

**SOCIETY FOR THE ADVANCEMENT
OF MATERIAL AND PROCESS
ENGINEERING
NEW JERSEY CHAPTER**

NOVEMBER NEWSLETTER & MONTHLY NOTICE

NOVEMBER 5, 2009 (1ST THURSDAY)

**UV CURING TECHNOLOGY OVERVIEW AND
APPLICATIONS IN COMPOSITE STRUCTURES**

**JIM WITTIG
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ACTEGA RADCURE, INC
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WAYNE, NJ 07470
Phone: 973-808-1002
Fax: 973-808-6886
jim.wittig@altana.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.

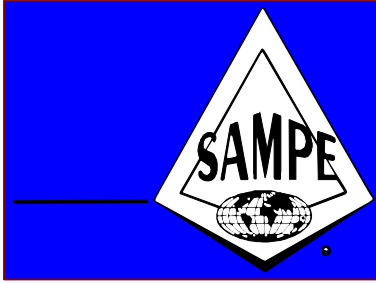
Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on 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 suspended after 2006)



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2009 – 2010 MEETING SCHEDULE

September 10, 2009 – NDE of Multilayered Composites, Nicholas Gianaris, General Dynamics Land Systems, Sterling Heights, MI	March 4, 2010 – TBD
October 1, 2009 – Development and Testing of Prestressed Carbon Fiber Composite Overwrapped Gun Tubes, A. G. Littlefield, Benet Laboratories, Watervliet, NY	April 1, 2010 – TBD
October 19 – 22, 2009 41 st International SAMPE Technical Conference, Wichita, KS, Sponsored by the New Jersey and Wichita Chapters	May 6, 2010 – TBD
November 5, 2009 – UV Curing Technology Overview and Applications in Composite Structures, Jim Wittig- President- ACTEGA Radcure, Inc	May 17 – 20, 2010 – 54 th International SAMPE Symposium & Exhibition, Washington State Convention Center, Seattle, WA Sponsored by Seattle Chapter
December 3, 2009 – PET Extrusion of Recycled Plastics for Railroad Ties and Bridge Beams, Tom Nosker- research Professor – Rutgers University	June 3, 2010 – Nanotechnology 2010, An Update, Dr. Louis A. Pilato, Pilato Consulting, Bound Brook, NJ
February 4, 2010 – High Performance Thermoplastics, Larry Stanislow- Sales manager- Westlake Plastics	July 8, 2010 – 27 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

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

OCTOBER MEETING

At the October meeting, Dr. Andrew Littlefield gave an excellent presentation entitled Development and Testing of Prestressed Carbon Fiber Composites Overwrapped Gun Tubes. The New Jersey Chapter wishes to thank Dr. Littlefield for the excellent presentation.

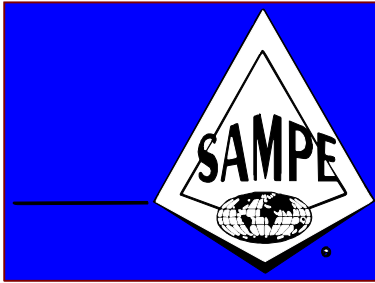
UPCOMING EVENTS

2010 SAMPE International Symposium and Exhibition, Washington State Convention Center, May 17 – 20, 2010, Seattle, WA.

The Seattle SAMPE Chapter is sponsoring the 2010 ISS&E.

2010 International SAMPE Technical Conference, Salt Palace Convention Center, Salt Lake City, UT October 11 – 14, 2010

The Utah Chapter is sponsoring the 2010 ISTC.



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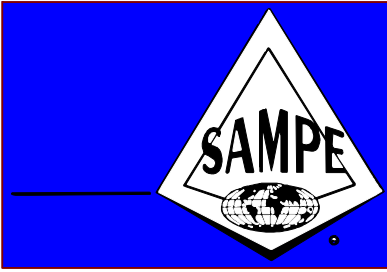
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ABSTRACT:

Ultraviolet light is used extensively in industrial applications to initiate polymerization of acrylate, epoxy, unsaturated rubbers, silicones and polyester resins. Applications include surface protection and modification, adhesive bonding both UV transparent and opaque materials, form in place gaskets, and fabrication of prototype parts. Advantages of the UV curing process are very low VOC generation during application and curing, reduced energy consumption, high processing speeds, lower waste generation and high performance properties. Examples of the different monomers and resins typically used to formulate UV curable products will be discussed. UV lamps systems used for curing including the latest developments in UV LED will be illustrated. End use examples in different market segments include printing and packaging, protective coatings for automotive parts, assembly adhesives for medical, electronic and industrial devices, wood finishing, and composite fabrication. Current and potential applications in the composites market will be discussed.

BIOGRAPHY:

Jim Wittig is the President of ACTEGA Radcure, a manufacturer of UV curable coatings and adhesives. Jim has 30 years experience in the formulation and application of UV products.



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CORPORATE SPONSORSHIP

The New Jersey Chapter is inviting you and your company to be a Corporate Sponsor of the Chapter. By being a corporate sponsor, you and your company enables the chapter to continue its educational endeavors such as the Bridge Building Contest at the SAMPE Symposium and Exhibition and hold monthly technical meetings. The New Jersey Chapter sponsored the 2009 Fall Technical Conference with the Wichita Chapter in October 2009 in Wichita, KS. In addition, your contribution enables the chapter to publish the monthly newsletter, conduct one day seminars and sponsor international conferences and exhibitions. These activities have helped the chapter become one of the best chapters in SAMPE.

During the current fiscal year, the chapter has planned a variety of topics to be presented at our monthly meetings. These topics include: NDE of Multilayered Composites, Development and Testing of Prestressed Carbon Fiber Composite Overwrapped Gun Tubes, UV Curing of Polymers, PET Extrusion of Recycled Plastics for Railroad Ties and Bridge Beams and High Performance Thermoplastics. Also, the Chapter will hold its 27TH Annual Golf Tournament on July 8, 2010 at the Picatinny Arsenal Golf Course in New Jersey.

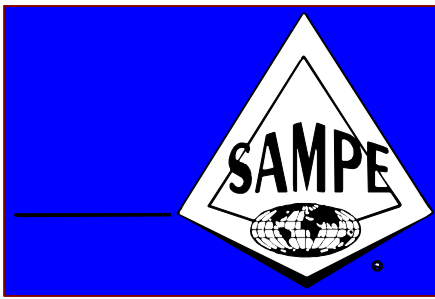
In addition, the Chapter has revised its newsletter to provide greater recognition of its sponsors. A sponsor's corner has been included for sponsors to highlight new product announcements, new business activities, processes and informative information concerning your company. Please submit any items for inclusion in the newsletter to me by email at sampejohn@yahoo.com.

The New Jersey Chapter of SAMPE is currently in the process of developing a web site. The web site is being planned as a service to the members to provide additional information including all Chapter Newsletters, the Chapter's History and By-laws.

There will also be a page where the Chapter Sponsors can post expanded information concerning their company and product line. Additional information concerning this page will be available shortly.

If your company has any interesting topic or speaker for a future meeting, please notify me and the chapter will try to arrange the presentation in the near future.

If you have any questions, regarding your corporate sponsorship, please email me at sampejohn@yahoo.com.



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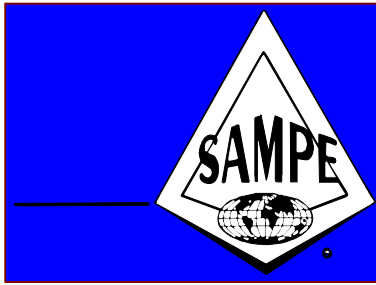
INDUSTRY NEWS

McCLean Anderson, Milwaukee, WI

New to *McCLean Anderson* is the Raptor - large scale, heavy-duty winder. The Raptor is custom designed for each customer. It has a modular Carriage Bed design (3m increments) to accommodate extremely long parts. It's custom design allows for the largest diameter filament wound products. McCLean Anderson's Raptor offers many unique options from collapsible mandrels, part carts, and curing panels, to electronic slaved fiber tensioning systems, spray chop delivery, and sand systems. The Raptor is designed for 2 to 4 axes of unmatched computer controlled motion. The Raptor is digital servo control technology for ease of operation and comes with their user friendly, powerful windows based flexwind control that is customized per machine. Also included is McCLean Anderson's highly advanced Composite Designer pattern development software. Their web site is www.mccleananderson.com

NUSIL TECHNOLOGY, CARPINTERIA, CA

NuSil Technology a cutting-edge manufacturer of silicone-based materials for aerospace, aircraft, electronics and photonics industries, announces the launch of an extension to its line of adhesives and sealants. R-3930 is a fluorosilicone, one-part silicone elastomer designed to cure under ambient conditions. Tested alongside fuels, such as JP8 and DiEGME R-3930 is ideal for coating, sealing and bonding applications requiring fuel or solvent resistance. This unique elastomer is a room temperature vulcanizing (RTV) silicone elastomer dispersed in tertbutyl (Tbutyl) acetate with a wide operating temperature range. Intended for spraying and dip-casting, this versatile material is uniquely designed for curing in thin elastomeric films. It is both easy to work with in the field and to apply on large surfaces, and the cure time may be accelerated with the slight addition of heat. R-3930 bonds aggressively to most surfaces without the need of a primer and is excellent for consideration as a coating to minimize ice adhesion. Their web site is www.nusil.com



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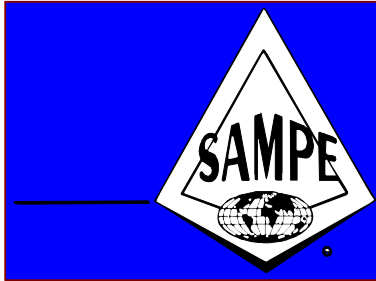
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1999 – 2009 Benjamin M. Rasmussen

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2001 Harry S. Katz

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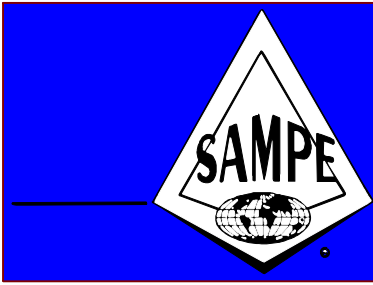
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<p>A & P Technologies Andrew A. Head 4595 East Tech Drive Cincinnati, OH 45245 513-688-3200 Fax: 513-688-3201 ahead@braider.com www.braider.com</p>	<p>Engineered Fibers Technology Robert E. Evans 25 Brook Street Shelton, CT 06484 203-922-1810, X335 Fax: 203-922-1814 efiberstec@aol.com www.EFTfibers.com</p>	<p>Gerber Technology Inc Dudley Fenn 24 W. Industrial Park Road Tolland, CT 06084 860-871-8082 Fax: 860-871-3730 dfenn@gerbertechnology.com</p>



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<p>Gentex Corporation PO Box 315 Carbondale, PA 18407 717-282-2814, X214 www.gentex.com</p>	<p>Loctite Corporation Larry Nativi 1524 Valhalla Drive Denver, NC 28037 704-489-8737 Fax: 704-489-8738 larry.nativi@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>Johnson & Johnson Dr. Anthony L. DiSalvo 199 Grandview Road Skillman, NJ 08558-9418 908-874-2548 Fax: 908-874-1688 adisalv@cpcus.jnj.com www.jnj.com</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 Harrvskatz@aol.com www.udccorp.com www.radcure.com</p>
<p>Kenrich Petrochemicals Mr. Salvatore J. Monte 140 East 22nd St., POB 32 Bayonne, NJ 07002 201-823-9000 Fax: 201-823-0691 sjmonte@4kenrich.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>

