



# University POLITEHNICA of Bucharest Advanced Polymer Materials Group

## PROGRAMME

### 1<sup>st</sup> Bucharest Polymer Conference

celebrating 100 years since Romania's Great Union, 200 years since University Politehnica of Bucharest was established and 10 years of Advanced Polymer Materials Group existence.

Endorsed by the Academy of Romanian Scientists

### WEDNESDAY, 6 JUNE 2018

18:30-19:30	Registration (University POLITEHNICA of Bucharest Library 2 <sup>nd</sup> floor)
19:30-21:30	Welcome reception (University POLITEHNICA of Bucharest Library 2 <sup>nd</sup> floor)

### THURSDAY, 7 JUNE 2018 – CONFERENCE ROOM 1<sup>ST</sup> FLOOR-CAMPUS BUILDING

8:30-9:00	Registration (University POLITEHNICA of Bucharest CAMPUS Building 1 <sup>st</sup> floor)
9:00-9:45	<b>Opening ceremony</b> <ul style="list-style-type: none"> <li>- Mihnea Costoiu – Rector of University POLITEHNICA of Bucharest</li> <li>- Doru-Sabin Delion – Vice-President of the Academy of Romanian Scientists</li> <li>- Cristina Orbeci- Dean of Applied Chemistry and Materials Science Faculty</li> <li>- Horia Iovu – Head of Advanced Polymer Materials Group</li> </ul>

#### Plenary Session

*Chairperson: Mariana Ionita*

9:45-10:15	<b>Kendall Harris</b> Provost and Vice-President for Academic affairs, Texas Southern University, USA Impact of globalization of transferability of technology
10:15-10:45	<b>Jorge Phillip Joaquin Sans Burns</b> University POLITEHNICA of Bucharest Universita Degli Studi di Modena e Reggio Emilia Finding 'fancy' function for nanomaterials
10:45-11:15	Coffee break

#### Plenary Session

*Chairperson: Izabela Cristina Stancu*

11:15-11:45	<b>Fabrizio Barberis</b> Deputy Coordinator of Tech Transfer Commission of University of Genoa, Board of <i>GeAM-Genova Additive Manufacturing</i> , Italy Experimental approaches for mechanical investigation of soft biological tissues as meniscal cartilage
11:45-12:15	<b>Elzbieta Pamula</b> AGH University of Science and Technology, Poland Polymeric drug delivery systems for local treatment of osteomyelitis and osteoporosis
12:15-12:45	<b>Hugues Brisset</b> Universite de Toulon, France Ferrocenylmethyl methacrylate: from antifouling coatings to molecularly imprinted polymer sensors
12:45-13:30	Lunch
13:30-14:00	Visit to APMG Labs in Campus Building
<b>Keynotes presentation</b> <i>Chairperson: Adriana Lungu</i>	
14:00-14:30	<b>Corina Andronesco</b> Universitat Bochum, Germany Carbon Nanoelectrodes for Nanosized Gate-Modulated Field Effect Transistors
14:30-15:00	<b>Alexandru Rotaru</b> “Petru Poni” Institute of Macromolecular Chemistry, Romania Supramolecular assemblies for cell staining applications
15:00-15:15	Coffee break
<b>Oral presentations</b> <i>Chairperson: Catalin Zaharia</i>	
15:15-15:30	<b>Tim Bobrowski</b> Universitat Bochum, Germany Spray-Coating as a Versatile Tool for Electrode Surface Modificatin – from Nanostructured Electrodes to Enzyme Based Sensors
15:30-15:45	<b>Julian Szezesny</b> Universitat Bochum, Germany High-Performance Gas Breathing H <sub>2</sub> /O <sub>2</sub> Biofuel Cells comprising a Hydrogenase/Polymer Based Bioanode
15:45-16:00	<b>Alexandra Cernencu</b> Advanced Polymer Materials Group & University POLITEHNICA of Bucharest, Romania Nanocellulose based 3D printable Hydrogels

**FRIDAY, 8 JUNE 2018 – CONFERENCE ROOM 1<sup>ST</sup> FLOOR-CAMPUS BUILDING**

**Plenary Session**

*Chairperson: Horia Iovu*

9:00-9:30	<b>Gabriela Carja</b> Technical University Gh. Asachi Iasi, Romania A hybrid world based on layered double hydroxides: advances and challenges in energy, environmental and medical applications
9:30-10:00	<b>Julia Perez</b> University of Valencia, Spain Functional Polymer-capped NIR-responsive nanoparticles
10:00-10:30	<b>Dieter Schlueter</b> ETH Zurrich, Switzerland Synthesis of 2D polymers in single crystals and in monolayers on water
10:30-11:00	Coffee break

**Plenary Session**

*Chairperson: Diana Maria Dragusin-Zakman*

11:00-11:30	<b>Ciprian Iliescu</b> National University of Singapore, Singapore Microfluidic-driven strategies for self-assembled nanoparticles
11:30-12:00	<b>Helena Godinho</b> Nova University of Lisbon, Portugal Cellulose-based multifunctional materials
12:00-12:30	<b>Luc Averous</b> University of Strasbourg, France From different biomass to innovative macromolecular architectures based on polyurethanes
12:30-13:00	<b>Dragos Ciuparu</b> Petroleum-Gas University of Ploiești, Romania Revisiting some chemometric tools employable in the analysis of operando spectroscopy data: few case studies
13:00-14:00	Lunch

**Plenary Session**

*Chairperson: Izabela Cristina Stancu*

14:00-14:30	<b>Sandra Van Vlierberghe</b> Ghent University (UGent), Belgium Polymer functionalization and processing as versatile tools towards biomedical applications
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**Oral presentations**

*Chairperson: Jorge Phillip Joaquin Sans Burns*

14:30-14:45	<b>Tanta-Verona Iordache</b> The National Institute for Research and Development in Chemistry and Petrochemistry – ICECHIM, Romania Bio-based polymer adsorbents for the retention of organic nutrients and pesticides
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14:45-15:00	<p><b>Teodor Sandu</b>  The National Institute for Research and Development in Chemistry and Petrochemistry – ICECHIM, Romania  Innovative Bio-composites Based on Bacterial Strains and Polymer Pearls Bearing Magnetic Nanoparticles</p>
15:00-15:15	<p><b>Ana-Mihaela Florea</b>  The National Institute for Research and Development in Chemistry and Petrochemistry – ICECHIM, Romania  Novel Molecularly Imprinted Films: A Comparative Study For Ephedrine And Bisphenol A Recognition</p>
15:15-15:30	<p><b>Bogdan Cursaru</b>  The National Institute for Research and Development in Chemistry and Petrochemistry – ICECHIM, Romania  Synthesis and Characterization of New PEG Composite Hydrogels for Controlled Delivery of Bioactive Substances</p>
15:30-15:45	<p><b>Mariana-Gratiela Vladu</b>  University of Agronomic Sciences and Veterinary Medicine, Faculty of Biotechnologies &amp; National Institute for Chemical Pharmaceutical Research and Development-ICCF, Romania  Studies of Some Bacterial Strains Producing Polyhydroxyalkanoates</p>
15:45-16:00	Coffee break
<p><b>Oral presentations</b>  <i>Chairperson: Kendall Harris</i></p>	
16:00-16:15	<p><b>Iuliana Biru</b>  Advanced Polymer Materials Group &amp; University POLITEHNICA of Bucharest, Romania  Synthesis of new hybrid materials based on polybenzoxazines and graphene oxide</p>
16:15-16:30	<p><b>Ionut-Cristian Radu</b>  Advanced Polymer Materials Group &amp; University POLITEHNICA of Bucharest, Romania  Polymeric nanocomposite materials with modified LDH for biomedical applications</p>
16:30-16:45	<p><b>Elena Alina Chiticaru</b>  University POLITEHNICA of Bucharest, Romania  Electrochemical DNA biosensor based on graphene for biomedical applications</p>
16:45-17:00	<p><b>George Mihail Vlasceanu</b>  Advanced Polymer Materials Group &amp; University POLITEHNICA of Bucharest, Romania  Functionalization and Characterization of Graphene Species for the Purpose of Advanced Applications Development</p>