

**SOCIETY FOR THE ADVANCEMENT
OF MATERIAL AND PROCESS
ENGINEERING**

NEW JERSEY CHAPTER

**JUNE NEWSLETTER & MONTHLY NOTICE
JUNE 2, 2011 (1ST THURSDAY)**

**COMPOSITE HELMET DESIGN CONTRASTED
WITH CLASSICAL FIBER-REINFORCED
ADVANCED COMPOSITE STRUCTURES**

**JOHN LAJESSE
Staff Composites Engineer
Gentex Corporation
324 Main Street
Simpson, PA 18407
Email: JLaJesse@GentexCorp.com
Phone: 570-282-8403**

MEETING DETAILS

Place: Bridgewater Manor, Bridgewater, NJ; (908) 658-3000
Time: 5:30 Cocktails (Cash Bar); 6:15 Dinner; 8:30 Adjourn
Cost: \$10.00 Advanced Registration; \$15.00 at Door; Students - Free

This meeting is open to all SAMPE members, spouses, guests, and other interested parties

Reservations please contact John Osterndorf at 973-248-5885 or by email at sampejohn@yahoo.com
by noon the 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 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.

SAMPE Best Chapter Award Winner:

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

SAMPE Chapter Service Excellence Award Winner:

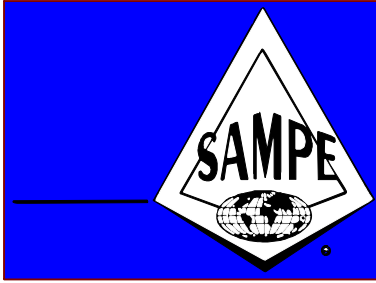
2002, 2003, 2004, 2005, 2006 (award retired after 2006)

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)

ISEC – 1994(Parsippany)



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2010 – 2011 MEETING SCHEDULE

September 9, 2010 – Henkel’s Approach to Reduction to Hexavalent Chrome in Conversion Coatings, Matthew Clark, Henkel Corporation, Madison Heights, MI	March 3, 2011 – Resin Infusion - The Use of Spray on Bags. Joseph K. Domic, Smooth-On Inc., Easton, PA
October 7, 2010 – Improved Performance of Polyaryl Ether Amide Matrix Resins, Borys Schafran, Evonik Degussa Corporation, Parsippany, NJ	April 7, 2011 – Phenolic Resins in Fiber Reinforced Composites, Dr. Louis A. Pilato, Pilato Consulting, Bound Brook, NJ
October 11 – 14, 2010 42 st International SAMPE Technical Conference, Salt Lake City, UT Sponsored by the Utah Chapter	May 5, 2011 – Hybrid Metal-Composite Materials, Processes and Products, James F. Stevenson, Honeywell Aerospace, Retired, Election of Officers
November 4, 2010 – Non Destructive Inspection of Composite Structures Using Line Scanning Thermography, Obdulia Ley, Mistras Group, Princeton Junction, NJ	May 23 - 26, 2011 – 55 th International SAMPE Symposium & Exhibition, Long Beach Convention Center, Long Beach, WA Sponsored by Orange County Chapter
December 2, 2010 – Composites in Wind Energy, Peter Toohey, Evonik Degussa, Parsippany, NJ	June 2, 2011 – Composite Helmet Design Contrasted with Classical Fiber-Reinforced Advanced Composite Structures, John LaJesse, Gentex Corp., Simpson, PA
February 3, 2011 – A Composite Blade for a Large Scale Centripal Fan, Anthony Turchi and Russell Shaffer, Curtiss Wright EPD, Phillipsburg, NJ	July 7, 2011 – 28 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

Notes The NJ Chapter sponsors a student chapter at Drexel University.

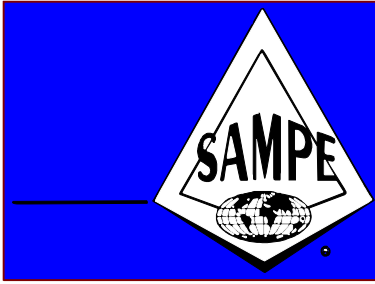
MAY MEETING

At the May meeting, Mr. James F. Stevenson of Honeywell Aerospace, retired, gave an excellent presentation entitled Hybrid Metal-Composite Materials, Processes and Products. The New Jersey Chapter wishes to thank Mr. James F. Stevenson for his excellent presentation.

UPCOMING CONFERENCES

**SAMPE 2011 – ISTC – Fort Worth, TX – Oct. 17 -20, 2011
Sponsored by SAMPE Dallas/Fort Worth Chapter**

SAMPE 2012 – ISS&E – Baltimore, MD May 21 - 24, 2012



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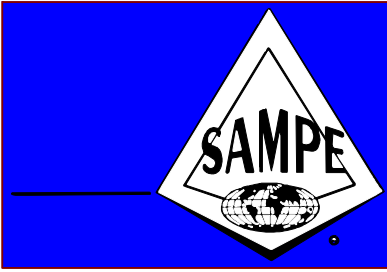
**JOHN LAJESSE
Staff Composites Engineer
Gentex Corporation
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Simpson, PA 18407
Email: JLaJesse@GentexCorp.com
Phone: 570-282-8403**

ABSTRACT:

This work elucidates the similarities and differences between advanced composite structures (ACS) and composite helmets; their basic requirements as well as their resulting designs. As helmets can have complex requirements, methodologies to address these with composite materials will be shown. In this presentation, basic composite principles will be utilized to demonstrate the divergence of composite helmet design from ACS.

BIOGRAPHY:

Mr. LaJesse is currently a composites design staff engineer at Gentex Corporation, where he focuses on the application of advanced composite theories in the design of the next-generation of military aircrew and ground troop composite helmets. His previous work was focused on the incorporation of composites into the design of aircraft primary and secondary structures. Mr. LaJesse holds a Bachelor's degree in Aerospace Engineering and a Minor in Mathematics from Embry-Riddle Aeronautical University. He is a member of SAMPE.



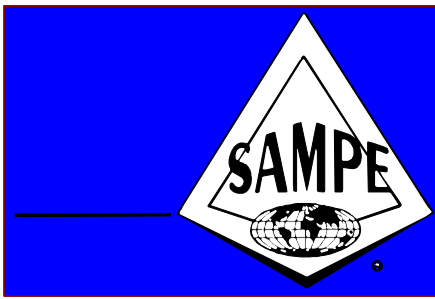
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ELECTION OF OFFICERS FOR 2011 – 2012 Fiscal Year

At the May Meeting of the New Jersey Chapter of SAMPE, the following slate of candidates was elected for the next Fiscal Year 2010 – 2011:

Chairman:	<i>Ben Rasmussen</i>
Vice Chairman:	<i>Borys Schafran</i>
Treasurer:	<i>John Osterndorf</i>
Secretary:	<i>Jane Arlauskas</i>
Directors:	<i>Howard Kliger</i>
	<i>Louis Pilato</i>
	<i>Ben Rasmussen</i>
Programs:	<i>Tony Constantino</i>
Members:	<i>Jane Arlauskas</i>



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YEARS OF SERVICE

The Executive Board would like to recognize the following members for their years of service:

5 YEARS

*Anthony Disalvo
John Haaland
Salvatore Monte
Giuseppe Palmese
Anthony Turchi
James Stevenson*

*Nano Met-Zero Inc
Technical Fibre Products Inc
Kenrich Petrochemicals Inc
Drexel University
Curtis Wright EPD
Honeywell International, retired*

20 YEARS

*Joseph Curilla
Aram Mekjian*

*Electronics Consulting Laboratory
Mektech Composites Inc*

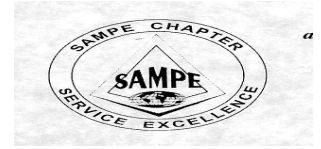
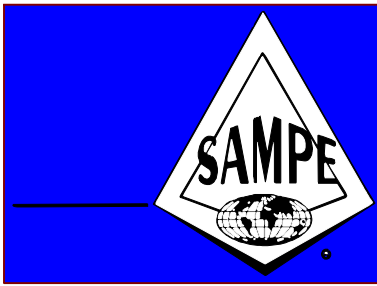
30 YEARS

*Roy Baumer
L. Frieder
Harry Katz*

*Heraeus Assembly Materials
Gentex Corporation
Utility Development Corporation*

28Th ANNUAL NJ SAMPE GOLF TOURNAMENT

- **DATE: JULY 8, 2010 - PICATINNY ARSENAL, NJ**
- **TEE TIME: 11:00 am / COST: Golf and Dinner = \$60.00**
- **Dinner: \$10.00 (Dinner at approximately 5:00 PM)**
- **For Reservations – Contact sampejohn@yahoo.com**



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EXECUTIVE BOARD

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BMR Associates
908-561-0796/fax: 908-753-7917
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sampejohn@yahoo.com

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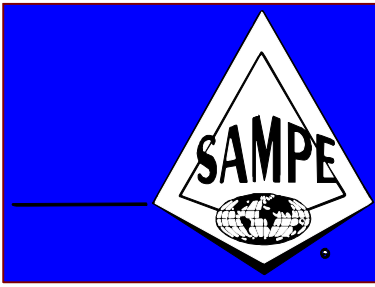
1977 – 1978 Raymond F. Wegman
1978 – 1979 William J. Russell
1979 – 1980 Michael Michno
1980 – 1981 Fred H. Ancker
1981 – 1982 Natalia Chujko
1982 – 1983 Robert J. Narsavage
1983 – 1984 Richard W. Reiter
1984 – 1985 Howard S. Kliger
1985 – 1986 John Burlage
1986 – 1987 John F. Osterndorf
1987 – 1988 Thomas J. Green
1988 – 1989 Harry S. Katz
1989 – 1990 Benjamin M. Rasmussen
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1991 – 1993 Louis A. Pilato
1993 – 1994 John Burlage
1994 – 1995 Richard A. Walther
1995 – 1996 Frans van Anterpen
1996 – 1997 Kathleen A. Froelich
1997 – 1998 Gail D. DiSalvo
1998 – 1999 Ash Chopra
1999 – 2011 Benjamin M. Rasmussen

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1992 Fred H. Ancker
1993 Leonard Poveromo
1999 Dr. Howard S. Kliger
2001 Dr. Louis A. Pilato
2001 Harry S. Katz

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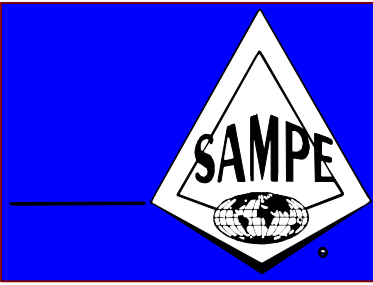
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<p>Airtech International, Inc. Peter Grantham 5700 Skylab Road Huntington Beach, CA 95647 714-899-8100 Fax: 714-899-8179 pgrantham@airtechintl.com www.airtechintl.com</p>	<p>Alcan Baltek Corporation Marc A. Anderson 108 Fairway Court Northvale, NJ 07647 201-767-1400 Fax: 201-387-6631 marc.anderson@alcan.com www.alcanbaltek.com</p>	<p>Evonik Degussa Corporation Borys Schafran 379 Interpace Parkway Parsippany, NJ 07054 973-541-8172 Fax: 973-541-8161 borys.schafran@evonik.com www.evonik.com</p>
<p>Argosy International Inc. Paul Marks 14 Penn Plaza New York, NY 10001 (212) 268-0003, X101 pmarks@argosyinternational.com www.argosyinternational.com</p>	<p>Bryte Technologies Chuck Chakrabarti 1235 Beacon Hill Crossing Alpharetta, GA 30005 (770) 475-7977 Fax: (770) 475-7477 cchakrabarti@brytotech.com www.brytotech.com</p>	<p>Fabric Development Inc. Mary P. Shafer 1217 Mill Street Quakertown, PA 18951 215-536-1420 mshafer@fabricdevelopment.com www.fabricdevelopment.com</p>
<p>Automated Dynamics David Hauber 407 Front Street Schenectady, NY 12305 518-377-6471, X226 Fax: 518-377-5628 dhauber@automateddynamics.com www.automateddynamics.co</p>	<p>Coast-Line Int'l Heather O'Rourke 274 Bangor Street Lindenhurst, NY 11757 631-226-0500 X25 Fax: 631-226-5190 heathero@coast-lineintl.com www.coast-lineintl.com</p>	<p>Fiber-Line Inc Tony Constantino 3050 Campus Drive Hatfield, PA 19440 267-885-7144 tcconstantino@fiber-lineinc.com www.fiber-lineinc.com</p>



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<p>Gentex Corporation John LaJesse 324 Main Street Carbondale, PA 18407 570-282-8403 jlajesse@gentex.com www.gentex.com</p>	<p>Loctite Corporation George Newton 1001 Trout Brook Crossing Rock Hill, CT06067 315-492-7571 george.newton@us.henkel.com www.loctite.com</p>	<p>Prince Sports Incorporated Steve Davis One Advantage Court Bordentown, NJ 08505-7620 609-291-5800 stevedavis@princesports.com www.princesports.com</p>
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<p>Henkel Aerospace Michael Portwood 2850 Willow Pass Road Bay Piont, CA 94565 925-458-8000 Cell 717-817-1532 Michael.portwood@us.henkel.com www.aerospace.henkel.com</p>	<p>Mektech Composites Inc. Aram Mekjian 40 Strawberry Hill Road Hillsdale, NJ 07642 201-666-4880 Fax: 201-666-4303 mekmail@prodigy.net</p>	<p>3M Aerospace Renee Rainboth 3M Center St. Paul, MN 55144-1000 (856) 769-8565 Fax: (856) 769-8566 rarinboth@mmm.com www.3m.com</p>