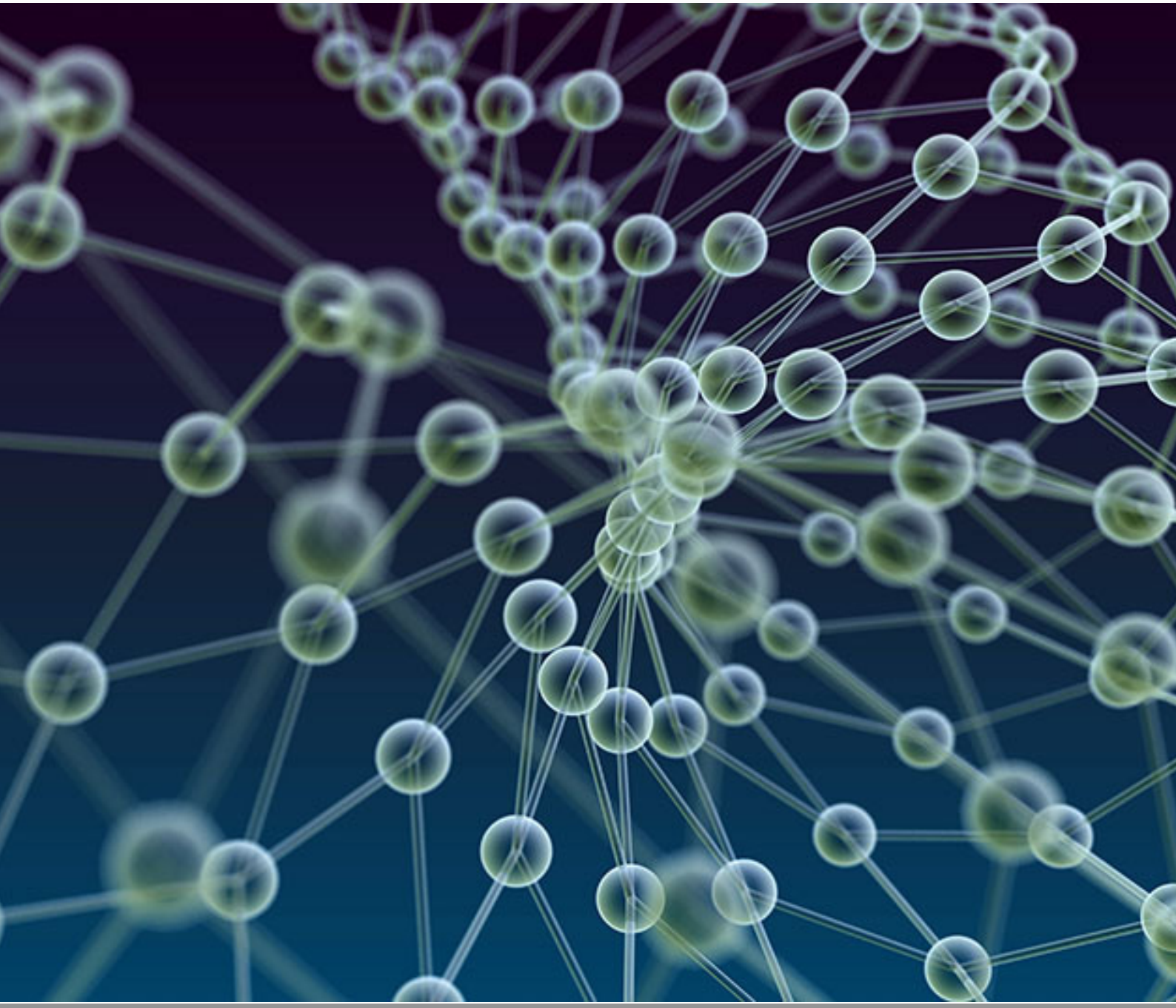
3rd Edition of International Conference and Exhibition on

POLYMER CHEMISTRY



March 26-28, 2018
Vienna, Austria

EuroSciCon

Polymer Chemistry 2018

Agenda Day 1: March 26, 2018

Fleming's 9

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** **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** **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

	Session Introduction
10:45-11:10	**Title: Silver nanowires as a platform for plasmon engineering** **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** **BERTRAND Guillaume,** CEA Saclay, France
11:35-12:00	**Title: SnO_2 nanoparticles: Their structural, electrical and optical properties** **Vinita Sharma,** BBD Government College, India
12:00-12:25	**Title: Synthesis of nanochitosan Bombyx mori and its derivatives for medicine** **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** **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** **You-Jun Fan,** Guangxi Normal University, China
14:05-14:30	**Title: Photo-design of metal polymer nanomaterials and nanostructures** **Lavinia Balan,** CNRS Institut de Science des Matériaux de Mulhouse, France
14:30-14:55	**Exhibitor talk** **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

11:40-12:05	**Title: New digital memory devices fabricated with DNA and DNA-mimics** **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** **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** **Koen Staelens(Talk will be delivered by Samuel STREMSDOERFER),** Jet Metal Technologies, France

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

13:45-14:10	**Title: Efficient optical and mechanical responses of a hydrophobic association hydrogel** **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** **Akil Suzanna,** Université de Lorraine, France

Young Research Forum

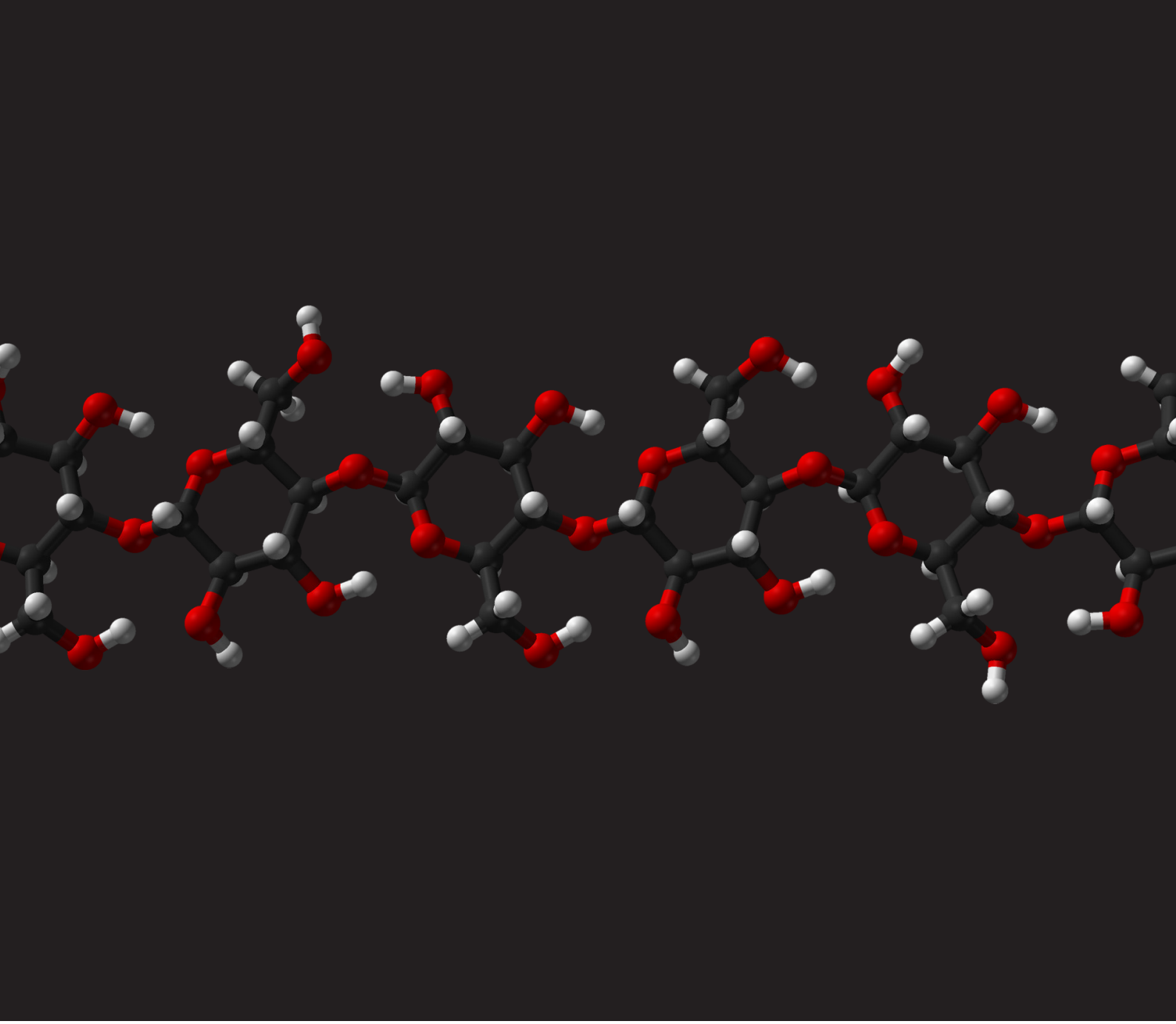
14:35-14:55	**Title: Life cycle assessment of poly(lactic acid) (PLA): Comparison between chemical recycling, mechanical recycling and composting** **Marina Fernandes Cosate de Andrade,** University of Campinas, Brazil
14:55-15:15	**Title: Formation and polymerization of pickering emulsions stabilized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

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

16:30-16:50	**Title: Polyimide synthesis via reactive extrusion** **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** **Pouria Zarshenas,** Shahid Beheshti University, Iran

Exhibitor Booth @ Meeting rooms

Awards & Closing Ceremony



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