



Invitation

Dear Colleague,

We would like to take this opportunity to inform you that University of Miskolc (UniMi), Institute of Physical Metallurgy, Metalforming and Nanotechnology has organizes a **International Scientific Seminar** on **“Soldering and testing of nanomaterials and nanocomposites”** on **18/05/2021**.

We would be highly honoured if you can spare some time to attend the seminar.

Please find **attached** the **agenda of the Nano-GINOP** (Hungarian Economic Development and Innovation Operational Programme) Seminar.

Participation is free, but **registration is required**. A publication **summarizing key results will be provided for the participant** at the beginning of June.

Online platform is zoom; the **zoom link will be sent to registered participants**.

We hope to welcome you among the participants.

Best regards,

Prof. Zoltan Gacsi
Chief of nano- GINOP Project

SZÉCHENYI 2020



Agenda 18 May 2021	
09.00-09.10h	Institutional Welcome <i>University of Miskolc, Institute of Physical Metallurgy, Metalforming and Nanotechnology (IPMMN)</i> <i>Dr. Valéria Mertinger (Director of IPMMN)</i>
09.10-09.30h	Overview of Nano-GINOP project <i>Dr. György Kaptay (Head of Nano-GINOP), IPMM</i>
Section 1 Thermodynamic testing of nanostructured materials	
09.30-9:50	Development of Nano-CALPHAD concept <i>Dr. György Kaptay (Professor), IPMMN</i>
9.50-10.10h	Development of Nano-CALPHAD Software <i>Ádám Végh (Research fellow), IPMMN</i>
Section 2 Nano-multilayer development	
10.10-10.30h	Preparation of multi nanolayered coatings <i>Dr. Péter Baumli (Associate professor), IPMMN</i>
10.30-10.50h	Thermal behaviour of the multi nanolayered structures and joining experiments <i>Máté Czagány (Research fellow), IPMMN</i>
Section 3 Production and brazing of nanocomposites	
10.50-11.10h	Production of Ti, Cu and Al based nanocomposites and their brazing possibilities <i>Dr. Mária Svéda (Senior research fellow), IPMMN</i>
Section 4 Brazing of nanostructured steels	
11.10-11.30h	Brazing of TWIP/TRIP steels with multi nanolayers <i>Dr. Márton Benke (Associate professor), IPMMN</i>
11.30-11.50h	Development of selective soldering tool materials with enhanced lifetime <i>Zsolt Sályi (Research fellow), IPMMN</i>
Section 5 Development and testing of nanocomposites	
11.50-12.10	The effect of ball to powder ratio on the processing of the Mo-Cu-Al₂O₃ nanocomposite <i>Dániel Pethő (Research fellow), IPMMN</i>
12.10-12.30	Development of solder composite with surface modified ceramic particle <i>Zoltán Gyökér (Research fellow), IPMMN</i>
12.30	Seminar closure