

The 14th Asian Workshop on Micro/Nano Forming Technology (AWMFT2023) and The 4th Asian Pacific Symposium on Technology of Plasticity (APSTP2023)

Skybay Hotel Gyeongpo, Gangneung, South Korea, May 15–19, 2023

<https://awmft-apstp2023.kstp.or.kr/>

Background

The Asian Micro/Nano Forming Technology Workshop (AWMFT) is a part of an exchange program organized by CSTP (China Society for Technology of Plasticity), JSTP (Japan Society for Technology of Plasticity), KSTP (The Korean Society for Technology of Plasticity and materials processing), and TSTP (Taiwanese Society for Technology of Plasticity). The workshop provides a chance for academics, researchers, and engineers to meet and exchange information on all aspects of micro/nano forming technology. The 1st workshop was held in 2007 simultaneously with the 57th Japanese Joint Conference for the Technology of Plasticity in Hokkaido, Japan. It continued in Chang Sha, China (2nd, 2009), in Jeju, Korea (3rd, 2010), in Toyohashi, Japan (4th, 2011), in Harbin, China (5th, 2012), in Jeju, Korea (6th, 2013), in Taipei, Taiwan (7th, 2014), in Nagano, Japan (8th, 2015), in Jinan, China (9th, 2016), in Pohang, Korea (10th, 2017), in Yunlin, Taiwan (11th, 2018), in Tokyo, Japan (12th, 2019), and in Shanghai, China (13th, 2021). KSTP will organize the 14th workshop in the Gangneung city, famous for coffee, sunrise and sea scenery in South Korea.

The Asian Pacific Symposium on Technology of Plasticity (APSTP) aims to provide an opportunity to discuss and technology of plasticity as well as new technology developments. We assure that you will find your participation a rewarding experience for broadening your academic knowledge and for serving your personal needs.

Objectives

The AWMFT aims to provide an opportunity to discuss and exchange ideas on new applications for nano/micro forming as well as new technology developments. We assure that you will find your participation a rewarding experience for broadening your academic knowledge and for serving your personal needs. Several awards are planned for Young Scientists.

Areas of special interest for discussion include:

- Micro/nano forming processing and application
- Micro/nano scale effect
- Micro/nano forming equipment and simulation
- Measuring and controlling of micro/nano forming
- Preparation, formability, and properties of micro/nano materials
- Nanocrystallization and Nanomechanics

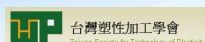
Also for the case of APSTP, areas of special interest for discussion include:

- Processes Forging, Drawing, Roll Forming, Joining by Forming, Rolling, Stamping, Incremental Forming, Rapid prototyping, Extrusion, Hydroforming, Micro Forming, New Processes
- Technology Green Manufacturing, Economy and Ecology Machines, Tools and Dies,
- Tribology Lubricant, Wear Behaviors, Surface Treatments and Coating
- Material Ultra High Strength Steels, Shape Memory Alloys, Lightweight Metals, Biomaterials
- Material Testing, Material Characterization, Formability, Damage, and Failure Analysis
- Methods Analytical, Numerical, Statistical, Process Control
- Measurement Dimensional Measurement Surface Measurement and Characterization Machine Tool Metrology Modern Optics and Instruments for Precision Measurement in Metal Forming In-Process and On-Line Measurement

Leading Organization



Co-organization



Main Sponsor



- Manufacturing Management Quality and Reliability Quality Engineering Theory and Technology
- Robotics and Automation Mechatronics and Control Machine Vision and Image Processing for Metal Forming Embedded Systems and Applications Technologies for Optical and Photoelectric Devices/Systems Artificial Intelligence for Manufacturing DFX (Design for Assembly, Manufacturing or etc.)
- Smart Manufacturing Technology in Metal Forming
- Industry 4.0 in Metal Forming
- Others

Tentative Workshop/Symposium Schedules

- 15/05/2023, Mon. : Registration and welcome party
- 16/05/2023, Tue. : Workshop/Symposium day 1
- 17/05/2023, Wed.: Workshop day 2 including banquet.
- 18/05/2023, Thu. : Conference Tour
- 19/05/2023, Fra. : KSTP 2023 spring meeting/Individual departure

Important Dates

- ~~February 24, 2023~~ March 17, 2023 Submission of an abstract (max 400 words)
- ~~March 10, 2023~~ March 24, 2023 Acceptance of Abstract
- April 15, 2023 Submission of the extended abstract (max 2 pages)
- April 30, 2023 Payment Deadline for Author
(for participant, no payment deadline)

Abstract Submission

Authors should submit their abstracts by e-mail to awmft_apstp_2023@kims.re.kr. The length of abstract words is limited to 400 words. The official language for the conference is English. At least one author of each paper MUST register and present at the workshop/symposium for abstracts to be included in the proceedings. Accepted abstracts will be published in the conference proceedings.

Registration fee

Early registration: 350 US\$ for regular participants and 250 US\$ for students

Late registration: 400 US\$ for regular participants and 300 US\$ for students

**The registration fee covers Proceedings, Welcoming party, Lunch, Banquet, and Tour.*

International Steering Committee

Prof. Debin Shan, Harbin Institute of Technology (China)

Prof. Ming Yang, Tokyo Metropolitan University (Japan)

Prof. Hyoung Seop Kim, POSTECH (Korea)

Prof. Yeong-Maw Hwang, Taiwan Sun Yat-sen University (Taiwan)

Conference Chair

Prof. Heon Young Kim, Kangwon National University (Korea)

Dr. Kwang Seok Lee, Korea Institute of Materials Science (Korea)

Organizing Committee

Chinese members of organizing committee

De-Bin Shan (HIT), Kai-Feng Zhang (HIT), Xin Lu (BRIMET), De-Qing Mei (ZJU), Shi-Hong Zhang (CAS-IMR), Bing Guo (HIT), Xue-Ping Reng (USTB), Jian-Jun Li (HUST), Ke-Fu Yao (Tsinghua Univ.), Ming-Wang Fu (Hong Kong Polytechnic Univ.), Xin-Min Lai (SJTU), Yue-Peng Song (SDAU), Le-Hua Qi (NWPU), Guang-Chun Wang (SDU), Chun-Ju Wang (Suda), Lin-Fa Peng (SJTU), Tian-Feng Zhou (BIT), Guo-Qing Chen (DUT), Yun Wang (JSU), Jie Xu (HIT)

Japanese members of organizing committee

Y Takashi Kuboki (The University of Electro-Communications), Kazuhiko Kitamura (Nagoya Inst. Tech.), Jun Yanagimoto (Tokyo Univ.), Hiroshi Utsunomiya (Osaka Univ.), Ming Yang (Tokyo Metropolitan Univ.), Tomomi Shiratori (Toyama Univ.), Zhigang Wang (Gifu Univ.), Ryo Matsumoto (Osaka Univ.), Susumu Takahashi (Nihon Univ.), Toshihiko Kuwabara (Tokyo Univ. of Agr. and Tech.), Yoshinori Yoshida (Gifu Uni.)

Korean members of organizing committee

Hyoung Seop Kim (POSTECH), Heung Nam Han (Seoul National Univ.), Young-Seon Lee (KIMS), Jeong Whan Yoon (KAIST), Yeonsik Kang (POSCO), Hyo Tae Jeong (GWNNU), Shi-Hoon Choi (Sunchon National Univ.), Kyounghoon Lee (Solution-lab), Kee-Ahn Lee (Inha Univ.), Yong Nam Kwon (KIMS), Jae-il Jang (Hanyang Univ.), Seong-Hoon Kang (KIMS), Myoung Gyu Lee (Seoul National Univ.), Byoungchul Hwang (Seoul National University of Science and Technology), Jeoung Han Kim (Hanbat National Univ.), Jung Han Song (KITECH)

Taiwanese members of organizing committee

Jong-Ning Aoh (National Chung Cheng Univ.), Fuh-Kuo Chen (National Taiwan Univ.), Yeong-Maw Hwang (National Sun Yat-Sen Univ.), Cho-Pei Jiang (National Taipei University of Technology), Rong-Shean Lee (National Cheng Kung Univ.), Jinn-Jong Sheu (National Kaohsiung University of Science and Technology), Kuang-Jau Fann (National Chung Hsing Univ.)

Secretariat

General : Dr. Da-Seul Shin

Workshop/Symposium : Ms. Da Young Kim

E-mail: awmft_apstp_2023@kims.re.kr

Organized and Sponsored by

China Society for Technology for Plasticity (CSTP)

Japan Society for Technology for Plasticity (JSTP)

The Korean Society for Technology of Plasticity and materials processing (KSTP)

Taiwanese Society for Technology for Plasticity (TSTP)

Conference Venue

Skybay Hotel Gyeongpo, Gangneung-si, Gangwon-do, South Korea

<https://skybay.co.kr/>

<https://visitgangneung.net/en/index.do>