

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

OCTOBER NEWSLETTER & MONTHLY NOTICE

OCTOBER 2, 2008 (1ST THURSDAY)

**FRP STRENGTHENING OF THE CONCRETE PIER
AT THE US NAVAL STATION EARLE AT SANDY HOOK NJ**

**DR. HOWARD S. KLIGER
H. S. KLIGER & ASSOCIATES
SOMERSET, NJ, 08873
Phone: 732-469-7646
Fax: 732-469-6641
E-Mail: HSKLIGER@PATMEDIA.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
by noon the Wednesday before the meeting.

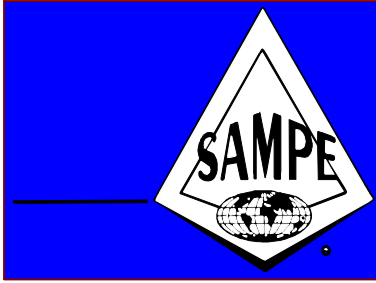
Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on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



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JUNE & JULY MEETINGS

At the June meeting, Dr. Louis A. Pilato gave an excellent presentation entitled Fire Retardant Intumescent Polyamide 11 Nanocomposites.

The New Jersey Chapter wishes to thank Dr. Louis A. Pilato for the excellent presentation.

On July 10th, 32 golfers attended the 25th Annual Golf Tournament.

UPCOMING SAMPE EVENTS

2009 SAMPE International Symposium and Exhibition, Baltimore Convention Center, May 18 – 21, 2009

“LEVERAGING M&P TECHNOLOGIES FOR A GREENER FUTURE”

The Baltimore/Washington, Midwest and Ohio SAMPE Chapters are sponsoring the 2009 ISS&E 2009 International SAMPE Technical Conference, Wichita, KS , October 19 – 22, 2009

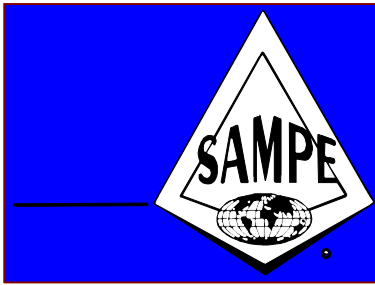
GLOBAL MATERIAL TECHNICAL SOARING TO NEW HORIZON

The New Jersey and Wichita Chapters are sponsoring the 2009 ISTC

2008 – 2009 MEETING SCHEDULE

September 8 – 11, 2008 – 40 th International SAMPE Technical Conference, Memphis, TN Sponsored by Michigan Chapter
October 2, 2008 – FRP Strengthening of the Concrete Pier at the Naval Station Earle at Sandy Hook NJ, Dr. Howard S. Kliger, H. S. Kliger & Associates
November 6, 2008 – Tour of Alcan/Baltek Facility, Northvale, NJ
December 4, 2008 – Prefumery and Consumer Products, Lauren Castelli, Givaudan Corporation
February 5, 2008 – TBD
March 5, 2009 – TBD
April 2, 2009 – TBD
May 7, 2009 – Election of Officers – TBD
May 18 - 21, 2009 – 53 rd International SAMPE Symposium & Exhibition, Baltimore Convention Center, Baltimore, MD Sponsored by Baltimore/Washington, Midwest and Ohio Chapters
June 4, 2009 – TBD
July 9, 2009 – 26 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

**THE NEW JERSEY CHAPTER HAS A
STUDENT CHAPTER AT DREXEL
UNIVERSITY**



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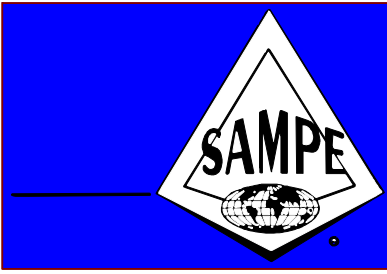
ABSTRACT:

In the mid 1990's, the US Navy began studying the use of carbon and glass epoxy as external reinforcement of degraded concrete structure. The first trial was a deck reinforcement at the Norfolk shipyard, followed by trials at San Diego and Pearl Harbor. After becoming an accepted practice, the Navy elected to use carbon fiber – epoxy for strengthening sections of the loading pier at Naval Weapons Center Earle, near Sandy Hook. In 2002, a number of concrete beams supporting the superstructure of the 2 mile long Naval pier at Earle were determined to be under strength. The repairs took place during the late summer of 2003, where the tension side of the 40 foot long beams were strengthened using unidirectional carbon epoxy laminates. This presentation provides some of the details of the repair process. In very practical terms, it describes some of the conditions and situations that arise in

the actual construction environment that are very different from a laboratory. Also described are the quality control and assurance measures taken to insure a proper repair.

BIOGRAPHY:

Howard Kliger is an engineering and marketing consultant to the composites industry. His recent emphasis has been with infrastructure related technology, and for the past five years, he has provided inspection and testing services for contractors and engineers that need certification for FRP concrete repair jobs. He has authored numerous technical papers and marketing reports and has been an active SAMPE member since 1975. He was Technical program co-chairman of the ISTC in 1989 and the ISSE in 1996 and 2002. He was co-general chairman of the 1998 ISSE and was elected a SAMPE Fellow in 1999. He received a Ph.D. in Engineering Mechanics from the University of Delaware in 1970.



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41ST INTERNATIONAL SAMPE TECHNICAL CONFERENCE SAMPE 2009 – WICHITA

At the Board of Directors Conference in Memphis, TN, the New Jersey and Wichita Chapters of SAMPE were awarded sponsorship of the 41st International SAMPE Technical Conference. The conference will be held Century II Performing Arts & Convention Center and the Hyatt Regency Wichita Hotel. The date of the conference is October 19 – 22, 2009.

The Theme of the conference is:

Global Material Technology – Soaring to New Horizons.

The technical program will be comprised of tutorials, sessions, panels and market trends sessions on advanced materials technologies such as fibers fabrics, resins, fabrication/ molding, high temperature materials and testing. Nanotechnology and small aircraft technology will each comprise approximately 25% of the program. Wichita has a number of small aircraft and design/fabrication companies, such as Hawker Beechcraft, Cessna, Sprint Aerospace and Bombardier Learjet, based in the area.

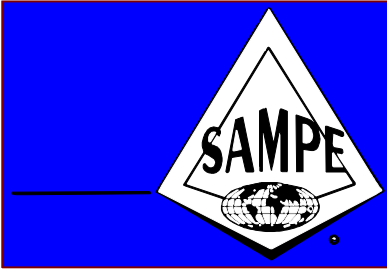
New Jersey will have major responsibility for the Technical Program, Keynote Speaker, and Budget. Wichita will have responsibility for Audio Visual, Local Arrangements, Local Publicity, and Volunteers. Wichita will also organize a number of aircraft related sessions and help identify the

keynote speaker. The International Business Office and the Executive Cabinet of SAMPE will have responsibility for city site selection, hotel arrangements, exhibits, budget, off-site events, and overall finances and planning, with the Technical Director being responsible for Tutorials and Technical Program Oversight. Wright Patterson Air Force Base will assist with the Nanotechnology program.

The organizing committee is:

General Co-Chair	Ben Rasmussen, Dr. Melanie Violette
Technical Co-Chair	Dr. Howard Kliger Dr. Louis Pilato Dr. Wen-Fang Hwang Dr. Brad Lucht
Finance Chairs	John Osterndorf Bill Washburn
Key Advisors	Dr. Peter Wu Darrel Dugan John Tomblin Yeow Ng Len Poveromo

If you would like to assist with in organizing the conference, please contact one of the above personnel.



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WELCOME NEW MEMBER

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

Ahmad Abu Obaid *University of Delaware*

Jay Bhatia *BASF Corporation*

Blake Carnahan *Lockheed Martin*

Eric Garis *SI Group*

John Madsen *Northrup Grumman*

Darin Noel *ITT Corporation*

Asuka Nomura

Randolph Taylor *Cyborg Textile*

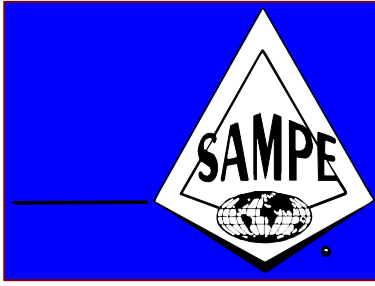
NOVEMBER MEETING

The New Jersey Chapter of SAMPE will be touring the facilities of Alcan Baltek Corporation in Northvale, NJ for it's November meeting on November 6, 2008. **ALCAN COMPOSITES CORE MATERIALS** offers you many decades of broad experience not only from one company, but from two leading companies in the composite business. **Alcan Airex**, Switzerland and **Alcan Baltek**, U.S.A. provide you as **ALCAN COMPOSITES CORE MATERIALS** a unique range of core materials, great depth of knowledge and unmatched support.

It is all at your service in choosing just the right engineered materials for the product you are designing or building. We will not only assist you in making the right material choice without costly or time-consuming trial and error, we will also direct you to the best fabrication techniques.

After the tour, arrangements are being made for dinner at a local restaurant.

Please plan to join the Chapter for the November Meeting for the Tour of Alcan Baltek.



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PAST CHAIRMAN:

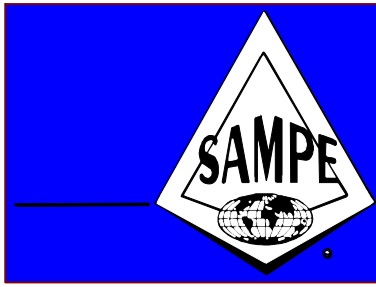
1977 – 1978 Raymond F. Wegman
1978 – 1979 William J. Russell
1979 – 1980 Michael Michno
1980 – 1981 Fred H. Ancker
1981 – 1982 Natalia Chujko
1982 – 1983 Robert J. Narsavage
1983 – 1984 Richard W. Reiter
1984 – 1985 Howard S. Kliger
1985 – 1986 John Burlage
1986 – 1987 John F. Osterndorf
1987 – 1988 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 – 2009 Benjamin M. Rasmussen

SAMPE FELLOWS:

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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:

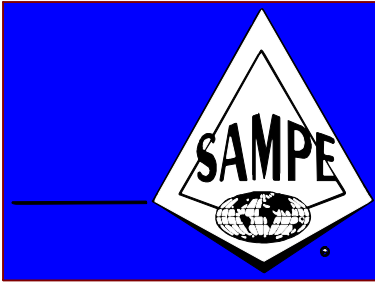
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<p>Automated Dynamics David Hauber 407 Front Street Schenectady, NY 12305 518-377-6471, X226 Fax: 518-377-5628 dhauber@automateddynamics.com www.automateddynamics.com</p>	<p>Coast-Line Int'l Heather O'Rourke 274 Bangor Street Lindenhurst, NY 11757 631-226-0500 X25 Fax: 631-226-5190 heathero@coast-lineintl.com www.coast-lineintl.com</p>	<p>General Magnaplate Edmund Aversenti 1331 US Route 1 Linden, NJ 07036 908-862-6200 Fax: 908-862-6110 eaversenti@magnaplate.com www.magnaplate.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>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 Sportsystem Plaza 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>

