

RICCCE 21

21st Romanian International
Conference on Chemistry
and Chemical Engineering

Constanta - Mamaia
ROMANIA

September 4-7

2019

PLENARY LECTURES



IAKI Hotel Conference Center, Mamaia, ROMANIA



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Wednesday 4 September 2019

Plenary Session 1

Chaired by: Ileana Rau and Sorin Bildea

17:30 – 18:05

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

Stochastic Modelling in Chemical Engineering

18:05 – 18:40

Olivier Siri (*Centre Interdisciplinaire de Nanoscience de Marseille - (CNRS / Aix-Marseille Université), France*)

Emerging conjugated zwitterions for photonics

18:40 – 19:15

Jean-Noel Jaubert (*Ecole Nationale Supérieure des Industries Chimiques, Nancy, France*)

How to boost the performances of equations of state widely used in chemical engineering

19:15 – 19:50

Luc Averous (*University of Strasbourg, France*)

From biomass to innovative polyuretanematerials: our overview

Thursday 5 September 2019

Plenary Session 2

Chaired by: **Alina Badanoiu** and **Catalin Zaharia**

08:30 – 09:05

Timothy Mason (*Centre for Research in the Built and Natural Environment, Coventry University, United Kingdom*)

40 Years of Sonochemistry

09:05 – 09:40

Luis Santos (*BASF HQ, Germany*)

Sustainable paints: an important contribution for a healthier life

09:40-10:15

Mihail Barboiu (*University of Montpellier, France*)

Encapsulation versus self-aggregation toward highly selective artificial K^+ - Channels

10:15-10:50

Sigurd Skogestad (*Norwegian University of Science and Technology (NTNU), Norway*)

Distillation is part of the future: A fresh look with focus on Divided-wall (Petlyuk) distillation columns

Coffee Break

Plenary Session 3

Chaired by: **Cristina Orbeci** and **Cristian Pirvu**

11:10 – 11:45

Horia Iovu (*University Politehnica of Bucharest, Romania*)

New concepts for design and synthesis of advanced nanocomposites

11:45 – 12:20

Magdalena Ionita (*Head of Technical Development Petrobrazi Refinery OMV Petrom, ROMANIA*)

Challenges and opportunities for oil processing industry – Horizon 2030

12:20 – 12:55

Gabriela Carja, (*Gheorghe Asachi Technical University of Iasi, Romania*)

Engineering self-assemblies of nanoparticles of metals/metal oxides-layered double hydroxides catalysts for obtained clean energy

12:55-13:30

Mihaela Stefan (*University of Texas at Dallas, USA*)

Functional Polycaprolactones for Drug Delivery Applications

Friday 6 September 2019

Plenary Session 4

Chaired by: Raluca Stan and Anton Fikai

08:30-09:05

Serguei Savilov (*Lomonosov Moscow State University, Russian Federation*)

Periodic Table of the Elements: The Developing Alphabet of Science

09:05 – 09:40

Philip T. Jaeger (*Eurotechnica GmbH, Germany*)

Recent developments and future potential of supercritical fluid technology

09:40 – 10.15

Franck Suzenet (*University of Orleans, France*)

Polynitrogen containing heterocycles: from energetic materials to original and promising organic fluorophores

10:15-10:50

Adamantini Paraskevopolou, (*Aristotle University of Thessaloniki, Greece*)

Food properties as influenced by the addition of non-conventional ingredients

Coffee Break

Plenary Session 5

Chaired by: Daniela Istrati and Paul Stanescu

11:15 – 11:50

Nicolay Tsarevsky (*Southern Methodist University, Dallas, USA*)

Synthesis and Applications of Branched Functional Polymers

11:50 – 12:25

Ai Kah Soh (*Monash University Malaysia*)

Role of stress in electrochemical hysteresis for the applications in Lithium ion batteries

12:25 – 13:00

Karol Chomicki (*ELSEVIER*)

How direct access to extracted experimental data is facilitating and speeding up a scientific research in Academia?