#### 1st EUROPEAN FORUM ON NEW TECHNOLOGIES

A new event series of the European Federation of Chemical Engineering

# CHEMICAL ENGINEERING & 3D PRINTING

7 September 2018
Paris - France



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



Network with researchers, industrialists and suppliers. • 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.

REGISTER on line

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

Click here to register



Martine.Poux@ensiacet.fr

LISTEN &
INTERACT

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



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



This event is organized by SFGP under the auspices of EFCE.
It is labelled
'XVIIIeme journée 'Cathala-Letort'
of the SFGP



www.efce.info

## CHEMICAL ENGINEERING & 3D PRINTING

## 7 September 2018 Paris (France)

## PROGRAM

8:45 • 9:00	Welcome	
9:00 • 9:15	Hermann Feise, EFCE President, François Nicol, SFGP President  Introduction  J-Marc Le Lann, past-EFCE Scientific President, INP-ENSIACET, Toulouse - France	
9:15 • 9:35		Powder Bed Additive Manufacturing and Factory of the Future Frédéric Verlon
9:35 • 9:55	Chemical Engineering for the conception of 3D printers	EOS France - Electro Optical Systems S.A.S, Champagne-Au-Mont-d'Or - France  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	hemical E or the con D printers	To be confirmed
10:15 • 10:30	O # W	<b>Discussion</b> on Chemical Engineering for the conception of 3D printers
10:30 • 11:00	Coffee break	
11:00 • 11:20	ng for tive	PRINTCR3DIT EU project: Process Intensification through Adaptable Catalytic Reactors made by 3D Printing Carlos Grande
11:20 • 11:40	Chemical Engineering for the end-use of additive manufactured objects	SINTEF Industry, Oslo - Norway  Innovative reactors for H2-SMR process intensification  Raphaël Faure
11:40 • 12:00		Air Liquide - Research & Development, Jouy en Josas – France  3D Printed microfluidics: development and challenges  Armando A.V. Razionale
12:00 • 12:20		University of Pisa, Dip. di Ingegneria Civile e Industriale, Pisa - Italy <b>Discussion</b> on Chemical Engineering for the end-use of manufactured objets
12:30 • 13:45	Lunch	
14:00 • 14:20	Chemical Engineering for manufactured products in pharmaceutics	Personalised 3D Printed Medicines: from bench to market Dolores R. Serrano
14:20 • 14:40		School of Pharmacy, Universidad Complutense de Madrid, Madrid - Spain  The use of 3D printing in pharmaceutical product and process development  Frantisek Stepanek  Department of Chemical Engineering, University of Chemistry and Technology,
14:40 • 15:00		Prague - Czech Republic <b>Discussion</b> on Chemical Engineering for manufactured products in pharmaceutics
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 fix 3D printers into the fix 4.0 factory	Advanced materials and applications in additive manufacturing Gülay Bozoklu-Claudel
16:00 • 16:20		Stratasys  Software Solutions for Digital AM Process Chains  Omar Fergani, Christof Kiener  Siemens, Berlin – Germany
16:20 • 16:50	imp 3D 1	<b>Discussion</b> on Chemical Engineering for implementation of 3D printers into the 4.0 factory
16:50 • 17:30		Cocktail