

Press Release

July 19, 2016

MTTRF Annual Meeting

An annual general meeting of MTTRF, whose operation DMG MORI CO., LTD. (hereafter “the company”) participates in as the principle supporting company, was held at the InterContinental Mark Hopkins Hotel in San Francisco, California, USA from July 6 to 7, 2016, with the attendance of around 70 machine tool researchers from countries worldwide.

At the general meeting, “DMG MORI, Integrated Global Machine Tool Manufacturer “, a lecture by the president of the company, Dr. Masahiko Mori, was followed by the presentations on the cutting edge research results that will have a great influence on the future development of machine tools and machining technology.

The company will continue its activities to assist research on a global scale, including providing machine tools, for universities and public research institutions that research and develop innovative technology relating to machine tools.

* MTTRF (the Machine Tool Technologies Research Foundation) is a non-profit foundation approved by the United States government and established through contribution of basic financial resources by DMG MORI CO., LTD. in October 2002. (then, MORI SEIKI CO., LTD.). Its President is Dr. Kazuo Yamazaki, Professor of the University of California, Davis and Berkeley, and Dr. Masahiko Mori, President of DMG MORI CO., LTD., and Mr. Natsuo Okada, Advisor of DMG MORI CO., LTD., serve as Directors.

< Contents of MTTRF Annual Meeting >

1、ESPRIT 2016 Update

Mr. D. Frayssinet/CEO/D.P. Technology Corp.

2、Cutting Characteristics of Coated Carbide End Mills Deposited by Filtered Arc Deposition Method

-Physical Properties of TiCN and DLC Coated Films-

Prof. A. Hosokawa/Kanazawa University

3、Improved Data-Driven and Empirical Energy Prediction Models for Precision Machine Tools

Dr. S. Robinson/University of California Berkeley

4、Machining and Selective Laser Hardening of Complex Shaped Components on a Multi-axis Machining Center

Prof. B. Lauwers/Katholieke Universiteit Leuven

- 5、 Direct Cutting of Cemented Carbide by Nano-Polycrystalline Diamond Tools
Mr. T. Fukaya/Sumitomo Electric Hardmetal Corp.
- 6、 Identification of Machine Tool Dynamics Under Operational Conditions
Prof. G. Campatelli/University of Firenze
- 7、 Compensation of Cutting Fluid Influences on Five Axis Machine Tools
Prof. K. Wegener/ETH Zurich
- 8、 Research on Cutting Texture by Turn-Milling Process
Prof. Y. Ihara/Osaka Institute of Technology
- 9、 Adaptive Control in End-milling Operation Based on Predicted Cutting Force
Geometrical Error Compensation using the On-machine Measurement of Machined Workpiece in 5-axis
Machining Centers
Prof. K. Shirase Associated Prof. R. Sato/Kobe University
- 10、 Vision Based System for Chatter Identification and Process Optimization in High Speed Milling
Prof. M. Soshi/University of California Davis
- 11、 Optimal Energy Saving Trajectory Generation for Machine Tool Motion and Experimental Verification
Prof. N. Uchiyama/Toyohashi University of Technology
- 12、 Toward Fabrication of Thin-Film Thermocouples on Tungsten Carbide Inserts with Metal Shadow
Masks to Measure Cutting Temperature.
Energy Analysis of Additive-Subtractive Manufacturing
Associate Prof. F. Pfeifferkorn/University of Wisconsin Madison
- 13、 Improvement of the Tribological Behavior of Surfaces Used in Mold and Die as well as Combustion
Engine Applications
Prof. F. Bleicher/Vienna University of Technology
- 14、 Tool Wear in Milling of Medical Grade Cobalt Chromium Alloys
Prof. G. Byrne/University College Dublin
- 15、 New MTTRF Projects at UNC-Charlotte
Prof. G. Goch/University of North Carolina at Charlotte

