



"Mechanochemistry in Europe: Challenges, Outcomes, Syntheses, Targets"

Gaetano Cima Main Lecture Hall - Università degli Studi di Cagliari, Via Corte D'Appello 87, Cagliari (Italy)

In person, Online and Live Workshop

Program

22 nd	luno	. 2023
22	June	. ZUZ3

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9:00 - 9:20	Welcome and opening remarks Francesco DELOGU (Università di Cagliari, Italy) and Evelina COLACINO (Université de Montpellier, France).		
9:20 - 9:50	Update from the COST Association Ralph STÜBNER (Science Officer COST Association, Brussels, Belgium).		
Chaired by Bilge BAYTEKIN (Bilkent University, Turkey)			
9:50 - 10:10	Enhancing asymmetric organocatalysis and metal-catalyzed reactions by mechanochemistry Radovan SEBESTA (Comenius University in Bratislava, Slovakia)		
10:10 - 10:30	Mechanochemical synthesis of C-N bond, from dynamic self-assembly of hemicucurbiturils to application in the synthesis of Imatinib. Riina AAV (Tallinn Technical University, TalTech, Estonia)		
10:30 - 10:50	Mechanochemistry and Biopolymeric Materials Science Niclas SOLIN (Linköping University, Sweden)		
10:50 - 11:10	Unlocking new avenues: Solid-state synthesis of molecularly imprinted polymers Ede BODOKI (Iuliu Haţieganu University of Medicine and Pharmacy, Romania)		
11:10 - 11:30	Coffee Break		
Chaired by Mafalda SARRAGUÇA (Porto University, Portugal)			
11:30 - 11:50	Electrostatics of Polymers and Powders Bilge BAYTEKIN (Bilkent University, Turkey)		



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11:50 - 12:10	Mechanochemistry of hybrid inorganic-organic nanomaterials: basic concepts, precursor design and surface engineering Piotr KRUPINSKI (Institute of Physical Chemistry, Polish Academy of Sciences)	
12:10 - 12:30	Influence of mechanochemical processing to phase transition of carbamazepine polymorphs and formation of Inclusion Complex with cyclodextrin Aleksandar CVETKOVSKI (University "Goce Delcev" at Stip, Republic of North Macedonia	
12:30 - 12:50	Electrochemistry in Mechanochemistry: The Synergy of Two Fields for Sustainable Industry Tihana MUDRINIC (University of Belgrade, Serbia)	
12:50 - 14:00	Lunch	
Chaired by Ivan HALASZ (Ruđer Bošković Institute, Croatia)		
14:00 - 14:20	Case-studies on directing selectivity in the solid-state mechano- and slow-chemistry, and solution-phase synthesis Janusz LEWINSKI (Warsaw University of Technology, Poland)	
14:20 - 14:40	Synthesis and recycling of catalysts and other advanced materials by mechanochemical methods Zara CHERKEZOVA-ZHELEVA (Institute of Catalysis- Bulgarian Academy of Sciences, Bulgaria)	
14:40 - 15:00	Spray Drying Technology in Production of Organic and Inorganic Compounds Ladislav ČELKO (Brno University of Technology, Czech Republic)	
15:00 - 15:20	Sulfadiazine metal complexes: an innovative mechanochemical approach Clara GOMES (NOVA School of Science and Technology, Portugal)	
15:20 - 15:40	Mechanochemical synthesis of luminescent gold(I) complexes Andrea DEAK (Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Budapest, Hungary)	
15:40 - 16:00	Coffee Break	
Chaired by Evelina COLACINO (Université de Montpellier, France)		
16:00 - 16:20	Building mechanochemical bridges between Slovakia and other European countries thanks to CA18112 Matej BALAZ (Institute of Geotechnics, Slovak Academy of Sciences, Slovakia)	







16:20 - 16:40	MOF-like gels, mixing or mechanochemistry Allan NIIDU (Tallinn Technical University, TalTech, Estonia)
16:40 - 17:00	Mechanochemistry: a Passing Fashion or a Green Revolution?

Andrea PORCHEDDU (University of Cagliari, Italy)

23rd June, 2023

Chaired by Lidia TAJBER (Trinity College Dublin, Ireland)

9:00 - 9:20 (on line)	Single molecule force spectroscopy of mechanophores Martin BEYER (University of Innsbruck, Austria)	
9:20 - 9:40	Round Robin: demonstrating inter-laboratory reproducibility of ball mill grinding reactions Ana BELENGUER (Cambridge University, UK).	
9:40 - 10:00 (on line)	Fibre Optical Coupler Simulation by Comsol Multiphysics Software Edgars ELSTS (Institute of Solid State Physics - University of Latvia)	
10:00 - 10:20 (on line)	Mechanochemistry of p-elements Felipe GARCIA (University of Oviedo, Spain).	
10:20 - 10:40	Mechanistic framework for mechanochemical reactions Ivan HALASZ (Ruđer Bošković Institute, Croatia)	
10:40 - 11:00	Coffee Break	
Chaired by Sandra KURKO (University of Belgrade, Serbia)		
11:00 - 11:20 (on line)	Crystal Engineering and Mechanochemistry: a fruitful combination Alessia BACCHI (University of Parma, Italy)	
11:20 - 11:40	Mechanochemistry of pharmaceutical multicomponent systems Lidia TAJBER (Trinity College of Dublin, Ireland)	
11:40 - 12:00 (on line)	Unleashing the Power of Mechanochemistry towards Praziquantel Cocrystals Vânia ANDRE' (Centro de Quimica Estrutural, Instituto Superior Técnico, Lisbon, Portugal)	
12:00 - 12:20	Pharmaceutical co-crystals – mechanochemical upscaling and characterization Michael FELDERHOFF (Max Planck Institute, Mülheim, Germany)	
12:20 - 12:40	Life cycle assessment of mechanochemical processes and products: predictions at commercial scale	







Sabrina SPATARI (Technion, Israel)

12:40 - 13:00

Concluding remarks looking at the future

- Francesco DELOGU (Università di Cagliari, Italy)
- Evelina COLACINO (Université de Montpellier, France)
- Ralph STÜBNER (COST Association, Belgium)
- Floris RUTJES (Radboud University, The Netherlands and EuChemS President).

13:00 - 14:00

Lunch, discussion on future networking activities and...looking forward to meeting you again.

