

10.30 **Registration / Welcome Coffee**

11.00 **Opening**
RISE/Kupferverband

SUSTAINABLE FUTURE

11.15 **LEVEL(S) – framework for more sustainable buildings**
Marzio Traverso, RWTH Aachen

12.00 **Semis industry activities – towards a world with sustainable copper materials**
Ladji Tikana, Kupferverband

12.45 **Visions in the users world – green mobility in the automotove sector**
n.n.

13:15 **Lunch Break**

MATERIAL DESIGN & CHARACTERISATION (I) – Chair: Frank Mücklich

14.00 **Production of Polypropylen and Polyethylene Matrix Copper Reinforced Bio-composite and Investigation of Mechanical, Thermal and Morphologic Properties**
Ömer Alparslan Kaya, Saglam Metal San. ve Tic.

14.25 **Effect of Heat Treatment on Transformation Temperatures, Microstructure, Strength, and Deformation Behavior of a High Temperature Copper-based Shape Memory Alloy**
Christian Krancher, FGW – Forschungsgemeinschaft Werkzeuge und Werkstoffe

14.50 **Distribution of alloying elements and measurable shape memory effect of continuous cast copper aluminum alloy**
Benjamin Scheinberger, FGW – Forschungsgemeinschaft Werkzeuge und Werkstoffe

15.15 **Copper Wave Springs for Electromechanical Applications**
Jean Philipp & Andreas Frehn, KERN-LIEBERS Group of Companies and Materion Corporation

15.40 **Coffee Break**

MATERIAL DESIGN & CHARACTERISATION (II) – Chair: Michael Pohl

16.10 **Corrosion susceptibility of the CuZn35Pb1,5AlAs (CW625N) brass alloy in various environments**
Stanka Tomovic-Petrovic, SINTEF Manufacturing

16.35 **Corrosion resistance of lead-free brass alloys in contact with drinking water**
Theresa Klein, Institut für Korrosionsschutz Dresden GmbH

17.00 **Corrosion of lead-free brass alloys in drinking water and CuCl₂-solution**
Charlotta Obitz, RISE

17.25 **CuSn₄Zn₂PS – Lead Free Gunmetal for drinking water applications**
Martin Haake, REHAU SE & Co

EVENING GET TOGETHER

19.00 **Bus transfer to dinner location**

19.30 **Dinner at Industrieclub, Düsseldorf**

22.30 **Bus transfer to conference hotel**



8.30 **Welcome Coffee**

Parallel Session

CASTINGS AND PARAMETERS – Chair: Lorenzo Omodei

9.00 **Wettability of Copper and Copper Alloys on Industrial Filter Materials**

Celaida Gayle Gumban, Technische Universität Bergakademie Freiberg, Institute of Ceramics

9.25 **Overview of non-metallic inclusions in Copper and Copper Alloys**

Claudia Voigt, Technische Universität Bergakademie Freiberg, Institute of Ceramics

9.50 **Casting properties of lead free brass**

Joacim Hagström, Swerim

10:15 **Coffee Break**

MATERIAL ANALYSIS AN DIGITALISATION – Chair: Paola Piccardo

10.45 **Microstructure and crystallographic variations in different positions in OFP copper canisters for nuclear waste storage**

Joacim Hagström, Swerim

11.10 **Recrystallization model of oxygen-free phosphorus doped copper (Cu-OFP)**

Robert Sundström, Swerim

11.35 **Phase Transformations and Kinetic Simulations of Cu-based Alloys**

Shan jin, Thermo-Calc Software

12.00 **Development of an ontology for the life-cycle of copper and copper alloys**

Miriam Eisenbart, fem Forschungsinstitut Edelmetalle und Metallchemie

12.25 **Lunch Break**

MATERIAL PROCESSING – Chair: Jan-Erik Stahl

13.15 **Experimental optimization of tool geometry and lubricoolant supply in plunge milling of lead-free Brass**

Stefan Baier, Laboratory for Machine Tools and Production Engineering (WZL) at RWTH Aachen University

13.40 **Assessment and Comparison of the Machinability of Innovative Copper Alloys**

Christoph Zachert, Laboratory for Machine Tools and Production Engineering (WZL) at RWTH Aachen University

14.05 **Investigation of heat treatment to improve the machinability of lead-free brass alloy CW511L**

Magdalena Müller, Norwegian University of Science and Technology (NTNU)

14.30 **Analysis of CuSn8 components manufactured using the material jetting process**

Maximilian Plötz, Chair of Metal Forming and Casting TU Munich

14.55 **Closing / Goodbye Coffee**

RISE/Kupferverband

Parallel Session

JOINING PROCESSES – Chair: Inger Wallander

Innovative Laser Technologies for Copper Applications in eMobility

Mauritz Möller, TRUMPF Laser- und Systemtechnik GmbH

Efficient processing of copper and its alloys with blue diode laser

Luisa-Marie Heine, Laserline GmbH

Modern clad material systems for battery, charging and thermal management challenges in automotive electrification

Andreas Frehn, Materion Brush GmbH