



INTERNATIONAL WROUGHT COPPER COUNCIL

IWCC TECHNICAL COMMITTEE

TECHNICAL SEMINAR 2019

DOWNSTREAM PROCESSES

PAPERS LIST: Version 10

The order and titles of the papers in this list are correct at the date of being published and are subject to change.

Monday 4 March

Session 1: Introduction

1. The copper industry in China
Speaker: Pan Hong, BGRIMM Lilan Consulting, Beijing

Session 2: Thermal treatments

2. Fully automatic operating cranes for bell-type annealing plants
Speaker: Peter Wendt, Tenova LOI
3. HICON SABER ® meets REVOLVER ® - A fully automated bell annealing facility
Speaker: Florian Oberreiter, Ebner
4. Comparison between vertical and catenary continuous annealing lines
Speaker: Klaus Schmitz, Otto-Junker

Refreshment break

5. Design principles for continuous heat treatment plants for thin and thick copper alloy strip and examples of plants in industrial production
Speaker: Thomas Kramer, WSP
6. Thermal treatments (Title to be confirmed)
Speaker: Andrew Keep, Inductoheat (Australia)
7. Continuous annealing and surface treatment of very thin copper alloy strips and foils
Speaker: Thomas Kramer, WSP

Lunch

Session 3: Surface Treatments and Technologies

8. Influence of surface pre-treatment on corrosion resistance of copper alloy for heat exchangers
Speaker: Tanaka Noriyuki, Dai-Dan Co., Ltd
9. Surface treatment and improvements, including latest developments in surface grinding
Speaker: Norman Ruckert, Osborn
10. Grinding, polishing and buffing in copper strip process
Speaker: Daisuke Kitamura, IKUTA
11. Tin Coatings on Copper and Copper Alloy Strip – Plating Options and Recent Improvements in Technology
Speaker: Dr. Ulrich Lorenz, Aurubis

Refreshment break

12. Latest developments in hot-dip tinning of copper alloy strips
Speaker: Jüegen Rosenfeld, Otto Junker
13. Effects of tin plating methods on the properties required for connector applications
Speaker: Yuta Sonoda, Dowa Metaltech Co., Ltd
14. Low Insertion force Reflow tin-plated copper alloy, “PIC plating”
Speaker: Kiyotaka Nakaya, Mitsubishi Materials Corporation
15. Optimisation of the Surface Quality for Conti-M® Strip
Speaker: Hendrik Busch, Mansfelder Kupfer und Messing GmbH

Tuesday 5 March

Session 4: Flatness improvement

16. New technologies for stretch bend levelling lines for thin materials of copper, stainless steel and special alloys
Speaker: Lutz Henrich, Schnutz GmbH
17. Challenges in the precision foil world and how to push the boundaries of manufacturing
Speaker: Thomas Booz, Schlenk Metallfolien GmbH & Co. KG
18. Shape measurement and flatness control on thin and ultra-thin strips
Speaker: Elke Roller, Vollmer

Refreshment break

Session 5: Slitting and Logistics

19. Beyond one's own nose: Minimising cold deformation during the slitting process of aluminum
Speaker: Detlef Neumann, Danieli Fröhling
20. Thin strip coiling systems, recoiling, slitting and how issues arise and can be countered
Speaker: Thomas Timmer, Achenbach
21. New slitting technologies and strip brake systems comparison between different systems and latest new features
Speaker: Lutz Henrich, Schnutz GmbH

Lunch

22. Operator independent analysis of circular knives for cracks and wearing
Speaker: Patrick Telders, IMESS
23. Robot autonomous forklifts in warehouse automation
Speaker: Jeremy Seah, BALYO

Refreshment break

Session 6: Measurement, inspection & testing

24. Assessment of heat treated strips with eddy currents
Speaker: Rainer Sailer, Institut Dr. Forester
25. Multi-Measurement-System for slit copper strip
Speaker: Dr. Stefan Theobald, Wieland
26. Data Driven Quality Assurance Solution for Rolling Mills
Speaker: Helga Evers, QuinLogic

Chair's closing remarks followed by refreshments

07 February 2019