

**WORKSHOP ON SMART SPECIALIZATION AND  
ADVANCED MATERIALS FOR EXTREME CONDITIONS**

**20-22 November 2017**

**Bucharest, Romania**

**Hotel IBIS Parliament**

**82-84 Izvor St., sector 5**



## WORKSHOP AGENDA

20.11.2017 (Mon)	DAY 1
09.30 – 10.00	Registration / Poster setup
10.00 – 10.15	Introduction by Organizers
10.15 – 11.15	<b>Scientific workshop: Review presentation of SUPERMAT project</b> <ul style="list-style-type: none"><li>• <b>Radu Piticescu</b>, <a href="#">IMNR</a> (Romania), <i>SUPERMAT PROJECT GENERAL OVERVIEW AND ACTIVITY UP TO DATE</i></li></ul>
11.15 – 11.30	Coffee break
11.30 – 13.00	<b>Scientific workshop: Young researchers in the field of advanced materials for extreme conditions</b> <ul style="list-style-type: none"><li>• <b>Ioana Andreea Chirea</b>, Alexandra Georgiana Moise, Eleonora Luminița Mara, Daniel Cristian Mihăiescu, Mihai Ghiță, Dumitru Valentin Drăguț, Victoria Soare, Eleonora Ana Neagu, Laura Eugenia Bărbulescu, <a href="#">IMNR</a> (Romania), <i>TREATMENT PROCESS OF WASTES CONTAINING CHROMIUM IN ORDER TO MINIMIZE THE RISK OF ENVIRONMENTAL POLLUTION WITH TOXIC AND DANGEROUS METALLIC COMPOUNDS (CHROMIUM COMPOUNDS)</i></li><li>• <b>Beatrice Adriana Cărlan</b>, Dan Constantinescu, Ioana Anasiei, <a href="#">IMNR/UPB</a>, <i>THERMAL CONDUCTIVITY, SOIL PROPERTIES AND CLIMATE CHANGES IN NORTH SCANDINAVIA</i></li><li>• <b>Dumitru Valentin Drăguț</b>, Viorel Bădiliță, Mihai Ghiță, Adrian Mihail Motoc, Radu Robert Piticescu, <a href="#">IMNR</a> (Romania), <i>XRD THERMAL STABILITY STUDIES OF CO-DOPED RARE EARTH ZIRCONIA NANOPOWDERS</i></li><li>• <b>Daniel-Cristian Mihăiescu</b>, Luminița-Eleonora Mara, Georgiana-Alexandra Moise, Ioana Andreea Chirea (Grădinaru), Eleonora Ana Neagu, Mihai Ghiță, Viorel Bădiliță, Dumitru Valentin Drăguț, <a href="#">IMNR</a> (Romania), <i>NEW TECHNOLOGICAL CONCEPT FOR EFFICIENT</i></li></ul>

*AND SUSTAINABLE REVITALIZATION OF ABANDONED INDUSTRIAL LAND BY IMMOBILIZING COMPOUNDS CONTAINING TOXIC METALS*

- **Alexandra-Georgiana Moise**, Corneliu Frățilă, Ioana-Andreea Chirea, Daniel Cristian Mihăiescu, Mihai Ghiță, Viorel Bădiliță, Lenuța Enache, **IMNR** (Romania), *RECOVERY OF IRON FROM INDUSTRIAL WASTE BY ELECTROLYSIS OF SULPHATE SOLUTIONS*
- **Alexandru Nițu**, V. Radu, **RATEN ICN** (Romania), *NEW METHOD FOR FRACTURE MECHANICS TEST ON THE GEN IV INNOVATIVE MATERIALS*
- **Bogdan Ștefan Vasile**, Vasile Adrian Surdu, Alexandra Cătălina Bîrcă, Ionela Andreea Neacșu, Adrian Ionuț Nicoară, Roxana Doina Trușcă, **UPB** (Romania), *REVIEW: CERAMIC COMPOSITE MATERIALS USED AS THERMAL BARRIERS IN AEROSPACE INDUSTRY*
- **Sebastian Vintilă**, Raluca Condruz, Alexandru Paraschiv, **COMOTI** (Romania), *CHARACTERIZATION OF SELF-HEALING PERFORMANCES ON FRP COMPOSITES*

13.00 – 14.00 Lunch break

14.00 – 15.30 **Scientific workshop: Specific methods and equipment in the field of materials for extreme conditions**

- **Arcadii Sobetkii**, **IMNR** (Romania), Santiago Cuesta-Lopez, **ICCRAM** (Spain), Marta M. Roda, **ICCRAM** (Spain), Antonio Rinaldi, **ENEA** (Italy), Cristina Florentina Ciobotă, **IMNR** (Romania), Radu Robert Piticescu, **IMNR** (Romania), *PEROWSKITE-BASED FUNCTIONALLY GRADED MATERIALS FOR EXTREME CONDITIONS OBTAINED BY EB-PVD METHOD*
- **Iulian Boerașu**, **RONEXPRIM** (Romania)
- **Ana Terteleac**, **ANKERSMID** (Romania), *CONNECT TO FUTURE TECHNOLOGIES, CONNECT TO ANKERSMID M&C ROMANIA*
- **Gabriela Ioniță**, **SARTOROM** (Romania)
- **Alin Mogoș**, **AGILROM SCIENTIFIC** (Romania), *AGILENT TECHNOLOGIES – NEW CHALLENGES IN ADVANCED MATERIALS*

15.15 – 15.30 Coffee break

15.30 – 16.30 **Discussions / Networking**

- *JOINTLY SUPERVISED DOCTORAL PROGRAMS*

**Poster presentations (Q&A)**

- **Mihai Boțan**, Sorin Dimitriu, Alina Dragomirescu, Victor Manoliu, Gheorghe Ionescu, **INCAS** (Romania), *PROCEDURE AND TESTING INSTALLATION IN EXTREME THERMAL CONDITIONS OF THE TBC FOR TURBO ENGINES*
- **Marian Burada**, Ionut Constantin, Mihai Olaru, Mihai Ghiță, Dumitru Valentin Draguț, Beatrice Cârlan, **IMNR** (Romania), *MICROSTRUCTURE AND PROPERTIES OF V-DOPED TiNiSn*

**The VIRTUAL Center for Integration of Innovative Synthesis and Processing Methods  
for SUSTAINABLE Advanced Materials Operating under Extreme Conditions SUPERMAT**

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*HALF-HEUSLER ALLOYS FOR THERMOELECTRIC APPLICATIONS*

- **Oana-Claudia Ciobotea-Barbu**, Ioana-Alina Ciobotaru, Dănuț-Ionel Văireanu, Daniel Bîrgăoanu, [IGR](#) (Romania), *THE INFLUENCE OF THE ELECTRODEPOSITION PARAMETERS ON THE PROPERTIES OF Ni-Cu*
- **Mihaela Raluca Condruz**, Sebastian Ionuț Vintilă, Alexandru Paraschiv, [COMOTI](#) (Romania), *INFLUENCE OF JET FUEL ON POLYMERIC COMPOSITE'S MECHANICAL PROPERTIES*
- **Mihai T. Olaru**, Arcadii Sobetskii, Marian Burada, Ionuț Constantin, Beatrice Cârlan, Mihai Ghiță, Valentin Draguț, [IMNR](#) (Romania), *E-BEAM DEPOSITION OF Ti-BASED HALF-HEUSLER ALLOYS THIN FILMS FOR THERMOELECTRIC APPLICATIONS*
- **George Pelin**, Cristina-Elisabeta Pelin, Adriana Ștefan, Mihail Boșan, [INCAS](#) (Romania), *ABLATIVE MATERIALS FOR EXTREME ENVIRONMENTS APPLICATIONS*
- **Maria-Laura Soare**, Marian Burada, Ionuț Constantin, Roxana Doina Trușcă, Petre Capotă, Victoria Soare, Andreea Nicoleta Lupu, Dumitru Valentin Drăguț, [IMNR](#) (Romania), *ELECTRODEPOSITION AND CHARACTERIZATION OF Sn-Ni ALLOY THIN FILM ANODES FOR LITHIUM ION BATTERIES*
- **Maria-Laura Soare**, Arcadii Sobetskii, Mihai Tudor Olaru, Marian Burada, Ionuț Constantin, Petre Capotă, Andreea Nicoleta Lupu, Mircea Corban, [IMNR](#) (Romania), *Sn-Ni THIN FILMS SYNTHESIS BY ELECTRON BEAM PHYSICAL VAPOR DEPOSITION*
- **Vasile Adrian Surdu**, Bogdan Ștefan Vasile, Alexandra Cătălina Bîrcă, Ionela Andreea Neacșu, Adrian Ionuț Nicoară, Roxana Doina Trușcă, [UPB](#) (Romania), *ZrB<sub>2</sub>-SiC COMPOSITE CERAMICS FOR ULTRA-HIGH-TEMPERATURE APPLICATIONS*
- **Hasan Hijji**, Yi Qin, [University of Strathclyde](#) (UK), *FORMING MICRO COMPONENTS FROM CERAMICS MATERIALS BY USING FAST PROCESS*

**21.11.2017 (Tue) DAY 2**

09.30 – 10.00 Registration

10.00 – 11.15 [Governmental inter-regional working group meeting in the field of advanced materials for extreme conditions \(Part 1\)](#)

- **Roxana Piticescu**, [IMNR](#) (Romania), *RESEARCH DIRECTIONS AT IMNR*
- **Monica Alexandru**, [Ministry of Research and Innovation](#) (Romania), *HORIZON 2020 WIDENING INSTRUMENT*
- **Dana Gheorghe**, [Politehnica University of Bucharest](#) (Romania), *FINANCING OPPORTUNITIES FOR R&D THROUGH EUROPEAN STRUCTURAL AND INVESTMENT FUNDS (FESI) BETWEEN 2014-2020*
- **Daniela Diaconu**, [ICN](#) (Romania) *PROJECT ALFRED*
- **Adriana-Gabriela Plăiașu**, Cătălin Ducu, [University of Pitești](#) (Romania), *MORPHOLOGICAL AND STRUCTURAL*

*CHARACTERIZATION OF TRANSITION METAL OXIDES  
NANOPOWDERS / UNIVERSITY OF PITESTI*

- 11.15 – 11.30 Coffee break
- 11.30 – 13.00 **Governmental inter-regional working group meeting in the field of advanced materials for extreme conditions (Part 2)**
- **Antonio Rinaldi**, **ENEA** (Italy)
  - **Alain Largeteau**, **ICMCB** (France)
  - **Peter Szakalos**, **KTH** (Sweden)
  - **Maria Dolores Romero Sanchez**, **INESCOP** (Spain)
  - **Nuno Manarte**, **FUNDINGBOX** (Spain)
- 13.00 – 14.00 Lunch break
- 14.00 – 15.15 **Governmental inter-regional working group meeting in the field of advanced materials for extreme conditions (Part 3)**
- **Flaviana Rotaru**, **FMMC** (Romania), **RO-HEALTH CLUSTER**
  - **Arcadie Sobetkii**, **MGM Star Construct** (Romania)
  - **Adriana Ștefan**, **INCAS** (Romania)
  - **Sorin Axinte**, **DAILY SOURCES & RESEARCH** (Romania)
- 15.15 – 15.30 Coffee break
- 15.30 – 16.30 **Networking / Conclusions / Discussions**
- *FUTURE PROJECT PARTNERSHIPS*

**22.11.2017 (Wed) DAY 3 (Project partners only)**

- 09.30 – 12.30 **SUPERMAT Project meeting**
- 12.30 – 13.30 Lunch break