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Press Release

July 3, 2013

MTTRF Annual Meeting and Grand Opening of Berkeley Institute

The annual meeting of MTTRF (Machine Tool Technologies Research Foundation) took place on July 1 and 2, 2013 at the InterContinental Mark Hopkins in San Francisco, California. The meeting was attended by as many as 90 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.

Prior to the meeting, the grand opening for MTTRF Berkeley Institute was also held. The institute was established aiming to enhance a practical, cooperative relationship among industry, government and academia and to cultivate skilled engineers through educational and research activities. It is located in Berkeley, a city well known for the site of the University of California, Berkeley which is one of the top level educational institutions not in the U.S. alone, but in the world. At the ceremony, Dr. Mori said, “I hope that advanced research and development will be carried out for cutting-edge technologies at MTTRF Berkeley Institute, and it will be a significant contributor to the comeback of the U.S. manufacturing industry.”

This time we provided the free loan of five state-of-the-art machines that include the NTX2000 (Mori Seiki integrated mill turn center), the Ultrasonic20 (DMG ultrasonic machine) and the Lasertec20 (DMG laser machine).

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 Mori Seiki in October 2002.

Chairman: Professor Kazuo Yamazaki at University of California, Davis and Berkeley

Directors: Dr. Masahiko Mori, President of Mori Seiki; Natsuo Okada, Executive Operating Director of Mori Seiki

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< Contents of MTTRF Annual Meeting >

1. Measuring, Modeling and Compensating Thermally Caused Location Errors of Rotary Axes (Professor K. Wegener, EH Zurich, Switzerland)
2. End Milling of CFRP (Professor T. Ueda, Kanazawa University, Japan)
3. Energy Saving in Point-To-Point Control of Industrial Machines using a Simple Motion Trajectory (Professor N. Uchiyama, Toyohashi University of Technology, Japan)
4. Manufacturing Research and Education Program at UC Davis (Professor M. Sochi, University of California Davis, USA)
5. Power Consumption Analysis of Feed Drive System in NC Machining Tools (Professor K. Shirase, Kobe University, Japan)
6. Empirical Relationships between FSW Tool Geometry and Process Forces and Torque (Professor F. Pfefferkorn, University of Wisconsin Madison, USA)
7. Machine Tool Characterization and Machining Strategies for Energy Efficient Manufacturing (Professor B. Lauwers, Katholieke Universiteit Leuven, Belgium)
8. Flexible Manufacturing of Modified Involute Gears (Professor G. Goch, University of Bremen, Germany)
9. Fundamental Study of the On-Machine Measurement in the Machining Center with a Touch Trigger Probe (Professor Y. Ihara, Osaka Institute of Technology, Japan)
10. Quantifying the Improvements in Rapid Prototyping and Product Life Cycle Performance Created by Machining (Professor D. Dornfeld, University of California Berkeley, USA)
11. 5 Axis Mill Use in Prototyping Meso-scale Tuning Fork Gyroscopes – Physical Prototyping to Study on Manufacturing Error Sensitivity (Professor J. Chun, Massachusetts Institute of Technology, USA)
12. Milled Surface Generation Model for Time Domain Simulation (Professor G. Campatelli, University of Florence, Italy)
13. Cone Frustum Machining Investigation (Professor G. Byrne, University of Dublin, Ireland)
14. Automatic Chatter Detection and Suppression in Milling (Professor Y. Altintas, University of British Columbia, Canada)



Grand opening for MTTRF Berkeley Institute



MTTRF members at the annual meeting 2013