Avery Dennison Corp. Pasadena, CA, Baxter Healthcare Corp, Deerfield, IL, Johnson & Johnson, Somerville, NJ. While he has been currently at Ames for about 3 years, he is also an entrepreneur, and his personal website (www.BordoloiBiotech.com) would give some further details.

MEETING DETAILS

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

Time: 5:45 – 8:30

Cost: \$20.00 Adv Registration; \$25.00 at Door; Students – Free
This meeting is open to all SAMPE members, spouses, guests, and other interested parties

Reservations 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.





2016 – 2017 Meeting Schedule

September 8, 2016 – Steve Medlar, Rutgers University

October 6, 2016 – Student Night, Presentations from Somerville High School

October 26 - 29, 2016 – CAMX, Anaheim CA, sponsored jointly by SAMPE and ACMA

November 3, 2016 – Ben Bordoloi, Ames Rubber Co.

December 1, 2016 – Paul Celenica, SGL

February 2, 2017 – J.P. Masson, Nagase America Corp.

March 2, 2017 – TBA

April 6, 2017 – Student Night, SAMPE at NYU Student Chapter and guests

May 4, 2017 – TBA

May 22-25, 2017 – SAMPE Seattle, Seattle WA

June 1, 2017 – Lab tour TBA

June 26, 2016 – 34th NJ SAMPE Golf Outing, Picatinny Arsenal

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





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 – 2016 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)





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

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
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

Lonza Inc.

Megan Casey
3B Russo Place
Berkeley Heights, NJ 07922
201-316-9489
megan.casey@lonza.com
www.lonza.com



Society for the Advancement of Material and Process Engineering New Jersey Chapter



Chapter Sponsors (continued)

Mektech Composites Inc.

Aram Mekjian
40 Strawberry Hill Road
Hillsdale, NJ 07642
201-666-4880
Fax: 201-666-4303
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 7th Street
Bally, PA 19503
610-845-2211
amirislam@ballyribbon.com



Society for the Advancement of Material and Process Engineering

New Jersey Chapter



Sponsor of the Month: Novoset LLC

Novoset, LLC is a "system solution" thermoset polymer material company. Our primary mission is to utilize our extensive industrial thermoset expertise to develop your next generation demanding applications in electronic, aerospace and for various high-end industrial markets.

Novoset, LLC was established in 2011 as a marketing company specializing in high performance thermoset resins and cost effective solutions for formulated products for electronic, aerospace, automotive and defense industries. Our manufacturing partner, Lonza is a world-leading producer of thermoset resins and various advanced intermediates with backward integrated feedstock. Novoset's manufacturing partner also has resin modifier, surface chemistry and reactive resin processing capabilities. This unique manufacturing partnership enables Novoset, LLC to provide for faster product development and application development possibility for our customers.

We also have a unique collaboration arrangement with JFC Technologies for product modifications to fit our customer's needs. We are ready to help you turn promising laboratory stage ideas into viable commercial products. Novoset also cooperates with complementary

suppliers, leading government organizations and industry specialists with a goal to bridge the gap of limitation of current high temperature thermoset and thermoplastic materials for leading-edge applications qualifications.

In 2013 Novoset, LLC opened its Technology Center to support the growing advanced material demand for the high speed telecommunication and semiconductor industries. In addition the Technology Center will develop advanced matrix systems based on Cyanate ester, epoxy and Polyimide chemistries for aerospace, space, automotive and defense industries.

Our Primary Chemistry is Cyanate Esters in combination with epoxy and other range of complementary chemistries to enhance the performance of final products. We are also active in ultra high temperature thermoset polyimides and advanced amines, anhydrides and cross-linking chemistries.

One of our newer products is **NovoCure 200**, a novel proprietary mixture of metal salts provided as a solution in a reactive diluent. The reactive diluent has been selected in a way that it enhances the curing of high Tg thermosets such as Cyanate esters or Cyanate ester and epoxy blends.

For information,
please contact

Dr. Sajal Das
Novoset LLC
87 Main Street
Peapack NJ 07977
Tel: 908-470-4200

www.novoset.com

