

**Thursday 7 September 2017**

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**Biochemistry, Food & Health**

*Section 2*

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15:00 to 15:30 - *Keynote*

**Stefan Tomas** (University Politehnica of Bucharest, Romania) Elena Brîndușe, Cristian Aurelian Boscornea, Cristina Viorica Pop, Lidia Fîciu, Mariana Pătrașcu, Gh. Stoian

*Superior valorization of the polyphenol extracts from Romanian wines of the Valea Călugărească region*

17:15 to 17:45 - *Keynote*

**Paul Vasos** (Extreme Light Infrastructure - Nuclear Physics (ELI-NP), Romania)

*Enhanced NMR to follow enzymatic reactions in living cells*

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**Physical Chemistry; Electrochemistry & Corrosion**

*Section 3*

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15:00 to 15:30 - *Keynote*

**Marius Enachescu** (University Politehnica of Bucharest, Romania)

*Synthesis of carbon nano-tubes, carbon nano-onions and graphene using a novel reactor and carbon nano-tubes applications in organic solar cells*

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**New Materials and Nanomaterials**

*Section 6*

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15:00 to 15:30 - *Keynote*

**Alina Bădănoiu** (University Politehnica of Bucharest, Romania)

*Waste valorization in the production of construction materials*

17:15 to 17:45 - *Keynote*

**Catalin Zaharia** (University Politehnica of Bucharest, Romania), Ionut-Cristian Radu, Paul O. Stanescu, Eugenia Vasile, Ariana Hudita, Bianca Galateanu, Horia Iovu

*Bombyx mori silk nanoparticles loaded with efficient drugs for cancer management*

## Friday 8 September 2017

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### Physical Chemistry; Electrochemistry & Corrosion

#### Section 3

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15:00 to 15:30 - Keynote

**Olivier Siri** (CNRS / Aix-Marseille Université, France)

*Emerging NIR dyes for photonic and electronic*

15:30 to 16:00 - Keynote

**Eric Saint-Aman** (Université Grenoble Alpes, France), Guy Royal, Saioa Cobo

*The trans-dimethyldihydropyrene/cyclophanediene system: a versatile multiaddressable platform*

17:15 to 17:45 - Keynote

**Danut Ionel Vaireanu** (University Politehnica of Bucharest, Romania), N. Vaszilcsin

*Could one achieve a self-recharging double layer capacitor?*

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### New Concepts in Chemical and Biochemical Engineering

#### Section 4

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15:00 to 15:30 - Keynote

**Ioan Călinescu** (University Politehnica of Bucharest, Romania), Mircea Vînătoru

*Process intensification using microwaves and ultrasound*

17:15 to 17:45 - Keynote

**Tănase Dobre** (University Politehnica of Bucharest, Romania)

*Modern processes in food engineering: A coupled process for processing Sea Buckthorn fruits  
Ultrafiltration with membrane surface clogging in batch processing of some primary algae extracts*

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### Monitoring & Environmental Protection

#### Section 5

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15:00 to 15:30 - Keynote

**Stefan Voicu** (University Politehnica of Bucharest, Romania)

*Applications of composite membranes with carbon nanotubes in environmental decontamination*

17:15 to 17:45 - Keynote

**Yongxia Sun**, Andrzej G. Chmielewski

*Overview electron beam technology application in environmental protection*

17:45 to 18:15 - Keynote

Cristina Orbeci, Annette Madelene Dăncilă, Cristina Modrojan, **Daniela Simina Ștefan**

*Removal of low biodegradable organic compounds from wastewater*

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## New Materials and Nanomaterials

### Section 6

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15:00 to 15:30 - Keynote

**Ștefania Stoleriu** (University Politehnica of Bucharest, Romania)

*Synthesis, characterization and in vitro behavior of ceramic scaffolds with enhanced osseointegration*

17:15 to 17:45 - Keynote

**Mariana Ionita** (University Politehnica of Bucharest, Romania), George Mihail Vlasceanu, Livia Crica, Horia Iovu

*Graphene based biomaterials for health care; Computer aided design and experiments*

17:45 to 18:15 - Keynote

**Izabela Cristina Stancu** (University Politehnica of Bucharest, Romania), Etienne Schacht, Bubenikova Silvia, Kalinovsk Lucia, Evi Lippens, Maria Cornelissen, Heidi Declercq, Matteo Santin, Muriel Amblard, Jean Martinez

*Biopolymer-peptide bioconjugates for improved cell adhesion*