

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

**NEW JERSEY CHAPTER**

**APRIL NEWSLETTER & MONTHLY NOTICE**

**April 7, 2011 (1<sup>ST</sup> THURSDAY)**

**PHENOLIC RESINS IN FIBER REINFORCED COMPOSITES**

**DR. LOUIS A. PILATO  
PILATO CONSULTING  
598 WATCHUNG ROAD  
BOUND BROOK, NJ 08805-1746  
Phone: 732-469-4057  
FAX: 732-764-9747  
Email: [lapilato@optonline.net](mailto:lapilato@optonline.net)**

**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](mailto: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:**

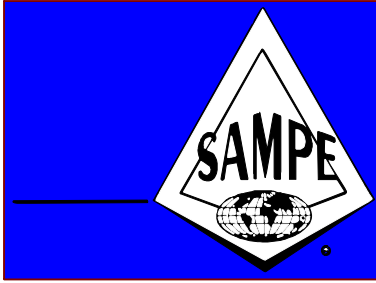
**2002, 2003, 2004, 2005, 2006** (award retired after 2006)

**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 <sup>st</sup> International SAMPE Technical Conference, Salt Lake City, UT Sponsored by the Utah Chapter	May 5, 2011 – Metal Composite Hybrid Materials: Air, Land and Sea Products, James F. Stevenson, Honeywell Aerospace, Morristown, NJ, 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 <sup>th</sup> 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 and Infrastructure, John Busel, ACMA, Arlington, VA
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 <sup>th</sup> Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

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

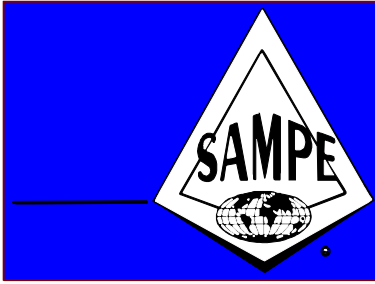
**MARCH MEETING**

At the March meeting, Mr. Joseph Domic of Smooth-On gave an excellent presentation entitled Resin Infusion - The Use of Spray on Bags. The New Jersey Chapter wishes to thank Mr. Joseph Domic 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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**PHENOLIC RESINS IN FIBER REINFORCED COMPOSITES**

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Phone: 732-469-4057  
FAX: 732-764-9747  
Email: [lapilato@optonline.net](mailto:lapilato@optonline.net)**

**ABSTRACT:**

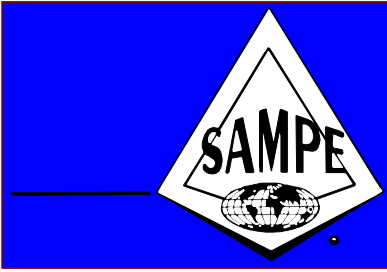
The year 2010 marked the centennial year for the production of Phenolic Resins by Leo Baekeland. During these 100 years of production, worldwide sales volume of phenolic resins currently is nearly 6 million tons/year. Phenolic resins continue to be an important bonding resin for a variety of materials with favorable cost/performance characteristics that surpass most other resin systems.

Phenolic resins are critical in many FRP applications where FST (Fire, Smoke, low Toxicity) characteristics and mechanical strength are required. These phenolic based FRP systems will be discussed for a variety of applications (aircraft interiors, cargo liners, ballistics, honeycomb, carbon carbon composites, others) as well as new phenolic resin related systems based on benzoxazines and a novel toughened resin system known as Calidur.

**BIOGRAPHY:**

Dr. Louis Pilato is a member of the Society of Advancement of Material and Process Engineering (SAMPE) and is one of the Directors of the NJ SAMPE Chapter. He was installed as a Fellow of the Society in 2001. He is also a member of the American Chemical Society.

Dr. Pilato consults in a variety of Chemical and Materials Science disciplines such as Resin Matrix Systems, Phenolic Resin Technology, and Nanotechnology. He has presented many SAMPE tutorials related to Nanotechnology and Resin Matrix Systems. He is the author of 4 books. The most recent book is titled, "Phenolic Resins: A Century of Progress," and was published in May, 2010.



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**SAMPE 2011 | Long Beach, CA**  
Long Beach Convention Center  
May 23-26, 2011  
Co-located with AeroMat 2011  
2011 - State of the Industry: Advanced Materials, Applications, and Processing Technology

SAMPE partners with ASM International to bring SAMPE 2011 and AeroMat 2011 back to Long Beach, California. New exhibitors and new conference programs add value, while attendees can rely on traditional SAMPE offerings. As an added bonus, SAMPE conference attendees can attend AeroMat 2011 conference programs at no additional charge.



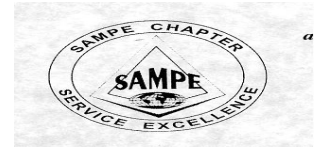
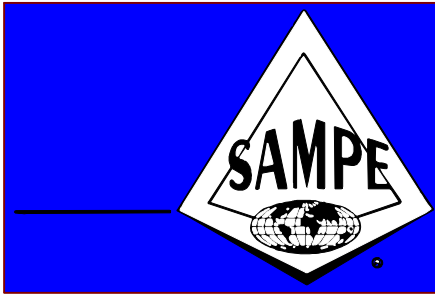
The SAMPE Conference features a four-day technical program consisting of specialty classes and sessions. Full details will be available online in January 2011.

**The SAMPE Conference features a four-day technical program consisting of specialty classes and sessions.**

**CONTACTS**

Conference and General Information: Priscilla Heredia  
Phone: +1 (626) 331.0616      +1 (626) 331.0616      ext 610; email: [Priscilla@sampe.org](mailto:Priscilla@sampe.org)

Exhibit Information: Efren Pavon  
Phone: +1 (626) 331.0616      +1 (626) 331.0616      ext 616; email: [Efren@sampe.org](mailto:Efren@sampe.org)



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**NEW MEMBERS**

The New Jersey Chapter would like to welcome the following new chapter members:

*Ronald Coe*

*Panel/wood Machinery Inc*

*Edward Douglass*

*Bennet Laboratories*

*John Ettere*

*Site Concealment*

*Jeffrey Haas*

*Bennet Laboratories*

*Paul Koelbel*

*Bennet Laboratories*

*Matthew Madden*

*Gentex Corporation*

*Karol-Anne Madulka*

*Bennet Laboratories*

*Jay Pavlisko*

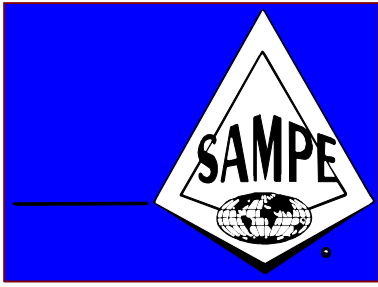
*General Electric*

*Francesco Tropiano*

*Bennet Laboratories*

**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](mailto:sampejohn@yahoo.com)**



## NEW JERSEY CHAPTER APRIL NEWSLETTER

### EXECUTIVE BOARD

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**Benjamin M. Rasmussen**  
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GTD Consulting  
908-953-0849/fax: 908-766-6373  
[disalvogail@aol.com](mailto:disalvogail@aol.com)

#### **TREASURER:**

**John F. Osterndorf**  
973-248-5885 (cell)  
[sampejohn@yahoo.com](mailto:sampejohn@yahoo.com)

#### **SECRETARY:**

**Borys Schafran**  
Evonik Degussa Corporation  
Tel 973-541-8172/fax 973-541-8161  
[borys.schafran@evonik.com](mailto:borys.schafran@evonik.com)

#### **PROGRAMS:**

**Tony Constantino**  
Fiber-Line Inc  
215-997-9181/Cell : 267-885-7144  
[teconstantino@fiber-lineinc.com](mailto:teconstantino@fiber-lineinc.com)

#### **MEMBERSHIP :**

**Jane Arlauskas**  
Evonik Degussa Corporation  
973-541-8165  
[jane.arlauskas@evonik.com](mailto:jane.arlauskas@evonik.com)

#### **DIRECTORS:**

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**Louis A. Pilato**  
Pilato - Consulting  
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**Benjamin M. Rasmussen**  
BMR Associates  
908-561-0796/fax: 908-753-7917  
[bmassociates@netcarrier.com](mailto:bmassociates@netcarrier.com)

#### **PAST CHAIRMAN:**

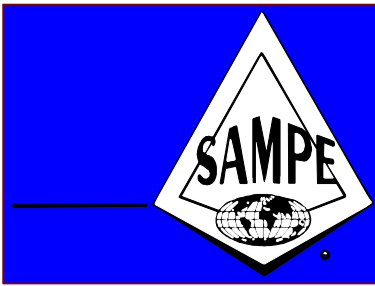
1977 – 1978 Raymond F. Wegman  
1978 – 1979 William J. Russell  
1979 – 1980 Michael Michno  
1980 – 1981 Fred H. Ancker  
1981 – 1982 Natalia Chujko  
1982 – 1983 Robert J. Narsavage  
1983 – 1984 Richard W. Reiter  
1984 – 1985 Howard S. Kliger  
1985 – 1986 John Burlage  
1986 – 1987 John F. Osterndorf  
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:**

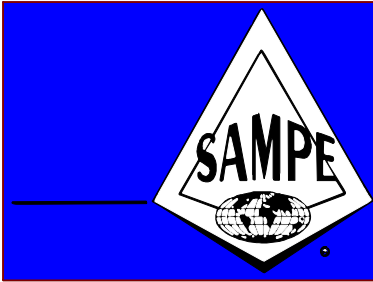
Richard G. Adams  
Edward A. Gallagher  
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<p><b>Automated Dynamics</b>  <b>David Hauber</b>  <b>407 Front Street</b>  <b>Schenectady, NY 12305</b>  <b>518-377-6471, X226</b>  <b>Fax: 518-377-5628</b>  <a href="mailto:dhauber@automateddynamics.com">dhauber@automateddynamics.com</a>  <a href="http://www.automateddynamics.co">www.automateddynamics.co</a></p>	<p><b>Coast-Line Int'l</b>  <b>Heather O'Rourke</b>  <b>274 Bangor Street</b>  <b>Lindenhurst, NY 11757</b>  <b>631-226-0500 X25</b>  <b>Fax: 631-226-5190</b>  <a href="mailto:heathero@coast-lineintl.com">heathero@coast-lineintl.com</a>  <a href="http://www.coast-lineintl.com">www.coast-lineintl.com</a></p>	<p><b>Fiber-Line Inc</b>  <b>Tony Constantino</b>  <b>3050 Campus Drive</b>  <b>Hatfield, PA 19440</b>  <b>267-885-7144</b>  <a href="mailto:tconstantino@fiber-lineinc.com">tconstantino@fiber-lineinc.com</a>  <a href="http://www.fiber-lineinc.com">www.fiber-lineinc.com</a></p>



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<p><b>Gentex Corporation</b> John LaJesse 324 Main Street Carbondale, PA 18407 570-282-8403 <a href="mailto:jlajesse@gentex.com">jlajesse@gentex.com</a> <a href="http://www.gentex.com">www.gentex.com</a></p>	<p><b>Loctite Corporation</b> George Newton 1001 Trout Brook Crossing Rock Hill, CT06067 315-492-7571 <a href="mailto:george.newton@us.henkel.com">george.newton@us.henkel.com</a> <a href="http://www.loctite.com">www.loctite.com</a></p>	<p><b>Prince Sports Incorporated</b> Steve Davis One Advantage Court Bordentown, NJ 08505-7620 609-291-5800 <a href="mailto:stevedavis@princesports.com">stevedavis@princesports.com</a> <a href="http://www.princesports.com">www.princesports.com</a></p>
<p><b>GTD Consulting</b> Gail DiSalvo 127 Rippling Brook Way Bernardsville, NJ 07924 908-953-0849 Fax: 908-766-6373 <a href="mailto:gail.disalvo@att.net">gail.disalvo@att.net</a></p>	<p><b>Lonza Group</b> Sajal Das 90 Boroline Road Allendale, NJ 07401 201-316-9218 <a href="mailto:sajal.das@lonza.com">sajal.das@lonza.com</a> <a href="http://www.lonza.com">www.lonza.com</a></p>	<p><b>Utility Development</b> Harry Katz 112 Nylon Road Livingston, NJ 07039-1006 973-994-4334 Fax: 973-994-3341 <a href="mailto:Harryskatz@aol.com">Harryskatz@aol.com</a> <a href="http://www.udccorp.com">www.udccorp.com</a> <a href="http://www.radcure.com">www.radcure.com</a></p>
<p><b>Henkel Aerospace</b> Michael Portwood 2850 Willow Pass Road Bay Piont, CA 94565 925-458-8000 Cell 717-817-1532 <a href="mailto:Michael.portwood@us.henkel.com">Michael.portwood@us.henkel.com</a> <a href="http://www.aerospace.henkel.com">www.aerospace.henkel.com</a></p>	<p><b>Mektech Composites Inc.</b> Aram Mekjian 40 Strawberry Hill Road Hillsdale, NJ 07642 201-666-4880 Fax: 201-666-4303 <a href="mailto:mekmail@prodigy.net">mekmail@prodigy.net</a></p>	<p><b>3M Aerospace</b> Renee Rainboth 3M Center St. Paul, MN 55144-1000 (856) 769-8565 Fax: (856) 769-8566 <a href="mailto:rarainboth@mmm.com">rarainboth@mmm.com</a> <a href="http://www.3m.com">www.3m.com</a></p>