

PIM 2017 CONFERENCE PROGRAM

Wednesday 27.09.2017

- 8:00 – 8:30 Registration
 8:30 – 9:00 Conference Opening Ceremony

SESSION 1

Chairman Radovan Nosek; Claudiu Filip

9:00 – 9:30 **Darijo Lazic**
Plenary Pl-7

9:30 – 10:00 **Roald Aasen**
Plenary Pl-1
Recycling of organic waste as part of circular economy: Solution to prevent environment spreading of contaminants and microbial resistance including application of nano- and microparticles

10:00 – 10:15 **Ioan Iordache**
Oral T3-3
Hydrogen, an alternative fuel for energy efficiency in mobility

10:15 – 10:30 **Dan Lupu**
Oral T4-7
High pressure hydrogen adsorption on MIL-101

10:30 – 10:45 **Gabriela Blanita**
Oral T4-3
The interaction of hydrogen with nanosized Pd clusters

10:45 – 11:00 **Codruta Badea**
Oral T4-1
Monitoring the effect of silica fume on the pore evolution of cement paste via Fast Field Cycling NMR relaxometry

11:00 – 11:30 **Coffee Break**

SESSION 2

Chairman Antonio Cobelo Garcia; Alina Magdas

11:30 – 12:00 **Luana Bontempo**
Plenary Pl-2
Compound-specific isotope analysis to improve food traceability

12:00 – 12:30 **Federico Gabriele**
Plenary Pl-4
DarkSide-20k and Aria, two massive and technological projects for the Dark Matter research with Ar-40: their broader impact and transfer technology

12:30 – 12:45 **Zhang Zhaowei**
Oral T1-3
Identification for multiple mycotoxins via immunoassay and HPLC-MS/MS in food and feed

12:45 – 13:00 **Gabriela Cristea**
Oral T1-1
Carbon isotopes from peat bog deposits – a proxy for climate and environmental change. A comparative study between two Romanian peat bogs

13:00 – 13:15 **Vlad Muresan**
Oral T1-2
Modelling and simulation of a ¹³C experimental separation cascade through cryogenic distillation of CO

13:15 – 13:30 **Liviu Zarbo**
Oral T3-7 Hydrogen storage capacity of IRMOF-1 under applied electric fields

13:30 – 15:30 **Lunch**

SESSION 3

Chairman Alemayehu Gorfe; Adrian Bot

15:30 – 16:00 **Radovan Nosek**
Plenary Pl-11 Utilization of waste heat from aluminium melting furnace

16:00 – 16:30 **Dan Micu**
Plenary Pl-9 Implementing nZEB Skills in Romanian High Education Curricula

16:30 – 16:45 **Angela Limare**
Oral T3-4 Microwavable Mantle

16:45 – 17:00 **Pengfei An**
Oral T3-2 An Introduction to IW1B-XAFS Station of BSRF

17:00 – 17:15 **Vasile Rednic**
Oral T3-6 Working gas influence on the Stirling engine efficiency

17:15 – 17:30 **Nicolae Aldea**
Oral T3-1 Analysis, modelling and simulation of the Stirling engine functioning in real conditions

17:30 – 19:00 **Poster Session 1**
Sections: T1 ; T2 and T3-1 to T3-17

Thursday 28.09.2017

SESSION 4

Chairman Mircea Vomir; Ovidiu Pana

9:00 – 9:30 **Antonio Cobelo Garcia**
Plenary Pl-3 Rare-Earth Elements in the Environment: Tracers of Natural Biogeochemical Processes vs. Anthropogenic Disturbance of their Distribution

9:30 – 10:00 **Alice Mija**
Plenary Pl-10 Eco-designed Polymers & Industrial Waste Valorization

10:00 – 10:15 **Andrea Bede**
Oral T4-2 Revealing the Influence of Water-Cement Ratio on the Pore Size Distribution in Hydrated Cement Paste by Using Cyclohexane

10:15 – 10:30 **Lavinia Curecheriu**
Oral T4-6 Effect of porosity on the dielectric and dc-tunability properties of BaTiO₃ ceramics

10:30 – 10:45 **Radu Mitran**
Oral T4-9 Shape-stabilized phase change materials with dual thermal response and high energy storage obtained using mesoporous silica matrices

10:45 – 11:00 **Amalia Mesaros**
Oral T4-8 Superconducting YBa₂Cu₃O_{7-δ} nanocomposites using ZrO₂ colloidal solution obtained by polyol route

11:00 – 11:30 **Coffee Break**

SESSION 5

Chairman Thomas Jung; Ioan Turcu

11:30 – 12:00	Alemayehu Gorfe <i>Plenary Pl-5</i>	<i>Targeting K-Ras for Anti-cancer Drug Discovery</i>
12:00 – 12:30	Andre Matagne <i>Plenary Pl-8</i>	<i>The role of active site flexible loops in catalysis and of zinc in conformational stability of Bacillus cereus 569/H/9 β-lactamase</i>
12:30 – 12:45	Radu Fechete <i>Oral T2-1</i>	<i>In vivo ^1H NMR spectroscopy and relaxometry maps of woman's pelvis</i>
12:45 – 13:00	Peter Zavodsky <i>Oral T2-2</i>	<i>Mapping, characterization and specific inhibition of allosteric protein-protein interactions in signalling networks involved in tumorigenesis and inflammation</i>
13:00 – 13:15	Luiza Buimaga Iarinca <i>Oral T4-4</i>	<i>Do small defects in surfaces affect the molecular electronics? The DFT approach</i>
13:15 – 13:30	Alexandrina Nan <i>Oral T4-10</i>	<i>α-Hydroxy acids as bricks for functionalized polymers engineering</i>

13:30 – 15:30 **Lunch**

SESSION 6

Chairman Roald Aasen; Mihai Gligan

15:30 – 16:00	Thomas Jung <i>Plenary Pl-6</i>	<i>Programming electronic and spin states in 2D supramolecular architectures by single atomic or molecular modifications</i>
16:00 – 16:30	Mircea Vomir <i>Plenary Pl-12</i>	<i>Femtosecond magnetization dynamics in nanostructures</i>
16:30 – 16:45	Bogdan Feier <i>Oral T4-5</i>	<i>Electrochemical sensors based on molecularly imprinted polymers for antibiotics detection</i>
16:45 – 17:00	Cristian Morari <i>Oral T3-5</i>	<i>Optimization of positive electrode in lead-acid batteries: from design to experimental tests</i>
17:00 – 17:15	Stela Pruneanu <i>Oral T4-11</i>	<i>Graphene synthesis through electrochemical exfoliation of graphite rod</i>
17:15 – 17:30	Nicoleta Tosa <i>Oral T3-12</i>	<i>Design of micro- and nanostructured metallic films by direct laser writing</i>
17:30 – 19:00	Poster Session 2 <i>Sections: T3-18 to T3-25 and T4</i>	

19:30 – 22:00 **Dinner – Casa Universitarilor Restaurant**

Friday **29.09.2017**

Micro-symposium

9:00 – 10:30 *Clustering Alternative Energies across Europe*

10:30 – 10:45 **Coffee Break**

10:45 – 11:45 *Clustering Alternative Energies across Europe*

11:45 – 12:00 **Conference Closing Ceremony**

12:15 – 13:00 **Lunch**

Excursion to Jidvei Vineyard – dinner and wine tasting –

13:15 – Departure from INCDTIM

23:00 – Arrival in Cluj