

7th ICFG Workshop on Process Simulation in Metalforming

Final Program

WS venue: Juroku Plaza in Gifu Station_(Gifu, Japan)

12 th Wed. Sep.	13 th Thu. Sep.	14 th Fri. Sep.
ICFG Plant Tour	Registration	Registration
	9:00~10:10 Chairman: Prof. A. E. Tekkaya Welcome Address Advanced Simulation 1	9:00~10:30 Chairman: Mr. O. Kada Advanced Material Testing 1
	10:10~10:40 Coffee Break	10:30~11:00 Coffee Break
	10:40~12:00 Chairman: Dr. A. Ghiotti Advanced Simulation 2	11:00~12:20 Chairman: Dr. R. Matsumoto Experimental Session 2
	12:00~13:30 Lunch	12:20~13:50 Lunch
	Transfer to Gifu University by bus 14:30~17:30 Welcome address Experimental Session 1 Coffee break Labo. tour in G-CADET	13:30~15:20 Chairman: Dr. Y. Yoshikawa Fracture Modeling 15:20~15:50 Coffee break 15:50~17:30 Chairman: Prof. Y. Yoshida Advanced Material Testing 2 Closing address
	Transfer to Gifu Station by bus	Break up
19:00~21:00 at Meitetsu Grand Hotel Welcome Cocktail	18:00~21:00 Dinner	

Welcome Address

Prof. A. E. Tekkaya (ICFG Vice Chairman)

Prof. Y. Yoshida (ICFG SPS Chairman, Forging Materials SG of Forging Committee in JSTP)

Dr. A. Ghiotti (ICFG SPS Chairman)

Advanced Simulation 1 (Chairman: Prof. A. E. Tekkaya)

1. **Dr. C. Hubert** (University of Valenciennes and Hainaut Cambresis, France)
Liquid lubrication mechanisms in sheet metal forming at mesoscopic scale
2. **Prof. Rong-Shean Lee** (National Cheng Kung Univ., Taiwan)
Coupled Modeling of Formability Test for Electromagnetic Forming of Aluminum Sheet
3. **Dr. Ho Won Lee** (KIMS, Korea)
Development of Dynamic Recrystallization Model and Its Application to Hot Forming Simulation

Advanced Simulation 2 - Software: State of Art -

(Chairman: Dr. A. Ghiotti)

4. **Prof. Mansoo Joun** (Gyeongsang National University, Korea)
Intelligent Metal-Forming Simulation Technology – Application to incremental metal forming processes
5. **Dr. Soo-Young Kim** (Yamanaka Engineering, Japan)
Computer-Aided Material Testing Using Inverse Calculation Scheme Based on Optimization Technique
6. **Mr. Michael Wohlmuth** (Simfact, Germany)
Current Status and Future Trends in Simulation of Cold Forging Processes
7. **Dr. Richard Ducloux** (Transvalor, France)
Simulation of press frame deflection and tilting in case of cold forging

Advanced Material Testing 1 (Chairman: Mr. O. Kada)

8. **KEYNOTE : Prof. Zhigang Wang** (Gifu Univ., Japan)
Development of Upsetting-Ball Ironing Tribo-test
9. **Mr. Suzuki** (Gifu Univ., Japan)
Effect of Side Surface Stress on Friction in Metal Forming
10. **Dr. Yasuharu Yoshikawa** (Gifu Univ., Japan)
Boss Forming Technology by Sheet Metal Forging
11. **Dr. Takeshi Nishiwaki** (Nagoya Institute., Japan)
Study for Identification of the Flow Stress after the Uniform Elongation

JSTP Session: Experimental Session 1 & 2 (Chairman: Prof. R. Matsumoto)

12. **Prof. Yoshinori Yoshida** (Gifu Univ., Japan)
Notched Round Bar Tensile Test Using Image Analysis
13. **Mr. Osamu Kada** (Nippon Steel, Japan)
Compression Test in Elevated Temperature
- **Prof. Ryo Matsumoto** (Osaka Univ., Japan)
Discussion: How should flow curves be identified?

Fracture Modeling (Chairman: Dr. Y. Yoshikawa)

14. **Keynote: Dr. Celal Soyarslan** (TU Dortmund, Germany)
Simulation of Localization, Damage and Fracture in Free Bending of AHSS Sheets Using CDM
15. **Dr. Andrea Ghiotti** (DIMEG, Italy)
Ductile Fracture Limits at Elevated Temperatures in CuZn40Pb2 Brass Alloy
16. **Prof. Yoshinori Yoshida** (Gifu Univ., Japan)
Notched Tensile Test Using Image Analysis and Its Application for Deformation Analysis of Shearing
17. **Mr. Takashi Matsuno** (Nippon Steel, Japan)
Title: Micro Structural Failure Analysis in Dual Phase Steel
18. **Prof. Kunio Hayakawa** (Shizuoka Univ., Japan)
Analysis of Anisotropic Damage of Tools During Cold Forging Process

Advanced Material Testing 2 (Chairman: Prof. Yoshida)

19. **Dr. Motoki Terano** (Nagoya University, Japan)
Influence of Plastic Anisotropy on Sheet Bulk Forming
20. **Dr. Ryo Matsumoto** (Osaka Univ., Japan)
Flow Stress Curves of α -Mg and LPSO Single Phase Alloys and Finite Element Analysis for Forming of Mg-Zn-Y Two-Phase Alloy
21. **Mr. Tobias Schrader** (University Erlangen, Germany)
Influences on Wear Load in Cup Extrusion Processes Scale
22. **Dr. Jörg Stahlmann** (University Erlangen, Germany) via Internet
Friction in Cold Forming Simulation

G-CADET Labo tour

1. **Prof. Shigeki Imao, Head of Dept. Mechanical and Systems Engineering** (Gifu Univ., Japan)
Welcome address & outline of the department
2. **Prof. Zhigang Wang, Head of G-CADET** (Gifu Univ., Japan)
Welcome address & outline of G-CADET

Information about Events and Transportation

Welcome Cocktail on 12th September

Place: Le Ciel Bleu (on the 18th floor of Meitetsu Grand Hotel, **in front of Nagoya Station, NOT in Gifu**)

Time: 19:00-21:00

<http://www.meitetsu-gh.co.jp/en/>

Workshop on 13th and 14th September

Place: Juroku Plaza (directly connected to **Gifu station**)

Time: 9:00-12:00 on 13th, 9:00-17:00 on 14th

<http://www.plaza-gifu.jp/access/> (in Japanese only)

Laboratory tour in Gifu University Center for Advanced Die Engineering and Technology (G-CADET)

on 13th September

Place: Gifu University (shuttle bus transfer service will be supplied between Juroku Plaza and Gifu University for free)

Time: 14:30-17:30 <http://www1.gifu-u.ac.jp/~gcadet/abstract.html>

Workshop Dinner on 13th September

Place: La. Rose Provence (on the 1st floor of Juroku Plaza)

Time: 18:00-21:00

<http://plaza-gifu.jp/1f/restaurant.html> (in Japanese only)

Daily Transportation between Nagoya and Gifu

Meeting Place: in front of Golden Clock in Nagoya Station
(look at the Nagoya Sta. Map)

Departure: AM 8:00



Figure. Map of Nagoya Station