



3RD INTERNATIONAL CONFERENCE PROGRAMME

Emerging Technologies in Materials Engineering – EmergeMAT

Note: CET (Central European Time)

Day 1 (29.10.2020)	
09:30-09:40	WELCOME AND OPENING OF THE CONFERENCE <i>Note: Online access is available from 09.00. Participants are encouraged to log in as early as possible.</i>
09:40-09:50	TOWARDS HORIZON EUROPE Iulia MIHAIL, ROST-EU, Romania
09:50-10:10	INACO, SHAPING THE FUTURE OF ROMANIAN TECHNOLOGY Andreea PAUL, INACO, Romania
10:10-10:30	MATERIALS SCIENCE AND ENGINEERING IN THE ERA OF DIGITALIZATION AND ITS IMPACT ON HEALTH APPLICATIONS Roxana M. PITICESCU, General Director IMNR, Romania
10:30-10:50	NOVEL MICROWAVE-BASED PROCESSING TECHNOLOGIES OF ELECTRONIC WASTES AND IMPACT ON ENVIRONMENTAL PROTECTION Sorin AXINTE, UPB, Romania
10:50-11:10	ADVANCED MATERIALS FOR EXTREME CONDITIONS AND THEIR IMPACT ON SPACE AND SECURITY APPLICATIONS Radu R. PITICESCU, IMNR – EU SUPERMAT Virtual Center, Romania
11:10-11:30	NEW MATERIALS AND TECHNOLOGIES FOR ENVIRONMENTAL PROTECTION Nicolae MARUNTELU, Romanian Cluster PROECO-CBRNE
11:30-11:50	IN HONOUR OF OUR PROFESSORS AND OUTSTANDING RESEARCHERS: Dr. Tudor Segarceanu, Dr. Petru Moldovan, Dr. Cristian Predescu, Dr. Marioara Abrudeanu, Dr. Teodor Velea Adrian M. MOTOC, IMNR, Romania
11:50-12:00	<i>Break</i>
Section 1. Additive Manufacturing	
12:00-12:15	EXTRUSION PRINTING OF CERAMICS AND COMPOSITES AND THEIR POTENTIAL APPLICATIONS Madalina L. CURSARU, IMNR, Romania
12:15-12:30	3D PRINTING OF HIGH REFRACTORY ALLOYS FOR AEROSPACE Gheorghe MATACHE, COMOTI, Romania
12:30-12:45	LASER ASSISTED 3D PRINTING TECHNOLOGIES FOR MEDICAL IMPLANTS Andrei POPESCU, CETAL-INFLPR, Romania



Section 2. Advanced Materials and Coatings for Extreme Conditions <i>(corrosion, high temperatures, biomedical applications)</i>	
12:45-13:00	HIGH ENTROPY ALLOYS: FROM MODELLING TO APPLICATIONS Dumitru MITRICA, IMNR, Romania
13:00-13:15	HIGH PRESSURE SINTERING AND CONSOLIDATION PROCESSES Alain LARGETEAU et al, CNRS-ICMCB Bordeaux, France
13:15-13:30	END-OF-LIFE MATERIALS APPLIED IN CONCRETE INDUSTRY Bogdan St. VASILE et al, UPB, Romania
13:30-13:45	METHANE COMBUSTION USING Pd DOPED CeO_x-MnO_x/La-Al₂O₃ PELLISTORS Cristian E. SIMION et al, INCDFM, Romania
Section 3. Critical materials <i>(substitution and recovery)</i>	
13:45-14:00	APPLICATION OF MECHANOCHEMISTRY TO CRM RECOVERY Dr. Zara CHERKEZOVA-ZHELEVA et al, Bulgarian Academy of Sciences, Bulgaria
14:00-14:15	PROMETHEUS: A COPPER BASED POLYMETALLIC CATALYST FOR AUTOMOTIVE APPLICATIONS Iakovos YAKOUMIS et al, MONOLITHOS Catalysts & Recycling Limited, Greece
Section 4. Materials for Energy Harvesting and Storage	
14:15-14:30	ALTERNATIVE BUFFER LAYERS DEPOSITED BY RF SPUTTERING FOR THIN FILMS SOLAR CELLS Raluca MEREU et al, Babes-Bolyai University, Romania
14:30-15:00	YOUNG SCIENTISTS AWARD COMPETITION: BEST POSTERS AWARDS

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Day 2 (30.10.2020)	
09:30-10:00	Opening and registration of Participants* <i>Note: Online access is available from 09.00. Participants are encouraged to log in as early as possible.</i>
10:00-12:00	ITHACA's updates, discussion about business plan CANVAS, business plan editing, STSMs planning, etc. Chair: Maria Luisa GRILLI, ENEA, Italy
12:00-12:15	Studies of graphene loaded with MoS₂ and SW₂ particles for automotive catalyst supported on polycarbonate Lexan 121R Report of STSM by Claudio LAROSA, Italy, and Silviya BOYCHEVA, Bulgaria
12:15-12:30	Closing of the Conference

**) Event open only for registered COST Action participants.*