



# JSTP International Seminar on Precision Forging (the 4th ISPF)



Organized by Japan Society for Technology of Plasticity

## List of keynote lecturers and invited young researchers/engineers (tentative)

### Keynote lectures:

- Prof. N. Bay (Technical University of Denmark, Denmark);  
Modelling and testing of friction and lubrication in metal forming.
- Prof. K. Osakada (Osaka University, Japan);  
Recent research and development of precision forging in Japan.
- Prof. T. Nakamura (Shizuoka University, Japan);  
Evaluation of tribological characteristics by forging type friction tests.
- Prof. R. Kopp (University of Technology Aachen, Germany);  
Metal forming striking new paths.
- Prof. K. Kuzman (University of Ljubljana, Slovenia);  
Some contributions to the stability of cold forming processes.
- Prof. C-G. Kang (Pusan National University, Korea);  
Forging process simulation and casting tool design rules for rheology forming.
- Prof. T. Ishikawa (Nagoya University, Japan);  
Prediction of dimensional difference of product from tool in cold forging.
- Prof. T. Altan (The Ohio State University, USA);  
Application of technology to compete successfully in precision forging.
- Prof. K. Kondo (Toyota Technological Institute, Japan);  
Net shape forging of an external helical gear with boss and internal spline.
- Dr. S. Fujikawa (Nissan Motor Corp., Japan);  
Digital innovation for forging processes.
- Mr. S. Enomae (Komatsu Industries Corp., Japan);  
Technology and application of free motion press.
- Mr. T. Shimizu (Daido Steel Co., Ltd., Japan);  
Effect of carbide morphology on material property of forging die steels.
- Mr. M. Yasuoka (Nachi-Fujikoshi Corp., Japan);  
Method and application of hard coatings.

### Oral presentations of young researchers/engineers:

- Mr. M. Shirgaokar (The Ohio State University, USA);  
Analysis of the double cup extrusion test for evaluation of lubricants.
- Dr. H-S. Lin (Southern Taiwan University of Technology, Taiwan);  
Applications of hole flanging with counter-pressure: gear-shape forming and edge sizing.
- Mr. A. Specker (Institute for Integrated Production Hannover, Germany);  
Flashless precision forging of flat long pieces.
- Mr. A Putz (University of Erlangen-Nuremberg, Germany);  
Industrial ceramics in cold forging: increasing surface quality and dimensional accuracy.
- Dr. A. Ghiotti (University of Padova, Italy);  
Stiffness and contact-time of presses in forging operations.
- Dr. Y. Gladkov (Bauman Moscow State Technical University, Russia);

- Hot-die forging press with adaptive CNC for hot-die precision forging.
- Mr. R. Schramme (Hirschvogel Umformtechnik GmbH, Germany);  
Recent developments and trends in manufacturing of precision forging dies by high-speed cutting.
- Mr. S. Masera (Iskra Avtoelektrika d.d., Slovenia);  
Analysis of cold forging parameters with Taguchi methods.
- Mr. M. Nakasaki (Sanyo Special Steel, Japan);  
Process improvements of hot forging with hub bearing parts by applying 3-D CAE analysis.
- Dr. D. Breuer (University of Technology Aachen, Germany);  
Prediction of ductile fracture in cold forming processes with the finite element method and artificial neural network.
- Dr. T-W. Ku (Pusan National University, Korea);  
Numerical analysis and design of pinion with inner helical gear by FEM.
- Mr. A. Lenhard (Universidade Federal do Rio Grande do Sul, Brazil);  
Method to estimate workpiece-die heat transfer coefficient on precision warm forging process.

**Poster presentations of young researchers/engineers:**

- Dr. D.D. Olsson (Technical University of Denmark, Denmark);  
Methodology for prediction of limits of lubrication in a bulk metal forming operation.
- Dr. S. Bruschi (University of Padova, Italy);  
Prediction of geometrical distortions and microstructural characteristics for net-shape forging of metal components.
- Dr. X. Wang (Harbin Institute of Technology, China);  
Research on upsetting rings of 7075 aluminum alloy with different sections surrounded liquid pressure.
- Mr. D. Yu (Shanghai Jiaotong University, China);  
A study on KBS for precision forging process.
- Mr. E. Murai (Daido Institute of Technology, Japan);  
Effect of billet-height on load and metal flow in combined extrusion.
- Mr. K. Haeussler (ThyssenKrupp Presta AG, Germany);  
Improvement of service life of cold forging tools - aspects of structural FEM analysis, material selection and tool manufacturing.
- Dr. X. Wang (Nagoya University, Japan);  
Cold precision forging bevel gear with numerical method.
- Dr. C. Park (Samsung Corning Precision Glass Co. Ltd., Korea);  
An adaptive refinement technique of all hexahedral element mesh for analysis of bulk metal forming process.
- Mr. M. Fujiwara (Daido Steel Co., Ltd., Japan);  
Development of precision warm forging process of 17-4ph stainless steel using ausforming.
- Ms. M. Loh-Mousavi (Toyohashi University of Technology, Japan);  
Experimental study and three dimensional simulation of hot closed-die upsetting by the finite element and the finite volume methods.
- Mr. C. Önder (Norm Civata A.S., Turkey)  
Anomalies in forward rod extrusion process.
- Mr. C.J. Tan (Toyohashi University of Technology, Japan);  
Increase in wall thickness around corner of multi-stage compressed cup with flange by axial compression.
- Ms. K. Jackson (Pembroke College, UK);  
Incremental sheet forming research at Cambridge University.
- Mr. A. Petek (University of Ljubljana, Slovenia);  
Small quantity production by incremental forming.

- Mr. W. Hussnaetter (University of Erlangen-Nuremberg, Germany);  
Experimental setup for determination of yield loci-demands for accuracy.
- Dr. G. Gantar (University of Ljubljana, Slovenia);  
Increasing the stability of forging processes.
- Ms. L. Zhou (Chinese Academy of Sciences, China);  
Study of the process of hot extrusion of near  $\beta$  Ti-alloy.