



We are Pleased to Present the Featured Guest Speaker for our September 5th Meeting:

Natural Fiber Composites Louis A. Pilato

ABSTRACT

Strong consumer interest in “green technologies” such as bio-based monomers and natural fiber reinforcements are in vogue today. Research in Natural Fiber Composites has existed since the early 1900s but has not received much attention until late in the 1980s. Composite fiber component is primarily glass but can include natural fibers and are found in many consumer products: boats, skis, automobiles, and other materials. One of the goals of Natural Fiber Composites is to alleviate the need to use relatively costly glass fiber (~ \$2/lb.) due to high density (2.55g/cm³), dependence on nonrenewable sources and an energy intensive process. The auto and construction industries are leading the way into the use of Natural Fiber Composites for a variety of reasons such as

weight savings, less costly, use of a renewable source, ease of recycling, decreased abrasion of equipment, reduced irritation of workers due to air-borne glass dust, and biodegradability of components. More recently sports equipment and aircraft components areas are considering Natural Fiber Composites. Various natural fibers will be discussed and compared with glass fiber, suitable matrix resins, both thermoplastic and thermosetting, will be considered as well as some of the challenges that remain in the full utilization of these renewable materials in the composites industry.

BIOGRAPHY

Dr. Louis Pilato is a member of the Society for the 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.

MEETING DETAILS

Place: Bridgewater Manor, Bridgewater, NJ; (908) 658-3000

Time: 5:45 – 8:30

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 jfo0956@gmail.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:



NEWSLETTER

September 2013

Society for the Advancement of Materials and Process Engineering

New Jersey Chapter



2013 – 2014 Meeting Schedule

September 5, 2013 – Natural Fiber Composites, Louis Pilato, Pilato Consulting

October 3, 2013 – Len Poveromo, Northrup Grumman Corp

October 21 – 24, 2013 – 45th ISTC, Wichita, KS.

November 7, 2013 - TBD

December 6, 2012 –David Jhaveri, TFP Americas

February 6, 2014 – Jim Toth, Evonik Corp

March 6, 2014 – Deep Solanki, Structural Corp.

April 3, 2014 – TBD

May 1, 2014 – TBD

June 2-4, 2014 – 58th ISEE, Seattle WA

July , 2014 – 31st NJ SAMPE Golf Tournament, Picatinny Arsenal



NEWSLETTER

September 2013

Society for the Advancement of Materials and Process Engineering



New Jersey Chapter

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Spotlighting Local Chapter News

We announce our new officers and chairs for the 2013-2014 season.

Chairman: Borys Schafran

Treasurer: John Osterndorf

Membership: Jane Arlauskas

Secretary: Megan Casey

Program: Howard Kliger

Director: Louis Pilato

Ben Rassmusen, after surgery, has been slowly recuperating and his spirits are high. He continues to follow NJ Sampe activities.

We expect him to be back in the near future at one of our meetings.