

CHEMICAL ENGINEERING & 3D PRINTING

7 September 2018
Paris - France

COME & PARTICIPATE

Come and participate in this novel event: 1-day dedicated to scientific development and to 'hot' topics within the boundaries of Chemical Engineering.

DEVELOP your NETWORK

Network with researchers, industrialists and suppliers.

REGISTER on line

Registration fees : 180 €
Registration fees for SFGP members : 150 €
Lunch and breaks included

[Click here to register](http://www.sfgp.asso.fr)

CONTACT ORGANIZER

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LISTEN & INTERACT

Listen to the invited speakers and interact in discussions related to 3D printing, a new chemical engineering challenge.

EASY ACCESS LOCATION

Espace Bellechasse
18, rue de Bellechasse
75007 Paris - France
Metro - Line12 stop: Solferino
Rer C - stop: Musée d'Orsay
Bus: N°24-63-68-69-73-83-84-94

- 3D printing offers a new and large field of exciting applications to the process industries.
- Chemical engineering is involved at multiple levels as the printer could be considered as a mini-plant, central to the preparation of raw materials, which require special properties; the design of the printer (considering energy, pollutants, recycle, gas emission capture...); in the determination of the optimal operating conditions.

- 3D printing offers the possibility of manufacturing products and objects (*eq. heat exchanger, miniaturized reactors, impellers, packing elements...*) with innovative and special designs that cannot be easily made with current manufacturing techniques.

All of these aspects will be dealt with during the 1st European Forum on New Technologies.

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PROGRAM

8:45 • 9:00	Welcome Hermann Feise, EFCE President, François Nicol, SFGP President	
9:00 • 9:15	Introduction J-Marc Le Lann, past-EFCE Scientific President, INP-ENSIACET, Toulouse - France	
9:15 • 9:35	Chemical Engineering for the conception of 3D printers	Powder Bed Additive Manufacturing and Factory of the Future Frédéric Verlon EOS France - Electro Optical Systems S.A.S, Champagne-Au-Mont-d'Or - France
9:35 • 9:55		Safety issues pertaining to additive manufacturing: general considerations and early learnings from the PALOMA project Guy Marlair INERIS, Verneuil-en-Halatte - France
9:55 • 10:15		To be confirmed
10:15 • 10:30	Discussion on Chemical Engineering for the conception of 3D printers	
10:30 • 11:00	<i>Coffee break</i>	
11:00 • 11:20	Chemical Engineering for the end-use of additive manufactured objects	PRINTCR3DIT EU project: Process Intensification through Adaptable Catalytic Reactors made by 3D Printing Carlos Grande SINTEF Industry, Oslo - Norway
11:20 • 11:40		Innovative reactors for H₂-SMR process intensification Raphaël Faure Air Liquide - Research & Development, Jouy en Josas – France
11:40 • 12:00		3D Printed microfluidics: development and challenges Armando A.V. Razonale University of Pisa, Dip. di Ingegneria Civile e Industriale, Pisa - Italy
12:00 • 12:20	Discussion on Chemical Engineering for the end-use of manufactured objects	
12:30 • 13:45	<i>Lunch</i>	
14:00 • 14:20	Chemical Engineering for manufactured products in pharmaceuticals	Personalised 3D Printed Medicines: from bench to market Dolores R. Serrano School of Pharmacy, Universidad Complutense de Madrid, Madrid - Spain
14:20 • 14:40		The use of 3D printing in pharmaceutical product and process development Frantisek Stepanek Department of Chemical Engineering, University of Chemistry and Technology, Prague - Czech Republic
14:40 • 15:00		Discussion on Chemical Engineering for manufactured products in pharmaceuticals
15:00 • 15:20	Chem Eng for the formulation of materials	Concepts of particle mechanics in SLS of non-metallic materials Massimo Poletto Department of Industrial Engineering, University of Salerno, Fisciano - Italy
15:20 • 16:00	Chem Eng for the implementation of 3D printers into the 4.0 factory	Advanced materials and applications in additive manufacturing Gülây Bozoklu-Claudel Stratasys
16:00 • 16:20		Software Solutions for Digital AM Process Chains Omar Fergani, Christof Kiener Siemens, Berlin – Germany
16:20 • 16:50		Discussion on Chemical Engineering for implementation of 3D printers into the 4.0 factory
16:50 • 17:30	<i>Cocktail</i>	