



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

APRIL NEWSLETTER & MONTHLY NOTICE

APRIL 3, 2008 (1ST THURSDAY)

**SHUTTLE IMAGING RADAR MISSIONS
FROM A MICROWAVE ENGINEER'S PRESPECTIVE**

**MR. JAMES LYN ALFORD, (Retired)
ADVANCED DEVELOPMENT GROUP
ANDREW CORPORATION
8 STYKER ROAD
SOMERSET, NJ 08873
Phone: 732-868-0673
Email: joiseyboy@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.

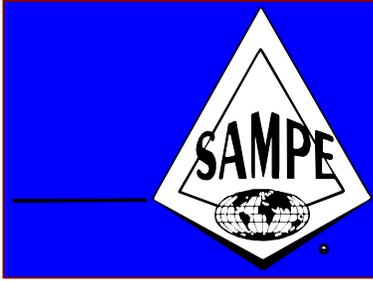
Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on 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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2007 – 2008 MEETING SCHEDULE

September 7, 2007 – Toward ‘Advanced Composites Green’, Professor Anil N. Netravali, Cornell University
October 4, 2007 – Plant Tour – General Magnaplate, Linden, NJ
October 29 – November 1, 2007 – 38 th International SAMPE Technical Conference, Cincinnati, OH Sponsored by Midwest Chapter
November 8, 2007 – The use of Titanates and Zirconates in Thermoset Composites with an Emphasis on Nanotechnology, Sal Monte, Kenrich Petrochemicals, Bayonne, NJ
December 13, 2007 – (Meeting Cancelled due to Snow Storm)
February 7, 2008 – Affordable Automation for Engineered Composite Structures, David Hauber, Automated Dynamics, Schenectady, NY
March 6, 2008 – “Composite applications in Infrastructure” for Alcan Baltek Corporation, Dr. Kurt Freichtinger, Alcan Baltek, Northvale, NJ
April 3, 2008 – Shuttle Imaging Radar Missions from a microwave Engineers Prespective, James Alford, Ad. Devel. Group, Somerset, NJ
May 1, 2008 – Election of Officers -TBD
May 18 - 22, 2008 – 52 nd International SAMPE Symposium & Exhibition, Long Beach Convention Center, Long Beach, CA. Sponsored by Utah and Japan Chapters
June 5, 2008 – Fire Retardant Intumescent Polyamide 11 Nanocomposites, Dr. Louis A. Pilato, Pilato Consulting, Bound Brook, NJ
July 10, 2008 – 25 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

THE NEW JERSEY CHAPTER HAS A STUDENT CHAPTER AT DREXEL UNIVERSITY

MARCHMEETING

At the March meeting, Dr. Kurt Freichtinger gave a presentation on Composite Applications in Infrastructure for Alcan Baltek Corporation. The presentation addressed various applications utilizing Alcan Baltek Corp.'s high-density, end-grain balsa core material, for novel structural sandwich constructions by the Louisiana Department of Transportation and Development,

The New Jersey Chapter wishes to thank Dr. Kurt Feichtinger for the excellent presentation.

UPCOMING SAMPE EVENTS

2008 SAMPE International Symposium and Exhibition, Long Beach Convention Center, May 18 – 22, 2008

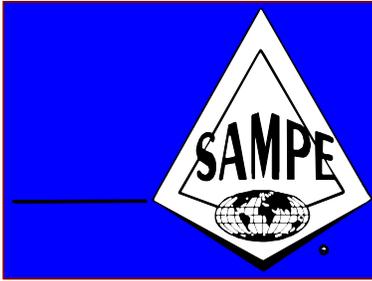
“MATERIAL AND PROCESS INNOVATIONS CHANGING OUR WORLD”

The Utah and Japan SAMPE Chapters are sponsoring the 2008 ISS&E

2008 International SAMPE Technical Conference, Memphis, Tennessee, September 8 – 11, 2008.

“MULTIFUNCTIONAL MATERIALS WORKING SMARTER TOGETHER: ”

The Michigan SAMPE Chapter is sponsoring the 2008 ISTC



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SHUTTLE IMAGING RADAR MISSIONS FROM A MICROWAVE ENGINEER'S PERSPECTIVE

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ABSTRACT:

This presentation is a discussion many interesting (from an engineer's perspective) aspects of a major space hardware development project that I contributed to in the late 80s and early 90s. Composite materials impacted this project in some unexpected ways.

BIOGRAPHY:

Mr. James Lyn Alford has BSEE for the University of Texas and MSEE from Southern Methodist University with over thirty years experience in Engineering, Management, and Marketing of RF/Microwave components and systems; a proven winner in large and small organizations. A self-starting, innovative problem solver, Mr. Alford has used a team oriented, motivational management style to accomplish

challenging goals in consumer, commercial, military and high-rel space markets.

Mr. Alford work for Andrew Corporation in their Advanced Development Groups at Richardson, TX and Warren, NJ locations, of \$2B global manufacturing firm providing infrastructure hardware to the wireless communications, satellite communications, point to point microwave communications and broadcast industries

He has also worked for Sierra Microwave Technology, Georgetown, TX, Alford Microwave Consulting, Marble Falls, TX, Gamma-f Corporation, Torrance, CA , MHz Systems, Inc., Dallas, TX , Aleph, Inc., Garland, TX, Resalab, Inc., Dallas, TX and Texas Instruments, Inc., Dallas, TX.

He is a member of the following Professional Organizations IEEE/PGMTT, AOPA, and has a number of US Patents.



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SAMPE 2008

**CONFERENCE AND EXHIBITION
LONG BEACH CONVENTION
CENTER
LONG BEACH, CA
MAY 18 – 22, 2008**

**SPONSORED BY THE UTAH &
JAPAN CHAPTERS**

Join us at SAMPE '08 for the world's largest advanced materials conference and exhibition. Providing the unique opportunity to attend seminars and presentations on cutting edge developments in the industry, SAMPE conferences are unparalleled in the industry.

Discover the new materials and applications that are shaping the marketplace at SAMPE '08. Featuring industry developments that are changing the field, the SAMPE '08 Conference offers solutions and insight that translate into efficiency and profitability when you return to work.

SAMPE Conference Program Descriptions

Sessions: Feature presentations by industry professionals, to share their research as it pertains to a new material, processor applications. Each presentation is based upon a full length technical paper, which is included in the Conference Proceedings.

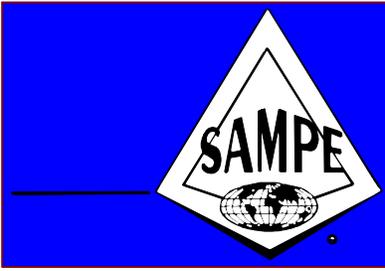
Panels: Discussions about a specific problem or issue concerning an aspect of the M&P Industry. These discussions often begin with a brief presentation by each panelist, followed by a period of discussion involving all in attendance.

Tutorials: Half-day training courses specifically designed to cover a single topic within the M&P field. These courses are best suited for professionals of all technical levels, as the courses feature comprehensive instruction. Tutorials require a separate fee, apart from conference registration.

Seminars: SAMPE is affiliated with many highly technical professional associations. These affiliates enhance the SAMPE Conference program with a half day seminar, course programming that does not fall under the organization of SAMPE. Seminars require an additional fee, apart from conference registration.

SAMPE strives to ensure that conference presentations are not marketing-oriented in nature. Our attendees come to learn and it is our mission to keep the conference completely educational.

Contact SAMPE IBO at 631-331-0616 for details concerning more details about the conference or at www.sampe.org.



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BRIDGE BUILDING & WING CONTEST

We are now in the final stage of the eleventh annual light weight composite bridge building contest, to be conducted on the floor of the SAMPE 2008 exhibition. Since the contest started, we have had more than 440 teams entering and more than 700 participants, most of them college students. There is a full write-up of last years contests in the September 2007 issue of the Journal. Rules for the 2008 contests are posted on the SAMPE website, www.SAMPE.org

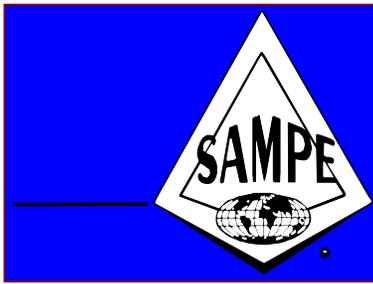
Both contests start with kits of composite materials being sent to the entrants. Bridges and wings are designed and built at home or company/school shop, and then brought to the Exhibition for testing. The small entrance fee is charged to defray some of the costs and also to ensure the commitment of the entrants. Bridge teams are made up of university students. Wing teams are usually university students, but we allow professional SAMPE members to compete as well.

What we need from you is help in getting some worthwhile composite related prizes or raw material donations that we can package into the kits. Last year's kits contained epoxy resin, adhesives, carbon and glass fabrics and tapes, braids, small spools of fibers, and various core materials. All the materials are in some way related to FRP fabrication. Our target is to have at least 75 team entries this year, so bear in

mind that if you volunteer some material, we need 75 of them to keep the contest equal.

Please read the rules to get an idea of the types of products that could be useful in the kit. If you can't be a material supplier, we still need the prizes. We will also take small cash contributions and last year we gave out about \$5000 in prize money, which was left over after all expenses were paid. Checks can be made payable to the New Jersey SAMPE Chapter and mailed to Howard Klinger (Howard's address is on page 6).

If you can respond to this, please call or email Howard S. Klinger (see page 6 for contact information. (Its too late for materials, but cash contributions for the prizes are still needed, please contact Howard Klinger).



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EXECUTIVE BOARD

CHAIRMAN:

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1998 – 1999 Ash Chopra
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1993 Leonard Poveromo
1999 Dr. Howard S. Kliger
2001 Dr. Louis A. Pilato
2001 Harry S. Katz

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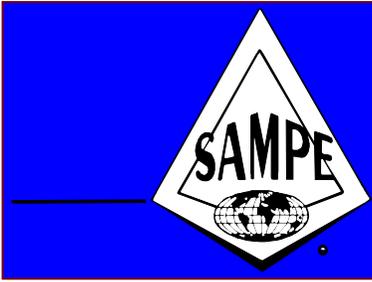
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<p>Argosy International Inc. Paul Marks 14 Penn Plaza New York, NY 10001 (212) 268-0003, X101 pmarks@argosychemical.com www.argosychemical.com</p>	<p>Bryte Technologies Chuck Chakrabarti 1235 Beacon Hill Crossing Alpharetta, GA 30005 (770) 475-7977 Fax: (770) 475-7477 cchakrabarti@brytotech.com www.brytotech.com</p>	<p>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>
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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>GTD Consulting Gail DiSalvo 127 Rippling Brook Way Bernardsville, NJ 07924 908-953-0849 Fax: 908-766-6373 gail.disalvo@att.net</p>



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<p>JFC Technologies Chris Burger 100 W Main St., POB 669 Bound Brook, NJ 08840 732-469-7760 Fax: 732-469-3666 burgerc@jfctechnologies.com www.jfctechnologies.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 Harryskatz@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 rarinboth@mmm.com www.3m.com</p>

