

IWCC TECHNICAL SEMINAR BANGKOK

28 FEBRUARY - 3 MARCH 2016

PROGRAMME AND DELEGATES ATTENDING

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HOTEL & MEETING INFORMATION

The Technical Seminar will be held at the Shangri-La Hotel Bangkok:

Shangri-La Hotel Bangkok 89 Soi Wat Suan Plu New Road Bangrak Bangkok 10500

Tel: +66 2236 7777

Credit & Charge Cards

The hotel accepts all major credit and charge cards.

Delegates for whom accommodation has been reserved at the Shangri-La Hotel Bangkok are requested to settle their accounts upon departure.

Please note the quoted bedroom rates include breakfast and internet access but exclude taxes (currently 17.7%).

Venues

The Technical Seminar will be held in Ballroom 1 of the Shangri-La hotel.

The venues for all other events are given in the programme.

SECRETARIAT

The following members of the IWCC Secretariat will be in attendance throughout the meeting:

Mark Loveitt – President Alastair Warner – Vice President Sian O'Brien – Conference Manager

INTERPRETATION ARRANGEMENTS

The Technical Seminar will be a four language meeting: English, Japanese, Korean and Mandarin Chinese. Simultaneous interpretation between all four languages will be provided.

IWCC TECHNICAL SEMINAR

CHALLENGES & SOLUTIONS APPLICATIONS AND PROCESSES FOR COPPER BASED SEMIS

Chairman of the Seminar

Gert Mueller Wieland-Werke AG

Vice President Metal

Speakers

Daichi Ashida Engineer

AutoNetworks Technologies, Ltd.

Chee Jin Bek Project Director, South East Asia

International Copper Association (ICA)

Peter Böhlke Head of Technology and Innovation Department

KME Germany GmbH & Co. KG

Pierre Burry Head of Research & Development

Gindre Duchavany S.A.

Hendrik Busch Manager Technology & Development

MKM Mansfelder Kupfer und Messing GmbH

Chong Siew Huat Sales Director

Ningbo Powerway Alloy Material Co., Ltd.

Bernd Friedrich Director

Institute of Process Metallurgy and Metal Recycling,

RWTH Aachen University

Christoph Haberling Team Leader, Life Cycle Assessment & Environmental

Properties Team

Audi AG

Takemi Isomatsu Researcher

Furukawa Electric Co., Ltd.

Jun Hong Kim Deputy Senior Manager, Casting Team

Poongsan Corporation

Anton Klassert CEC

Deutsches Kupferinstitut Berufsverband e.V. (DKI)

Yoshiharu Kousaka Managing Director, Engineering Division

San-etsu Metals Co., Ltd.

Kris Kosmala General Manager, Asia Pacific

Quintiq SDN BHD

Pascal Lepretre Electrotechnical Expert

Schneider-Electric

Timo Loos Director, Rod Plant

Aurubis AG

Masayasu Nishimura Senior Researcher

Kobe Steel, Ltd.

Takayuki Oka

Senior Manager Mitsubishi Shindoh Co., Ltd.

Stefan Priggemeyer Head of Department Corporate EHS & Standardization

Affairs

Wieland-Werke AG

Frank Rill

Partner UMS GmbH

General Manager Sales Copper Market SMS Group GmbH Patrick Schneider

Steffen Sigloch President Extruded Products

Mueller Industries, Inc.

Development Group, Manager Kitz Metal Works Corporation Hidenobu Tameda

Shinji Tanaka

Manager Mitsubishi Shindoh Co., Ltd.

Masahiko Wada

Secretary General Japan Copper Development Association (JCDA)

Delegates

Austria

ASMAG GmbH Johannes Sieberer-Kefer

Director, Technology and Strategy

Johann Vielhaber

CEO

Buntmetall Amstetten GmbH Anton Zierhut

Managing Director

China

Ningbo Powerway Alloy Material

Co., Ltd.

Chong Siew Huat Sales Director

Zhao Hongbin R&D Director

Ningbo Powerway Alloy Plate &

Strip Co., Ltd.

Hu Renchang

Technical Director

Powerway Group Co., Ltd. Lin Xiaofen

Manager

Zhejiang Hailiang Group Co., Ltd. Cao Jianguo

General Manager

Jiang Feng Manager

Finland

UPCAST OY

Janne Hosio Sales Manager

Matti Nordman Sales Director

France

Gindre Duchavany S.A. Pierre Burry

Head of Résearch & Development

Schneider-Electric Pascal Lepretre

Electrotechnical Expert

Germany

Audi AG

Christoph Haberling Team Leader, Life Cycle Assessment & Environmental Properties Team

Aurubis AG Michael Hoppe

Vice President, Operations & Technology

Development

Timo Loos

Director, Rod Plant

Aurubis Stolberg GmbH & Co. KG Helge Lehmann

Senior Manager, Global Technical

Marketing

Deutsches Kupferinstitut

Berufsverband e.V. (DKI) Anton Klassert

CEO

Diehl Metal Applications Michael Köhler

Director of Technology

KME Germany GmbH & Co. KG Peter Böhlke

Head of Technology and Innovation

Department

MKM Mansfelder Kupfer und

Messing GmbH

Max Brandt

Director Sales, Marketing and R&D

Hendrik Busch

Manager Technology & Development

Roland Harings

Chief Executive Officer (CEO)

Otto Junker GmbH Jan van Treek

Sales Manager Thermoprocessing Plants

for Extrusion Plants

RWTH Aachen University Bernd Friedrich

Director, Institute of Process Metallurgy and Metal Recycling, RWTH Aachen

University

SMS Group GmbH Patrick Schneider

General Manager Sales Copper Market

UMS GmbH Frank Rill

Partner

Wieland-Werke AG Ulrich Altstetter

Member of the Executive Board

Gert Mueller

Vice President Metal

Stefan Priggemeyer

Head of Department Corporate EHS &

Standardization Affairs

Greece

Halcor S.A. Apostolos Kaimenopoulos

Plant Manager

Panos Lolos

Commercial Director

India

Agrawal Metal Works Pvt Ltd, Deepak Sanghi

Deepak Sanghi General Manager

Arcotech Limited Rishabh Saraf

Director

Rashtriya Metal Industries Ltd. Balkrishna Binani

Managing Director

Italy

Trafilerie Carlo Gnutti S.p.A. Dario Gandaglia

Export Manager

Japan

AutoNetworks Technologies, Ltd. Daichi Ashida

Engineer

Furukawa Electric Co., Ltd. Takemi Isomatsu

Researcher

Harada Metal Industry Co., Ltd. Mario Harada

President

Japan Copper and Brass Association

(JCBA)

Teruo Kanamori

General Manager, Technical Division

Japan Copper Development

Association (JCDA)

Masahiko Wada Secretary General

Japan Wrought Copper Council

(JWCC)

Takanori Kamei Executive Director

Kitz Metal Works Corporation Koichi Hagiwara

Senior Adviser

Hidenobu Tameda

Development Group, Manager

Kobe Steel, Ltd. Masayasu Nishimura

Senior Researcher

Hiroshi Sakamoto

Manager

Kobelco & Materials Copper Tube, Ltd. Akinori Tsuchiya

General Manager, Technical Department

Metal Economics Research Institute,

Japan (MERI/J)

Yoshimasa Ohyama

Senior Analyst

Mitsubishi Shindoh Co., Ltd. Kazumasa Hori

President

Katsuhiko Masuda **Executive Advisor**

Takayuki Oka Seniór Manager

Shinji Tanaka Manager

San-etsu Metals Co., Ltd. Nobuyuki Ashie

Engineering Division, Manager

Masayuki Hirochi

Quality Control Division Chief Clerk

Yoshiharu Kousaka

Managing Director, Engineering Division

Toshinori Mori

Quality Control Division Assistant Manager

Nobuyuki Tsuriya

Sales Division Senior Vice President

Takateru Umeda

Advisor

Korea

Daechang Co., Ltd. EuiHan Yoon

R&D Director

Poongsan Corporation Min Jae Jeong

Research Engineer of Institute of Material

Technology Technology

Byung-Gon Kim

Director of Casting, Tubing & Extruding,

Coin Blank Production Team

Jun Hong Kim Deputy Senior Manager, Casting Team

Malaysia Quintiq SDN BHD Kris Kosmala General Manager, Asia Pacific **Singapore** International Copper Association, (ICA) Chee Jin Bek Project Director, South East Asia **Spain** La Farga Group Francesc Farriol Head of Engineering **Switzerland** Alfred Wertli AG Christian Wertli CEO **Thailand** Harry Park Sales Director Siam Poongsan Metal Co., Ltd. Je-Won Woo President **Turkey** Kayalar Bakır Ala ımları Cengiz Kaya Vice President San. ve Tic. A. . Sarbak Metal Tic. ve San. A. Hürkan Karata Extrusion & Drawing Unit Assistant Manager Tu han Özçamsirti Factory Manager Mete Tarhan Sarkuysan A. . **Tube Plant Chief United Kingdom** Rautomead Limited Brian Frame Managing Director

United States of America

Mueller Industries, Inc. Steffen Sigloch

Steffen Sigloch President Extruded Products

IWCC Consultant

Jean-Marie Welter

Interpreters

Nanae Fujiware Yoshiro Hidaka Ann Kao MinJee Kim Woo-Chul Lee Zhang Yunpeng

IWCC TECHNICAL SEMINAR PROGRAMME

CHALLENGES & SOLUTIONS APPLICATIONS AND PROCESSES FOR COPPER BASED SEMIS

Sunday 28 February

Bangkok City Tour

See page 15 for list of participants

1330 Depart Shangri-La hotel by river boat for the Grand Palace

Dress code for religious reasons: ladies must wear either long trousers or skirts that fall below the knee and shoulders must be covered. Gentlemen must wear long trousers and sleeved shirts

1630 Arrive Shangri-La hotel

IWCC Technical Committee

1700 to 1800

IWCC Technical Committee Meeting (Corundum Room 3rd Floor)

Please note this meeting is for IWCC Technical Committee members only.

Welcome Reception

1800 to 2000

Welcome Reception for all delegates to be held on the River Terrace (1st floor)

Monday 29 February

IWCC Technical Seminar – Challenges & Solutions Applications and Processes for Copper Based Semis

Venue: Ballroom 1

0900

Opening Remarks, Gert Mueller, Chairman IWCC Technical Seminar

Topic 1	General Overviews	
Paper 1.	The Thai copper industry: ASEAN copper flow model, Chee Jin Bek, International Copper Association (ICA)	
Paper 2.	Global megatrends, Jun Hong Kim, Poongsan Corporation	
Topic 2	Challenges from the End-user Market and Fabricator Solutions	
Paper 3.	Developments of aluminium wiring harnessing, Daichi Ashida, AutoNetworks Technologies, Ltd.	
Paper 4.	Fish cages, Shinji Tanaka, Mitsubishi Shindoh Co., Ltd.	

Refreshment Break

Paper 5.

Paper 6.

Microgroove tube, Masahiko Wada, Japan Copper Development Association (JDCA)

Properties required for lead frames and KOBELCO solutions, Masayasu Nishimura, Kobe Steel, Ltd.

	Paper 7.	Connections in power systems, Pascal Lepretre, Schneider Electric	
	Paper 8.	Requirements for copper and copper alloy strips for new connectors and Furukawa's solution, Takemi Isomatsu, Furukawa Electric Co., Ltd.	
1340 - 1440		Buffet Lunch	
	Topic 3	Improving Manufacturing Efficiency	
	Paper 9.	Comparison of modern process routes for the production of high quality copper tubes, Patrick Schneider, SMS Group GmbH	
	Paper 10.	Transformation to excellence – the driver for significant improvements of metallurgy business, Frank Rill, UMS GmbH	
	Paper 11.	How modern supply chain planning and optimization software from Quintiq can support copper and copper alloy semis fabricating industry, Kris Kosmala, Quintiq SDN BHD	
	Paper 12.	Methods of quality improvement in casting of wire rod, Timo Loos, Aurubis AG	
1640		Technical Seminar adjourns with refreshments	
	Industry Dir	nner	
1915	Depart Shangri-La hotel by coach		
2000	Dinner for all delegates at Baan Khanitha restaurant to be hosted by Siam Poongsan & Sumitomo Electric Industries, Ltd.		
2215	Depart restaurant		
2230	Arrive Shangri-La hotel		

Tuesday 1 March

IWCC Technical Seminar – Challenges & Solutions Applications and Processes for Copper Based Semis

Venue: Ballroom 1

0900

Opening Comments, Gert Mueller, Chairman IWCC Technical Seminar

Topic 3	Improving Manufacturing Efficiency – continued
Paper 13.	Conti M [®] technology – smart solution for the high efficient production of Cu-OFE strip, Hendrik Busch, MKM Mansfelder Kupfer und Messing GmbH
Paper 14.	Lifecycle analysis of copper components, Pierre Burry, Gindre Duchavany S.A.
Paper 15.	Manufacturing consolidation for tube production at KME, Peter Böhlke, KME Germany GmbH & Co. KG
	Refreshment Break
Topic 4	Environmental, Health & Sustainability Challenges
Paper 16.	The impact on copper alloys from environmental legislation, Stefan Priggemeyer, Wieland-Werke AG
Paper 17.	Leaded and lead free copper alloys for automotive applications, Christoph Haberling, Audi AG
Paper 18.	State of the art in removing lead from brass scrap, Bernd Friedrich, Institute of Process Metallurgy and Metal Recycling, RWTH Aachen University
Paper 19.	EcoBrass [®] , Takayuki Oka, Mitsubishi Shindoh Co., Ltd.
Paper 20.	Development of new low-lead brass material – KEEPALLOY® II, Hidenobu Tameda, Kitz Metal Works Corporation

1330 to 1430

Buffet Lunch

	Topic 5	Drinking Water Issues	
	Paper 21.	Drinking water regulations in Europe – challenges for manufacturing, Anton Klassert, Deutsches Kupferinstitut Berufsverband e.V. (DKI)	
	Paper 22.	U.S. drinking water lead regulations: impact on the brass industry, Steffen Sigloch, Mueller Industries, Inc.	
	Paper 23.	Environmental alloy development in Boway, Chong Siew Huat, Ningbo Powerway Alloy Material Co., Ltd.	
	Paper 24.	Japanese regulations concerning nickel in drinking water and the effects of regulation, Yoshiharu Kousaka, San-etsu Metals Co., Ltd.	
		Closing Remarks, Gert Mueller, Chairman IWCC Technical Seminar	
1640		Technical Seminar closes with refreshments	
	Dinner for a	II delegates	
1930	Depart Shangri-La hotel by coach		
2000	Arrive Blue Elephant restaurant for dinner		
2200	Depart restaurant		
2215	Arrive Shangri-La hotel		

PLANT VISIT PROGRAMME

Wednesday 2 March

Siam Poongsan Metal Co., Ltd.

See page 16 for list of participants.

0800 Depart Shangri-La hotel by coach

Arrive Siam Poongsan for introduction to the company followed by

plant tour

Lunch at Bangkapong Riverside Country Club

1530 Arrive Shangri-La hotel

Evening No formal arrangements

Thursday 3 March

SEI Thai Electric Conductor Co., Ltd. and Kobelco & Materials Copper Tube (Thailand) Co., Ltd. (KMCT)

See page 17 for list of participants

0745 Depart Shangri-La hotel by coach

Arrive SEI Thai Electric for introduction to the company followed by

plant tour

Lunch at Pattana Golf Club

Arrive KMCT for introduction to the company followed by plant tour

After the plant tour, there will be three coaches departing KMCT:

- two coaches will return direct to the Shangri-La hotel, arriving the Shangri-La hotel at 1800
- one coach will go to Suvarnabhumi Airport (BKK) only (for delegates leaving late evening), arriving BKK at 1800

Evening No formal arrangements

Departure of delegates

Participants

City Tour - 28 February

Ulrich Altstetter Nobuyuki Ashie Peter Böhlke Max Brandt Hendrik Busch Cao Jianguo Chong Siew Huat Francesc Farriol Brian Frame Christoph Haberling Roland Harings Masayuki Hirochi Michael Hoppe Hu Renchang Takemi Isomatsu Jiang Feng Cheena Jain Takanori Kamei Teruo Kanamori Hürkan Karatas Cengiz Kaya Michael Köhler Yoshiharu Kousaka Pascal Lepretre
Lin Xiaofen
Panos Lolos
Mark Loveitt
Toshinori Mori
Gert Mueller
Masayasu Nishimura
Sian O'Brien
Tu han Özçamsirti
Stefan Priggemeyer
Hiroshi Sakamoto
Deepak Sanghi
Rishabh Saraf
Patrick Schneider
Steffen Sigloch
Mete Tarhan
Jan van Treek
Nobuyuki Tsuriya
Takateru Umeda
Alastair Warner
Jean-Marie Welter
Christian Wertli
Zhao Hongbin

Plant Visit Poongsan – 2 March

Ulrich Altstetter Nobuyuki Ashie Chee Jin Bek Balkrishna Binani Peter Böhlke Pierre Burry Hendrik Busch Cao Jianguo Chong Siew Huat Francesc Farriol Brian Frame Bernd Friedrich Christoph Haberling Koichi Hagiwara Mario Harada Roland Harings Masayuki Hirochi Michael Hoppe Kazumasa Hori Hu Renchang Takemi Isomatsu Min Jae Jeong Jiang Feng Apostolos Kaimenopoulos Takanori Kamei Teruo Kanamori Hürkan Karatas Cengiz Kaya Byung-Gon Kim Jun Hong Kim Anton Klassert Michael Köhler Yoshiharu Kousaka

Helge Lehmann

Pascal Lepretre Lin Xiaofen Panos Lolos Timo Loos Mark Loveitt Katsuhiko Masuda Toshinori Mori Gert Mueller Masayasu Nishimura Sian O'Brien Yoshimasa Ohyama Takayuki Oka Tu han Özçamsirti Stefan Priggemeyer Hiroshi Sakamoto Deepak Sanghi Rishabh Saraf Johannes Sieberer-Kefer Steffen Sigloch Hidenobu Tameda Shinji Tanaka Mete Tarhan Jan van Treek Akinori Tsuchiya Nobuyuki Tsuriya Takateru Umeda Johann Vielhaber Masahiko Wada Alastair Warner Jean-Marie Welter Christian Wertli EuiHan Yoon Zhao Hongbin Anton Zierhut

Plant Visit SEI Thai Electric & KMCT - 3 March

Ulrich Altstetter Nobuyuki Ashie Chee Jin Bek Peter Böhlke Pierre Burry Hendrik Busch Cao Jianguo Chong Siew Huat Francesc Farriol Brian Frame Roland Harings Masayuki Hirochi Michael Hoppe Janne Hosio Hu Renchang Takemi Isomatsu Min Jae Jeong Jiang Feng
Apostolos Kaimenopoulos
Takanori Kamei
Teruo Kanamori
Hürkan Karatas Cengiz Kaya Byung-Gon Kim Jun Hong Kim Anton Klassert

Michael Köhler

Yoshiharu Kousaka Helge Lehmann Pascal Lepretre

Lin Xiaofen Panos Lolos Timo Loos Mark Loveitt Toshinori Mori Gert Mueller Matti Nordman Sian O'Brien Yoshimasa Ohyama Takayuki Oka Tu han Özçamsirti Harry Park
Stefan Priggemeyer
Johannes Sieberer-Kefer
Steffen Sigloch
Shinji Tanaka
Mete Tarhan Jan van Treek Akinori Tsuchiya Takateru Umeda Johann Vielhaber Masahiko Wada Alastair Warner Jean-Marie Welter Christian Wertli Je-Won Woo Zhao Hongbin Anton Zierhut

LOCATIONS & TOPICS FOR PREVIOUS TECHNICAL SEMINARS

1984 1985 1986 1987 1988 1989 1990	s'Hertogenbosch Berne Florence Chester Baden bei Wien Paris Tokyo Hannover	Casting Extrusion & Hot Rolling The Cold Rolling of Flat Products The Cold Drawing of Round Products Annealing The Finishing of Flat Products New Products & Processes The Finishing of Round Products and
1992 1993 1994 1995 1996	Lisbon Pori Krakow Maastricht Cordoba	Quality Certification Control Scrap Recycling & the Environment Degreasing The Packaging of Semi-Manufactures Casting The Production of Flat Products - from Hot Rolling to Finishing
1997 1998 1999	Singapore Ulm Castelvecchio	Advanced Transformation Technologies Cutting & Slitting
2000 2001	Pascoli Buffalo Paris	Copper – The Metal for the New Millennium Fabrication of drawn and extruded products Conventional and Advanced Technologies for the production of rolled products.
2002	Seoul	for the production of rolled products Copper Tube – Production, Performance
2003 2004 2005	Denizli Basel Tokyo	and Properties Melting and Casting Heat and Surface Treatment New Materials and Applications for Copper
2007	Shanghai	and Copper Alloys Forming of Copper and Copper Alloys – Theory and Practice
2008 2009 2010	Chicago Barcelona Athens	Sheet and Strip for Modern Applications Melting and Casting Hot Deformation of Copper and Copper
2011 2012 2013 2014 2015 2016	Kuala Lumpur Seoul Santiago Mumbai Istanbul Bangkok	Alloys Finishing & Products Casting Melting, Refining & Casting Rolling – Flat & Other Products Extrusion Challenges & Solutions: Applications and Processes for Copper Based Semis