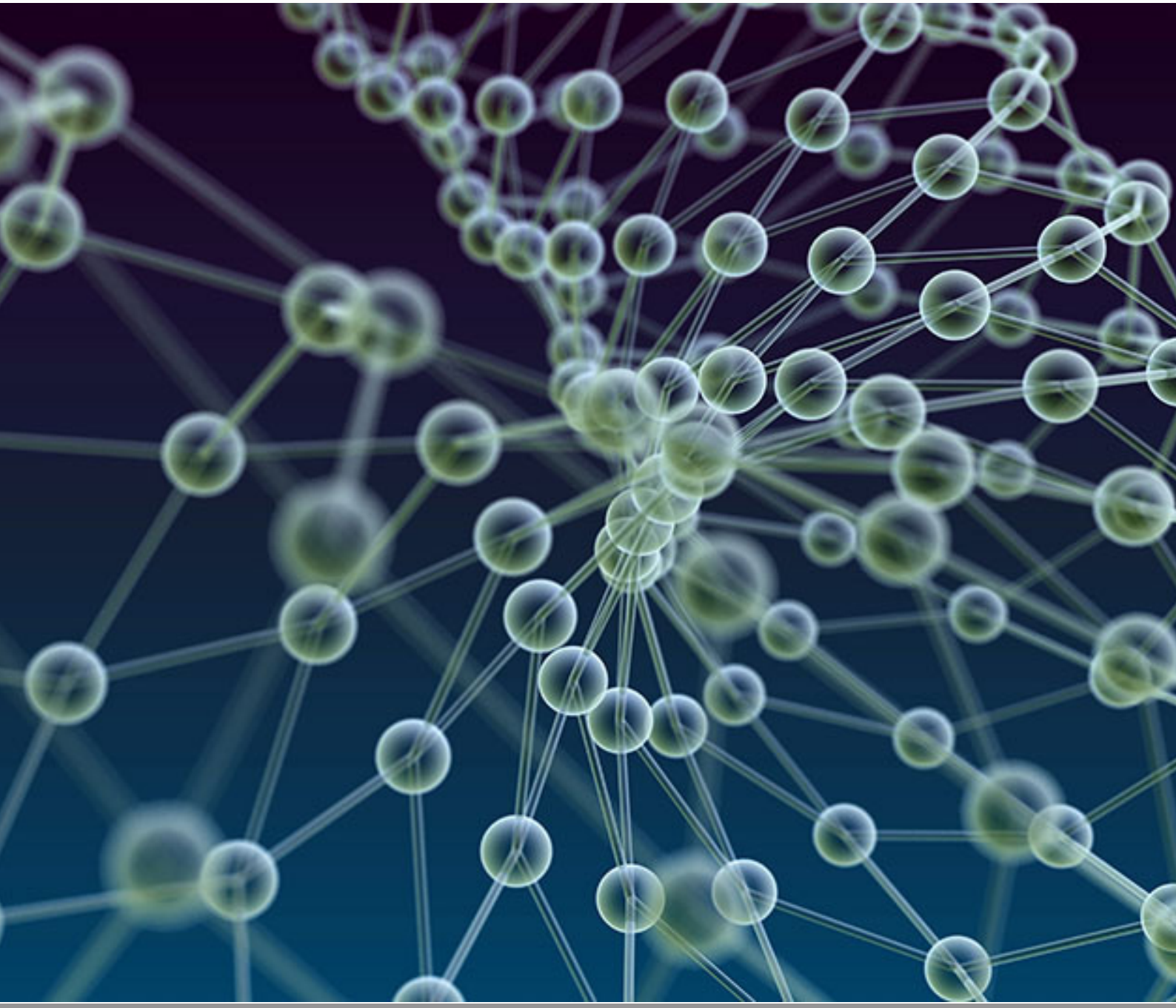
3rd Edition of International Conference and Exhibition on

# POLYMER CHEMISTRY



**March 26-28, 2018**
**Vienna, Austria**

EuroSciCon

# Polymer Chemistry 2018

## Agenda Day 1: Macrh 26, 2018

## Fleming's 9

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|---|---|
| 08:00-09:00 | **Registrations** |
| 09:00-09:10 | Opening Ceremony |
| | **Keynote Forum** |
| 09:10-09:20 | Introduction |
| 09:20-09:55 | **Title: Nano-structured polymeric/hybrid materials**<br>**Wolfgang Knoll,** AIT Austrian Institute of Technology, Austria |
| 09:55-10:30 | **Title: Using microwaves to extract and make functional natural or bio-sourced macromolecules**<br>**DESBRIERES Jacques,** University of Pau and Pays Adour, France |
| | **Group Photo** |
| | **Networking and Refreshment break 10:30-10:45 @ Foyer** |

**Sessions: Polymer Nanotechnology**

**Session Chair: Gerhard Eder,** Johannes Kepler University, Austria

**Session Co-Chair: Andreas Taubert,** University of Potsdam, Germany

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| | **Session Introduction** |
| 10:45-11:10 | **Title: Silver nanowires as a platform for plasmon engineering**<br>**Joanna Niedziółka- Jönsson,** Institute of Physical Chemistry, Polish Academy of Sciences, Poland |
| 11:10-11:35 | **Title: Plastic Scintillator, exploration of photo-physical properties and chemical optimisation**<br>**BERTRAND Guillaume,** CEA Saclay, France |
| 11:35-12:00 | **Title: $SnO_2$ nanoparticles: Their structural, electrical and optical properties**<br>**Vinita Sharma,** BBD Government College, India |
| 12:00-12:25 | **Title: Synthesis of nanochitosan Bombyx mori and its derivatives for medicine**<br>**Milusheva R.Yu,** Institute of Polymer Chemistry and Physics Academy of Sciences of Uzbekistan, Uzbekistan |
| 12:25-12:50 | **Title: Carbon and graphite filler composites of ethylene-octene copolymer – potential candidates for pressure/strain sensors**<br>**Rajesh Theravalappil,** King Fahd University of Petroleum and Minerals, Saudi Arabia |
| | **Lunch 12:50-13:40 @ Flemings Restaurant** |
| 13:40-14:05 | **Title: Fabrication of CNT–based conducting polymer nanocomposites and their applications in direct methanol fuel cells**<br>**You-Jun Fan,** Guangxi Normal University, China |
| 14:05-14:30 | **Title: Photo-design of metal polymer nanomaterials and nanostructures**<br>**Lavinia Balan,** CNRS Institut de Science des Matériaux de Mulhouse, France |
| 14:30-14:55 | **Exhibitor talk**<br>**Gundula Reitenbach,** Physical Electronics GmbH, Germany |

**Sessions: Biopolymers and Biomaterials | Polymer Physics and Characterizations**

**Session Chair: DESBRIERES Jacques, University of Pau and Pays Adour, France**

**Session Co-Chair: Lavinia Balan, CNRS Institut de Science des Matériaux de Mulhouse, France**

14:55-15:20 **Title: Advanced optoelectronic materials and devices via integrating functional polymers**

**Dong Ha Kim,** Ewha Womans University, Republic of Korea

15:20-15:45 **Title: Polymer surfaces for calcium phosphate deposition – implications for 3D printed polymer scaffolds**

**Andreas Taubert,** University of Potsdam, Germany

15:45-16:10 **Title: Bio-inspired engineering of microchannels in polymers by crystallization of solvent**

**Jonghwi Lee,** Chung-Ang University, South Korea

**Networking and Refreshments 16:10-16:25 @ Foyer**

16:25-16:50 **Title: Core crosslinking of polymeric flower like micelles using native chemical ligation**

**Tina Vermonden,** Utrecht University, Netherlands

16:50-17:15 **Title: Electrospinnig of polyheteroarylenes for new nanofiber functional materials**

**Ivan Ponomarev,** ELMARCO s.r.o, Czech Republic

17:15-17:40 **Title: Highly conducting polymers for thermoelectric applications**

**Jianwei XU,** Institute of Materials Research and Engineering, Republic of Singapore

17:40-18:05 **Title: Novel thermodynamic concepts for nucleation processes**

**Gerhard Eder,** Johannes Kepler University, Austria

# Agenda Day 2: March 27, 2018

## Fleming's 9

**Keynote Forum**

09:00-09:35 **Title: Flexible, stretchable and healable electronics**

**Fabio Cicoira,** Polytechnique Montréal, Canada

09:35-10:10 **Title: Photoinduced living polymerization for advanced polymer synthesis**

**Jiangtao Jason Xu,** UNSW Sydney, Australia

**Sessions: Applications of Biopolymers | Recent Developments in Polymer Synthesis | Polymer Science**

**Session Chair: Cor Koning,** DSM Coating Resins, The Netherlands

**Session Co-Chair: Mauro Giorcelli,** Politecnico di Torino, Italy

10:10-10:35 **Title: 3D structured composite filter materials with embedded natural nano-fillers**

**Manja Kurecic,** University of Maribor, Slovenia

**Group Photo**

**Networking & Refreshments 10:35-10:50 @ Foyer**

10:50-11:15 **Title: Renewable and sustainable coating resins**

**Cor Koning,** DSM Coating Resins, Netherlands

11:15-11:40 **Title: Giant vesicles supporting amino groups on the hydrophilic shells prepared by photo-controlled/living radical polymerization-induced self-assembly of amphiphilic block copolymers**

**Eri Yoshida,** Toyohashi University of Technology, Japan

11:40-12:05 **Title: Rapid synthesis of a novel type thermostable poly(ether)-b-poly(amide) (PEBA) with well-defined aramide segments, and the application to shape memory material**

**Yuji Shibasaki,** Iwate University, Japan

**Poster Presentations 12:05-12:50 @ Meeting rooms**

POLYC-01 **Title: Inverse suspension polymerization of itaconic acid to prepare biodegradable superabsorbent polymers**

**Young-Je KWARK,** Soongsil University, Korea

POLYC-02 **Title: Synthesis and characterization of fluorescent conjugated polymer dots hybridized with inorganic materials for responsive properties**

**Taek Seung Lee,** Chungnam National University, Korea

POLYC-03 **Title: Antibacterial properties of hybrid films prepared from bio-polyurethane and bio-hydroxyapatite**

**Byung Gil Min,** Kumoh National Institute of Technology, Korea

POLYC-04 **Title: Wound healing effects of new membranes based chitosan, hyaluronic acid and arginine derivatives**

**Lenuta Profire,** University of Medicine and Pharmacy, Romania

POLYC-05 **Title: One-step synthesis of a monolayer of monodisperse gold nanocubes for SERS substrates**

**Rana OMAR,** Université de Lorraine, France

POLYC-06 **Title: Ionic conductivity and related properties of chitosan-graphene nano-composite membranes**

**Mojca Bozic,** University of Maribor, Slovenia

POLYC-07 **Title: Size and morphology controlling of ethylcellulose nanoparticles by using different surface active polysaccharides in the emulsion evaporation preparation method**

**Manja Kurecic,** University of Maribor, Slovenia

POLYC-08 **Title: Preparation of bismuth coupled polysaccharide nanoparticles for magnetic resonance imaging**

**Silvo Hribernik,** University of Maribor, Slovenia

POLYC-09 **Title: Study of shape memory polymer composite for bone repairing**

**Yuanchi Zhang,** Hong Kong Polytechnic University, China

POLYC-10 **Title: Strain-induced chirality inversion by distinctly different helix pathway in $Co^{2+}$-triggered supramolecular peptide polymers**

**Ka Young Kim,** Gyeongsang National University, South Korea

POLYC-11 **Title: Crown ether-based moldable supramolecular gel with unusual mechanical properties and controllable electrical conductivity by cation-mediated cross-linking**

**Yeonweon Choi,** Gyeongsang National University, South Korea

POLYC-12 **Title: Poly(glyco-peptides) derived from D-gluconolactone**

**Ester Abtew,**The Hebrew University of Jerusalem, Israel

POLYC-13 **Title: Functional cyclic polymers via click reaction**

**Heesoo Kim,** Dongguk University College of Medicine, South Korea

POLYC-14 **Title: Janus-type polymeric nanoparticles for chemical sensing**

**Seung Hyun Kim,** Inha University, South Korea

POLYC-15 **Title: Carbon fibre functionalization by plasma treatment**

**Mauro Giorcelli,** Politecnico di Torino, Italy

**Poster Judges: Moonhor Ree, SEIICHI TAGUCHI**

**Lunch Break 12:50-13:40 @ Flemings Restaurant**

13:40-14:05 **Title: All polyolefin composites via nanostructure formation during melt processing**

**Rolf Mülhaupt,** University of Freiburg, Germany

14:05-14:30 **Title: Nanocontainers based on biodegradable polymer and anionic liposomes**

**Anna Efimova,** Moscow State University, Russian Federation

**Sessions: Polymer Engineering | Future Market of Polymers | Polymer Design and Reactions**

**Session Chair: Anna Efimova,** Moscow State University, Russian Federation

**Session Co-Chair: Céline Croutxé-Barghorn,** Laboratory of Photochemistry and Macromolecular Engineering, France

14:30-14:55 **Title: Boronic ester and homodimerization of molecular clips as cross-link motifs in the reversible networks**

**Monika Gosecka,** Polish Academy of Sciences, Poland

14:55-15:20 **Title: Estimation method of lifetime by the hydrolysis of polymer material**

**Yuko Sawada,** Mitsubisi Electric Corporation, JAPAN

15:20-15:45 **Title: High mechanical strength of supramolecular gels formed via hydrazone reaction**

**Jong Hwa Jung,** Gyeongsang National University, South Korea

15:45-16:10 **Title: Photopolymerisation of siloxane-thiol-acrylate oligomers**

**Vladimir Shelkovnikova,** Siberian Branch of the Russian Academy of Sciences, Russia

**Networking and Refreshments 16:10-16:25 @ Foyer**

16:25-16:50 **Title: Effective anionic UV curing for a thermally dismantlable photoadhesive having disulfide bonds**

**Masahiro Furutani,** Tokyo University of Science, Japan

16:50-17:15 **Title: Polyvalent tools for polymerization under irradiation**

**Céline Croutxé-Barghorn,** Laboratory of Photochemistry and Macromolecular Engineering, France

17:15-17:40 **Title: Structuring of cellulose (nano) substrates into functional porous materials**

**Silvo Hribernik,** University of Maribor, Slovenia

17:40-18:05 **Title: Biochar as a high performance low cost filler for polymer composites**

**Mauro Giorcelli,** Politecnico di Torino, Italy

# Agenda Day 3: March 28, 2018

## Fleming's 9

**Keynote Forum**

09:00-09:35 **Title: Synthetic biology for intracellular and secretory production of polymerized enantiopure ester-products in microbial platform**

**Seiichi Taguchi,** Tokyo University of Agriculture, Japan

09:35-10:10 **Title: Synthesis and evaluation of new radical photoinitiators bearing the alkoxysilane functionality**

**Krzysztof K. Krawczyk,** Montanuniversitaet Leoben, Austria

**Networking & Refreshments 10:10-10:25 @Foyer**

**Sessions: Bioplastics | Polymers for Emerging Technology | Polymerization Catalysis or Polymer-Modified Catalysts | Future Market of Polymers | Applications of Biopolymers | Polymer Nanotechnology**

**Session Chair: Daniel E Weibel,** Federal University of Rio Grande do Sul, Brazil

**Session Co-Chair: Yi Liu,** Lawrence Berkeley National Laboratory, USA

10:25-10:50 **Title: UV-surface treatment of fungal resistant polyether polyurethane film-induced growth of entomopathogenic fungi**

**Daniel E Weibel,** Federal University of Rio Grande do Sul, Brazil

10:50-11:15 **Title: 3D printing of biocomposite of polylactic acid and lignin modified cellulose nanofibrils**

**Mojca Bozic,** University of Maribor, Slovenia

11:15-11:40 **Title: Tuning structure and ordering in semiconducting conjugated polymers**

**Yi Liu,** Lawrence Berkeley National Laboratory, USA

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| 11:40-12:05 | **Title: New digital memory devices fabricated with DNA and DNA-mimics**<br>**Moonhor Ree,** Pohang University of Science and Technology, South Korea |
| 12:05-12:30 | **Title: Novel polymer latexes by photoactivated ring-opening metathesis polymerization in miniemulsion via the** *in situ* **generation of ruthenium-arene catalyst through photolatent N-heterocyclic carbene ligand**<br>**Loïc PICHAVANT,** Laboratoire de Chimie des Polymères Organiques, France |
| 12:30-12:55 | **Title: Silver metallization and selective metallization by spraying on 3D printed parts**<br>**Koen Staelens(Talk will be delivered by Samuel STREMSDOERFER),** Jet Metal Technologies, France |

**Lunch Break 12:55-13:45 @ Flemings Restaurant**

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| 13:45-14:10 | **Title: Efficient optical and mechanical responses of a hydrophobic association hydrogel**<br>**Silas Owusu-Nkwantabisah,** Eastman Kodak Company, USA |
| 14:10-14:35 | **Title: Polymer nano-structuring induced one-shot fabrication of monodisperse gold nanoparticles relevant for SERS**<br>**Akil Suzanna,** Université de Lorraine, France |

**Young Research Forum**

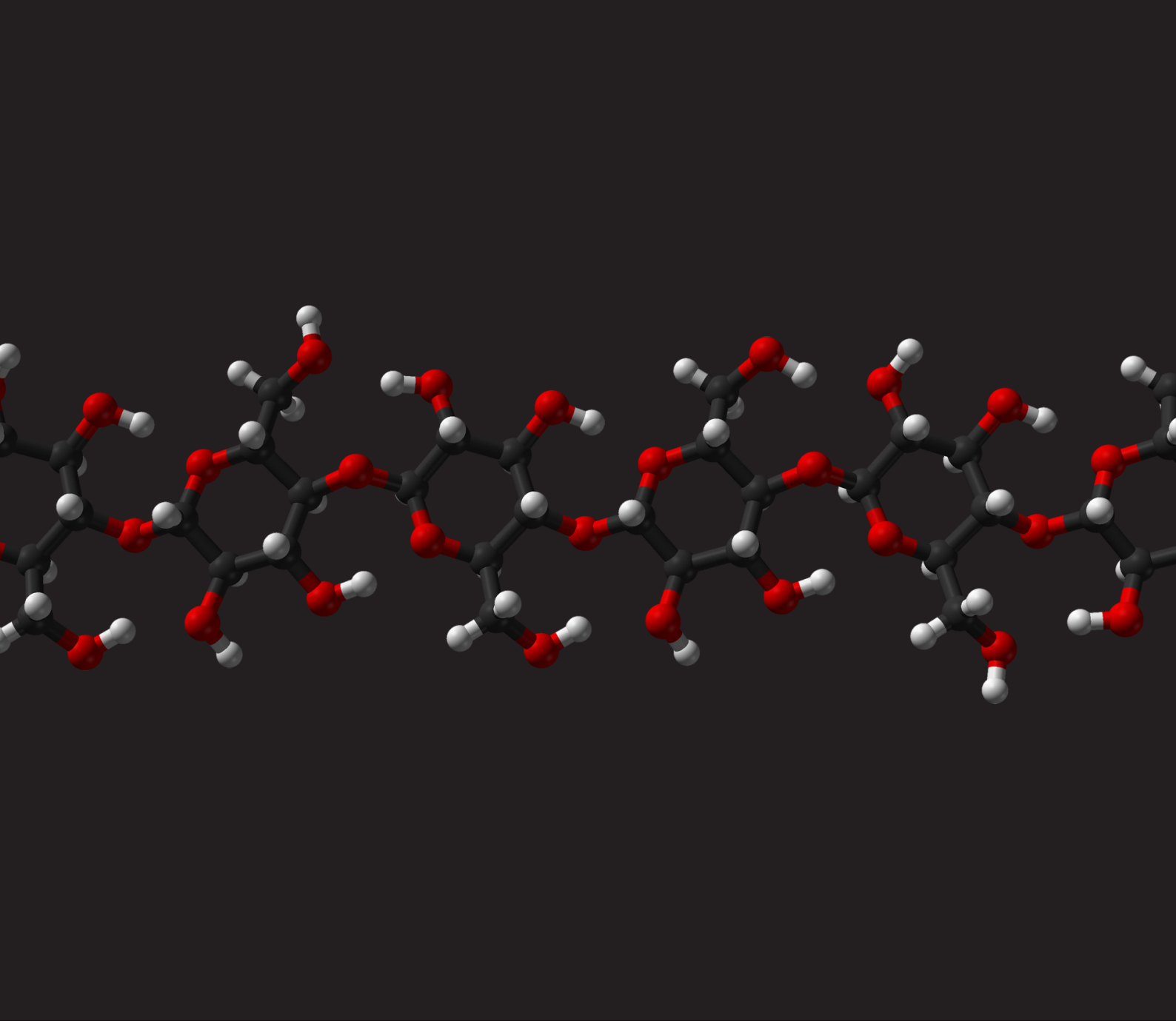
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| 14:35-14:55 | **Title: Life cycle assessment of poly(lactic acid) (PLA): Comparison between chemical recycling, mechanical recycling and composting**<br>**Marina Fernandes Cosate de Andrade,** University of Campinas, Brazil |
| 14:55-15:15 | **Title: Formation and polymerization of pickering emulsions stabilized by modified cellulose nanocrystals**<br>**Arthur Werner,** University of Bordeaux, France |
| 15:15-15:35 | **Title: Nanocellulose – material of the future**<br>**Ninoslav Ninic,** Faculty of polymer technology, Slovenia |
| 15:35-15:55 | **Title: Effect of humidity on mechanical, thermal and barrier properties of EVOH films**<br>**Anthony Blanchard,** Université de Lyon, France |
| 15:55-16:15 | **Title: PLA active packaging with natural antioxidants**<br>**Gador Indra Hidalgo,** Polytechnic University of Catalonia, Spain |

**Networking and Refreshments 16:15-16:30 @ Foyer**

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| 16:30-16:50 | **Title: Polyimide synthesis via reactive extrusion**<br>**Laurent Verny,** Université de Lyon, France |
| 16:50-17:10 | **Title: Novel magnetically chitosan based N-heterocyclic carbene as recyclable nanocatalyst and highly efficient for cross-coupling reaction**<br>**Pouria Zarshenas,** Shahid Beheshti University, Iran |

**Exhibitor Booth @ Meeting rooms**

**Awards & Closing Ceremony**



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