

## I SPE - PLASTICS e-VOLUTION CONFERENCE

### Supply Chain Innovation

Date: **04 Oct**

Time: **08:30 – 18:00h**

Where: **CC3 Room 3.14**

**Description:** Integrating Plastics Technology into Additive Manufacturing. The I SPE Plastics e-Volution Conference will offer an ideal platform to host technical discussions on how plastics processors and suppliers can offer solutions to the current additive manufacturing challenges and how 3D printing technology can enrich the manufacturing portfolio of companies. The call for presentations is currently open until June 30th.

### Programme

**08.30 -09.00    Registration**

**09.00 -09.30    Keynote Speech: Introduction by Dr. Read Al-Zubi, the President of the Society of Plastics Engineers**

**09.30-11.00    Compounding for 3D Printing**

3D Printing has the potential to transform the chemical species supply chain because of some differentiation factors in the consumption patterns of this market. By one hand, the customization of products can be a driver for a displacement of the compounding process to be closer to the final customer at the supply chain. On the other hand, the consumption volumes required for custom compounded plastics which could be about an order of magnitude lower compared to commodity products, might give rise to a new supply chain organization. In this block, we will listen to the voice of different players already providing filaments to “makers” and companies, to understand this market trend.

**11.00-11.30    Break for Refreshment & Networking**

**11.30-13.00    Mass Customization: New Logistics for Small Batches of Materials**

Materials by design is an important trend declared by the European Commission as strategic focus for science and society development. 3D Printing has promising development fields with the crossed implementation of the currently available nanotechnologies, surface functionalization techniques, metamaterials and multi material embedded systems. However, the current paradigm of chemical industries supply chain has been based upon the consumption volumes generated by mass production. In this block experts will discuss this

Last update: 26/06/2017

innovation front that is being required urgently by market to go a step forward in technology implementation for an improvement upon the quality of lives at our society.

**13.00-14.00 Lunch and Networking**

**14.00-15.30 Industrial Digital Business: The Keys for Successful Implementation**

The need of lower volumes of material requirements due to mass customization as well as the internet implementation among all industrial processes is driving the emergence of new business models for logistics management. In this block, several innovative logistics business models based upon the digital economy will be presented.

**15.30-16.00 Afternoon Refreshments**

**16.00-17.30 Rapid Tooling as a Driver for Mass Customization**

Massive manufacturing has been based upon economy scales and tooling equipment capable of manufacturing large series of objects. An injection molding tool or a blow molding line are capital Intensive investments only justified by high volumes consumption. Markets are increasingly demanding customized products and high-performance materials for 3D printing have shown to be an effective solution for short series manufacturing. In this block case studies of successful rapid tooling applications will be presented

**17.30-18.00 Summary of the day**

**18.00 - Networking Drinks, Reception for All Attendees**