

## Post-Conference Training

**June 6-7, 2012** (Wed-Thur), 9a-5p, **University of Michigan-Dearborn**  
(two days, includes light continental breakfast at 8:30am, lunch each day)

**Please Note:** Final course selection, BASED ON REGISTRATION RESPONSE,  
will be announced May 1, 2012.  
Registration Confirmations will be sent to registered students after this date.

**Course Fee: \$450** (Students with valid ID: \$250)

### **Material Laws for Polymers in LS-DYNA®**

Instructor: Paul du Bois



#### **Course Content:**

This course focuses on simulation of foams, elastomers and thermoplastics. The simulation of foams and elastomers is well established; the simulation of thermoplastics, however, is still largely a research topic and consequently we can only aim at asking the right questions rather than answering them.

#### **Day 1, Wednesday**

9:00am - 10:30am	Overview of foam materials
11:00am – 12: 30pm	Review of the German FAT research project How accurate can foam simulation get?
1:30pm – 3:00pm	Data preparation for elastic foams (MAT_083)
3:30pm – 5:00pm	Unloading models Simulation of airflow in porous foams

#### **Day 2, Thursday**

9:00am - 10:30am	Overview of polymeric materials
11:00am – 12: 30pm	Thermoplastics: visco-elastic simulation (MAT_076)
1:30pm – 3:00pm	Thermoplastics: visco-plastic simulation MAT_24 and MAT_187
3:30pm – 5:00pm	Elastomers: simulation of rubbers (MAT_181)