

PROGRAM

• Monday, April 24th [DAY1] •

Opening remarks

9:00-9:03

Qifu Zhang (Chairman, Asia Pacific General Galvanizers Association)

Welcome remarks

9:03-9:05

Yasuaki Negami (Chairman, Japan Galvanizers Association)

Special Lecture

9:05-9:20

APGGC Missions: Past and Future

Robert S Xiao (Chairman, the Galvanizing Association of Taiwan)

Keynote Lecture 1

9:20-9:40

Japanese government's action towards Carbon neutral society and Resource-Autonomous Circular Economy

Daisuke Matsuno (Metal Industries Division, Ministry of Economy, Trade and Industry)

Keynote Lecture 2

9:40-10:00

Hot Dip Galvanizing – an excellent example for Circularity

Martin Kopf (Zinkpower / EGGA / German and Austrian Galvanizing Association)

Keynote Lecture 3

10:00-10:20

The role and value of HDG steel for society

Martin van Leeuwen (Technology and Market Development, International Zinc Association)

Keynote Lecture 4

10:20-10:40

Durability design method for corrosion of reinforced concrete structures using galvanized steel bars

Yoshikazu Akira (Kagoshima University)

Break & Booth visit

10:40-11:30

Session 1: Environmental Issues (P1-P43)

11:30-12:30

GALVANIZING FURNACES, THE GAS DILEMMA

Rob White (Wedone Thermprocess, Shanghai, China)

The prospect of hydrogen combustion application in the hot-dip galvanized industry under the goal of "carbon-neutral" in China

Tian Lan (Wedone Thermprocess (Shanghai) Co., Ltd, Shanghai, China)

Advantages of Sustainability-oriented Equipment and Digital Transformation Synergies in Hot-Dip Galvanizing

Marco Bozzi (GIMECO IMPIANTI s.r.l.)

Speaker : Federico Sanvito

Lunch

12:30-13:30

Session 1: Environmental Issues (continued) (P45-P54)

13:30-13:50

New Environmental Regulatory Framework for Galvanizing Plants in Europe
Murray Cook (European General Galvanizers Association)
Speaker : Vasile Rus

Session 2: Furnace & Process Innovation (P55-P109)

13:50-15:10

Update on Hasco Smart Firing™: Case Studies with Added Challenges
Xinyi Liu (HASCO THERMIC LTD)

The carbon neutral technology trend and the future in hot dip galvanizing furnace
Kenji Yanase (SANKEN SANGYO CO., LTD.)
Speaker : Shin Takeda

Waste Heat Utilization of Hot-dip Galvanizing
Jiantang Hao (Bonan Technology)

Reduction of molten zinc corrosion of batch hot-dip galvanizing hooks thanks to zincophobic coatings
Aleksandra Cieplak (Univ. Lille, CNRS, INRAE, Centrale Lille, UMR 8207 - UMET - Unité Matériaux et Transformations, France)

Break

15:10-15:40

Session 2: Furnace & Process Innovation (continued) (P111-P161)

15:40-17:00

SURFACE TENSION: A KEY PARAMETER FOR EFFECTIVE SURFACE PREPARATION FOR GALVANIZING
Mahandran Perumal (METALS & CHEMICALS TECHNOLOGY)

DEVELOPMENT OF A PASSIVATION WITH MAXIMUM ENVIRONMENTAL COMPATIBILITY-HYBRID PASSIVATION
Bjoem Haupt (METALS & CHEMICALS TECHNOLOGY)
Speaker : Mahandran Perumal

Development of Chrome-free coating agent ASAHI COAT NB for hot-dip galvanized steel
Kazuki Sawai (Research and Development, Asahi Chemical Co.,Ltd.)

Strength of SHS Column to Beam Connections with Holes for Hot-dip Galvanizing in Through Diaphragms
Ilsu Park (Kobe University)

Announcement from Intergalva 2024

● **Tuesday, April 25th [DAY2]** ●

Session 3: Market Development and Expanding application of HDG (P163-P191) 8:50-9:50

LME Zinc: Managing price volatility and sustainability

Edric Koh (London Metal Exchange)

ASIA PACIFIC ZINC MARKET DEVELOPMENT

Banu Nargis (GALVANIZERS ASSOCIATION OF MALAYSIA / RICHKER METALS / INTERNATIONAL ZINC ASSOCIATION)

Status and Progress of General Galvanizing Industry in China

Qifu Zhang (China Iron & Steel Research Institute Group, Beijing, China)

Break

9:50-10:20

Session 3: Market Development and Expanding application of HDG (continued) (P193-P221) 10:20-11:00

The Hot-Dip Zn-Al-Mg Alloy Plating And Reproducing Plating

Toshihiko Morooka (KOWA KOGYOSHO Co., LTD.)

HOT-DIP GALVANIZING OF HIGH STRENGTH STEEL COMPONENTS AND ITS IMPACT ON THE FIRE RESISTANCE OF STEEL STRUCTURES

Ronny Kühne (RWTH Aachen University, Institute of Steel Construction, Aachen, Germany)

Speaker : Mirabela Firan

Session 4: Corrosion Performance (P223-P263)

11:00-11:40

Corrosion Structural Maintenance Evaluation of Hot Dip Galvanized Transmission Towers

Jiin-Rong Cheng (Galvanizing Association of Taiwan / Linh Kang Industrial CO., LTD / Taiwan Galvanizing CO., LTD./ Taiwan Power Research Institute, Taiwan power Company.)

Investigation of the High-Strength Steel Bars with the Different Galvanized Thicknesses

Keng-Ta Lin (Department of Civil and Environmental Engineering, National Kaohsiung University)

Lunch

11:40-13:00

Session 4: Corrosion Performance (continued) (P265-P324)

13:00-14:20

Painting performance on hot-dip zinc-aluminum alloy galvanized coatings

Takashi Kondo (TANAKA GALVANIZING CO., LTD)

Atmospheric Corrosion Test of Structural Steel Coated by Different Materials in Thailand

Bunya Chea (School of Civil Engineering and Technology, Sirindhorn International Institute of Technology, Thammasat University / Thailand Graduate School of Engineering, Hokkaido University, Japan)

Speaker : Taweep Chaisomphob

An Evaluation on Anti-corrosion Effect of Hot-dip Galvanized Steel Bar in Concrete

Hongbok Choe (Department of Architecture, Faculty of Science and Technology, Tokyo University of Science)

Case introduction and effect tracking of hot-dip galvanized steel bridge in Taiwan

Yew-Tsang Lin (TG CO., LTD.)

Break

14:20-15:10

Session 4: Corrosion Performance (continued) (P325-P353)

15:10-15:50

Corrosion resistance of Galvanized Steel Bars in Concrete

Hiroto Tomiyoshi (Kagoshima University)

Influence of Trace Metals in Galvanizing on Corrosion Resistance of Plating Film

Madoka Imahase (Kagoshima University)

Session 5: Information Technology & Automation (P355-P383)

15:50-16:50

What You See is What You Get

—Application of VR technology in the design and construction of hot dip galvanizing production line

Shihchia Chen (Weifang Xinbeihai Hot Dip Galvanizing Equipment Co.,Ltd., Taiwan)

Application of Remote Commissioning and Maintenance in General Hot Dip Galvanizing furnace

Huapeng Yuan (Dalian Shangli Technology Co.,Ltd)

Speaker : Wenbo Xu

Highest surface quality in galvanizing lines powered by multiple views and artificial intelligence

Dominik Recker (ISRA Parsytec GmbH)

Speaker : Kohei Ogura