PIM 2015 CONFERENCE PROGRAM

Tuesday	22.09.2015
Hour	
16:00 –18:00	Registration
18:00 –20:00	Welcome reception
Wednesday	23.09.2015
8:30 - 9:00	Conference Opening Ceremony
	SESSION 1
Chairman	Datan Zavadaliw
Chairman	Peter Zavodsky
9:00 – 9:30	Trine Eggen
Plenary Pl-3	Integrating nano- and microparticles in practical decontamination processes for
0.20 10.00	water and sediment
9:30 – 10:00	Etelka Tombacz
Plenary Pl-14	Theranostic potential of superparamagnetic iron oxide nanoparticles
10:00 – 10:15 <i>Oral T4-7</i>	Jan Zaloga
Oral 14-7	tPA-conjugated Superparamagnetic Iron Oxide Nanoparticles for Targeted Thrombolytic Therapy
10:15 – 10:30	Nicoleta Tosa
Oral T3-5	Dynamics of femtosecond laser-induced size tailoring of gold nanoparticles in water
10:30 – 10:45	Ciprian Cosar
Oral T4-2	Mixed oxide fuel interaction with graphene based heterostructures for direct energy
	conversion
10:45 – 11:00	Stela Pruneanu
Oral T4-3	Applications of graphene-based composites
11:00 - 11:15	Crina Socaci
Oral T4-5	Graphene-based nanomaterials with peroxidase-like activity
11:15 – 11:45	Coffee Break
	CECCION 2
Chairman	SESSION 2 Trine Eggen
11:45 – 12:15	Hermann Heumann
Plenary Pl-9	Application of stable isotopes in higher organisms

12:15 – 12:45	Olivier Isnard
Plenary Pl-11	Effect of H/D isotopes on the magnetic properties of Fe rich intermetallic
	compounds
12:45 – 13:00	Michael Hirscher
Oral T1-2	Separation of hydrogen isotopes by MOFs
13:00 – 13:15	Damian Axente
Oral T1-1	The energy consumption for thermo-catalytic reduction of sulfuric acid to sulfur
	dioxide for its recycling in the ¹⁵ N production plant

13:15 - 15:30 Lunch

SESSION 3

Chairman	Adrian Bot
15:30 - 16:00	Coca Iordache
Plenary Pl-10	Fuel Cells - Sustainable Energy Solution
16:00 – 16:30	Claudia Zlotea
Plenary Pl-18	Nanosized particles confined into porous scaffolds for energy storage and
	conversion
16:30 – 16:45	Milan Timko
Oral T4-6	Magnetic and Heating Characteristics of various Oil-Based Magnetic Fluids
16:45 – 17:00	Miruna Petria (Analytic Laboratory)
Oral Sponsor	Principles of Flow Chemistry - from Oxomaritidine to Spirodienal
17:00 – 17:15	Daniel Bilc
Oral T3-2	Low-dimensional transport and large thermoelectric power factors in bulk
	semiconductors by band engineering of highly directional electronic states
17:15 – 17:30	Yasser Acikbas
Oral T4-1	Optical characterization of N,N'-dicyclohexyl-3,4:9,10-perylene bis(dicarboximide)
	Langmuir-Blodgett film for organic vapor sensing application

Poster Session 17:30 – 19:00 Sections: T1; T2 and T3

Thursday 24.09.2015

SESSION 4

Chairman **Michael Hirscher Livius Trache** 8:30 – 9:00 Plenary Pl-15 "Isotopes and molecules" in present day nuclear physics 9:00 – 9:30 Cristiano Galbiati Special isotopes for dark matter and neutrino research Plenary Pl-7

9:30 - 10:00	Bjorn Hauback
Plenary Pl-8	Hydrogen storage in complex hydrides – structural characterization
10:00 - 10:15	Claudiu Filip
Oral T2-1	NMR Crystallography: when and why?
10:15 - 10:30	Nicolae Aldea
Oral T3-1	Principal Component Analysis Applied to X Ray Absorption Spectroscopy
10:30 - 10:45	Marius Rada
Oral T4-4	Local and electronic structure of lithium-lead-germanate glasses investigated by
	XAS and Raman methods
10:45 – 11:00	Angela Limare
Oral T2-3	Microwave-based, internally-heated convection applied to planetary mantles

11:00 – 11:30 **Coffee Break**

SESSION 5

Chairman	Ioan Turcu
11:30 – 12:00	Thomas Jung
Plenary Pl-12	Supramolecular Architectures at Surfaces: Shaping Structure, Electron and Spin
	States
12:00 – 12:30	George Froudakis
Plenary Pl-5	Developing novel computational techniques for large-scale screening of materials
	based on Artificial Intelligence algorithms
12:30 - 12:45	Peter Zavodszky
Oral T2-4	The role of noncatalytic domains in the regulation of complement proteases
12:45 – 13:00	Lorant Janosi
Oral T2-2	Mechanisms of Interaction of Short Cationic Antimicrobial Peptides with Lipid
	Membrane Models
13:00 – 13:15	Liviu Zarbo
Oral T4-8	Spin-Orbit Torques in Semiconductor Ferromagnets

13:15 – 15:30 **Lunch**

SESSION 6

Chairman Alina Magdas

15:30 - 16:00	Federica Camin
Plenary Pl-1	Stable Isotope Ratio Analysis for assessing the authenticity of food of animal origin
16:00 – 16:30	Antonio Cobelo Garcia
Plenary Pl-2	The Environmental Geochemistry of Platinum: Recent Advances for an Emerging
	Inorganic Contaminant
16:30 – 16:45	Ignat Florea (Analytic Jena)
Oral Sponsor	New perspectives in ICP -OES and ICP -MS with PlasmaQuant PQ 9000 and
	Plasma Quant MS Elite from Analytik Jena
16:45 – 17:00	Maria Tamasan
Oral T3-4	Solar efficient technologies for valorising an archaeological site in the rural area,
	Romania

17:00 – 17:15	Lucian Dulau
Oral T3-3	Simulation of a microgrid
17:15 – 17:30	Radu Trusca
Oral T3-6	Application for temperature and humidity monitoring of Data Center environment
17.20 10.00	
17.20 10.00	Poster Session
17:30 – 19:00	Poster Session Section: T4
17:30 – 19:00	

Friday 25.09.2015

Special Session Dedicated to International Year of Light

Calin Ur
Werner Fuss
Does laser isotope separation facilitate proliferation?
Henryk Fiedorowicz
Laser plasma sources of soft X-rays and extreme ultraviolet (EUV) for application in technology and science
Katalin Varju
Upscaling attosecond pulse generation for high power laser systems

10:30 – 10:45 **Coffee Break**

Chairman Valer Tosa

10:45 – 11:15	Calin Ur
Plenary Pl-16	Frontier Nuclear Physics at ELI–NP
11:15 – 11:45	Hyung Taek Kim
Plenary Pl-13	Development of multi-GeV electron accelerators with PW laser pulses
11:45 – 12:00	Conference Closing Ceremony
12:15 – 13:00	Lunch

Excursion to Alba Iulia – Alba Carolina Fortress and dinner to Conacul Secuiesc in Apuseni Mountains

13:15 – Departure from INCDTIM

15:30-17:30 – Visiting the Fortress (guided tour)

19:00-22:00 - Dinner at "Conacul Secuiesc" Restaurant in Coltesti

22:00 - Departure to Cluj

23:00 - Arrival in Cluj