

ALMA Forum 2023

Program

Date: 11 November, 2023

Venue: Tokyo Metropolitan University Minami-Osawa Campus,
Minami-Osawa, Hachioji-shi, Tokyo Japan

Opening Ceremony

*Chairperson: Prof. Masahiro Kubota (Nihon University, International Communication Committee of Japan
Institute of Light Metals, Japan)*

9:00 *Opening Address*

Prof. Shigeru Kuramoto (Ibaraki University, Chair of ALMA and Chair of International
Communication Committee of Japan Institute of Light Metals, Japan)

Session 1

Chairperson: Dr. Ho Lin Tsai (Metal Industries Research & Development Centre, Taiwan)

9:05 *Adding Value Through Innovation in Light Metals Casting*

Prof. Roger Lumley (AW Bell & Materials Australia, Australia)

9:35 *Development of Conform Technology for Light Metal in China*

Assoc. Prof. Jiuyang Pei (Dalian Jiaotong University, China)

10:05 *Electropulsing Treatments for Lightweight Metals*

Assoc. Prof. Taekyung Lee (Pusan National University, Korea)

10:35 Coffee Break (10:35 – 10:45)

Session 2

Chairperson: Prof. Gaowu Qin (Northeastern University, China)

10:45 *Aluminum Recycling Techniques and Industrial Applications in Taiwan*

Dr. Ho Lin Tsai (Metal Industries Research & Development Centre, Taiwan)

11:15 *Low Environmentally Impact Aluminum Manufacturing Process via Ionic Liquid Electrolytes*

Dr. Yoichi Kojima (UACJ Corporation, Japan)

11:45 *Additive Manufacturing in Australia and the Role of Light Metals*

Assoc. Prof. Andrey Molotnikov (RMIT University, Australia)

12:15 Lunch (12:15-13:15)

Session 3

Chairperson: Prof. Roger Lumley (AW Bell & Materials Australia, Australia)

15:10 *Ultrafine Grains, High Strength and Ductility of Wrought Magnesium Alloys Achieved by Grain Boundary Segregation Engineering*

Prof. Gaowu Qin (Northeastern University, China)

15:40 *Effects of Nanocluster Formation on Multi-Step Aging Behavior in Al-Mg-Si Alloys*

Dr. JaeHwang Kim (Korea Institute of Industrial Technology, Korea)

16:10 *Synergy of Strengthening Mechanism of Integrated Computational Materials Engineering Assisted 3D Printing High Strength Al-Sc Alloy*

Assist. Prof. Che-Nan Kuo (National Sun Yat-Sen University, Taiwan)

16:40 *Development of Flame-Retardant Wrought Magnesium Alloys and Those Application To High-Speed Railway Body*

Dr. Yasumasa Chino (National Institute of Advanced Industrial Science and Technology, Japan)

Kazunori Shimizu (Sankyo Tateyama, Inc.), **Hironori Ueda** (Fuji Light Metal Co., Ltd.)

Takeshi Ishikawa (Japan Transport Engineering Company) and

Makoto Taguchi (Kawasaki Railcar Manufacturing Co., Ltd.)

Closing Ceremony

Chairperson: Prof. Toshiya Shibayanagi (Toyama University, Vice Chair of the International Communication Committee of Japan Institute of Light Metals, Japan)

17:20 *Honoring Ceremony and Group Photo*

17:50 *Closing Address*

Prof. Toshiji Mukai (Kobe University, Vice Chair of the International Communication Committee of Japan Institute of Light Metals, Japan)