

9th European Symposium of Photopolymer Science



**September 7-11, 2026
Vienna / Austria**

www.esps2026.net

WELCOME FROM THE CHAIRMAN OF THE 9th EUROPEAN SYMPOSIUM OF PHOTOPOLYMER SCIENCE

The 9th European Symposium of Photopolymer Science is held from September 7th-11th, 2026. It is organized by Robert Liska and Heinz Krebs (AT, TU Wien). *This symposium is dedicated to Yusuf Yagci (TR, İstanbul Teknik Üniversitesi) who unfortunately passed away in June 2023.*

The field of photopolymer science continues year after year to steadily advance fueled both by academic enthusiasm and by industrial pragmatism. The numerous environmental and economic benefits of light induced chemistry make these technologies popular for manufacturers and fabricators within a wide range of different industrial sectors.

The European Symposium of Photopolymer Science (ESPS) aims to bring together the brightest minds from both academia and industry to collectively present and discuss the fundamental issues within this still burgeoning field. The meeting consists of seminars from not just European but international leaders of photopolymer science with topics addressing critical issues such as photochemistry, reaction kinetics, analytical methods, photoinitiator and monomer synthesis, structure-property relations, polymer processing, as well as applications.

From Mulhouse (France), where the first meeting took place in 2010, the ESPS has moved to different locations (Torino, Leipzig, Vienna and Istanbul) and was held in Stresa (Italy) 2 years ago. Looking to continue a tradition of excellence set of the previous meetings and to bring back the family together, the Advisory board decided in June 2024 that the upcoming 9th Symposium to be held in September 7th-11th, 2026, and we are delighted to welcome you here in Vienna and wish you a wonderful time.



Sincerely,
Robert Liska

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INVITED SPEAKERS

From academia:

Alan **AGUIRRE-SOTO** (MX)
Yinyin **BAO** (FI)
Eva **BLASCO** (DE)
Stephanie **BRYANT** (US)
Xavier **FERNANDEZ-FRANCOS** (ES)
Didier **GIGMES** (FR)
Thomas **GRIEBER** (AT)
Allan **GUYMON** (US)
Mats **JOHANSSON** (SE)
Jason **KILLGORE** (US)
Christopher **KLOXIN** (US)
Jacques **LALEVÉE** (FR)
Igor **LACIK** (SK)
Zhiquan **LI** (CN)
Jaroslav **MOSNACEK** (SK)
Joanna **ORTYL** (PL)
Zach **PAGE** (US)
Maciej **PODGÓRSKI** (PL)
Sandra **SCHLÖGL** (AT)
Arnaud **SPANGENBERG** (FR)
Bernd **STREHMEL** (DE)
Veronika **STREHMEL** (DE)
Helena **SVAJDLENKOVA** (SK)
Caroline **SZCZEPANSKI** (US)
Alessandra **VITALE** (IT)
Chen **WANG** (US)
Jieping **WANG** (CN)
Pu **XIAO** (AU)

From industry:

Dennis **BARTHER** (DE)
Tanja **BIZJAK-BAYER** (DE)
Adelina **BRAUN** (DE)
Yohann **CATEL** (LI)
Suljo **CIRAK** (AT)
Johan **JANSEN** (NL)
Markus **KURY** (AT)
Kai **LICHA** (DE)
Vanessa **MAURIN** (SE)
Maj Grit **MELESCHKO** (DE)
Andreas **MÖCK** (CH)
Marika **MORONE** (IT)
Wolfgang **PAULUS** (DE)
Michel **ROSSO** (NL)
Patrice **ROOSE** (BE)
Jessica **SOHL** (AT)
Sebastien **VILLENEUVE** (FR)
Stefanie **WELLMANN** (DE)
Yingquan **ZOU** (CN)

COMMITTEES

ORGANIZING COMMITTEE

The conference is organized by the Research group of Polymer Chemistry and Technology at the TU Wien and ChemIT e.U.

Congress Chairman: Robert **LISKA** (TU Wien)

Heinz A **KREBS** (ChemIT e.U. & TU Wien)

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GENERAL INFORMATION

CONGRESS SITE

All plenary lectures will take place in the “HS 7” (Gusshausstrasse 27-29) at the TU Wien (see Campus Area Map).

All invited lectures and oral presentations will take place in lecture halls HS 7, HS 8, HS 9 and HS 10, which are located in the same building at the same level.

TU Wien
“Neues EI”
Gusshausstrasse 27-29
1060 Vienna

INTERNET ACCESS

For the time of the conference you have free access to the WLAN of the university. If your university is a partner of the eduroam initiative you can connect with your own credentials. Otherwise you will find your personal login credentials on your registration voucher you should have received by email in recent days – ask at the registration if you miss the voucher or need assistance.

REGISTRATION CENTER, INFORMATION DESK AND SLIDE CENTER

All desks will be located directly at the entrance to the conference building on all days, with the following business hours:

Monday, September 7, 12:00 to 18:00
Tuesday, September 5, 08:00 to 18:00
Wednesday, September 6, 8:00 to 13:00
Thursday, September 7, 8:00 to 18:00
Friday, September 8, 8:00 to 13:00

STUDENT AND RESEARCHERS AWARDS

3 Early Career Stage researchers awards

sponsored by ACS Publications, Elsevier and RadTech US

3 Best student poster presentations

3 Best student oral presentations

The laureates will be selected by you as participant and a group of invited lecturers, and the award will be presented at the closing ceremony on Friday. For further information about the voting please visit <https://esps2026.net/voting> or scan the QR-code on the right.



INSTRUCTIONS FOR SPEAKERS

All lecture halls are equipped with PCs for PDF- and PowerPoint-presentations. Speakers should visit the slide center located near the information desk on the day before their lecture to transfer the final version of the presentation file. After transfer, we encourage that you check the presentation for formatting and particularly if it contains embedded media.

The given time slot for the presentations include 3 minutes for discussions for oral presentations and 5 minutes for invited lectures.

INSTRUCTIONS FOR POSTER PRESENTATION

The poster boards will be positioned in the “TVFA-Halle” across the street of the main conference venue. (see Campus Area Map). They will be numbered consecutively. Poster mounting should be completed on Tuesday (3pm at the latest). Authors are requested to remain close to their poster during the official poster session hours. Posters are to be removed before Thursday at 12am. After this deadline they will be dismantled by staff members and can be re-claimed in the Slide Center (however, we do not take responsibility for any damage to the posters).

LUNCH

Your conference package includes lunch on Tuesday to Thursday. Dinner on Tuesday is offered as a barbecue event in the courtyard of the building.

TRANSPORTATION

The best way to travel around in Vienna is by taking advantage of the very efficient public transportation system. The Karlsplatz subway station, located only 500 meters from the conference site, is on the U1, U2, and U4 lines. The closest subway station (200m, Taubstummengasse) is only served by U1. The closest streetcar station (Wien Resselgasse) is on the 1 line. For more information visit: <http://www.wienerlinien.at/>

Tickets are valid on all public transport services in the core zone of Vienna (=city boundary), but please note, that tickets are not valid on airport busses, the Westbahn train, and the City Airport Train (CAT). Single trip tickets, day tickets, 24/48/72 hours tickets and 7 days tickets are available for online purchase or at the ticket machines.

SOCIAL PROGRAM

WELCOME MIXER



All congress participants and their accompanying persons are cordially invited to the reception on Monday evening, September 7, 2026 at 7.30pm. This informal get-together will take place at the town-hall of Vienna (Rathausplatz 1, 1010 Vienna, entrance at Lichtenfelsgasse 2 – Feststiege 2).



We will take a guided walk there, passing many historical buildings. Our helping hands will wait after the last talk outside the conference venue and will guide you to the town-hall in small groups, passing many historical buildings.

If you prefer to use public transport you may take the metro U2 from “Karlsplatz” in direction “Seestadt”, please get off at the third station “Rathaus”.

As this is an open end event and we are quite close to the conference venue, please arrange traveling to your hotel on your own. The metro U2 and the tramway station are in walking distance (4 min). If you have any further questions, helping hands will be available during the whole event.

SMALL AFTERNOON EXCURSION

For Tuesday afternoon, we have organized different tours to interesting sites in Vienna. All tours are within walking distance from the conference site, and you will be guided by one of our “helping hands”. In case of bad weather please don’t forget to bring your umbrella or rain coat. The meeting point for these walks is in the poster/exhibition area. Please be there in time (14:05 latest) and take notice to which tour you have signed up for.

POSTER SESSION AND BARBEQUE

On Tuesday the poster session starts at 6.30pm in the “TVFA-Halle” across the street of the main conference area. Presenting authors will be available there until 7:30 pm, and the event will be accompanied by some drinks and appetizers (build your own Leberkäse Semmel).

By about 7:30pm we invite you to the Garden Party (weather dependent) with barbeque and draft beer.

Finally we go back to the “TVFA-Halle” across the street to continue the poster session. Here we will also serve delicious wines from the favorite wineries of the two organizers.

LARGE CULTURAL EXCURSION

On Wednesday afternoon we go by metro U4 directly to the Schönbrunn palace and their gardens. If you have not signed up for a tour before, please check at the registration desk if there are still free spots available.

Depending on your tour we will meet at the entrance of the zoo or the palace. More detailed information can be found on our website at <https://esps2026.net/schoenbrunn> (scan the QR-code on the right), but our helping hands will guide you there as well.



CONFERENCE DINNER

Austria is known for good wine, but we also have a very long tradition in brewing beer. Since we already celebrated the wine culture during the Garden party on Tuesday, for the conference dinner we got to a typical beer garden - the "Schweizer Haus" in the Prater. The beginning of this restaurant dates back to the 19th century, and it's located within the Prater, a former royal hunting area which was opened to the public in 1766. Nowadays it's also a well known amusement park, so after the dinner you might want visit some attractions like the Riesenrad, the well known symbol of Vienna.

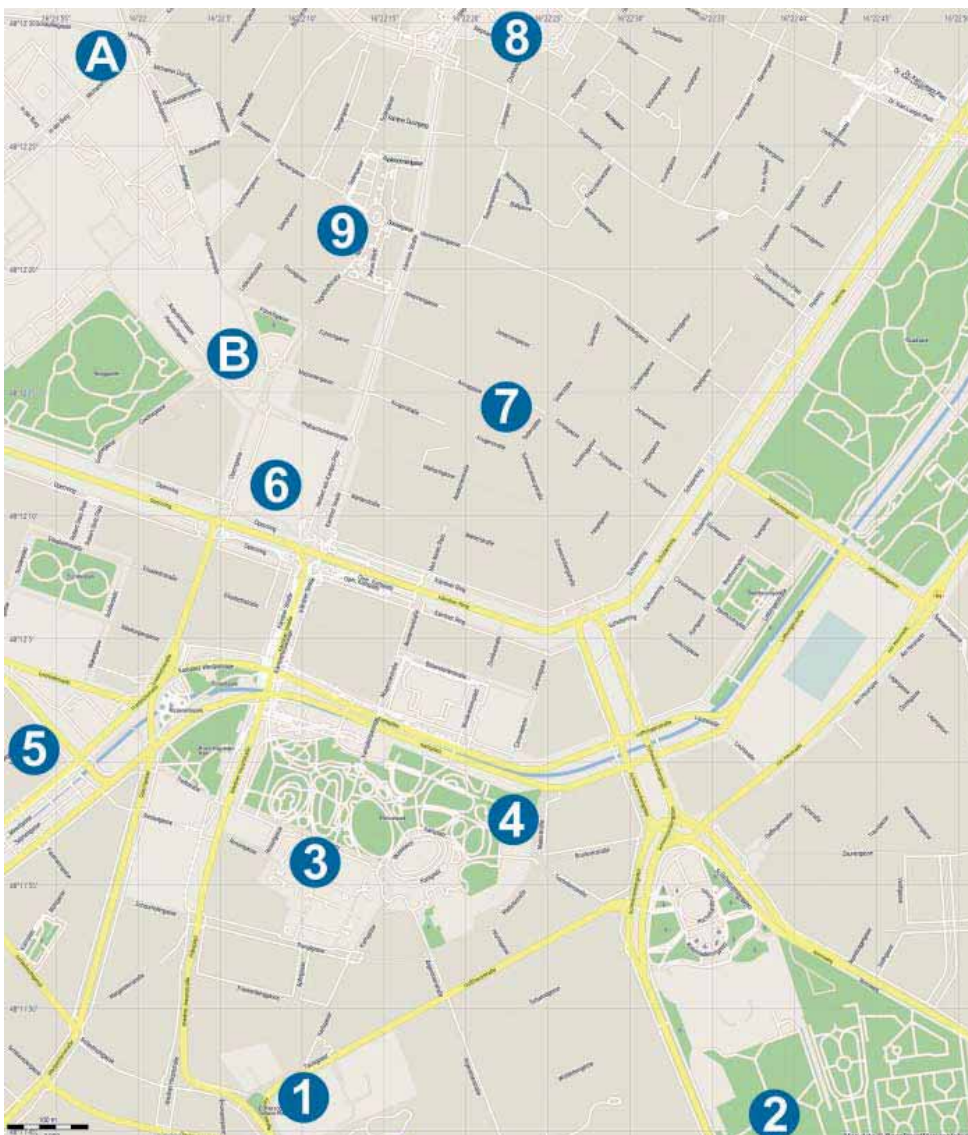


We kindly ask you to take the metro U1 in direction “Leopoldau” and get off at the fourth station “Praterstern”. We suggest to walk along the Hauptallee, since it’s not as crowded there as in the Prater, our Helping Hands will again be available to show you the way.

Again, this is an open end event and we ask you to arrange traveling to your hotel on your own



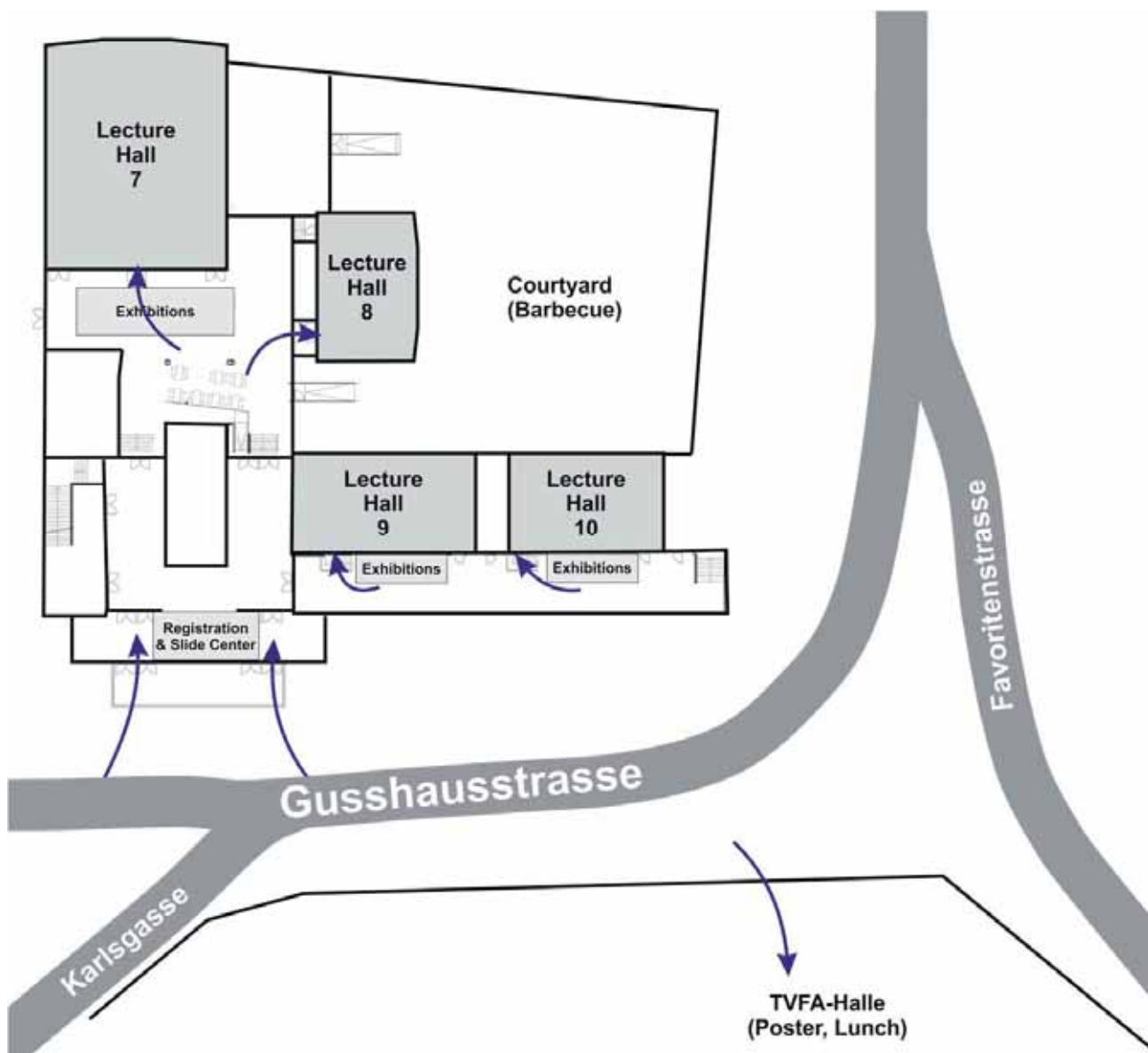
SHORT EXCURSIONS MAP



- 1 Conference Venue
“Neues EI”
- 2 Belvedere
- 3 TU Wien – Main
building
- 4 Wien Museum
- 5 TU Wien –
Chemistry Campus
- 6 State Opera
- 7 Haus der Musik
- 8 St. Stephan’s
Kathedral
- 9 Kapuzinergruft
- A Sissi Museum
- B Albertina

© OpenStreetMap

"NEUES EI" – CAMPUS AREA MAP



TIME SCHEDULE

08:00	Monday September 7	Tuesday September 8	Wednesday September 9	Thursday September 10	Friday September 11	08:00
09:00		PL-2 Ch. Barner-Kowollik	PL-4 C. Hawker	PL-5 D. Haddleton	Parallel Sessions 12	09:00
10:00		Parallel Sessions 3	Parallel Sessions 6	Parallel Sessions 8	Coffee break	10:00
11:00		Coffee break	Coffee break	Coffee break	Parallel Sessions 13	11:00
12:00	Registration	Parallel Sessions 4	Parallel Sessions 7	Parallel Sessions 9	PL-7 S. Hecht	12:00
13:00	Opening	Lunch	Lunch	Lunch	Awards	13:00
14:00	PL-1 K. Matyjaszewski	Short Excursions	Lunch	Parallel Sessions 10	Fare Well	14:00
15:00	Parallel Sessions 1			Coffee break		15:00
16:00	Coffee break	PL-3 C. Boyer	Long Excursion	Parallel Sessions 11		16:00
17:00	Parallel Sessions 2	Parallel Sessions 5		PL-6 Ch. Bowman		17:00
18:00	Transfer Rathaus			Transfer Dinner		18:00
19:00	Welcome Mixer	Poster Session & Barbeque		Conference Dinner		19:00
22:00						22:00

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Monday, September 7

11.30-13.30

Registration



13.30-13.45

Opening



Plenary Session

Chair: Robert Liska

13.45-14.25

PL-1

Krzysztof Matyjaszewski

Carnegie Mellon University, USA

PHOTOCHEMICALLY CONTROLLED ATOM TRANSFER RADICAL
POLYMERIZATION



14.35-16.25

Parallel Sessions 1



16.25-16.55

Coffee break



16.55-18.25

Parallel Sessions 2



18.25-19.15

Transfer Rathaus



19.15-23.45

Welcome Mixer



14.35-15.05

IL-1

Jason Killgore

National Institute of Standards & Technology, USA

BEYOND THE BULK: ADVANCED METHODOLOGIES FOR MAPPING
INTERLAYER AND INTRALAYER GRADIENTS IN PRINTABLE
PHOTOPOLYMERS



15.05-15.25

OP-1

Sara Bergia

Politecnico di Torino, Italy

CONTROLLING MAGNETOTHERMAL BEHAVIOUR VIA NANOPARTICLE ORIENTATION IN DLP-
PRINTED COMPOSITES

15.25-15.45

OP-2

Vojtěch Musil

TU Wien, Austria

ADVANCING POLYETHYLENE FROM COMMODITY TO MULTIFUNCTIONAL PLATFORM IN
LIGHT-BASED ADDITIVE MANUFACTURING

15.45-16.05

OP-3

Terence Ho

Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

VAT PHOTOPOLYMERIZATION OF SEMICRYSTALLINE THERMOPLASTICS VIA
PHOTOINITIATED RING OPENING METATHESIS POLYMERIZATION

16.05-16.25

OP-4

Sebastien Blanquer

Université de Montpellier, France

THERMORESPONSIVE HYDROGELS FOR SHAPE MORPHING IN DLP 4D PRINTING

14.35-15.05

IL-2

Igor Lacík

Polymer Institute of the Slovak Academy of Sciences, Slovakia

PROPAGATION RATE FOR IONIZED MONOMERS STUDIED BY PLP-SEC



15.05-15.25

OP-5

Michael Haas

Graz University of Technology, Austria

WATER SOLUBLE ACYLGERMANES AS NOVEL PHOTOINITIATORS FOR INNOVATIVE
PHOTOTHERAPEUTICS

15.25-15.45

OP-6

Renáta Raptová

Graz University of Technology, Austria

PHOTOCHEMISTRY OF WATER-SOLUBLE GERMANIUM PHOTOINITIATORS

15.45-16.05

OP-7

Yulian Pang

Hubei Gurun Technology Co. LTD, China

TAILOR-MADE PHOTOINITIATORS AS TPO ALTERNATIVES

16.05-16.25

OP-8

Benjamin Nelson

University of Colorado, United States

SULFONIUM-MEDIATED PHOTOPOLYMERIZATION IN 1,2-DITHIOLANES

14.35-15.05

IL-3

Johan Jansen

Covestro (Netherlands) B.V., Netherlands

TEACHING AN OLD DOG NEW TRICKS: A FRESH LOOK AT AN OLD INITIATION SYSTEM



15.05-15.25

OP-9

Thomas Lainer

Graz University of Technology, Austria

PRACTICAL LONG-WAVELENGTH PHOTOINITIATION USING SULFUR-SUBSTITUTED OXIME ESTERS

15.25-15.45

OP-10

Kasidid Yaemsunthorn

Cracow University of Technology, Poland

PHOTOCATALYTIC FREE RADICAL POLYMERIZATION VIA UNCONVENTIONAL RADICAL PATHWAYS OVER TITANIUM DIOXIDE

15.45-16.05

OP-11

Andrzej Świeży

AGH University of Kraków, Poland

NOVEL TYPE I RADICAL PHOTOINITIATORS ACTIVE UNDER VISIBLE LIGHT FOR PHOTOPOLYMERIZATION AND 3D PRINTING APPLICATIONS

16.05-16.25

OP-12

Ana Kočman

National Institute of Chemistry, Slovenia

LIGHT-TRIGGERED SYNTHESIS OF POLYPEPTIDE GELS VIA RING OPENING POLYMERIZATION OF N-CARBOXYANHYDRIDES

14.35-15.05

IL-4

Eva Blasco

Heidelberg University, Germany

FROM MACROMOLECULAR DESIGN TO FUNCTIONAL ARCHITECTURES VIA LIGHT-DRIVEN 3D PRINTING



15.05-15.25

OP-13

Erem Ahmetali

Karlsruhe Institute of Technology, Germany

PHOTODYNAMIC DIBENZAZEPINE CHEMISTRY: A POWERFUL TOOL FOR MULTIFUNCTIONAL POLYMER NETWORKS

15.25-15.45

OP-14

Dyuti Chakraborty

University of Colorado, United States

EXPLOITING THE RETRO MICHAEL CHEMISTRY TOWARDS CONTROLLED ACTIVATION OF LATENT ACRYLATES: ELUCIDATION OF PROTECTION CHEMISTRY AND ROUTE TO DEVELOPMENT OF FUNCTIONAL MATERIALS

15.45-16.05

OP-15

Mathias Wiech

Graz University of Technology, Austria

CAGED ALLYL-ALKOXYAMINES: PROSPECTS OF "SMART" CONTROL OVER RADICAL POLYMERIZATION

16.05-16.25

OP-16

Michael Kringer

Dcubed GmbH, Germany

IN-SPACE MANUFACTURING USING PHOTOPOLYMERS: INSIGHTS ON ENVIRONMENTAL EXPERIMENTS AND APPLICATIONS

16.55-17.25

IL-5

Allan Guymon

University of Iowa, USA

IN SITU AND REAL TIME NMR TO MONITOR BULK
PHOTOPOLYMERIZATION KINETICS



17.25-17.45

OP-17

Quentin Bauerlin

Université de Haute-Alsace, France

SHAPE-MORPHING STRUCTURES ENABLED BY SPATIALLY PROGRAMMED CRYSTALLIZATION
VIA VOLUMETRIC TOMOGRAPHIC 3D PRINTING

17.45-18.05

OP-18

David Lewis

Flinders University, Australia

SELF-HEALING UV CURABLE (AND 3D PRINTABLE) ACRYLATE-BASED IONOMERS

18.05-18.25

OP-19

Yujie Zhang

National Research Council of Canada, Canada

OPTICAL AND GRADIENT INDEX LENS FABRICATION VIA TOMOGRAPHIC VOLUMETRIC
PRINTING

16.55-17.25

IL-6

Chris Kloxin

University of Delaware, USA

AQUEOUS PICAR ATRP FROM DESIGNED PEPTIDE NANOSCAFFOLDS



17.25-17.45

OP-20

Jelena Nikolic

TU Wien, Austria

MOLECULAR DESIGN OF PHOTOINITIATORS FOR TUNABLE PHOTOPOLYMERIZATION
BEHAVIOR

17.45-18.05

OP-21

Kanji Suyama

Osaka Metropolitan University, Japan

MULTIFUNCTIONAL O-ACYLOXIMES IN POLYMERIC SYSTEMS

18.05-18.25

OP-22

Qunying Wang

Niederrhein University of Applied Sciences, Germany

BIS(2-AMINO-5-THIENYL) KETONE AS PHOTSENSITIZER FOR RADICAL POLYMERIZATION
WITH EFFICIENT OXYGEN TOLERANCE

16.55-17.25

IL-7

Zachariah Page

The University of Texas, USA

NEW PHOTOINITIATION MODALITIES FOR VISIBLE-LIGHT ADDITIVE
MANUFACTURING: TYPE I AND TYPE III STRATEGIES



17.25-17.45

OP-23

Alexander Southan

Max Planck Institute for Intelligent Systems, Germany

PHOTOREACTIVE GELATIN FOR INITIATOR-FREE CROSS-LINKING AND SURFACE
PATTERNING

17.45-18.05

OP-24

Ian Teasdale

Johannes Kepler University Linz, Austria

DESIGNING RESORBABLE PHOTOPOLYMERS: PROGRAMMABLE PHOSPHORUS-ENABLED
HYDROLYSIS FOR SURFACE EROSION AND TUNABLE LIFETIMES

18.05-18.25

OP-25

Yuxia Zhao

Chinese Academy of Sciences, China

PHOTOCURABLE POLYLACTIC ACID-BASED MATERIALS WITH ENHANCED ANTIOXIDANT
AND OSTEOGENIC FUNCTIONS

16.55-17.25

IL-8

Caroline Szczepanski

Michigan State University, USA

PHOTOPOLYMERIZATION STRATEGIES FOR UNIQUE AND DYNAMIC
SURFACE WETTABILITY



17.25-17.45

OP-26

Magdalena Jankowska

Cracow University of Technology, Poland

TERPHENYL-SULFUR PHOTOINITIATORS FOR DLP 3D PRINTING OF ZIRCONIA COMPOSITES

17.45-18.05

OP-27

Theresa Ammann

TU Wien, Austria

PHOTOPOLYMERIZATION WITH NON RADICAL POLYMERIZATIONS

18.05-18.25

OP-28

Tom Williamson

University of Cambridge, UK

OPTICAL STRUCTURE-PROPERTY RELATIONSHIPS IN PHOTOPOLYMER WAVEGUIDE FILMS

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[1] Based on in-vitro data



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Tuesday, September 8

Plenary Session

Chair: johan Jansen

08.30-09.10

PL-2

Christopher Barner-Kowollik

Karlsruhe Institute of Technology, Germany

WAVELENGTH-RESOLVED PHOTOCHEMICAL REACTIVITY IN
MACROMOLECULAR SYNTHESIS AND LIGHT-DRIVEN ADDITIVE
MANUFACTURING



09.20-10.30

Parallel Sessions 3



10.30-11.00

Coffee break



11.00-12.10

Parallel Sessions 4



12.10-13.20

Lunch



13.20-15.40

Short Excursions



Plenary Session

Chair: Markus Kury

16.00-16.40

PL-3

Cyrille Boyer

University of New South Wales, Australia

PIANO: DECOUPLING SELF-ASSEMBLY FROM NETWORK FORMATION FOR
LONG-RANGE ORDERED, RECYCLABLE 3D-PRINTED NANOSTRUCTURES



16.50-18.30

Parallel Sessions 5



18.30-23.00

Poster Session and Barbeque



09.20-09.50

IL-9

Arnaud Spangenberg

University of Haute Alsace, France

LEVERAGING CHEMISTRY-PROCESS INTERPLAY IN LIGHT-BASED
ADDITIVE MANUFACTURING



09.50-10.10

OP-29

Kai Rist

Ivoclar Vivadent AG, Liechtenstein

NANO-CORE-SHELL PARTICLES AND SILICON-FREE BLOCK COPOLYMERS AS TOUGHENERS
FOR LOW-CROSSLINK METHACRYLATE NETWORKS

10.10-10.30

OP-30

Lauren Geurds

Ivoclar Vivadent AG, Liechtenstein

FILLER-DRIVEN HIGH IMPACT 3D PRINTED DENTAL MATERIALS

09.20-09.50

IL-10

Didier Gignes

Aix-Marseille Université, France

[2,2]-PARACYCLOPHANE DERIVATIVES FOR SUSTAINABLE THIOL-ENE
CHEMISTRY AND PHOTOPOLYMERIZATION



09.50-10.10

OP-31

Gavin Irvine

University of Bath, UK

HIGHLY ENTANGLED HYDROGELS BY PHOTONIFERTER-MEDIATED POLYMERIZATION

10.10-10.30

OP-32

Katarzyna Starzak

Cracow University of Technology, Poland

GREEN CHEMISTRY IN ADDITIVE MANUFACTURING - SYNTHESIS AND SPECTROSCOPIC
INVESTIGATION OF NATURAL-ORIGIN PHOTOINITIATING SYSTEMS BASED ON CITRIC ACID
DERIVATIVES

Photoinitiation
Chair: Michel Rosso

HS9

09.20-09.50

IL-11

Jacques Lalevée

Université de Haute-Alsace, France

NEW PHOTOINITIATING SYSTEMS FOR HIGH PERFORMANCE MATERIALS
(THE CHALLENGE OF SHADOW AREAS)



09.50-10.10

OP-33

Julie Peterson

Bowling Green State University, USA

DEVELOPING LIGHT-RESPONSIVE MOLECULES FOR POLYMERIC SYSTEMS

10.10-10.30

OP-34

Darsan Haridas

Monash University, Australia

IRON CATALYSED PHOTO-DECARBOXYLATIVE ATRP FOR NANOCELLULOSE
FUNCTIONALISATION

Photoprinting
Chair: Alessandra Vitale

HS10

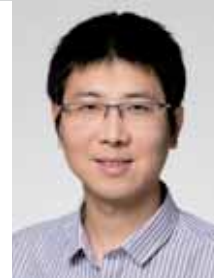
09.20-09.50

IL-12

Yinyin Bao

University of Helsinki, Finland

PHOTOLITHOGRAPHY OF ELECTROLUMINESCENT POLYMERS



09.50-10.10

OP-35

Keynaz Kamranikia

Université de Haute-Alsace, France

4D MICROPRINTING OF PROGRAMMABLE LIQUID CRYSTAL ACTUATORS

10.10-10.30

OP-36

Yizheng Liu

University of Freiburg, Germany

LIGHT-INDUCED BISTABLE POLYMER LATCHING SYSTEM FOR BIDIRECTIONAL ACTUATORS

11.00-11.30

IL-13

Markus Kury

Cubicure GmbH, Austria

FROM VISION TO VOLUME – DIGITAL MANUFACTURING WITH HOT LITHOGRAPHY



11.30-11.50

OP-37

Sergey Nechausov

Helmholtz-Institute for Polymers in Energy Applications Jena (HIPOLE), Germany

VAT PHOTOPOLYMERIZATION OF WATER-IN-SALT HYDROGELS FOR ZINC-ORGANIC BATTERIES

11.50-12.10

OP-38

Federica Sbordone

Karlsruhe Institute of Technology, Germany

WAVELENGTH-DEPENDENT 3D PRINTING: INTRODUCING 3D PRINTED ACTION PLOTS

11.00-11.30

IL-14

Michel Rosso

AkzoNobel, The Netherlands

DURABILITY OF INDUSTRIAL RADIATION-CURED COATINGS: LINKING CURE KINETICS AND NETWORK ARCHITECTURE TO OUTDOOR WEATHERING PERFORMANCE



11.30-11.50

OP-39

Surbhi Punhani-Schillinger

Michigan State University, USA

UV LIGHT INDUCED CROSS-LINKING IN PEG BASED GELS TO INFLUENCE MECHANICS AND SWELLING DRIVEN TOPOGRAPHY

11.50-12.10

OP-40

Vehibe Nazli Can Cicek

University of Mons, Belgium

STEERING THE PHOTOCHEMICAL REACTIVITY OF CO₂-DERIVED 2-PYRONES USING MONOCHROMATIC LED IRRADIATION

11.00-11.30

IL-15

Veronika Strehmel

Niederrhein University of Applied Sciences, Germany

PHOTOINITIATED POLYMERIZATION OF BIO-BASED MONOMERS AND
PROPERTIES OF THE PHOTOPOLYMERS



11.30-11.50

OP-41

Nikolaos Konios

Slovak Academy of Sciences, Slovak Republic

PREPARATION OF MULTIFUNCTIONAL POLYMER BRUSHES THROUGH SURFACE-INITIATED
PHOTO-INDUCED ATOM TRANSFER RADICAL POLYMERIZATION

11.50-12.10

OP-42

Sergei Kostjuk

Sorbonne Université, France

PHOTOINIFERTER RAFT POLYMERIZATION VIA ELECTRON DONOR-ACCEPTOR COMPLEX
ACTIVATION FOR FUNCTIONAL POLYMER SYNTHESIS

11.00-11.30

IL-16

Vanessa Maurin

Perstorp AB, Sweden

HOW TO REFORMULATE CATIONIC CURABLE SYSTEMS TO ADDRESS
INDUSTRY CHALLENGES?



11.30-11.50

OP-43

Friedrich Stricker

Harvard University, USA

MULTISTATE LIQUID CRYSTAL ELASTOMERS AS CONTEXT-DEPENDENT ACTUATORS FROM
NON-ORTHOGONAL STIMULI

11.50-12.10

OP-44

Haoqiang Gao

Chinese Academy of Sciences, China

THREE-STAGE ORTHOGONAL THIOL-CLICK STRATEGY FOR HIGH-PERFORMANCE
HOLOGRAPHIC RECORDING WITH AMPLIFIED REFRACTIVE INDEX MODULATION

16.50-17.20

IL-17

Céline Croutxé-Barghorn

Université de Haute-Alsace, France

IMPROVING SPATIOTEMPORAL RESOLUTION IN 3D PRINTING THROUGH
CONTROLLED POLYMERIZATION OF ACRYLATES AND EPOXIDES



17.20-17.40

OP-45

Yves-Maël Le Gal La Salle

Université de Haute-Alsace, France

PHOTOCHEMICAL CONSTRAINTS IN TOMOGRAPHIC VOLUMETRIC 3D PRINTING:
FUNDAMENTALS LIMITS AND PRACTICAL IMPLICATION

17.40-18.00

OP-46

Laurent Rubatat

Université de Pau et des pays de l'Adour, France

INSIGHTS INTO THE PHOTOPOLYMERISATION DYNAMICS AT 3D PRINTER VOXEL
RESOLUTION

18.00-18.30

IL-21

Yohann Catel

Ivoclar Vivadent AG, Liechtenstein

NEW TECHNOLOGIES FOR THE DEVELOPMENT OF INNOVATIVE 3D
PRINTING DENTAL MATERIALS



Biomaterials

Chair: Caroline Szczepanski

HS8

16.50-17.20

IL-18

Stefan Baudis

*Christian Doppler Laboratory for Advanced Polymers for Biomaterials
and 3D Printing, Austria*

DYNAMIC, PHOTOTUNABLE HYDROGELS FOR PRECISION
BIOFABRICATION: BALANCING CROSS-LINKING CHEMISTRY, NETWORK
STABILITY, AND PATTERNABILITY



17.20-17.40

OP-47

Francesco Schimmenti

Politecnico di Torino, Italy

GRAY SCALE BIOXOLOGY FOR ORIENTATION OF SKELETAL MUSCLE TISSUE MODEL

17.40-18.00

OP-48

María Regato Herbella

Heidelberg University, Germany

pH AND LIGHT RESPONSIVE HYDROGELS FOR BIOMEDICAL APPLICATIONS

18.00-18.30

IL-22

Alessandra Vitale

Politecnico di Torino, Italy

LIGHT-DRIVEN STRATEGIES FOR FUNCTIONAL ELECTROSPUN
NANOFIBROUS MATERIALS IN WOUND HEALING



Radical Polymerization
Chair: Chen Wang

HS9

16.50-17.20
IL-19 **Jürgen Stampfl**
TU Wien, Austria
HETEROGENEOUS PHOTOPOLYMERS FOR ADDITIVE MANUFACTURING



17.20-17.40
OP-49 **Emeline Lochmaier**
University of Colorado, United States
UNLOCKING ALLYL ETHER POLYMERIZATIONS WITH DITHIOLANES

17.40-18.00
OP-50 **Selina Diendorfer**
TU Wien, Austria
CHAIN TRANSFER AGENTS IN RADICAL PHOTOPOLYMERIZATION

18.00-18.30
IL-23 **Marika Morone**
Université de Haute-Alsace, France
NOVEL LOW YELLOWING SENSITIZERS FOR ACYL PHOSPHINE OXIDES



Applied Photopolymers
Chair: Zhiqun Li

HS10

16.50-17.20
IL-20 **Mats Johansson**
KTH Royal Institute of Technology, Sweden
EPOXIDIZED FATTY ACIDS IN COATING APPLICATIONS



17.20-17.40
OP-51 **Piotr Wieczorek**
Jagiellonian University, Poland
FROM FLUORESCENT POLYMER BRUSHES TO PHOTOACTIVE LAYERS WITH EMBEDDED QUANTUM DOTS: IN SITU ROUTES TO MULTILAYER FUNCTIONAL SYSTEMS

17.40-18.00
OP-52 **Mikhail Filatov**
Technological University Dublin, Ireland
BODIPY PHOTSENSITIZERS WITH TUNABLE INTERSYSTEM CROSSING FOR PHOTOPOLYMERIZATION AND HOLOGRAPHIC RECORDING

18.00-18.30
IL-24 **Alan Aguirre-Soto**
Tecnologico de Monterrey, Mexico
APPLICATION AND AI-GUIDED FORMULATION OF PHOTOPOLYMERIZABLE COATINGS FOR 3D-PRINTED OBJECTS





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Wednesday, September 9

Plenary Session Chair: Alessandra Vitale

08.30-09.10 **Craig Hawker**
PL-4 *University of California, USA*
NOVEL BUILDING BLOCKS FOR PHOTOPOLYMERIZATIONS



09.20-11.10

Parallel Sessions 6



11.10-11.40

Coffee break



11.40-13.10

Parallel Sessions 7



13.10-14.40

Lunch



14.40-18.40

Long Excursion



3D Printing and Microstructure
Chair: Arnaud Spangenberg

HS7

09.20-09.50

IL-25

Helena Švajdlenková

Slovak Academy of Sciences, Slovak Republic

MICROSTRUCTURE OF EPOXIDES CURED BY FRONTAL POLYMERIZATION



09.50-10.10

OP-53

Thomas A. Klar

Johannes Kepler University Linz, Austria

SUB-DIFFRACTIONAL OPTICAL LITHOGRAPHY BEYOND (METH)ACRYLATES

10.10-10.30

OP-54

Buse Unlu

Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

MULTISCALE 3D PRINTER COMBINING SINGLE-PHOTON TVAM AND TWO-PHOTON POLYMERIZATION

10.30-10.50

OP-55

Aslan Miriyev

Ben-Gurion University of the Negev, Israel

3D-PRINTABLE IONIC PHOTOPOLYMER COMPOSITES FOR PHYSICAL AI (PAI)

10.50-11.10

OP-56

Loredana Völker-Pop

Anton Paar Germany GmbH, Germany

ADVANCED RHEOMETRY APPROACHES FOR IN SITU INVESTIGATION OF UV-INDUCED PHOTOPOLYMERIZATION KINETICS AND VISCOELASTIC EVOLUTION



Esperanto Session
Chair: Christopher Kloxin

HS8

09.20-09.50

IL-26

Stephanie Bryant

University of Colorado Boulder, USA

BIOMIMETIC AND DEGRADABLE PHOTOPOLYMER COMPOSITES



09.50-10.10

OP-57

Julien Pinaud

Université de Montpellier, France

FAST CURING OF A BIOBASED POLYHYDROXYURETHANE THERMOSET USING NEAR INFRARED PHOTOTHERMAL EFFECT

10.10-10.30

OP-58

Anthony Hoogmartens

Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

CHEMICAL RECYCLING OF PHOTOCURED GLASS-FIBER REINFORCED COMPOSITES BASED ON TRANSESTERIFICATION

10.30-10.50

OP-59

John Vincent Tumaneng

Politecnico di Torino, Italy

NAVIGATING REVERSIBLE PHOTOPOLYMERIZATION IN BIOBASED SYSTEMS

10.50-11.10

OP-60

Szymon Gaca

Polymer Competence Center Leoben GmbH PCCL, Austria

THERMOSET MEETS THERMOPLASTIC: UPCYCLING PLA IN DIGITAL LIGHT PROCESSING 3D PRINTING OF DYNAMIC THIOL-ENE COMPOSITES

09.20-09.50

IL-27

Adelina Braun

Merck KGaA, Germany

TissueFab® SYNTHETIC DLP BIOINKS: A CELL-SUPPORTIVE
PHOTOPOLYMER PLATFORM FOR HIGH-RESOLUTION BIOFABRICATION



09.50-10.10

OP-61

Yung-Chung Chen

National Kaohsiung University of Science and Technology, Taiwan

MERGING TYPE I AND TYPE II PATHWAYS: HYBRID BENZOPHENONE-TRIPHENYLAMINE
OXIME ESTERS FOR VISIBLE-LIGHT-INDUCED FREE RADICAL POLYMERIZATION

10.10-10.30

OP-62

Xiaotong Peng

Chinese Academy of Sciences, P. R. China

DUAL-FUNCTION PHOTOINITIATOR-METAL ORGANIC FRAMEWORKS AS A MODULAR
PLATFORM FOR TUNEABLE COMPOSITES

10.30-10.50

OP-63

Jun Shen

Chinese Academy of Sciences, P. R. China

LEVERAGING NAPHTHALIMIDE DERIVATIVES AND GRAPHITIC CARBON NITRIDE FOR MULTI-
WAVELENGTH VISIBLE LIGHT PHOTOPOLYMERIZATION

10.50-11.10

OP-64

Huseyin Cem Kiliclar

Istanbul Technical University, Turkey

NOVEL NON-HYDROLYZABLE POLYMER CHAIN-SCISSION STRATEGIES MEDIATED BY
HETEROGENEOUS PHASE PHOTOCATALYSTS

Advanced Materials and Applications

Chair: Alán Aguirre-Soto

HS10

09.20-09.50

IL-28

Wolfgang Paulus

BASF SE, Germany

REVERSIBLE CROSSLINKING OF ACRYLATE-BASED POLYMERIC
PROTECTIVE COATINGS FOR A CYCLIC ECONOMY



09.50-10.10

OP-65

Saeed Beigi-Boroujeni

School of Engineering and Sciences, Monterrey

CO₂-BASED MULTIFUNCTIONAL HYDROXYURETHANE MONOMERS FOR ADVANCED
PHOTOPOLYMER NETWORKS

10.10-10.30

OP-66

Yohann Guillaneuf

Aix-Marseille Université, France

ON-DEMAND DECONSTRUCTABLE THERMOSETS THROUGH CLEAVABLE COMONOMER AND
THERMOLATENT BASE SYNERGY

10.30-10.50

OP-67

Marine Möbius

Normandie Université, France

TUNABLE SEMI-AROMATIC POLYESTERS FOR PHOTOCROSSLINKABLE AND
PHOTORECYCLABLE THERMOSET COATINGS

10.50-11.10

OP-68

Bhavika Bhatia

Shiv Nadar Institution of Eminence, India

ENERGY-EFFICIENT AND SCALABLE POLYBENZOXAZINE PARTICLES FOR PHOTOCATALYTIC
HYDROGEN PEROXIDE GENERATION

11.40-12.10

IL-29

Chen Wang

University of Utah, United States

NOVEL MATERIALS FOR PHOTOPOLYMERIZATION BY PHASE-CHANGING RESINS



12.10-12.30

OP-69

Friederike Strahl

University of Freiburg, Germany

MAGNETIC MICROACTUATORS BY TWO-PHOTON LITHOGRAPHY

12.30-12.50

OP-70

Xiangyang Liu

National Research Council of Canada, Canada

VOLUMETRIC ADDITIVE MANUFACTURING OF THERMO-RESPONSIVE LIQUID CRYSTAL ELASTOMERS FOR 4D PRINTING OF LCE ACTUATORS

12.50-13.10

OP-71

Maksims Jurinovs

Riga Technical University, Latvia

PLANT-DERIVED ACRYLATES AS A VERSATILE PLATFORM FOR 3D PRINTED SOFT-ROBOTS, ENERGY HARVESTERS, AND SENSORS



11.40-12.10

IL-30

Xavier Allonas

Université de Haute-Alsace, France

PHOTOREACTIVITY OF OXIME ESTERS AS RADICAL PHOTOINITIATORS: INSIGHTS INTO THEIR PHOTOCHEMICAL BEHAVIOUR



12.10-12.30

OP-72

Necmettin Samet Dalga

Université de Haute-Alsace, France

A NEW COMMERCIALY AVAILABLE KETOCOUMARIN AS A TYPE II PHOTOINITIATOR AND SENSITIZER FOR LED PHOTOPOLYMERIZATION AND PHOTOBASE GENERATOR SYSTEMS

12.30-12.50

OP-73

Zizheng Zhang

Montanuniversität Leoben, Austria

GERMANIUM-PHOTOINITIATOR FUNCTIONALIZED SILICA NANOPARTICLES FOR HIGH-PERFORMANCE UV-CURABLE POLYESTER COATINGS

12.50-13.10

OP-74

Talha Mumtaz

Yıldız Technical University, Türkiye

SUSTAINABLE POLYMER NETWORK FORMATION FROM SOYBEAN OIL USING DI-THIOXANTHONE DISULFIDE AS A PHOTOINITIATOR IN THIOL-ENE CHEMISTRY

11.40-12.10

IL-31

Tanja Bizjak-Bayer

Excelitas Deutschland GmbH, Germany

PAC - PHYSICS AND CHEMISTRY - PERFECT MATCH FOR OPTIMIZED
PHOTOPOLYMERIZATION



12.10-12.30

OP-75

Björn Schneider

TU Wien, Austria

OXA-MICHAEL POLYADDITION USING PHOSPHINE-BASED PHOTOBASE GENERATORS FOR
ADDITIVE MANUFACTURING

12.30-12.50

OP-76

Thomas Schmidt

TU Wien, Austria

TWO PHOTONS, ONE STRUCTURE: INNOVATION IN PHOTOINITIATORS FOR
BIOFABRICATION

12.50-13.10

OP-77

Filip Petko

Cracow University of Technology, Poland

IODONIUM SALTS EQUIPPED WITH EASILY MODIFIABLE CHROMOPHORES AS ONE-
COMPONENT PHOTOINITIATORS ABSORBING IN VISIBLE LIGHT

11.40-12.10

IL-32

Bernd Strehmel

Niederrhein University of Applied Sciences, Germany

CHALLENGES TO DESIGN MODERN ROBUST LIGHT-MEDIATED RADICAL
PHOTOPOLYMERIZATION SYSTEMS



12.10-12.30

OP-78

Kamil Pulit

Cracow University of Technology, Poland

NEW IODONIUM SALT PHOTOINITIATORS FOR ANTIBACTERIAL RESINS IN PHOTOCURABLE
3D PRINTING APPLICATIONS

12.30-12.50

OP-79

Davy Louis Versace

University Paris-Est Créteil, France

PHOTOCHEMISTRY: TOWARDS THE SYNTHESIS OF NEW INNOVATIVE AND ANTIBACTERIAL
BIOBASED MATERIALS

12.50-13.10

OP-80

Haruyuki Okamura

Osaka Metropolitan University, Japan

DUAL STIMULI-SENSITIVE POLYMERS WHICH GENERATE BUBBLES - TOWARD REDUCING
ENVIRONMENTAL IMPACT



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Thursday, September 10

Plenary Session Chair: Jürgen Stampfl

08.30-09.10 **David Haddleton**
PL-5 *University of Warwick, UK*
PHOTOPOLYMERISATION IN FLOW WITH REAL TIME MONITORING BY
ONLINE GPC AND NMR



09.20-10.50

Parallel Sessions 8



10.50-11.20

Coffee break



11.20-12.50

Parallel Sessions 9



12.50-14.00

Lunch



14.00-15.30

Parallel Sessions 10



15.30-16.00

Coffee break



16.00-17.30

Parallel Sessions 11



Plenary Session Chair: Aleksandr Ovsianikov

17.40-18.20 **Christopher Bowman**
PL-6 *University of Colorado, United States*
THE INTERSECTION OF THE BEER-LAMBERT LAW WITH ACTION PLOT
ANALYSIS



18.20-19.00

Transfer Dinner



19.00-22.00

Conference Dinner



09.20-09.50

IL-33

Joanna Ortyl

Cracow University of Technology, Poland

NEW CATIONIC AND RADICAL PHOTOINITIATORS: EXPLORING INNOVATIONS FOR MULTI-MATERIAL 3D PRINTING THROUGH WAVELENGTH-RESOLVED ACTION PLOTS IN LIGHT-DRIVEN ADDITIVE MANUFACTURING



09.50-10.10

OP-81

Thomas Lacelle

National Research Council of Canada, Canada

LEVERAGING GRAFT PHOTOPOLYMERIZATION FOR THE CONFORMAL PRINTING OF CONDUCTIVE SURFACE FEATURES UNDER FULLY AEROBIC CONDITIONS

10.10-10.30

OP-82

Tatiana Tozar

National Institute for Laser, and Radiation Physics

REAL-TIME MONITORED PHOTOPOLYMERIZATION OF MOTEXAFIN LUTETIUM LOADED POLYMERIC HYDROGELS FOR TARGETED PHOTODYNAMIC THERAPY

10.30-10.50

OP-83

Viviane Chiaradia

RCSI University of Medicine and Health Sciences, Ireland

DESIGN OF BIO-BASED PHOTORESINS FOR SUSTAINABLE ADDITIVE MANUFACTURING



09.20-09.50

IL-34

Kai Licha

FEW Chemicals GmbH, Germany

A VERSATILE PHOTOPOLYMERISATION TOOLBOX



09.50-10.10

OP-84

Saverio Aliberti

Yıldız Technical University, Türkiye

HOST-GUEST COMPLEXATION OF LYOPHILIC PHOTOINITIATOR AND DIACRYLATE CROSSLINKER WITH β -CYCLODEXTRIN DERIVATIVES FOR PHOTOCURING OF WATERBORNE NANOCOMPOSITE ADHESIVES

10.10-10.30

OP-85

Michele Bonacina

Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

SUPERHYDROPHOBIC COATING BY PHOTOPOLYMERIZATION INDUCED PHASE SEPARATION

10.30-10.50

OP-86

Talha Genc

Technical University of Leoben, Austria

CAN BACTERIA BE TRANSFORMED INTO PHOTOPOLYMERS? DEXTRAN-MALEIMIDE PLATFORMS ENABLING PHOTOINITIATOR-FREE PHOTOPOLYMERIZATION FOR BIOMEDICAL APPLICATIONS

09.20-09.50

IL-35

Yingquan Zou

Hubei Gurun Technology Co. LTD, China

THE DEVELOPMENT OF CHINA'S BIO-BASED PHOTOCURABLE MATERIALS AND THE STRATEGY OF GURUN TECHNOLOGY



09.50-10.10

OP-87

Annette Andrieu-Brunsen

Technische Universität Darmstadt, Germany

SURFACE-PLASMON INDUCED POLYMER GRAFTING IN NANOPORES

10.10-10.30

OP-88

Jan Michael Zoppelt

Technische Universität Darmstadt, Germany

PHOTOCONTROLLED DEGRAFTING OF POLYMERS FROM MESOPOROUS SILICA MEMBRANES

09.20-09.50

IL-36

Zhiquan Li

Guangdong University of Technology, China

NEAR-INFRARED PHOTOGENERATION OF ACID AND BASE CATALYSTS FOR VITRIMER TRANSESTERIFICATION WITH MULTI-WAVELENGTH SELECTIVITY



09.50-10.10

OP-90

Ans Al Rashid

Hamad Bin Khalifa University, Qatar

PALM TREE LIGNOCELLULOSIC FIBER-REINFORCED PHOTOCURABLE RESIN COMPOSITES FOR VAT PHOTOPOLYMERIZATION 3D PRINTING

10.10-10.30

OP-91

Sara Dalle Vacche

Politecnico, Torino

CROSSLINKING OF BIOBASED COMPOSITE FILMS BY PHOTOCYCLOADDITION AND IMPACT ON GAS PERMEABILITY

10.30-10.50

OP-92

Myong Joon Oh

Cracow University of Technology, Poland

THE EFFECTIVENESS OF SILATRANE COUPLING AGENTS IN THE PREPARATION OF PHOTOPOLYMERIZABLE COMPOSITES

11.20-11.50

IL-37

Dennis Barther

Kulzer GmbH, Germany

TUNING LIGHT-CURABLE DENTAL FORMULATIONS FOR ROBUST 3D PRINTING



11.50-12.10

OP-93

Gianluca Bartolini Torres

Royal College of Surgeon in Ireland (RCSI), Ireland

POLYESTER-ITACONIC ACID RESINS FOR LIGHT-BASED ADDITIVE MANUFACTURING

12.10-12.30

OP-94

Andreas Heise

RCSI University of Medicine and Health Sciences, Ireland

PHOTO-POLYMERISATION AND 3D PRINTING OF AMINO ACIDS AND POLYPEPTIDES

12.30-12.50

OP-95

Tobias Robert

Wilhelm-Klauditz-Institut, Germany

ITACONIC ACID AS VERSATILE BUILDING BLOCK FOR UV-CURING APPLICATIONS



11.20-11.50

IL-38

Maj Grit Meleschko

BCH,

BEYOND ESTABLISHED PHOTOINITIATORS: REACTIVITY AND APPLICATION OF EMERGING ACYL PHOSPHINE OXIDES



11.50-12.10

OP-96

Huseyin Mirac Dizman

Politecnico di Torino, Italy

PHOTOINDUCED FRONTAL POLYMERIZATION OF ACRYLATES FOR SUSTAINABLE COMPOSITES: FILLER EFFECTS AND APPLICATIONS IN WOOD REPAIR

12.10-12.30

OP-97

Thi Nhung Vu

Politecnico di Torino, Italy

SUSTAINABLE ELECTROSPINNING AND THIOL-ENE PHOTOFUNCTIONALIZATION OF NANOFIBROUS MEMBRANE FOR ADVANCED WATER REMEDIATION

11.20-11.50

IL-39

Kurt Dietliker

SCD Dr. Sommerlade Chemistry Design GmbH, Germany
NEITHER RADICAL NOR ACIDIC: BASIC OPPORTUNITIES



11.50-12.10

OP-99

Maximilian Kepkow

Niederrhein University of Applied Sciences, Germany
PHOTO-INITIATED POLYMERIZATION OF EPOXY AND METHACRYLATE MONOMERS DERIVED FROM COTTON SEED OIL AND THEIR COPOLYMERIZATION USING AROMATIC MONOMERS

12.10-12.30

OP-100

Dumitru Moraru

Politecnico di Torino, Italy
SYNTHESIS AND RADICAL PHOTOPOLYMERIZATION OF BIOBASED ISOSORBIDE-DERIVED ALKYNE CARBONATES FOR ADDITIVE MANUFACTURING

12.30-12.50

OP-101

Christian Pester

University of Delaware, USA
POLYMER BRUSH-BASED HETEROGENEOUS PHOTOCATALYSIS

11.20-11.50

IL-40

Aleksandr Ovsianikov

TU Wien, Austria
MULTISCALE LASER-BASED 3D PRINTING AND BIOPRINTING:
RESOLUTION, THROUGHPUT, AND INDUSTRIALIZATION



11.50-12.10

OP-102

Sergejs Gaidukovs

Riga Technical University, Latvia
FRONTAL PHOTOPOLYMERISATION OF BIO-BASED FLAX FIBRE COMPOSITES

12.10-12.30

OP-103

Eleonore Stier

University of Freiburg, Germany
LIGHT ADJUSTABLE PRESSURE SENSITIVE ADHESIVES FOR ADAPTIVE INTERFACES

12.30-12.50

OP-104

Maksim Stupko

Polymer Competence Center Leoben GmbH PCCL, Austria
DATA-DRIVEN OPTIMISATION OF PHOTOCURABLE GRAYSCALE RESINS FOR FUNCTIONALLY GRADED MATERIALS

14.00-14.30

IL-41

Pu Xiao

Chinese Academy of Sciences, P. R. China

GREEN BIOMATERIALS WITH SYNERGISTIC DYNAMIC COVALENT AND
PHOTOCROSSLINKED ARCHITECTURES FOR TISSUE REPAIR



14.30-14.50

OP-105

Giovanna Colucci

Politecnico di Torino, Italy

3D-PRINTING VIA VAT PHOTOPOLYMERIZATION OF BIO-BASED COMPOSITES FILLED WITH
POPLAR POWDERS FOR INTERIOR DESIGN

14.50-15.10

OP-106

Ramin Montazeri

University of Freiburg, Germany

LIGHT-INDUCED 3D PRINTING OF BIO-BASED RESINS FOR SUSTAINABLE MANUFACTURING

15.10-15.30

OP-107

Matilde Porcarello

Politecnico di Torino, Italy

DESIGN OF BiSI-FUNCTIONALIZED BIOBASED PHOTOCURABLE RESINS FOR
PHOTOCATALYTIC 3D PRINTING

14.00-14.30

IL-42

Jieping Wang

Nanjing University of Science and Technology, China

N-ALKYLATED POLYDITHIOCARBAMATES AS MACRO-PHOTOINITIATORS
FOR LIVING 3D PRINTING



14.30-14.50

OP-108

Jacob Borchard

Queensland University of Technology (QUT), Australia

DYNAMIC PHOTOCHEMICALLY SWITCHABLE MONOMERS FOR 3D PRINTING

14.50-15.10

OP-109

Elena Moukhina

NETZSCH-Gerätebau GmbH, Germany

FROM UV-CURE KINETICS TO THERMAL SIMULATION IN ADDITIVE MANUFACTURING:
OPTIMIZING OF ACRYLATE PHOTOPOLYMER PROCESSING USING DIELECTRIC ANALYSIS
AND PREDICTIVE MODELING

15.10-15.30

OP-110

Roman Korotkov

Polymer Competence Center Leoben GmbH PCCL, Austria

FROM DUAL VAT TO GRAYSCALE - MULTI-MATERIAL 3D PRINTING OF THIOL-THIOESTER
CANS

Initiation and Polymerization Mechanism
Chair: Zhiquan Li

HS9

14.00-14.30

IL-43

Sebastien Villeneuve

AkzoNobel, Switzerland

FROM LABORATORY TO LINE: TECHNICAL CHALLENGES IN
ENERGY-CURING FOR COIL COATING



14.30-14.50

OP-111

Atsushi Kajiwara

Nara University of Education, Japan

TIME-RESOLVED ESR OBSERVATION OF RADICALS IN RADICAL POLYMERIZATIONS
INITIATED BY LASER PULSES

14.50-15.10

OP-112

Ji Su Kim

Queensland University of Technology (QUT), Australia

UNDERSTANDING WAVELENGTH-DEPENDENT PHOTOPOLYMERIZATIONS VIA NANOSECOND
RESOLVED TRANSIENT SPECTROSCOPY

15.10-15.30

OP-113

Mateusz Urbańczyk

Polish Academy of Science, Poland

TIME-RESOLVED DIFFUSION NMR – A TOOL FOR PHOTOPOLYMERIZATION AND
DEPOLYMERIZATION STUDIES

Advanced Materials and Applications
Chair: Jacques Lalevee

HS10

14.00-14.30

IL-44

Andreas Moeck

RadLab AG, Switzerland

FORMULATING WITH HIGH BRC OLIGOMERS



14.30-14.50

OP-114

David Reisinger

Polymer Competence Center Leoben GmbH PCCL, Austria

LIGHT-DRIVEN SPATIOTEMPORAL CONTROL OF DYNAMIC POLYMER NETWORKS

14.50-15.10

OP-115

Mohamad Zahedtalaban

University of Bayreuth, Germany

APPLICATION OF UV-TRIGGERED THIOL-ENE “CLICK” CHEMISTRY FOR THE RESOURCE-
EFFICIENT CURING OF POLYSILAZANE COATINGS

15.10-15.30

OP-116

Archana Sumohan Pillai

West Pomeranian University of Technology, Poland

PHOTOCROSSLINKING KINETICS OF UV-CURABLE METHACRYLATED TELECHELIC POLYMERS
WITH α -CYCLODEXTRIN INCLUSION COMPLEXES

16.00-16.30

IL-45

Patrice Roose

allnex Belgium SA/NV, Belgium

SURFACE MAPPING OF EXCIMER-CURED COATINGS TOWARD GLOSS CONTROL



16.30-16.50

OP-117

Hannes Houck

University of Warwick, UK

TURNING CONVENTIONAL PHOTODIMERS INTO INTRINSICALLY RECYCLABLE PHOTOPOLYMER NETWORKS

16.50-17.10

OP-118

Elisabeth Rossegger

Polymer Competence Center Leoben GmbH PCCL, Austria

RETHINKING PHOTOPOLYMER DESIGN TOWARDS SUSTAINABLE 3D PRINTING

17.10-17.30

OP-119

Bin Wang

ETH Zürich, Switzerland

VITAMIN C-INDUCED PHOTO-REDOX THRESHOLD ENABLES HIGH-FIDELITY VOLUMETRIC PRINTING OF PRISTINE COLLAGEN

16.00-16.30

IL-46

Jessica Sohl

Lithoz GmbH, Austria

CERAMICS-BASED MULTI-MATERIAL VAT PHOTOPOLYMERIZATION



16.30-16.50

OP-120

Benjamin Regen-Pregizer

xolo GmbH, Germany

FROM OPTICAL ELEMENTS TO LIVING MATTER: XOLOGRAPHY AS A PLATFORM FOR VOLUMETRIC PHOTOPOLYMER 3D PRINTING

16.50-17.10

OP-121

Bin Zhen

Runhe Chemical (Guangzhou) Co.,

DESIGN, DEVELOPMENT AND PROPERTIES OF SPECIALTY MONOMERS

17.10-17.30

OP-122

Disha Bandyopadhyay

Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

DYNAMIC BEHAVIOR ACROSS LENGTH SCALES: APPLYING SELF-HEALING POLYMERS FOR RECONFIGURABLE ARCHITECTURES

16.00-16.30

IL-47

Thomas Griesser

Technical University of Leoben, Austria

CONTROLLING THE CURING KINETICS OF RADICALLY AND ANIONICALLY
MEDIATED THIOL-ENE REACTIONS USING WAVELENGTH-SELECTIVE
PHOTOCHEMISTRY



16.30-16.50

OP-123

Tobias Alexander Hoffmann

Technische Universität Darmstadt, Germany

EXPLORING A NOVEL LIGHT SOURCE: LUMINESCENCE-TRIGGERED
PHOTOPOLYMERIZATION

16.50-17.10

OP-124

Marianela Trujillo-Lemon

University of Colorado, United States

CRYSTALLINE TEMPLATING ENABLES EFFICIENT SOLID-STATE PHOTOPOLYMERIZATION

17.10-17.30

OP-125

Ander Leiza Balda

University of the Basque Country, Spain

STANDARDIZING LIGHT: A MODULAR PHOTOREACTOR FOR CONTROLLED, REPRODUCIBLE
AND HIGH-THROUGHPUT PHOTOCHEMICAL REACTIONS

16.00-16.30

IL-48

Patrick Knaack

TU Wien, Austria

WITH LIGHT TO SUPER ACIDS AND SUPER BASES PAGs & PBGs



16.30-16.50

OP-126

Fatima Kasabji

University of Haute Alsace, France

FROM STRUCTURE TO FUNCTION: THE ROLE OF SPIKE GEOMETRY IN GOLD NANOURCHIN
PLASMONICS

16.50-17.10

OP-127

Max Schmallegger

Graz University of Technology, Austria

PHOTOCHEMICAL PREPARATION OF METAL-POLYMER NANOCOMPOSITES FOR CATALYTIC
AND ELECTRONIC INNOVATION

17.10-17.30

OP-128

Ariana Villarroel-Marquez

Université de Haute-Alsace, France

MECHANISTIC INSIGHTS ON PHOTOGENERATED SEMICONDUCTING POLYMER MATERIALS

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Friday, September 11

08.30-10.00

Parallel Sessions 12



10.00-10.30

Coffee break



10.30-11.40

Parallel Sessions 13



Plenary Session

Chair: Katharina Ehrmann

11.50-12.30

PL-7

Stefan Hecht

Humboldt Universität zu Berlin, Germany

PHOTOSWITCHABLE PHOTOINITIATORS FOR XOLOGRAPHY



12.30-12.55

Award Ceremony



12.55-13.10

Fare Well



Materials and 3D Printing
Chair: Xavier Allonas

HS7

08.30-09.00

IL-49

Xavier Fernández-Francos

Universitat Politècnica de Catalunya, Spain

ADVANCED VAT 3D-PRINTABLE MATERIALS FOR FLEXIBLE PROCESSING
AND REPROCESSING APPLICATIONS



09.00-09.20

OP-129

Jérémy Druon

University of Haute Alsace, France

FAST ADDITIVE MANUFACTURING OF CARBON-BASED ARCHITECTURES

09.20-09.40

OP-130

Artur Harnik

Vilnius University, Lithuania

3D PRINTING OF LONG AFTERGLOW $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ MICROSTRUCTURES

09.40-10.00

OP-131

Safora Jafari

Albert-Ludwigs-University, Germany

SUPER-LUBRICATING PROPERTIES OF SURFACE-ATTACHED POLYELECTROLYTE NETWORKS

Kinetics and Materials
Chair: Kai Licha

HS8

08.30-09.00

IL-50

Suljo Cirak

Asta Energy Solutions AG, Austria

LASER DRYING ENABLES REPLACEMENT OF OVEN TECHNIQUES TO
FACILITATE PHOTONIC DRYING OF COATINGS AS FUTURE TOOL IN THE
WINDING WIRE INDUSTRY



09.00-09.20

OP-132

Anar Arinova

National Center for Biotechnology, Kazakhstan

SYNTHESIS OF MACROPOROUS GELATIN-HYALURONIC ACID HYDROGELS VIA THIOL-ENE
CLICK CHEMISTRY

09.20-09.40

OP-133

İsa Değirmenci

Ondokuz Mayıs University, Türkiye

KINETIC INVESTIGATION OF SILANE-ENE POLYMERISATION MECHANISM: A QUANTUM
CHEMICAL STUDY

09.40-10.00

OP-134

Wiktorja Patz

Poznan University of Technology, Poland

TUNING THE KINETICS OF THIOL-EN PHOTOPOLYMERIZATION IN IMIDAZOLIUM IONIC
LIQUID MIXTURES FOR THE DESIGN OF CONDUCTING IONOGELS

08.30-09.00

IL-51

Nergis Arsu

Yıldız Technical University, Türkiye

PREPARATION OF 2-HEA/ACRYLAMIDE NANOCOMPOSITE HYDROGELS VIA CONTROLLED FRONTAL PHOTOPOLYMERIZATION WITH IN SITU-FORMED ZrO₂ NANOPARTICLES



09.00-09.20

OP-135

Alabati Aireken

Queensland University of Technology (QUT), Australia

WAVELENGTH-SELECTIVITY IN STEP-GROWTH PHOTOPOLYMERIZATIONS MAPPED VIA PHOTOCHEMICAL ACTION PLOTS

09.20-09.40

OP-136

Azra Kocaarslan

Karlsruhe Institute of Technology, Germany

WAVELENGTH SELECTIVITY IN LIGHT-INDUCED URETHANE LINKAGE FORMATION VIA CURTIUS REARRANGEMENT

09.40-10.00

OP-137

Alizée Morin

Université de Bordeaux, France

TRANS-O-COUMARAMIDES: PHOTO-CAGED AMINES FOR LIGHT-TRIGGERED STEP GROWTH POLYMERIZATIONS

08.30-09.00

IL-52

Marco Sangermano

Politecnico di Torino, Italy

SUSTAINABLE CATIONIC PHOTOPOLYMERIZATION: FROM COATINGS TO COMPOSITES AND ADDITIVE MANUFACTURING



09.00-09.20

OP-138

Georgii Gvindzhilia

Johannes Kepler University Linz, Austria

PHOTOOXIDATIVE MULTIPHOTON POLYMERIZATION OF PI-CONJUGATED SYSTEMS

09.20-09.40

OP-139

Alasdair Rigby

University of Sheffield, UK

SELF-ORGANISATION OF PIGMENT/POLYMER ANTENNA COMPLEXES VIA PHOTOCATALYTIC RDRP

09.40-10.00

OP-140

Manuel Jahn

Johannes Kepler University Linz, Austria

STED-ENHANCED MULTIPHOTON LITHOGRAPHY FOR PYRROLE-BASED PHOTORESISTS

10.30-11.00

IL-53

Sandra Schlögl

Polymer Competence Center Leoben GmbH PCCL, Austria

DYNAMIC PHOTOPOLYMERS: FROM MOLECULAR ARCHITECTURE TO
ADVANCED FUNCTIONS



11.00-11.20

OP-141

Florian Hager

TU Wien, Austria

QUANTIFYING AND IMPROVING FIBER-MATRIX ADHESION IN VAT PHOTOPOLYMERIZATION-
BASED COMPOSITE FABRICATION

11.20-11.40

OP-142

Francesca Sacchi

Politecnico di Torino, Italy

3D-PRINTED BIO-BASED CONDUCTIVE COMPOSITES WITH RECYCLED CARBON FIBERS
FROM PREPREG SCRAP

Controlled Polymerization and Materials

Chair: Nergis Arsu

HS8

10.30-11.00

IL-54

Jaroslav Mosnacek

Slovak Academy of Sciences, Slovak Republic

APPLICABILITY OF OXYGEN TOLERANT PHOTO-ATRP



11.00-11.20

OP-143

Peter Krajnc

University of Maribor, Slovenia

EMULSION TEMPLATED MEMBRANES VIA THIOL-ENE AND FREE RADICAL
PHOTOPOLYMERISATION

11.20-11.40

OP-144

Alice Rosanna Maggioni

Politecnico di Torino, Italy

EFFECTS OF CROSSLINKERS IN THIOL-ENE PHOTOPOLYMERIZATION OF ACRYLATED
SOYBEAN OIL

Photoinitiation
Chair: Patrick Knaack

HS9

10.30-11.00

IL-55

Maciej Podgórski

Maria-Curie-Skłodowska University, Poland

STRUCTURAL EVOLUTION IN SILICA-FILLED PHOSPHATE METHACRYLATE VITRIMERS



11.00-11.20

OP-145

Christine Bandl

Technical University of Leoben, Austria

FROM GERMYL RADICALS TO CATIONIC POLYMERIZATION: EXPANDING THE SCOPE OF Ge-BASED PHOTOINITIATORS

11.20-11.40

OP-146

Anastasiia Mikhailenko

Johannes Kepler University Linz, Austria

STED-INSPIRED CATIONIC LITHOGRAPHY OF EPOXIDES

Polymer Architecture
Chair: Stefan Baudis

HS10

10.30-11.00

IL-56

Katharina Ehrmann

TU Wien, Austria

PRINT, ERASE, MODIFY: MULTICHROMATIC LIGHT CONTROL OF 3D STRUCTURES



11.00-11.20

OP-147

Hana Boubaker

University of Haute Alsace, France

OPTIMIZATION OF IN SITU PHOTOCHEMICAL GOLD NANOPARTICLE FORMATION IN POLYACRYLATE RESINS USING BOX-BEHNKEN DESIGN FOR ADVANCED COLOR COATINGS

11.20-11.40

OP-148

Agnieszka Sysło

Cracow University of Technology, Poland

SUSTAINABLE CARBON DOTS FOR ADDITIVE MANUFACTURING

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Photoinitiators

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