



We are Pleased to Present the Featured Guest Speaker for our April 4th Meeting:

## Composites for the Automotive Industry: the Challenges of Mass Production

JP Masson  
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### ABSTRACT

Federal regulations require vehicles to reach a fuel efficiency of 54.5 mpg by 2025. To meet these standards, the automotive industry is pursuing various options. One of them, lightweighting, is based on the replacement of traditional steel with lighter materials such as carbon fiber composites. While there are examples of successful use of carbon fiber composites in high end, low series vehicles, the adaptation of composites manufacturing processes to the mass production demands of the automotive industry is proving to be a challenge. This presentation will review the limitations of some of the processes that have been evaluated and will describe new material developments as well as the processes that are currently being considered as suitable for scaling up to large series production.

### BIOGRAPHY

JP Masson is a Market Development Specialist with Evonik's Crosslinkers group. He concentrates on composites applications for Vestamin, Evonik's range of cycloaliphatic diamines which are used, for example, in wind turbine blades or filament wound pressure vessels. He earned a MS in Chemical Engineering from the European School of Chemistry, Polymers and Materials Science of Strasbourg, France. JP has been involved in the field of UV-cured inks and coatings, corrosion control coatings and composites for 15 years, in technical and business development positions.

### MEETING DETAILS

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

Time: 6:15 – 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 [sampejohn@yahoo.com](mailto: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.





### 2012 – 2013 Meeting Schedule

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**September 8, 2012** – Multi-Scale Modeling and Penetration Mechanics of Composites, Bazle Z. Haque, University of Delaware Center for Composite Materials

**October 22 – 25, 2012** – 44<sup>th</sup> ISTC, Charleston, SC. NJ Chapter Sponsor.

**December 6, 2012** – Stress Rupture Failure of a Continuous Fiber Composite Water Holding Tank, John DeFranks, IMR Test Labs

**February 7, 2013** – Anand Rau, Toray Carbon Fibers

**March 21, 2013** – Joe Pantalone, Composites One

**April 4, 2013** – JP Masson, Evonik Degussa

**May 2, 2013** – TBD

**May 6-9, 2013** – 57<sup>th</sup> ISEE, Long Beach Convention Center, Long Beach CA

**June 6, 2013** – Louis Pilato, Pilato Consulting

**July , 2013** – 30th NJ SAMPE Golf Tournament, Picatinny Arsenal



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