



# INTERNATIONAL WROUGHT COPPER COUNCIL

**IWCC TECHNICAL SEMINAR 2020:  
THE LATEST INNOVATIONS IN COPPER PRODUCTS AND APPLICATIONS  
PAPERS LIST**

## **Monday 2 March**

### **Session 1: Introduction**

1. Overview of the Italian copper fabricating industry  
Speaker: Monica di Cosimo, Cu2 Consulting

### **Session 2: Information Technologies for Materials and Processes**

2. Optimized quality control through microstructural data mining and machine learning  
Speaker: Frank Mücklich, University of Saarbrücken
3. Accelerated development of advanced Cu-alloys, based on ICME Technologies  
Speaker: Aziz Asphahani, QuesTek Innovations
4. Inline stamping edge monitoring to reduce wearing of equipment  
Speaker: Maximilian Lorenz, University of Applied Sciences Kempten

### **Session 3: Innovations in Alloys, Foils and Coatings**

5. An overview of the requirements for copper materials for connectors  
Speaker: Robert Zauter, Wieland Werke
6. Copper alloys for 5G  
Speaker: Mr. Ji Qing, Xingye Copper
7. High performance Cu-Mg solid solution strengthened alloys  
Speaker: Dr. Hiroyuki Mori, Mitsubishi Materials Corporation
8. "GOFC" and "EFTEC-550" with superior heat-resisting properties  
Speaker: Kotaro Itazaki, Furukawa Electric Co., Ltd.
9. A copper alloy produced by environmentally friendly process and its application  
Speaker: Stephan Gross, Ningbo Powerway Alloy Material Co., Ltd.
10. High performance rolled copper alloy foils with enhanced strength and flex property  
Speaker: Katsuhiko Kudo, JX Nippon Mining and Metals Corporation
11. Following the environmental trends: From chrome-IV to chrome-III tubing applications  
Speaker: Panos Lolos, Halcor

## **Tuesday 3 March**

### **Session 4: Innovations in Joining and Additive Technologies**

12. Current developments in laser-welding of copper materials – different types  
Speaker: Philipp Skoda, Deutsches Kupferinstitut (DKI)
13. Copper based heat exchanger tubes: Improvement of design and manufacturing powered by visible laser  
Speaker: Mr. Ralf Egerer, Nexans
14. Opportunities and challenges in additive manufacturing of copper products: an overview  
Speaker: Uwe Hofmann, Wieland Werke
15. Material modification of copper materials due to fusion welding  
Speaker: Philipp Skoda, Deutsches Kupferinstitut (DKI)
16. Laser powder-bed fusion of copper products  
Speaker: Peter Böhlke, KME
17. Development in high-quality laser-welding by fiber laser with beam-mode controlled technology  
Speaker: Kazuyuki Umeno, Furukawa Electric Co., Ltd.

### **Session 5: Developments for Automotive Applications**

18. E-mobility and future trends in the use, demand and application of copper  
Speaker: Kim Kreisköther, PEM – RWTH Aachen University
19. E-storage and electric motors  
Speaker: Luke Gear, IDTechEx
20. Copper alloys for automotive applications – Limits and consequences of the material ban  
Speaker: Daniel Schwimmer, Audi

### **Session 6: International Lead Regulations**

21. Lead regulation in the USA: an overview  
Speaker: Carrie Claytor, Copper Development Association Inc.
22. Lead regulation in China: an overview  
Speaker: Ben Liu, International Copper Association, China
23. Lead regulation in Europe: an overview  
Speaker: Klaus Ockenfeld, Deutsches Kupferinstitut (DKI)

## **Session 7: Lead-Free Alloys**

24. Latest developments in lead-free alloys  
Speaker: Dr. Benjamin Cappi, Aurubis Stolberg
25. Lead-free copper alloys and the lead regulations applied to drinking water in Japan  
Speaker: Yoshiharu Kosaka, San-Etsu Metals Co., Ltd.
26. Lead-free alloy "ECO BRASS®"  
Speaker: Dr. Keiichiro Oishi, Mitsubishi Sindoh Co., Ltd.
27. Process design for improved productivity in machining of lead-free Cu-Zn alloys  
Speaker: Stefan Baier, RWTH Aachen University

6 February 2020