



**INTERNATIONAL WROUGHT COPPER COUNCIL**

**TECHNICAL SEMINAR 2012  
COLD DEFORMATION  
MONDAY 5 MARCH & TUESDAY 6 MARCH  
PAPERS**

**Key Note Paper**

1. Novel strengthening mechanism of copper alloys, Seung Zeon Han, Korean Institute of Machinery & Materials

**Session 1 – Scientific Background**

2. Issues relating to environmental fracture in cold-deformed copper alloys, Sangshik Kim, Gyeongsang National University
3. Update on ICA technology developments, Hal Stillman, ICA
4. The impact of high cold deformation on precipitation hardened copper alloys, Xavier Sauvage, University of Rouen

**Session 2 – Cold Rolling**

5. Increasing the efficiency of new and revamped cold rolling mills, Rainer Neukant, Achenbach
6. Advanced control of flatness in copper/brass foil mills, Gilberto Pin, Danieli Automation S.p.A.
7. Forming profiles of copper and its alloys by rolling, Stefan Nixdorf, Bühler Würtz
8. Six-high rolling mills for rolling thin gauge copper strip, Cesare Pettazzi, MINO
9. Lubricants for cold drawing of tubes, G. Peuker, W. Dietz

**Session 3 – Cold Drawing**

10. New developments for drawing lines, Markus Ecker, SMS Meer
11. Investigation of the relation between the causes of wire breaks and wire diameter during fine wire drawing, Zeynep Sirel, Sarkuysan

Session 4 – Quality Control

12. Effects of aging parameters on the mechanical properties in Corson Alloy System with high contents of Ni and Si, Yoshimasa Takayama, Utsunomiya University

Session 5 – Fabricators

13. Bendability of copper alloy strip - different views, Uwe Hofmann, Wieland
14. Deformation rate and bending of strips, Hans-Guenter Wobker, KME Germany AG & Co. KG
15. Multi-directional cold forging of copper beryllium alloys, Naokuni Muramatsu, NGK
16. High performance copper alloy for tube and pipe, Do Hyun Kim, R&D Team, Poongsan
17. Status of high strength copper alloy tube in Japan, Akihiko Ishibashi, KMCT
18. Development of oxygen free copper based alloy wire on a continuous wire rod system, Hitoshi Nakamoto, Mitsubishi Material Corporation

13 February 2012