

Session Program

13-17 Sept 2021

**EUROPEAN CONGRESS AND EXHIBITION ON
ADVANCED MATERIALS AND PROCESSES -
EUROMAT 2021**

***C13_Wetting, high-temperature capillarity,
interface design & modeling***

Virtual

Wednesday 15 September

17:30

C13_Wetting, high-temperature capillarity, interface design & modeling: C13_1

Session | **Location:** Room 9

17:30–17:50

Optimal surface roughness of Ti6Al4V alloy for the adhesion of HEK293 human cells

Speaker

Boris Straumal

17:50–18:10

High frequency vibration driven contact angle modification

Speaker

Mr Jon Ander Sarasua Miranda

18:10–18:30

Assessment on the effectiveness of an APPJ treatment in improving the joint strength of joined CMC materials

Speaker

Alessandro De Zanet

18:30–18:50

Some aspects of high-temperature capillarity for locally reinforced iron-based composites

Speaker

Dr Łukasz Szymański

18:50–19:10

The impact of interface stress on the thermal degradation of Cu/W nano-multilayers

Speaker

Aleksandr Druzhinin

19:10

Thursday 16 September

09:50

C13_Wetting, high-temperature capillarity, interface design & modeling: C13_2

Session | Location: Room 9

09:50–10:10

Reactive Wetting and Interfacial Reactions between Liquid Al and Solid Ni: An Experimental Study

Speaker

Youqing Sun

10:10–10:30

Intermetallic nucleation and growth between liquid Al and solid Ni in a Wetting System: A Molecular Dynamics Study

Speaker

Mrs Ensieh Yousefi

10:30–10:50

Wetting and High Temperature Phase Interactions between Cf/SiC and Molten Transition Metal Disilicides

Speaker

Dr Peter Tatarko

10:50–11:10

The interface zone of Ni/Ti obtained with the use of explosion energy

Speaker

Prof. Joanna Wojewoda-Budka

11:10

11:50

C13_Wetting, high-temperature capillarity, interface design & modeling: C13_3

Session | Location: Room 9

11:50–12:30

Nanocomposite SAC solders: the effect of nano-sized metal (Co, Ni) and bimetallic (Co-Pd, Ni-Sn) admixtures on structure-sensitive properties of the SAC/Cu solder joints (Keynote)

Speaker

Prof. Yuriy Plevachuk

12:30–12:50

Wetting of grain boundary triple junctions by the second solid phase in Mg-based alloy EZ33A

Speaker

Prof. Boris Straumal

12:50–13:10

Liquid Al-Si12.5wt% in contact with candidate housing materials for thermal storage applications: Investigation of reactive wetting and identification of reaction products

Speaker

Ms Tina Gläsel

13:10–13:30

Ni-P and Ni-Re-P electroless deposited coatings: corrosion resistance and reactivity with liquid tin

Speaker

Fabrizio Valenza

13:30