

## Press Release

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July 2, 2014

### MTTRF Annual Meeting

The annual meeting of MTTRF (Machine Tool Technologies Research Foundation) took place on June 26 and 27, 2013 at the InterContinental Mark Hopkins in San Francisco, California. The meeting was attended by as many as 80 machine tool researchers from around the world. At the meeting, our President Dr. Masahiko Mori gave a speech on "Business Activity for Global Machine Tool Market," followed by the researchers' presentations on cutting-edge research achievements that will be a significant impact on the development of machine tools and machining technologies in the future. We continue to provide global-scale support for universities and public research organizations that conduct research and development for innovative machine tool technologies through donation/free loan of our machines and many other supporting activities.

#### \*MTTRF

The MTTRF is a non-profit public organization approved by the Federal Government of the U.S. It was established with the basic funds contributed by DMG MORI SEIKI in October 2002.

Chairman : Professor Kazuo Yamazaki at University of California, Davis and Berkeley  
Directors : Dr. Masahiko Mori, President of DMG MORI SEIKI  
: Natsuo Okada, Senior Advisor of DMG MORI SEIKI

#### < Contents of MTTRF Annual Meeting >

1. Thermal Issues in 5-axis Machine Tools (Professor K. Wegener, EH Zurich, Switzerland)
2. Analysis of Energy Consumption in Fundamental Motion of Machine Tools and Experimental Verification (Professor N. Uchiyama, Toyohashi University of Technology, Japan)
3. Recent Manufacturing Education Courses and Programs at UC Davis (Professor M. Sochi, University of California Davis, USA)
4. Influence of Motion Error of Five-axis Machining Center onto Machined Surface Generated by Ball End-mill (Professor K. Shirase, Kobe University, Japan)
5. Thermal Analysis of Cryogenic Machining (Professor F. Pfefferkorn, University of Wisconsin Madison, USA)
6. Development of Strategies for Vibration Assisted Turning of ZrO<sub>2</sub> and Energy Efficient Machining (Professor B. Lauwers, Katholieke Universiteit Leuven, Belgium)

7. Verification of Cone Frustum Accuracy Test of Five-axis Machining Center  
(Professor Y. Ihara, Osaka Institute of Technology, Japan)
8. Machining of Difficult-to-Machine Materials with Some PVD Coating Tools  
(Professor A. Hosokawa, Kanazawa University, Japan)
9. Indexing Generation Milling of Gears and Large Gear Segments  
(Professor G. Goch, University of Bremen, Germany)
10. Development of a Machine Tool Platform to Support Data Mining and Statistical Modeling for Machining Processes (Professor D. Dornfeld, University of California Berkeley, USA)
11. Simulation of HSM: Accurate Measurement of Speed Dependent Cutting Force Coefficients and Dynamics for Chatter Detection (Professor G. Campatelli, University of Florence, Italy)
12. Kinematic Error Modelling of a Multi-Cone Frustum Artefact  
(Professor G. Byrne , University of Dublin, Ireland)
13. Surface Improvement in Mold and Die Production by Machine Hammer Peening  
(Professor F. Bleicher , Vienna University of Technology, Austria)
14. Estimation of NC Cycle Time for Free-form Milling Operations on Commercial CNC Machining Centers (Professor Y. Altintas, University of British Columbia, Canada)
15. Flexible Monolithic Machine Elements for Precision Motion Stages  
(Professor J. Chun, Massachusetts Institute of Technology, USA)

