

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

NEW JERSEY CHAPTER

**MAY NEWSLETTER & MONTHLY NOTICE
MAY 5, 2011 (1ST THURSDAY)**

**HYBRID METAL-COMPOSITES MATERIALS,
PROCESSES AND PRODUCTS**

**JAMES F. STEVENSON
HONEYWELL AEROSPACE, RETIRED
PHONE: 973-292-1585
Email: jfscom@webatomics.com**

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:

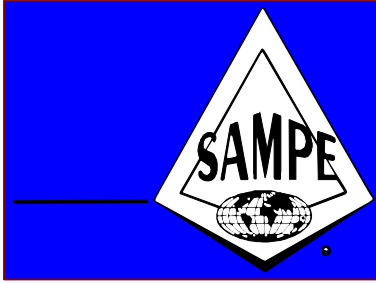
2002, 2003, 2004, 2005, 2006 (award retired after 2006)

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 –
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.

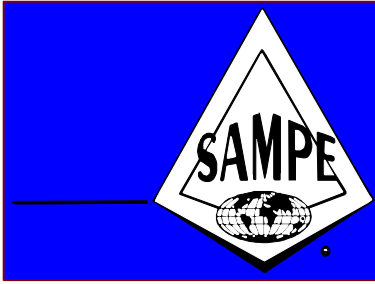
APRIL MEETING

At the April meeting, Dr. Louis A. Pilato of Pilato Consulting gave an excellent presentation entitled Phenolic Resins in Fiber Reinforced Composites. The New Jersey Chapter wishes to thank Dr. Louis A. Pilato for his excellent presentation.

UPCOMING CONFERENCES

**SAMPE 2011 – ISS&E – Long Beach CA. May 23 - 26, 2011
Sponsored by SAMPE Orange County Chapter**

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



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**HYBRID METAL-COMPOSITES MATERIALS,
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PHONE: 973-292-1585
Email: jfscom@webatomics.com**

ABSTRACT:

A hybrid metal-composite structure has the advantage of combining many of the best properties of metals and composite materials--synergies that can lead to exceptional performance--along with the challenges of interfacing these dissimilar materials. This talk will examine the rationale for hybrids and several applications: fiber metal laminates (GLARE and CentAl) and 3D structures including turbine blades, flow control valves, pressure vessels, ships, electronic housings, and molten-metal bonded links.

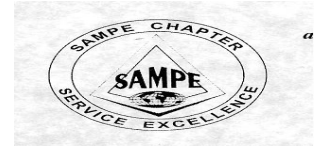
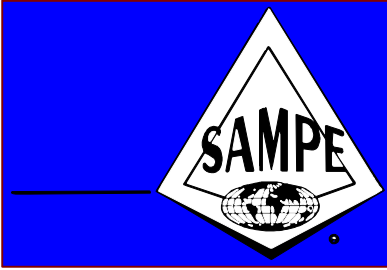
BIOGRAPHY:

Jim Stevenson was a Corporate Fellow in the Advanced Technology organization of Honeywell Aerospace from 1996 until his retirement in March of 2011. His recent professional work focused on performance of composite materials and applications of composites for mechanical and electronic structures and enclosures in an aerospace environment.

Previously Stevenson served in technical and management positions with GenCorp in Akron, OH. He supervised GenCorp's Extrusion Research Facility and developed several novel extrusion and molding applications, including directed flow technology (curved extrusion and rapid die change), control systems (multicomponent extrusion), novel designs for thin-edge (rocket insulation) dies, mold runner optimization strategies, and reactive materials modeling.

Early in his career, Stevenson was an Associate Professor with tenure in the Chemical Engineering Department at Cornell University.

Stevenson has edited a book *Innovation in Polymer Processing: Molding*, published three book chapters, more than 60 papers, and holds 19 patents. He earned a Ph.D. in Chemical Engineering at the University of Wisconsin and a B.S.Ch.E. from Rensselaer Polytechnic Institute.



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ELECTION OF OFFICERS FOR 2010 – 2011 Fiscal Year

At the April Board of Directors Meeting of the New Jersey Chapter of SAMPE, the following slate of candidates were proposed for the next Fiscal Year 2011– 2012:

Chairman: *Ben Rasmussen*

Vice Chairman: *Borys Schafran*

Treasurer: *John Osterndorf*

Secretary: *Jane Arlauskas*

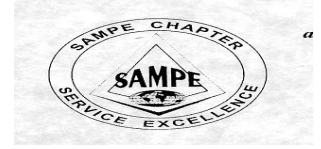
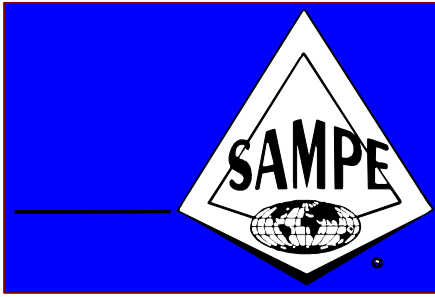
Directors: *Howard Kliger*

Louis Pilato

Ben Rasmussen

Programs: *Tony Constantino*

Members: *Jane Arlauskas*



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**28Th ANNUAL NJ SAMPE
GOLF TOURNAMENT**

**DATE: JULY 7, 2011
PLACE: PICATINNY GOLF COURSE
PICATINNY ARSENAL, NJ
TEE TIME: 11:00 A. M.**

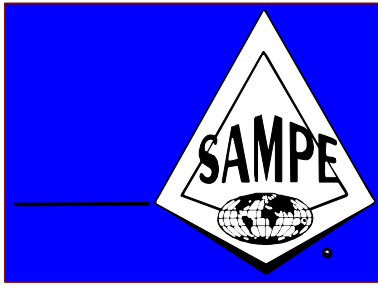
**COST: GOLF AND DINNER: \$60.00
DINNER: \$10.00
(Dinner at approximately 5:00 PM)**

**CONTACT JOHN OSTERNDORF BY E-MAIL AT
sampejohn@yahoo.com TO SIGN UP**

RESERVATIONS MUST BE MADE BY JUNE 26, 2010 (NO EXCEPTIONS)

The 28th Annual New Jersey Chapter of SAMPE Golf Tournament is returning to Picatinny Golf Course. The date of the tournament is July 7, 2011. Picatinny Golf Course has a practice facility (chipping, putting, and driving into a net) at the Club House for golfers who arrive early.

Directions to Picatinny: Take I-80 westbound and at Exit 34 to Route 15 northbound (Sparta & Picatinny Arsenal). Go through traffic light; bear right to Picatinny Entrance (up small hill) before underpass. Enter Picatinny and continue to the guard shack. The guard shack will have the names of those attending the golf tournament and dinner. All attendees must have identifications (preferably photo identification) for entrance onto Picatinny Arsenal. Please follow the Guards instructions. Your cars will be searched (including the engine and trunk). After the security check, follow the main road to Cannon Gate. At the Cannon Gate bear to the right (before the traffic light) and follow for approximately a quarter of a mile and left turn. The golf course is on your left.



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EXECUTIVE BOARD

CHAIRMAN:

Benjamin M. Rasmussen
BMR Associates
908-561-0796/fax: 908-753-7917
bmrassociates@netcarrier.com

VICE CHAIRMAN:

Gail D. DiSalvo
GTD Consulting
908-953-0849/fax: 908-766-6373
disalvogail@aol.com

TREASURER:

John F. Osterndorf
973-248-5885 (cell)
sampejohn@yahoo.com

SECRETARY:

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Evonik Degussa Corporation
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borys.schafran@evonik.com

PROGRAMS:

Tony Constantino
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215-997-9181/Cell : 267-885-7144
tcconstantino@fiber-lineinc.com

MEMBERSHIP :

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973-541-8165
jane.arlauskas@evonik.com

DIRECTORS:

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lapilato@optonline.net
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bmrassociates@netcarrier.com

PAST CHAIRMAN:

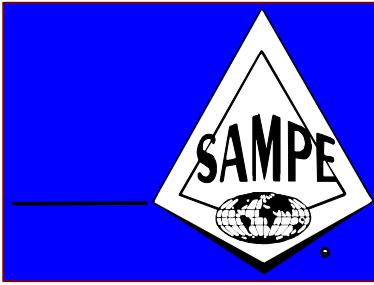
1977 – 1978 Raymond F. Wegman
1978 – 1979 William J. Russell
1979 – 1980 Michael Michno
1980 – 1981 Fred H. Ancker
1981 – 1982 Natalia Chujko
1982 – 1983 Robert J. Narsavage
1983 – 1984 Richard W. Reiter
1984 – 1985 Howard S. Kliger
1985 – 1986 John Burlage
1986 – 1987 John F. Osterndorf
1987 – 1988 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 Anterpen
1996 – 1997 Kathleen A. Froelich
1997 – 1998 Gail D. DiSalvo
1998 – 1999 Ash Chopra
1999 – 2010 Benjamin M. Rasmussen

SAMPE FELLOWS:

1985 Raymond F. Wegman
1987 Dr. Carl H. Zweben
1989 Robert Pickney
1990 Dr. Frank K. Ko
1992 Fred H. Ancker
1993 Leonard Poveromo
1999 Dr. Howard S. Kliger
2001 Dr. Louis A. Pilato
2001 Harry S. Katz

SENIOR HONORARY MEMBERS:

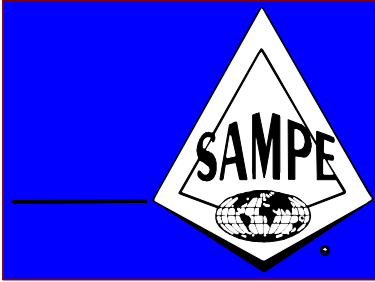
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Edward A. Gallagher
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Raymond F. Wegman
Charles Weizenecker



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<p>ACTEGA Radcure, Inc. Jim Wittig 5 Mansard CT. Wayne, NJ 07470 Tel: +1 973 808 1002 Fax: +1 973 808 6886 jim.wittig@altana.com www.actega.com</p>	<p>A & P Technologies Andrew A. Head 4595 East Tech Drive Cincinnati, OH 45245 513-688-3200 Fax: 513-688-3201 ahead@braider.com www.braider.com</p>	<p>Engineered Fibers Technology Robert E. Evans 25 Brook Street Shelton, CT 06484 203-922-1810, X335 Fax: 203-922-1814 efiberstec@aol.com www.EFTfibers.com</p>
<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@brytetechnology.com www.brytetechnology.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 tconstantino@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>
<p>GTD Consulting Gail DiSalvo 127 Rippling Brook Way Bernardsville, NJ 07924 908-953-0849 Fax: 908-766-6373 gail.disalvo@att.net</p>	<p>Lonza Group Sajal Das 90 Boroline Road Allendale, NJ 07401 201-316-9218 sajal.das@lonza.com www.lonza.com</p>	<p>Utility Development Harry Katz 112 Nylon Road Livingston, NJ 07039-1006 973-994-4334 Fax: 973-994-3341 Harryskatz@aol.com www.udccorp.com www.radcure.com</p>
<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 rarainboth@mmm.com www.3m.com</p>

