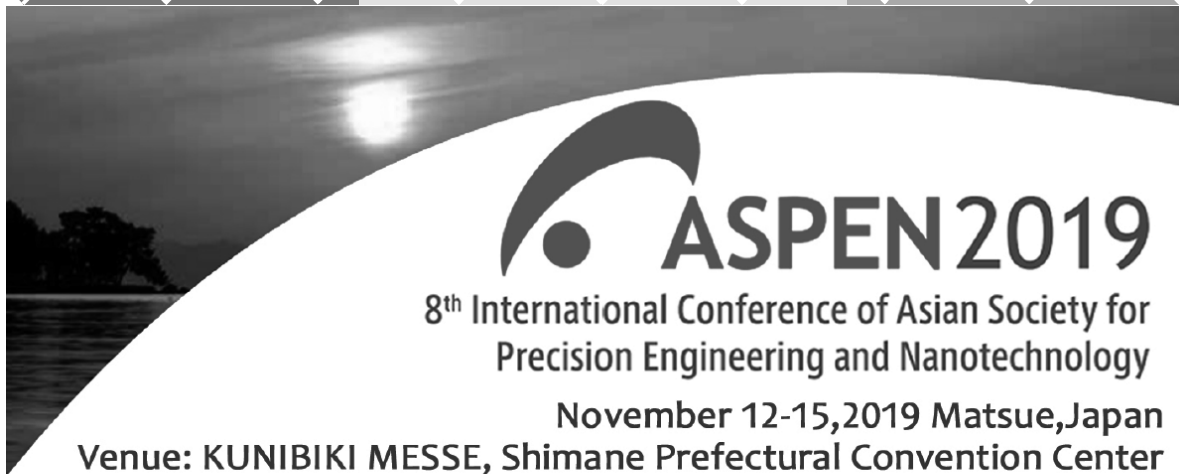




The Japan Society for Precision Engineering



ASPEN 2019

8th International Conference of Asian Society for Precision Engineering and Nanotechnology

November 12-15, 2019 Matsue, Japan

Venue: KUNIBIKI MESSE, Shimane Prefectural Convention Center

Organized by

Japan Society for Precision Engineering (JSPE)

Co-organized by

Chinese Mechanical Engineering Society (CMES)

Korean Society for Precision Engineering (KSPE)

Taiwan Society for Precision Engineering (TSPE)

Conference Topics

Additive Manufacturing System
 Automation and Robotics
 Bio/Medical Applications
 Die Manufacturing Processes
 Green Manufacturing
 High Speed and Precision Machining
 IoT/AI/Big data
 Manufacturing Systems and Machine Tools
 Mechatronics
 MEMS/NEMS
 Metrology
 Micro/Nano Fabrication Processes
 Molding and Forming Technology
 Nano/Bio Technology
 Non-traditional Manufacturing Processes
 Optical Applications
 Precision Machine Design
 Service Engineering
 Surface Properties and Characterization
 Other Topics Related to Precision Engineering

Important date

Abstract submission -----Apr. 30, 2019
 Notification of abstract acceptance -----May 30, 2019
 Extended abstract* submission -----Jul. 15, 2019
 Notification of final acceptance -----Aug. 31, 2019
 Early registration -----Sep. 15, 2019
 Welcome reception -----Nov. 12, 2019
 Conference -----Nov. 13-14, 2019
 Technical tour -----Nov. 15, 2019

*Extended abstract: Authors of accepted abstracts must submit extended abstract to ASPEN 2019. The extended abstracts should be written in English and 2-4 pages including text, figures, tables and references. ASPEN will not require copyright transfer for accepted extended abstract and the author retains copyright.

Conference Committee

Conference chair: Prof. Kiyoshi Takamasu (The Univ. of Tokyo, Japan)
 Conference secretary: Prof. Satoru Takahashi (The Univ. of Tokyo, Japan)
 Program chair: Prof. Hirofumi Hidai (Chiba Univ., Japan)



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Report of 17th International Conference on Precision Engineering (ICPE2018)

The 17th International Conference on Precision Engineering (ICPE2018) was held on Nov. 12th through 16th, 2018 in Kamakura City, Kanagawa, Japan. ICPE is the principal international conference of the Japan Society of Precision Engineering (JSPE) and is held every other year.



Welcome address from the conference chair, Dr. Yoshiharu Inaba (FANUC Corporation, Japan)

ICPE2018 consisted of plenary sessions and oral sessions. 295 researchers and engineers from 10 countries, including France, Germany, Sweden, UK, and Asian countries, attended the conference.

Four distinguished speakers, Emeritus Prof. Shinji Shimizu (Sophia Univ., Japan), Prof. Haedo Jeong (Pusan National Univ., Korea), Dr. Junichi Tsuji (AIST, Japan), and Dr. Jan Braasch (HEIDENHAIN GmbH, Germany) gave their excellent talks in the plenary sessions. The plenary speeches were open to everyone.



Plenary speech by Dr. Junichi Tsuji (AIST, Japan)

A total of 201 academic contributions were presented in four parallel oral sessions. The topics cover diverse fields closely related to precision engineering such as precision machining technologies, machine tool, metrology, manufacturing system, additive manufacturing, and so on.



Mt. Fuji and Enoshima from the venue

On Nov. 12th, 1st JSPE Affiliate Workshop was organized to establish a platform of the worldwide personal exchange for young researchers and engineers in the field of precision engineering. Young invited speakers who have accomplished excellent research outcomes gave special lectures. Dr. Haydn Martin (University of Huddersfield) and Dr. Kang Ni (The Timken Company) were invited as the speakers through **euspen** and ASPE respectively.

At the banquet held on Nov. 14th, attendees enjoyed delicious food and a traditional Japanese music "Tsugaru-shamisen". Best paper awards given to 9 papers and 10 winners of young researcher awards were announced at the banquet.



Traditional Japanese music "Tsugaru-shamisen"

A post-conference tour was organized to visit the facilities of Makino Milling Machine Co., Ltd., one of the largest Japanese machine tool builder and FANUC Corporation, the largest makers of numerical controllers in the world.

The many attendees, many interesting presentations, and enjoyable social events made ICPE2018 very successful. We look forward to seeing you at ICPE2020, which is scheduled to be held in a port city, Kobe, Japan in Nov. 2020.