

NEWSLETTER

October 2015

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



We are Pleased to Present the Featured Guest Speaker for our October 1st Meeting:

Louis Pilato
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Bio-Based Materials- Now and into the Future

Abstract

Initial efforts directed to biopolymers from renewable sources considered primarily biodegradability. There has been a paradigm shift from degradable to durable type polymers and both types of biopolymers will be considered. Within the last decade this explosive activity has focused on several building blocks (monomers) that have been prepared from renewable feedstocks using Chemical, Biochemical and Fermentation

methods. Selected building blocks such as lactic acid, succinic acid, adipic acid, butane diol, and others will be discussed in the preparation of polyesters, polyamides, and other bio-based polymers and some of their applications. Active participants are: **DuPont, BASF, DSM, DOW, Arkema, Evonik, Teijin, Toray, Toyota, Mitsubishi Chemical, Ford, Proctor & Gamble, Coca Cola, Pepsico, Danone, Novamont, NEC, others.** Applications range from packaging, fibers, automotive, beverage containers, molded products. Both thermoplastic and thermosetting resins will be described in the presentation. Food/non-food agricultural materials, 1st Generation and 2nd Generation source feedstocks, pretreatment/conversion, shale gas, legislation, market trends, and summary complete the presentation.

Biography

SAMPE Fellow Dr. Louis Pilato possesses over 30 years' experience in FRP systems and engaged in a variety of composite methods such as Hand Lay Up, Filament Winding, RTM, Pultrusion, Prepreg primarily in Thermosetting resins such as epoxies, vinyl esters, phenolics, BMI, cyanate esters, and polyimides. He has over 40 years' experience in Phenolic Resin Technology involving most applications/market areas that require phenolic resins. He has authored books on Advanced Composite Materials (1994) and 3 books on Phenolic Resins (1985,

1999, and 2010) - all published by Springer, Heidelberg, Germany. He has over 100 technical publications, more than 15 patents, and many seminar/tutorial presentations for industrial companies and various technical societies such as Polymer Division of the ACS, SAMPE, SPE, SWST, and Forest Products Society. He is an invited speaker during the biennial Baekeland Symposium held globally.

MEETING DETAILS

Place: Bridgewater Manor, Bridgewater, NJ; (908) 658-3000
Time: 5:45 – 8:30

Cost: \$15.00 Adv Registration; \$20.00 at Door; Students – Free
This meeting is open to all SAMPE members, spouses, guests, and other interested parties

Reservations contact John Osterndorf at 973-248-5885 or at jfo0956@gmail.com by noon 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

October 2015

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



2015 – 2016 Meeting Schedule

September 10, 2015 – Garry Hoffman, 3HTi, LLC.

October 1, 2015 – Louis Pilato, Bio-Based Resins

October 26 - 29, 2015 – CAMX, Dallas TX, sponsored jointly by SAMPE and ACMA

November 5, 2015 – Joe Landolina, Suneris LLC

December 3, 2015 – TBA

February 4, 2016 – TBA

March 3, 2016 – TBA

April 7, 2016 – TBA

May 5, 2016 – TBA

May 23 - 26, 2016 – SAMPE Long Beach, Long Beach CA

June 2, 2016 – TBA

July 2016 – 33rd NJ SAMPE Golf Tournament, Picatinny Arsenal



NEWSLETTER

October 2015

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NEWSLETTER

October 2015

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



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1999, 2000, 2001

SAMPE Chapter Service Excellence Award Winner:

2002, 2003, 2004, 2005, 2006 (award retired
after 2006)

SAMPE Chapter Sponsored Conferences:

ISSE – 1990 (Anaheim), 1994 (Anaheim),
1996 (Anaheim), 1998 (Anaheim), 2002 (Long Beach)

ISTC – 1981 (Mt. Pocono), 1989 (Atlantic City),
2006 (Dallas), 2009 (Wichita), 2012 (Charleston)

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NEWSLETTER

October 2015

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



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NEWSLETTER

October 2015

Society for the Advancement of Material and Process Engineering

New Jersey Chapter



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NEWSLETTER

October 2015

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