

**ESPS 2018**  
**The 5<sup>th</sup> European Symposium of Photopolymer Science**

Mulhouse, France

September 3-6, 2018

[www.esps.uha.fr](http://www.esps.uha.fr)

*ESPS 2018 follows the successful previous meetings in Mulhouse (2010), Torino (2012), Vienna (2014) and Leipzig (2016). ESPS aims to bring together the recent and challenging achievements from both academia and industry in the field of photochemistry, kinetics, structural and mechanical properties of photopolymers.*

*Ample time for discussion will be provided in the program in order to emphasize the workshop character and to stimulate the exchange of new ideas.*

*The program will be mainly based on invited talks given by eminent scientists working in the field of photopolymers. In addition, contributed papers as well as posters will be accepted. Students are particularly encouraged to submit and to present their work. The three best student posters will be awarded with Young Scientists Poster Awards.*

**Venue**

The meeting will be held at Faculté des Sciences et Techniques

18, rue des Frères Lumière, Mulhouse.

The city is easily reached by the railway station or by plane (Euroairport at 30 km).

**Registration fees**

	Standard	
	before June 30, 2018	after June 30, 2018
Early bird		
Student	€ 320	€ 420
Academic	€ 450	€ 550
Industrial	€ 570	€ 670

More details and online registration are available at [www.esps.uha.fr](http://www.esps.uha.fr)

# ESPS 2018

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### Program

Monday 3 <sup>rd</sup>			Tuesday 4 <sup>th</sup>			Wednesday 5 <sup>th</sup>			Thursday 6 <sup>th</sup>		
8:30			8:30	I5	Bowman	8:30	I12	Vitale	8:30	I16	Sangermano
			9:00	O7	Van Hoorick	9:00	O19	Letterier	9:00	O27	Aguirre-Soto
			9:20	O8	Beigi	9:20	O20	Bonneau	9:20	O28	Evingür
		<i>Registration &amp; Coffee</i>	9:40	O9	Worrell	9:40	O21	Bongiovanni	9:40	O29	Svajdlenkova
			10:00	I6	Andrzejewska	10:00	I13	Schlögl	10:00	O30	Lutzer
									10:20	I17	Taki
10:30	I1	Liska	10:30		<i>Break</i>	10:30		<i>Break</i>			
11:00	O1	Kern	11:00	O10	Baudis	11:00	I14	Arsu	10:50		<i>Brunch</i>
11:20	O2	Fiedor	11:20	O11	Griesser	11:30	O22	Mohseni	11:30	I18	Ibrahim
11:40	O3	Galek	11:50	I7	Li	11:50	O23	Karasu	12:00	O31	Schörpf
12:00	I2	Dietliker	12:20	O12	Allonas	12:20	O24		12:20	O32	Peer
									12:40	O33	Houck
12:30		<i>Lunch</i>	12:40		<i>Lunch</i>	12:40		<i>Lunch</i>	13:00	I19	Joly-Duyhamel
14:00	I3	Strehmel	14:00	I8	Kloxin	14:00	I15	Karatsu			<i>End of conference</i>
14:30	O4	Oprych									
14:50	O5	Theil	14:30	O13	Yin	14:30	O25	Sun			
15:10	O6	Ley	14:50	O14	Takahara	14:50	O26	Okamura			
15:30	I4	Yagci	15:10	O15	He	15:10					
			15:30	I9	Guymon						
16:00		<i>POSTER</i>	16:00		<i>Break</i>			<i>SOCIAL</i>			
								<i>PROGRAM</i>			
		<i>SESSION</i>	16:30	I10	Nie						
20:30			17:00	O16	Bouvet-Marchand						
			17:20	O17	Ye						
			17:40	O18	Gorsche						
			18:00	I11	Scherzer						
			18:30								

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**Invited lectures**

[Andrzejewska Ewa](#), Poznan University of Technology, Poland

Thiol-ene photopolymerization in ionic liquids: New investigations

[Arsu Nergis](#), Yildiz Technical University, Turkey

Photochemically prepared nanocomposite thin films and organic vapor detection

[Bowman Chris N](#), University of Colorado, USA

Photoswitchable states of matter: thioester-based dynamic covalent chemistry in photopolymerized networks

[Dietliker Kurt](#), ETH Zürich, Switzerland

[Guymon C. Allan](#), University of Iowa, USA

3D printed retinal tissue scaffolds: stereolithography and two-photon polymerization of acrylated poly(caprolactone)

[Ibrahim Ahmad](#), University of Haute-Alsace, France

Full control of polymer properties during the photopolymerization of glass-fiber composites

[Joly-Duhamel Christine](#), ICGM-IAM, France

The electron acceptor/donor couple: utopia or reality?

[Karatsu Takeshi](#), Chiba University, Japan

Photochemistry and application of poly(cyclohexylmethacrylate) based photopolymer

[Kloxin Christopher J](#), University of Delaware, USA

Interpenetrating networks via simultaneous photoinitiation of orthogonal monomer chemistries

[Li Zhiquan](#), Jiangnan University, China

Photobase generators for thiol-based click polymerization

[Liska Robert](#), TU Wien, Austria

Advanced photoinitiators for coatings, biomaterials and 3D printing

[Nie Jun](#), Beijing University of Chemical Technology, China

The monomers from bio-sources for photopolymerization

[Sangermano Marco](#), Politecnico di Torino, Italy

Recent advances in cationic photopolymerization

[Scherzer Tom](#), Leibniz Institute of Surface Engineering, Germany

Transparent hydrogels made from poly (ethylene glycol) diacrylate as drug delivery materials for photosensitizer systems

[Schlögl Sandra](#), Polymer Competence Center Leoben, Austria

Photo-responsive polymer networks: synthesis, characterization, and applications

[Strehmel Bernd](#), Niederrhein University of Applied Sciences, Germany

Photopolymerization with near-infrared emitting Lasers and LEDs – from molecules to polymer synthesis and industry 4.0 related applications

[Taki Kentaro](#), Kanazawa University, Japan

Impact of oxygen inhibition on dark polymerization after photopolymerization of multifunctional monomers

[Vitale Alessandra](#), Politecnico di Torino, Italy

Environmentally induced changes of photopolymers surfaces: control of the rearrangements of perfluoropolyalkylethers chains

[Yagci Yusuf](#), Istanbul Technical University, Turkey

Metal free photoinduced ATRP

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**Oral communications**

[Aguirre-Soto Alan](#), Tecnológico de Monterrey, Mexico

Photocrosslinking epoxy resins to obtain graphitic carbon nanowires from ordered polymer networks

[Akin Evingür Gülsen](#), Piri Reis University, Turkey

Graphene oxide effect on the dynamical behavior of PAAm-go composite gels

[Allonas Xavier](#), University of Haute-Alsace, France

Photobase generators in photopolymerization reactions

[Baudis Stefan](#), TU Wien, Austria

PCL based toughness enhancers for photopolymer based bone substitutes

[Beigi-Boroujeni Saeed](#), Islamic Azad University, Iran

Photopolymerization of bactericidal thiol-ene based dental materials containing quaternary ammonium moieties with different structural

[Bongiovanni Roberta](#), Politecnico di Torino, Italy

Gradient copolymers: photoenforced surface segregation of siloxane acrylic monomers

[Bonneaud Céline](#), ICGM-IAM, France

Synthesis and radical photopolymerization of  $\alpha$ ,  $\beta$ -unsaturated esters and vinyl ethers perfluoropolyalkylethers

[Bouvet-Marchand Agathe](#), Specific Polymers, France

A platform of functional building-blocks for the design of UV-cured materials

[Fiedor Pawel](#), Cracow University of Technology, Poland

Photopolymerization of cationic and free-radical monomers under UV-A and visible light using new fluorescent probes based on pyridine compounds

[Galek Mariusz](#), Photo Hitech Ltd, Poland

A novel iodonium salts as a one-component photoacid generators for cationic photopolymerization under UV-LED or Vis-LED exposure

[Gorsche Christian](#), Cubicure GmbH, Austria

Hot lithography: opening the gate for highly resolved, functional 3D-parts

[Griesser Thomas](#), University of Leoben, Austria

Exploring biocompatible thiol/yne formulations for the 3d printing of functional biomedical devices

[Houck Hannes](#), Ghent University, Belgium

The remarkable photopolymerization of triazolinediones: switching chemical reaction pathways with different colours of light

[Karasu-Kilic Feyza](#), Ecole Polytechnique de Lausanne, Switzerland

Organic/inorganic hybrid planarization and moisture barrier coatings on cellulose nanofibrils substrates

[Kern Wolfgang](#), Montanuniversität Leoben, Austria

Initiation of radical photopolymerization reactions with photoactive silica particles

[Leterrier Yves](#), Ecole Polytechnique de Lausanne, Switzerland

Self-cleaning and wear-resistant polymer nanocomposite surfaces

[Ley Christian](#), University of Haute-Alsace, France

Photochemistry and photocuring performances of an innovative dual bicyclic photoinitiating system for the synthesis of organic-inorganic hybrid materials

[Lutzer Bernhard](#), In-Vision Digital Imaging Optics GmbH, Austria

Light sources for photopolymers

[Mohseni Majid](#), Institute for Color Science and Technology, Iran

A confocal Raman estimation of phenomenological theories for simulation of conversion gradient of UV-curable turbid layers

[Okamura Haruyuki](#), Osaka Prefecture University, Japan

Fabrication of Photocrosslinkable Polysilane/diarylfuorene Blended Films and Their Tuning of Refractive Indices

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[Oprych Dennis](#), Niederrhein University of Applied Sciences, Germany  
Upconverting nanoparticles for UV/vis photoinitiated generation of acidic cations and radicals upon NIR laser excitation

[Peer Gernot](#), TU Wien, Austria  
New monomers for photopolymerization based on radical cyclopolymerization

[Razza Nicolo](#), Politecnico di Torino, Italy  
Synthesis and behavior of Janus hairy nanoparticles via photografting-from strategy by exploiting the use of anchored type I photoinitiators

[Schörpf Sebastian](#), TU Wien, Austria  
Reduction of polymerization-induced shrinkage stress via combination of radical ring opening and addition fragmentation chain transfer

[Sun Fang](#), Beijing University of Chemical Technology, China  
Self-healing UV-cured material based on imidazole ionic interactions

[Švajdenková Helena](#), Polymer Institute of SAS, Slovakia  
Microstructural study of photopolymers by positron annihilation lifetime spectroscopy (PALS)

[Takahara Shigeru](#), Chiba University, Japan  
Poly (vinyl alcohol)-Iodine complex formation enhanced by photo-crosslinking

[Theil Perrine](#), Elkem Silicones France, France  
New chromium-free synthetic route for photopolymerizable silicones acrylates and design of new type II photoinitiators

[Van Hoorick Jasper](#), Ghent University, Belgium  
Thiol-ene Click Hydrogels: Influence of Crosslinker on Network Properties

[Worrel Brady](#), University of Colorado, USA  
A user's guide to the thiol-thioester exchange in photopolymerizable network polymers

[Ye Guodong](#), Guangzhou Medical University, China  
Unraveling the mechanisms of photoassisted autoxidation

[Yin Boyang](#), University of Haute-Alsace, France  
One-pot two-step sequential click reactions coupling aza-Michael addition and photoinduced copper (I) catalyzed reaction for the synthesis of new molecules

[Yong He](#), Beijing University of Chemical Technology, China  
Stepwise regulation of reversible CO<sub>2</sub>-responsive and photopolymerizable prepolymers

In addition, more than 50 posters will be presented during the conference.