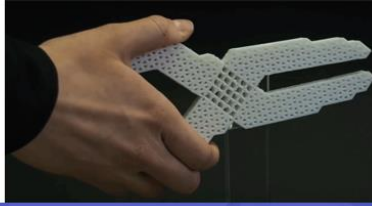


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In Conjunction with Equiplast & In(3D)ustry
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Integrating Plastics Technology into Additive Manufacturing

Additive manufacturing is becoming a stablished manufacturing method opening a new business opportunity for the components manufacturing sector. With inherent competitive advantages like geometric freedom for complex designs, cost efficiency and the streamlined development of finished parts, the market is pulling continually the demand for 3D Printed products.

The Society of Plastics Engineers (SPE) in conjunction with Equiplast are proud to present the first release of the Plastics e-Volution Conference addressed to plastics executives and engineers. This innovative industry conference will focus on presenting open technical discussions on material technologies taking the Additive Manufacturing Industry to go a Step Forward into its application's evolution. Considering this context, the new Additive Manufacturing Special Interest Group is being formed and everyone is invited to collaborate and keep on track.

Attending the "I SPE PLASTICS e-VOLUTION CONFERENCE: From Molding to 3D Printing" and the SPE Special Interest Group on Additive Manufacturing you will be at the center of the innovation movement at the interface between the traditional molding processes and the emerging 3D Printing Technologies

Djamila Olivier, Voxeled Materials Consulting. - Conference Chair



THANK YOU VERY MUCH



October 4th, Room 1 **From Bulk Molding to Laser Fabrication**

09.30 hrs	Registration
10.00 hrs	Keynote Introduction by Dr. Raed Al-Zubi , the President of the Society of Plastics Engineers

Materials and Additives for Powder Bed Fusion Technologies

Powder Bed Fusion Technologies begun as the already known Selective Laser Sintering of thermoplastics and by now, the interesting Multijet Fusion technology from the Giant HP has been integrated in this group of technologies. The patents for Selective Laser Sintering have expired and there is an Open SLS initiative where the information for developing Selective Laser Sintering machines is available for all interested. Clearly there is a potential market for those powdered materials even though the technical challenges for their processing remain unsolved to some extent. In this block, several manufacturers of equipment and powdered materials will share their current developments and challenges.



10.30 hrs
Dra. Carmina Querol
Mrs. Cristina Egea Molina
Mr. Francois Minec
Mr. Hector Esteller



12.00 hrs	Break
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Materials and Additives for Vat Polymerization, DLP and Material Jetting

The magic world of photosensitive resins is only limited by the imagination of the fortunate chemist and materials developers working on Materials and Additives for Vat Polymerization, DLP and Material Jetting. Coming from pre-polymers of three families of thermoset materials they design chain reactions initiated by a light source to give place to new varieties of materials: Polypropylene-like, ABS-Like, Flexible materials, Wax-Like, Calcinable, Biocompatible, even Voxel to Voxel controlled materials are giving rise to the so called Digital Materials. In this block, we will know some of the most important players of this market that will share their current developments. Also, the main drawback of this family of materials: Aging, will be analyzed and discussed, as well as the OPEN SLA Platform.



12.30 hrs
Mrs. Brigitte Jacobs
Dra. Karla Mora Barrios
Dr. Martin Baumer_(TBC)
BASF: TBD
Envisiontec: TBD



14.00 hrs	Lunch Time
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Thermoplastics: Current Implementation at Industry and Applications

The real market for 3D Printed parts is still a mystery for many industrials. In this block, important players of the 3D printing value chain will share their success experience about the use of commodities and performance materials as well as the current cases of applications already implemented at Industry. They will also present the challenges that remain unsolved from the technical point of view, giving rise to ideas and technical discussions. Finally, the target markets that will drive the growth of 3D Printed thermoplastics will be discussed.



15.00 hrs
Dr. Alessandro Charalambis
Mrs. Berta Gonzalvo
Mr. Jose Ramón Blasco_(TBC)
Dr. Joaquim Minguella_(TBC)



16.30 hrs	Break
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Photosensitive Resins: Current Implementation at Industry and Applications

Stereolithography was the first 3D printing method ever developed at 1986. Until now it remains as the Champion of the methods in one aspect: Resolution. It ranges from 20 microns at the more affordable technologies and it is approaching the nanometric scale at more recent fem-to-second laser induced two photon polymerization technologies. This competitive advantage has been the driver of its growth until now and it justifies the 50% market share of photosensitive resins among all 3D printing materials during the last years. In this block, important players of the 3D printing value chain will share their success experience about the current cases of applications already implemented at Industry.

17.00 hrs

Mrs. Marine Core Baillais (TBC)

Mr. Jonas Van Eyck (TBC)

Mr. Hermann Hanning (TBC)

Dr. Andreas Frölich (TBC)



18.30

Summary of the day

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October 5th, Room 1 **From Extrusion to Fused Filament Fabrication**

09.30

Keynote Speech



The Wide Market of Filaments

Fused Filament Fabrication is the most promising technology to drive massive implementation of 3D printing. Since the advent of the RepRap Project at 2011 the number of installed 3D Printers has been increasingly growing as their price decreases and the 3D printing awareness goes massive. Since this technology can be described as a kind of micro extrusion, virtually any thermoplastic-based resin can be processed. In this block, the main players of the market present their families of products, ranging from commodities to high performance thermoplastics like Polyether– Ether-Ketone (PEEK).

10.00 hrs.

Mr. Hector Mas
Mr. Ramon Malet
Mr. Pablo Valero Martínez
Mr. Domingo Ramon Font Vidal



11.30

Break



Additives and Compounding for Fused Filament Fabrication

3D Printing (FFF) as a new processing technology shows its own quality and reliability requirements. One of them is the anisotropy exhibited by the 3D printed parts and other intrinsic behavior to monitor of this technology is the interlayer adhesion. In this block the main additives providers, extruder manufacturers, custom materials manufacturers and final users will share their experience with the use of this new family of materials that can also be known as digital materials.

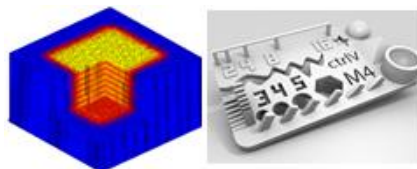
12.00 hrs.

Mr. Jose Ramon Fernandez(TBC)
Mr. Luís Roca Blay
Mr. Jose Manuel Ben
Dra. Merce de la Fuente



13.30

Lunch Time



Fused Filament Fabrication: Reliability, Bulk Testing and Simulation

Much has been said about 3D Printing and Additive Manufacturing Standardization. A specific ASTM committee (F42) has been working about this subject and the fruits still are to come. Reliability, standardization of testing methods and computer simulation should go hand by hand in development to ensure an increasing reliability of 3D Printing as an industrial manufacturing method. In this block, some important research works will be presented as well as an overview of the most common methods currently used for simulation and quality assurance at Fused Filament Fabrication

14.30

Dr. Guillermo Reyes
Dr. Antonio Travieso
Mr. Ignacio Eguía Cambero
Dr. Juan Rodríguez-Hernández



16.00

Break



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Composites for FFF: Advanced Manufacturing Applications

Graphene, Carbon fiber, Kevlar, Glass beads, Glass fiber are some of the used reinforcement materials for current composites applied at advanced manufacturing: Aerospace, Automotive, Sports and Leisure applications. Those materials are also being introduced to Fused Filament Fabrication. In this block some current material manufacturers, machine manufacturers and final users will share their vision of the current development and challenges of this important segment of materials.

16.30

Mrs. Sandra Bianca Bauer (TBC)
Mr. Victor Casal
Mr. Ignacio Garrido
Mrs. Djamilia Olivier González



18.00

Summary of the day. Closing

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ABOUT THE BARCELONA INDUSTRY WEEK

This year Fira Barcelona has joined together 6 Global events related with Chemistry, Polymers Processing and Industry 4.0 under a common Umbrella the “Barcelona Industry Week”. These events will attract thousands of companies, around 850 international speakers and over **50,000 professionals** to exhibit the most comprehensive and innovative offerings from the entire production chain; from raw materials, plastics and chemicals, through mass and customized production, to process automation using cutting-edge technology. Organized by Fira de Barcelona, these events held simultaneously from 1 to 6 October will turn Barcelona into the international capital of industry 4.0, offering professionals from all these sectors the chance to increase their contacts and business opportunities by taking advantage of the synergies created.

Cutting-edge industry

Industrial change using new technologies, the so-called Fourth Industrial Revolution, will thus be the common denominator of a series of tradeshow exhibiting intelligent materials, their processing, their industrial application in solutions and their smart connectivity.

Barcelona Industry Week will thus exhibit proposals for a wide range of industries, thereby covering the entire production value chain, presenting the best solutions and the latest innovations that will be integrated into the day-to-day of companies. The event has the backing of the leading industry associations and companies as well as the public authorities.

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THE SOCIETY OF PLASTICS ENGINEERS (SPE)

SPE is the leading technical society for the global plastics industry. It is a community of individuals involved in the technical and commercial aspects of the plastics and polymer industry. It is a place where individuals can interact, learn and develop skills to meet their personal and professional goals. This community fosters technical innovation and industry competitiveness through scientific development and commercialization.

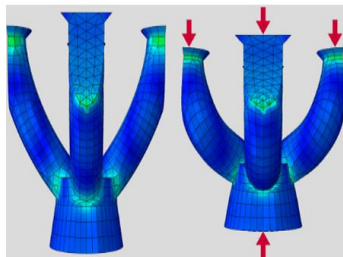
With over 22,500+ members from 84 different countries, SPE is the largest, most well-known plastics professional society in the world. Celebrating our 75th anniversary in 2017, we are the “go to” place for technical information, training, networking and knowledge sharing for plastics professionals who want to advance their knowledge and their careers

WHO WE ARE

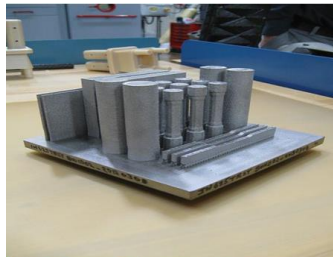
We are a **European technical interest group** working around the 3D Printing Technologies. We are a part of the Society of Plastics Engineers. The aim of this group is to **provide a platform for our participants to attend technical conferences, network with colleagues, publish and present technical information and research, and stay current with news and information** through the Special Interest Group newsletters and conference proceedings.

OUR INTERESTS

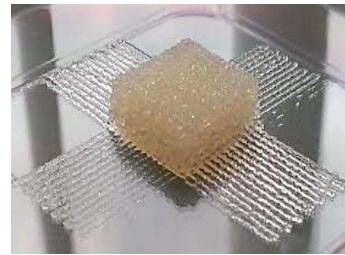
We want to promote the knowledge sharing and creation among our members. The subjects to be developed initially are listed below:



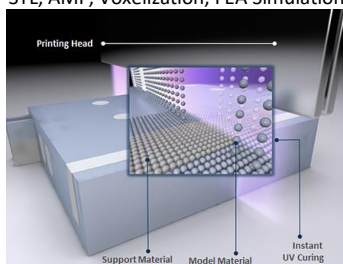
Virtual Models
STL, AMF, Voxelization, FEA Simulation



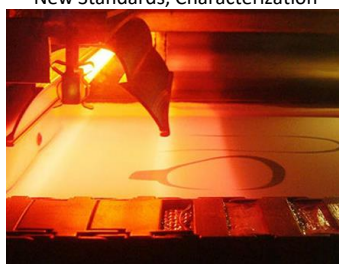
Properties Testing
New Standards, Characterization



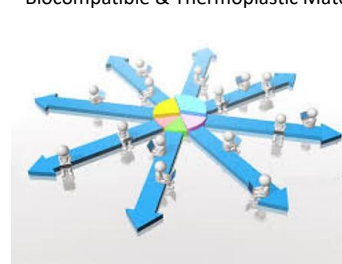
Fused Filament Fabrication
Biocompatible & Thermoplastic Materials



Photosensitive Resins
Vat Polymerization, Material Jetting



Powdered Thermoplastics
Powder Bed Fusion



Supply Chain Innovation

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FEE: 95 Euros

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