

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

SEPTEMBER NEWSLETTER & MONTHLY NOTICE

SEPTEMBER 10, 2009 (2ND THURSDAY)

NDE OF MULTILAYERED COMPOSITES

**NICHOLAS GIANARIS
GENERAL DYNAMICS LAND SYSTEMS
38500 MOUND ROAD
STERLING HEIGHTS, MI 48310
Phone: 586-825-4026
Email: gianaris@gdis.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.

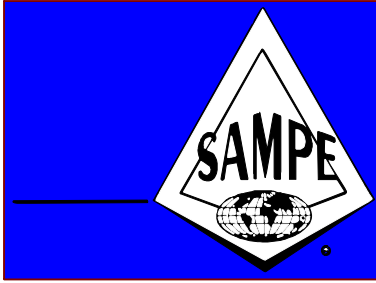
Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on 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 – TBD	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 – TBD	May 17 – 20, 2010 – 54 th International SAMPE Symposium & Exhibition, Washington State Convention Center, Seattle, WA Sponsored by Seattle Chapter
December 3, 2009 – TBD	June 3, 2010 – TBD
February 4, 2010 – TBD	July 8, 2010 – 27 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

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

JUNE AND JULY MEETINGS

At the June meeting, Dr. Louis A. Pilato gave an excellent presentation entitled Nanotechnology 2009 – An Update. The New Jersey Chapter wishes to thank Dr. Pilato for the excellent presentation.

On July 9th, 49 golfers attended the 26th Annual Golf Tournament.

UPCOMING EVENTS

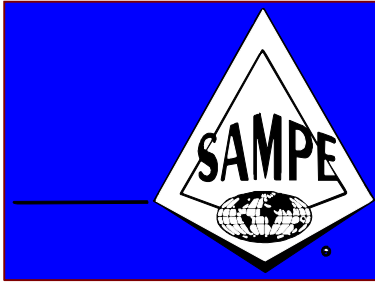
2009 International SAMPE Technical Conference,
Wichita, KS, October 19 – 22, 2009

“GLOBAL MATERIAL TECHNOLOGY SOARING TO NEW HORIZONS”

The New Jersey and Wichita Chapters are co-sponsoring the 2009 ISTC.

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.



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NDE OF MULTILAYERED COMPOSITES

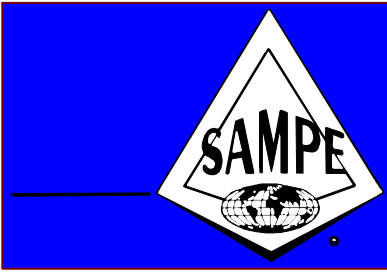
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ABSTRACT:

Multi-layer composite structures are fabricated by hand laying up of fabric material either graphite or glass and a resin material to adhere the layers together. The fabric material can be either in pre-preg form or by using a wet layup process. The structure can be fabricated with the fabric layers in alternating directions depending on the requirements. After laying up the structure, the structure is then generally cured using heat and pressure. After fabrication, Non Destructive Evaluation (NDE) Test Methods are used to locate voids in the layers of the structures. This presentation will describe the NDE method used by General Dynamics Land Systems to inspect Multi-Layer Composites Structures.

BIOGRAPHY:

Nicholas Gianaris is a Senior Materials and Process Engineer in the Advanced Structures Group at General Dynamics Land Systems in Sterling Heights, MI.



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41ST INTERNATIONAL SAMPE TECHNICAL CONFERENCE SAMPE 2009 – WICHITA

The SAMPE Fall Technical Conference, scheduled for October 19 – 22, in Wichita, Kansas, that is being sponsored by the New Jersey and Wichita Chapters of SAMPE is moving along at a rapid pace. Here's an overview of where we are 2 months out.

Technical Program

We have about 47 sessions, some of which will drop out as we consolidate in the final program. Presently there are 179 papers under review (14 are ITAR restricted). We have done exceedingly well in converting abstracts into full papers. Because the conference locale is Wichita, the General Aviation capital of the world, we have purposely concentrated on A/A related sessions. The preliminary program was mailed out the week of July 27th.

Panels, Workshops and Invited Lectures

Panels have presentations without formal papers published. We have 6 confirmed panels – Benchmarking Composite Technology: Europe vs US, Energy Issues in Aviation, Commercializing Composites, Design/Analysis Tool Demonstration, Technologies to Assist Composite Manufacturing, and Damage Resistance of Sandwich Structures (joint with ASTM D30 committee). We also have an AFOSR sponsored workshop for Multiscale Modeling of PMC's. Finally, we have three invited lectures on Metal Composite Hybrids, The Role of Education in Composite Engineering and Acoustic Emission.

Keynote

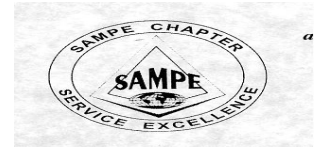
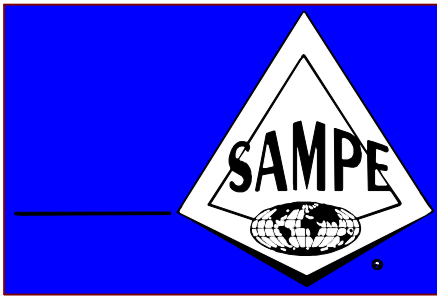
John Pilla, Senior VP of Spirit Aerosystems and Persis Elwood, Director AFRL Manufacturing Division are our two confirmed Keynote speakers.

Tours

There will be two tours on Thursday afternoon, Spirit Aerosystems and NIAR (National Institute for Aviation Research) at Wichita State University

Webcasting

IBO is currently negotiating with a webcasting company, Knowledge Foundation, to provide live webcasts and delayed rebroadcasts of selected sessions over the three day conference. The concept would be for people who don't attend the conference to be able to view the sessions off the Internet (for a fee). The Committee has recommended specific sessions. All of this is being handled through IBO and none of the associated expenses are part of the conference budget.

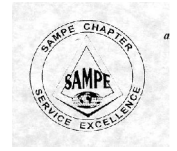
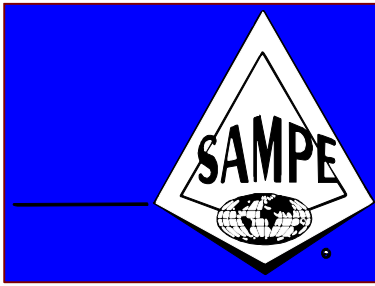


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WELCOME NEW MEMBERS

The New Jersey Chapter would like to welcome the following new chapter members and also welcome back some old members:

<i>Bill Chen</i>	<i>Frontier Performance Polymers</i>	<i>Kazu Nakai</i>	<i>DNP Corp USA</i>
<i>Tony Constantino</i>	<i>Fiber-Line Inc</i>	<i>Rick Rehrig</i>	<i>Harper International Corp</i>
<i>Sajal Das</i>	<i>Lonza Inc</i>	<i>Veljko Samardzic</i>	<i>Frontier Performance Polymers</i>
<i>Steve Davis</i>	<i>Prince Sports Group</i>	<i>Jeffrey Schroeder</i>	<i>Dayton T. Brown</i>
<i>Mark Drey</i>	<i>ITT Space Systems</i>	<i>Pavel Simacek</i>	<i>Univ. of Delaware</i>
<i>Robert Ignatuk</i>	<i>The Boeing Company</i>	<i>Paul Thompson</i>	<i>GE Global Research</i>
<i>Ken Iwasa</i>	<i>ARL Penn State Univ.</i>	<i>Kent Watson</i>	<i>National Institute Of Aerospace</i>
<i>Edward Klock-McCook</i>	<i>Material Research & Design</i>	<i>Ed Wen</i>	<i>Aurora Flight Science</i>
<i>John Lajesse</i>	<i>Gentex Corporation</i>	<i>James Whiteside</i>	
<i>Thomas Mauric</i>	<i>Northrop Grumman</i>		



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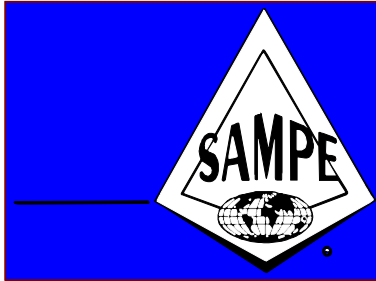
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2001 Harry S. Katz

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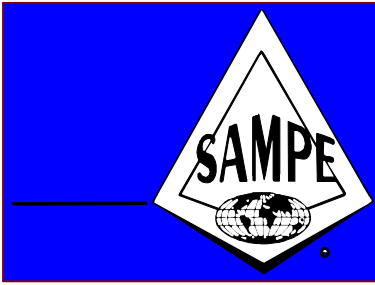
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<p>Automated Dynamics David Hauber 407 Front Street Schenectady, NY 12305 518-377-6471, X226 Fax: 518-377-5628 dhauber@automateddynamics.com www.automateddynamics.com</p>	<p>Coast-Line Int'l Heather O'Rourke 274 Bangor Street Lindenhurst, NY 11757 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>
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