Invitation & Final Program

The 9th Asian Symposium on Precision Forging



October 02~05, 2005 Splendor Kaohsiung Hotel Kaohsiung, Taiwan

Organized by

Taiwan Forging Association (TwFA) & National Cheng Kung University (NCKU)

Co-organized by

Metal Industries Research and Development Centre (MIRDC) National Kaohsiung University of Applied Sciences

Incorporation with

Forging Research Committee of JSTP Institution for Technology of Plasticity of CMES Forging Research Committee of KSTP

Sponsored by

National Science Council, Taiwan, ROC Ministry of Education Kaohsiung City Government

Http://www.forging.org.tw/aspf/

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INVITATION

It is our pleasure to welcome you to join ASPF 2005, the 9th Asian Symposium on Precision Forging in Kaohsiung, Taiwan. National Cheng Kung University (NCKU) and Taiwan Forging Association (TwFA) are hosting this special event. The original symposium was held in 1985 in the name of Sino-Japan Precision Forging Seminar. It was at the 6th Symposium in Nagoya in 1998 that the international committee decided to enlarge the symposium to all Asian countries. Current ASPF 2005 is the third since the name of the symposium has been changed.

The aim of the symposium is to bring together the leaders from industry and research communities to solve problems that precision forging manufacturer are facing with global competition. The symposium will provide an opportunity for the leaders, researchers on precision forging manufacturing around the Asia to collaborate and share their views and experiences.

The theme of the 9th ASPF 2005 is "Innovative Forging Technology for Global Competition". Asian countries are playing more and more important roles in world forging production in this era of globalization. Technology innovation is the key to sustainability for this old forging technology.

The proceedings will contain 48 papers from five Asian countries which have strong forging activities. In this symposium, we were honored to have five distinguished keynote speakers, Prof. John Fu, Prof. Tamotsu Nakamura, Prof. Yong-Taek Im, Prof. Zhu Weicheng, and Dr. Anil K. Gupta to share their inspiring achievements in precision forging of their countries. Apart from five keynote presentations, technical papers will be presented in four parallel sessions of six subjects.

We would like to express our sincere appreciation to the members of International Organizing Committee, Local Organization Committee, and Secretariat of the 9th ASPF 2005 for their effort to make the Symposium possible and successful. We are also thankful for the authors and members of Paper Review Committee who made fruitful contributions. Last but not least, we would like to express our heartful gratitude to National Science Council (NSC), Ministry of Education, Metal Industry Research and Development Centre (MIDRC), Kaohsiung City Government and National Kaohsiung University of Applied Science (KUAS) which have been sponsoring this symposium.

We do hope that attending the 9th ASPF 2005 will be a wonderful experience for all the delegates from different countries to share their views and exchange opinions on precision forging. Hope you and your family will have a pleasant stay in Taiwan.

Mr. Ron K. Wang

Prof. Rong-Shean Lee Chairman of the Organizing Committee Of 9th ASPF 2005 in Kaohsiung, Taiwan

Professor of National Cheng Kung University, Taiwan

Chairman of the Organizing Committee Of 9th ASPF 2005 in Kaohsiung, Taiwan Chairman of Taiwan Forging Association, Taiwan

ORGANIZATION OF ASPF 2005

Chairman:

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Asso. Prof. Jin Bin Yang (National Taiwan University Iniversity of Science and Technology, Taiwan)

SYMPOSIUM SCHEDULE

October 02, 2005 (Sunday)

	15:00-18:00	Registration			
	18:00-21:00	Welcome Reception			
	October 03	8. 2005 (Monday)			
	08:00-03:30	Registration			
	08:30-08:50	Greeting			
	08:50-09:10	Special Speech			
	09:10-09:40	Keynote Speech (I): Prof. John Fu			
	09:40-10:10	Keynote Speech (II) Prof. Tamotsu Nal	kamura		
	10:10-10:30	Coffee Break			
	10:30-11:00	Keynote Speech (III) Prof. Yong-Taek	Im		
	11:00-11:30	Keynote Speech (IV) Dr. Zhu Weichen	g		
	11:30-12:00	Keynote Speech (V) Dr.Anil K. Gupta	0		
	13:30-15:30	Session I: Cold, Warm, Hot Forging	Session II: Materials C	Characteristics	
		Session III:CAD/CAE/CAM	Session V:Micro-forn	ning	
	15:30-16:00	Coffee Break		C	
	16:00-18:00	Session I: Cold, Warm, Hot Forging	Session III CAD/CAE	CAM	
		Session IV: Development of Emergent	Technologies Se	ession VI: Others	
	18:40-20:30	Banquet	C .		
	Octobor 0/	2005 (Tuosday) Tachaical Ta	ur.		
	07.20	Departure			
	07.30-	Transfor			
	07.30-09.30	Sightseeing			
	12:30 14:00	Lunch and Transfer	和194-11-11		23
	12.30-14.00	Visit to Chin Fong Machine Industrial	Coltd	1	
	17.30-19.30	Dinner	C0., Ltd.		
-	19:30-21:30	Transfer	Transa and a start of the start	Addition (for	-
	21.30-21.30	Arriving at Hotel			
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2	October 05	, 2005 (Wednesday) Technical	Tour	Contraction of the	1.00
R.	09:30-	Departure			3111
11	09:30-10:00	Transfer.		110	at sin
1.0	10:00-11:30	Visit to China Steel Corporation	NI ROLD	1 . Mult	
	11:30-13:00	Lunch	1. 25	10 mar a	X
	13:00-13:30	Transfer		a martine	17
2.2	13:30-15:00	Visit to Metal Industries Research & D	evelopment Cnetre.	A Sec	
23	15:00-18:00	Sightseeing	AND IN	Y AL	
-	18:00-20:00	Farewell Party	114	- S R	
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TECHNICAL PROGRAM

Da	ate/Tim	e	Contents				
10/2	15:00	18:00	Registration				
(Sun) 42F	18:30	21:00	Welcome reception (Splendor Hotel)	Room: AMBER			
10/3	08:00	08:30	Registration				
(Mon)	08:30	08:50	Opening Address	Room: DIAMOND(I)			
			Ron K. Wang, Rong Shean Lee				
	08:50	09:10	Special speech				
			Weng-Sing Hwang				
	09:10	09:40	Keynote Speech ()	Chair: W.S. Hwang			
			The Future Prospect of Precision Forging Technol	ology in Taiwan			
			Prof. John Fu, Taiwan				
	09:40	10:10	Keynote Speecn ()	Chair: Su-Hai Hsiang			
41F			Research and Development on Precision Forging	g lechnology in Japan			
	40.40	40.20	Prof. Tamotsu Nakamura, Japan Brook				
	10:10	10:30	Diedk Kovnoto Spooch (Chain Ful Vuo Chan			
	10:30	11:00	Recent Development on Three Dimensional Ford	ung Simulations and			
			Industrial Applications	ing onnuations and			
			Prof Yong-Taek Im Korea				
	11:00	11:30	Kevnote Speech ()	Chair: John Fu			
			The Precision Forging in the FAW				
			Prof. Zhu Weicheng, China				
	11:30	12:00	Keynote Speech ()	Chair: You Min Huang			
			Current Status of Forging Industry in India with S	Special Reference to			
			Development of Cold/Warm Forged Components	at NPL			
1111			Dr. Anil K. Gupta				
1124	12:00	13:30	Lunch	1			
Subjec	:t(l):Co	old, Wa	arm and Hot Forging (including extrusion and u	psetting) technology			
2.30	as	well a	as equipment, die and mold, materials, lubricat	tion and related			
1-1	teo	chnolo	ogy.				
Chair:	Fuh-K	uo Che	n, Zhu Weicheng	A KAR PER			
Room:	CORA	L (42F)		and the			
10/3	13:30	13:50	A Forging Preform Design Using Abductive Netw	vork and FEM			
(Mon)			Chin-Tarn Kwan, Feng-Chih Lin	ALL ARBACH			
15123	13:50	14:10	The Influence of Punch Motion on the Equal-cros	ss Section Lateral			
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AL INT	44.40	44.00	Yuan-Chuan Hsu, Yu-Luen Lin	and AL			
新日夏多日	14:10	14:30	Porging Process Development for Intanium wren	icn (if)			
42F	14.20	14-50	The Precision Cold Forging of the Strip Material	in the Progressive Die			
7	14:30	14:50	Process	in the Progressive Die			
2.	-	3 mil	S G Tsai C F Wu C W Tai				
	14-50	15-10	Investigation of Estimating Tool Life in Hot Forgi	ing a just			
		. 53	Hirovuki Saiki Yasuo Marumo Astushi Shinkai Akihiro Mina	mi Liaun Ruan			
-	15:10	15:30	Evaluation of Tool Temperature in Hot Forging	ni, Liquit Ituat			
5	125	-	Hiroyuki Saiki, Akihiro Minami. Yasuo Marumo. Liaun Ruan				
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Koom:CURAL [42F] 10/3 16:20 Computer Aided Precision Forging Die and Process Design of a DOJ Part 10/3 16:20 Computer Aided Precision Forging Die and Process Design of a DOJ Part 16:20 16:40 An Investigation of Unequal Interface Friction Conditions During the Upsetting Process of Ellipsoid 42F 16:40 17:00 Computer-Aided Die Design for the Hot Forging of an Automobile Generator Component 17:00 17:20 Tool Life and Productivity in Cold Forging Young-Seen Lee, Yang-Nam Kwan, Ji-Houm Kim, Sak-Tak Choi, Jung-Huan Lee 17:20 17:40 18:00 A Study of Unbalanced Magnetron Sputtering CnAIC Layer on Tool Steel for Improving the Tool Life John Fu, Guo-Wei Li Subject(II): Materials characteristics including Ferrous and Light metals (Titanium, Magnesium, Aluminum). Chai: Anii K. Gupta, Rong-Shean Lee Room:AMBER (42F) 10/3 13:30 13:30 13:50 14:10 Bauschinger Effect in Non-Heat Treated Cold Forging Steel Yang-Man Kwon, Yang-Seen Lee, Jung-Hwan Lee 14:10 14:30 14:30 Forging Marune, Bing-Jian Chen, Yi-Kai Lin 13:30 14:10 Evaluation of Flow Stresses of Carbon Steel Tubes by Bulge Test Yeang-Man Hwang, Bing-Jian Chen, Yi-Kai Lin 14:30 14:30	Chair:	John	Fu, Su-	Hai Hsiang
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 10/3 14:10 14:30 FE Simulation of Grain Size and Temperature Rise During the Forging of a Commercial TCG Trianium Alloy Disc M.Q.Li, A. M. Xiong, X. L. Li 14:30 14:50 Numerical Simulation of the Cold Precision Forging Process of Spur Gear and the Influence of Technological Parameters on Spring-back Shun-Lai Zang, Ya Cheng, Cheng Guo 14:50 15:10 Three-Dimensional Numerical Simulation of Near Net Shape Roll Forging of Long Nonsymmetrical Simulation of Near Net Shape Roll Forging of Long Nonsymmetrical Simulation Technological Parameters on Spring-back Shun-Lai Zang, Ya Cheng, Cheng Guo 15:10 15:30 Generalized Calculation Program for Cold Extrusion Pressure Kichiaro Shinazaki, Takahiro ohashi, Toru Simizu, Kan-Ichi Harsu Kana 15:30 16:00 [Colfee Break Nublect(III):CAD/CAE/CAM and Simulation Technology. Chair: Takashi Ishikawa, Jong-Taek Yeom 10:00 16:20 3D-FE Analysis of Shearing of Round Bar with Axial Compression Takashi Ishikawa, Yoshinori Yoshida, Nobuki Yukawa, Takahiro Banjo, Masahiko Amari, Yukhihito Tanase 16:20 16:00 16:20 3D-FE Analysis of Shearing of Round Bar with Axial Compression Takashi Ishikawa, Yoshinori Yoshida, Nobuki Yukawa, Takahiro Banjo, Masahiko Amari, Yukhihito Tanase 16:20 16:40 17:00 FE Simulations M. C. Lee, M. S. Joun 16:40 17:00 FE Simulation of Microstructure Evolution During Direct Age Process of Alloy 718 Jong-Shar Keom, Chong-Son Lee, Chil-Yong Fum, Jeoung-Han Kim, Nho-Kwang Park 17:00 17:20 Investigation of Upsetting With Curved Dies Through Analytical and Numerical Methods S. Y. Lin, T. S. Yang 17:20 17:40 A Finite Element Analysis for the Forging Of Spur Gear Tang-Sharg Yang 16:40 17:00 Trace Chang Yang 16:40 17:00 Trace Identify Yang-Chon Kao 17:20 16:40 A Study on The Precision Powder Forging Process of the Slide Block in Car Air Compressor. Im -Bin Yang, Wen-Yom Wan, Trang-Jen Chong 17:20 16:40 A Study on The Precision Powde				
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10/3	13:30	13:50	The Development of the Micropart with Multi-Stage Cold Forging
(Mon)			Technology
			Yi-An Chen, Hsing-Chih Tsai, Chuen-Fuu Wu
	13:50	14:10	Studies on Micro-Forming of CuNi and ZnAI Alloys
			Quang-Cherng Hsu, Chen-Oa Wu, Ko-Ho Yang Rong-Shean Lee
	14:10	14:30	The Effects of Microstructure In Micro-Metal Forming on CuZn15 Alloy
			Ming-Chin Tsai, Chih-Hao Lin, Chuen-Fuu Wu
405	14:30	14:50	The Effect of Forming Speed on Micro-Punched Gears
421			Chao-Cheng Chang, Yi-Hsien Wu
	14:50	15:10	Contact Friction Modeling for Precision Dry Rolling: A Unified Solution
			Prospect.
			Yew Shing Ouyang
	15:10	15:30	3-D Finite Element Simulation for Flat-Die Thread Rolling of Stainless
			Steel Pong Shagn Log Chi Hang Chan Shui To Wang
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10/3	16.00	16:20	/ Detection of Damage to and Eracture of Forging Tool in Operation Using
(Mon)	10.00	10.20	Fractal Property of Acoustic Emission
			Kunio Havakawa Tamotsu Nakamura
	16.20	16.40	General Solutions of the Bond Rolling of Unbounded Sandwich Sheet
	10.20	10.10	With Outer Soft and Inner Hard Lavers
			Ming-Nan Huang, Gow-Yi Tzou, Hung-Ying Hsu, Chien-Fu Liu, Kuo-Chiang Liang
	16:40	17:00	Critical Safety Device for Forging Machinery by Image Processing
			Technology
42F		3	Quang-Cherng Hsu, Jinn-Jong Sheu, Jin-Suen Yang
	17:00	17:20	The study of high speed turning of the harden mold steel by CBN
	1.21		cutting tools
-	July .	ifte of	Wei-shin Lin, Tun-Hao Liang, Po-Chun Huang, Tzu-Lun Huang, Hsin-Hsien Wu
~	17.20	17:40	Study on the Tail Overfill Defect of AISI 1022 Coil Rolling Process /
and -	11.20		
			H.Y. Chen, J.H. Tsai, Y.F. Lin, Yung-Chou Kao
	17:40	18:00	H.Y. Chen, J.H. Tsai, Y.F. Lin, Yung-Chou Kao The Analysis Modeling of Machinability of SKD61 Tool Steel in High
	17:40	18:00	H.Y. Chen, J.H. Tsai, Y.F. Lin, Yung-Chou Kao The Analysis Modeling of Machinability of SKD61 Tool Steel in High Speed Milling
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10/3	17:40	18:00	H.Y. Chen, J.H. Tsai, Y.F. Lin, Yung-Chou Kao The Analysis Modeling of Machinability of SKD61 Tool Steel in High Speed Milling Hsin Juan, Bean-Yin Lee, Wann-Yih Lin
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Registration

International Participants

Domestic Participants

Pre-registration	USD 350	Regular	NTD 6,000
On-site Registration	USD400	Student	NTD 2,500

(Registration fee does not include both breakfast and accommodation fees.)

Accommodation

Hotel: Splendor Kaohsiung Hotel **(Check in counter: 39F)** Add: 39F, No.1, Tzu-Chiang 3rd Road Kaohsiung, Taiwan Rate (a day): Single room: NTD3,180 (Approx USD100) Twin NTD3,520 (Approx USD110) The accommodation fees include breakfast.

Map of TheSplendor Kaohsiung Hotel





41F Floor Plan

42F Floor Plan





ASPF 2005 Secretariat

Taiwan Forging Association Tel: +886-7-352-1308 / Fax: +886-7-353-3138 E-mail: <u>cfa@forging.org.tw</u> <u>http://www.forging.org.tw/aspf/</u>