# Scientific Program

EuroSciCon

3rd Edition of International Conference and Exhibition on

## Polymer Chemistry

Polymer Chemistry 2018

March 26 - 28, 2018 Vienna, Austria

## Fleming's 9

### Day 1 March 26, 2018

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| 08:00-09:00 | Registrations |
| 09:00-09:10 | Opening Ceremony |
| 09:10-09:20 | Introduction |
| **Keynote Presentations** | |
| 09:20-09:55 | **Title: Nano-Structured Polymeric/Hybrid Materials** |
| | Wolfgang Knoll, AIT Austrian Institute of Technologyg, 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* |
| **Session Introduction** | |
| **Sessions** | **Polymer Chemistry:Polymer Nanotechnology** |
| **Chair** | Gerhard Eder, Johannes Kepler University, Austria |
| **Co-chair** | Andreas Taubert,University of Potsdam, Germany |
| 10:45-11:10 | **Title: Silver nanowires as a platform for plasmon engineering** |
| | Joanna Niedziółka- Jönsson, Nicolaus Copernicus University, 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: Polymer nano-structuring induced one-shot fabrication of monodisperse gold nanoparticles relevant for SERS** |
| | Akil Suzanna, Université de Lorraine, France |
| 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 |
| **Session Introduction** | |
| **Sessions** | Biopolymers and Biomaterials\|Polymer Physics and Characterizations |
| **Chair** | DESBRIERES Jacquesg, University of Pau and Pays Adour, France |
| **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 |
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| | *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, The Netherlands |

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| 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 |
| **Fleming's 9** | |
| **Day 2 March 27, 2018** | |
| **Keynote Presentations** | |
| 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 |
| | ***Networking & Refreshments 10:10-10:25 @Foyer*** |
| **Session Introduction** | |
| **Sessions** | Applications of BioPolymers \| Recent Developments in Polymer Synthesis |
| **Chair** | Cor Koning, DSM Coating Resins, The Netherlands |
| **Co-chair** | Mauro Giorcelli, Politecnico di Torino, Italy |
| 10:25-10:50 | **Title: Silver Metallization and selective metallization by spraying on 3D printed parts** |
| | Samuel STREMSDOERFER, Jet Metal Technologies, France |
| 10:50-11:15 | **Title: Renewable and sustainable coating resins** |
| | Cor Koning, DSM Coating Resins,The 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 |
| 12:05-12:30 | **Title: All polyolefin composites via nanostructure formation during melt processing** |
| | Rolf Mülhaupt ,University of Freiburg, Germany |
| 12:30-12:55 | **Title: Nanocontainers based on biodegradable polymer and anionic liposomes** |
| | Anna Efimova, Moscow State University, Russian Federation |
| | ***Lunch Break 12:55-13:45 @Flemings Restaurant*** |
| | ***Poster Presentations13:45-14:30 @Meeting rooms*** |
| POLYC1 | **Title:Inverse Suspension Polymerization of Itaconic Acid to Prepare Biodegradable Superabsorbent Polymers** |
| | Young-Je KWARK, Soongsil University, Korea |
| POLYC2 | **Title:Synthesis and characterization of fluorescent conjugated polymer dots hybridized with inorganic materials for responsive properties** |
| | Taek Seung Lee, Chungnam National University, Korea |
| POLYC3 | **Title:Antibacterial Properties of Hybrid Films Prepared from Bio-Polyurethane and Bio-Hydroxyapatite** |
| | Byung Gil Min, Kumoh National Institute of Technology,korea |
| POLYC4 | **Title:Wound healing effects of new membranes based chitosan, hyaluronic acid and arginine derivatives** |
| | Lenuta Profire, University of Medicine and Pharmacy, Romania |
| POLYC5 | **Title:One-step synthesis of a monolayer of monodisperse gold nanocubes for SERS substrates** |
| | Rana OMAR, University of Lorraine and Lebanese University, France |
| POLYC6 | **Title:Ionic conductivity and related properties of chitosan-graphene nano-composite membranes** |
| | Mojca Bozic, University of Maribor, Slovenia |
| POLYC7 | **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 |
| POLYC8 | **Title:Preparation of bismuth coupled polysaccharide nanoparticles for magnetic resonance imaging** |
| | Silvo Hribernik, University of Maribor, Slovenia |
| POLYC9 | **Title:Study of Shape Memory Polymer Composite for bone repairing** |
| | Yuanchi Zhang, Hong Kong Polytechnic University, China |
| POLYC10 | **Title:Strain-Induced Chirality Inversion by Distinctly Different Helix Pathway in Co2+-Triggered Supramolecular Peptide Polymers** |
| | Ka Young Kim, Gyeongsang National University, South Korea |

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| POLYC11 | **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 |
| POLYC12 | **Title:Poly(glyco-peptides) derived from D-gluconolactone** |
| | Ester Abtew,The Hebrew University of Jerusalem,Israel |
| POLYC13 | **Title:Functional Cyclic Polymers via Click Reaction** |
| | Heesoo Kim, Dongguk University College of Medicine, South Korea |
| POLYC14 | **Title:Janus-type Polymeric Nanoparticles for Chemical Sensing** |
| | Seung Hyun Kim, Inha University,Korea |
| POLYC15 | **Title:Carbon Fibre functionalization by plasma treatment** |
| | Mauro Giorcelli, Politecnico di Torino, Italy |
| | **Poster Judges: Moonhor Ree, SEIICHI TAGUCHI** |
| | **Session Introduction** |
| **Sessions** | Polymer Engineering \| Future Market of Polymers \| Polymer Design and Reactions |
| **Chair** | Anna Efimova ,Moscow State University, Russian Federation |
| **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, Novosibirsk Institute of Organic Chemistry, 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: 3D structured composite filter materials with embedded natural nano-fillers** |
| | Manja Kurecic, 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 |
| | **Fleming's 9** |
| | **Day 3 March 28, 2018** |
| | **Keynote Presentations** |
| 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*** |
| | **Session Introduction** |
| **Sessions** | Bioplastics\|Polymers for emerging technology \| Polymerization catalysis or polymer-modified catalysts\| Polymer Science\| Polymer Design and Reactions |
| **Chair** | Daniel E Weibel,Federal University of Rio Grande do Sul, Brazil |
| **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, POSTECH, South Korea |

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| 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: Structuring of cellulose (nano) substrates into functional porous materials** |
| | Silvo Hribernik, University of Maribor, Slovenia |
| | ***Lunch Break 12:55-13:45 @Flemings Restaurant*** |
| 13:45-14:10 | **Title: Efficient optical and mechanical responses of a hydrophobic association hydrogel** |
| | Owusu-Nkwantabisah, Kodak Research Laboratories, United States |
| 14:10-14:35 | **Title:SnO2 nanoparticles: Their Structural, Electrical and Optical properties** |
| | Vinita Sharma, Government College, India |
| | **YRF** |
| 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** |
| | Gádor 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 |
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| | **Exhibitor Booth @ Meeting rooms** |
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| **Award & Closing Ceremony** | |

** Polymer chemistry 2018 Conference tenative scientfic program*