

## Table of Oral Presentation

Date	Time	Elliott Room 2
Monday, 5th Feb	Section-1 14:45-15:45	<i>Chair : Jen-Yuan (James) Chang</i>
		<b>ICPMMT 74 14:45 (Plenary Paper)</b> <b>Embedded Smart Box for Legacy Machines to Approach to I4.0 in Smart Manufacturing</b> <i>Yi -Chih Fan and Jen-Yuan (James) Chang</i>
		<b>ICPMMT 60 15:15</b> <b>Multi-tasking Multi-machine Scheduling System for Multi-stage Multi-criteria Production</b> <i>Shao-Chen Li, Yu-Ren Chen, Cheng Ju Kuo, Tzu-Yu Lin, Kuo-Cheng Ting, Don-Lin Yang, Hsi-Min Chen, and Yi-Chung Chen</i>
		<b>ICPMMT 69 15:30</b> <b>Forming Parameters Optimizations with Drawing Force and Die Stress in Wire Rod Drawing Using Rotating Die under Coulomb Friction</b> <i>Ing-Kiat Tiong, Un-Chin Chai, and Gow-Yi Tzou</i>
Date	Time	Elliott Room 2
Monday, 5th Feb	Section-2 15:45-17:00	<i>Chair : Zhengyi Jiang</i>
		<b>ICPMMT 18 15:45 (Plenary Paper)</b> <b>Numerical Investigation on the Forming Behavior of Stainless/Carbon Steel Bimetal Composite</b> <i>Zhou Li, Jingwei Zhao, Qingfeng Zhang, Sihai Jiao and Zhengyi Jiang</i>
		<b>ICPMMT 122 16:15</b> <b>Modified Johnson-Cook plasticity model for AA2024-T351 under static loading conditions</b> <i>Prudvi Reddy Paresi, Yanshan Lou, and Jeong Whan Yoon</i>
		<b>ICPMMT 28 16:30</b> <b>Design and Simulation of Preforming Process of Hydroforming for the High Expansion Ratio Bike Tube</b> <i>Li-Wei Chen and Bo-Ting Ye</i>
		<b>ICPMMT 91 16:45</b> <b>Fastener Products Lightweight Design and Forming Process Simulation</b> <i>Jinn-Jong Sheu, Chien-Jen Ho, Cheng-Hsien Yu, and Kuo-Ting Wu</i>



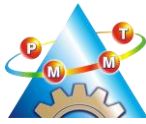
## Table of Oral Presentation

Date	Time	Elliott Room 3
Wednesday, 7th Feb	Section-3 10:45-11:30	<i>Chair : Cho-Pei Jiang</i>
		ICPMMT 26      10:45 <b>Improvement Design of Zirconia Dental Implant Under Dynamic Loadings</b> <i>Yung-Chang Cheng and Cho-Pei Jiang</i>
		ICPMMT 56      11:00 <b>Study of 3D Dental Implant Considering Implant Thread Shape and Static Oblique Load Effect on Cortical and Cancellous Bone Using Finite Element Method</b> <i>Song Jeng Huang and Dawit Bogale Alemayehu</i>
		ICPMMT 05      11:15 <b>Microstructure Evolution and Mechanical Property of Slight and Medium Deformation of Asymmetric Rolling of Pure Copper</b> <i>Dongzhi Luo, Cheng Lu, and Lihong Su</i>
Date	Time	Elliott Room 2
Wednesday, 7th Feb	Section-4 10:45-11:30	<i>Chair : Chun-Ying Lee</i>
		ICPMMT 21      10:45 <b>A Tuned Vibration Absorber Constituted of Shape Memory Alloy Wires for Vibration Reduction of Platform Structures: Design and Implementation</b> <i>Yun-Ting Liao, Jia-Hong Lin, and Chun-Ying Lee</i>
		ICPMMT 29      11:00 <b>Vibration Modes and Sound Characteristic Analysis for Different Sizes of Singing Bowls</b> <i>Bor-Tsuen Wang, Chun-Lang Tsai, and Ying-Hui Wu</i>
		ICPMMT 37      11:15 <b>Microstructure Evolution in Electron Beam Melting of Co-Cr-Ni-W Alloy</b> <i>M. A. L. Phan, D. Fraser, S. Gulizia, and Z. W. Chen</i>



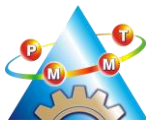
## Table of Oral Presentation

Date	Time	Elliott Room 3
Wednesday, 7th Feb	Section-5 11:30-12:15	<i>Chair : Wei-Hsi Hung</i>
		ICPMMT 53      11:30 <b>Understanding the Organizational Critical Activities of Manufacturers in Taiwan: Three Case Studies</b> <i>Wei-Hsi Hung, Tsung-Yueh Lu, and Mei-Fang Wu</i>
		ICPMMT 36      11:45 <b>Light and Eco-friendly Structure Design of an Instant Noodle Bow</b> <i>Jiunn Fang and Po-Chuan Chen</i>
		ICPMMT 43      12:00 <b>The Structure Analysis and Design of the Waste Soil</b> <i>Jiunn Fang, Yau-Ren Shiau, and Wei-Chun Hung</i>
Date	Time	Elliott Room 2
Wednesday, 7th Feb	Section-6 11:30-12:15	<i>Chair : Ming Chang</i>
		ICPMMT 48      11:30 <b>A Defect Assessment System for Manufacturing Process Improvement</b> <i>Ming Chang and Chia-Sheng Pan</i>
		ICPMMT 38      11:45 <b>Tribological Properties of 316L Stainless Steel Samples Made by Selective Laser Melting Process</b> <i>Hua Li and Maziar Ramezani</i>
		ICPMMT 61      12:00 <b>Computer Aided Design and Analysis on Distributors in DAC Columns</b> <i>Jiann Lin Chen, Hsiang Tse Tseng, Cheng Che Liu, and Ming Tsai Liang</i>



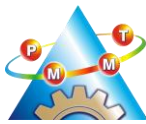
## Table of Oral Presentation

Date	Time	Elliott Room 3
Wednesday, 7th Feb	Section-7 13:30-14:30	<b>Chair : Bojan Podgornik</b>
		<b>ICPMMT 44 13:30 (Plenary Paper)</b> <b>Effect of Building Direction on Properties of Additive Manufactured Maraging Steel Parts</b> <i>Bojan Podgornik, Borut Žužek, Matjaž Godec, and Mario Šinko</i>
		<b>ICPMMT 39 14:00</b> <b>The Effect of Scan-Speed on Melt Pool Size and Stability During Electron Beam Melting of Ti-6Al-4V Alloy</b> <i>Mona Aziziderouei, Z.W. Chen, M. Newby, and T. Pasang</i>
		<b>ICPMMT 45 14:15</b> <b>A Low-Cost Tracking System for Smart Clothing Manufacturers</b> <i>Wei-Hsi Hung and Yen-Sheng Tsai</i>
Date	Time	Elliott Room 2
Wednesday, 7th Feb	Section-8 13:30-14:30	<b>Chair : De-Shin Liu</b>
		<b>ICPMMT 47 13:30 (Plenary Paper)</b> <b>Thermal Fatigue Analysis and Optimization of a Novel Multi-Chip-Module (MCM) Package</b> <i>De-Shin Liu, Ching-Yu Ni, and Geng-Shin Shen</i>
		<b>ICPMMT 70 14:00</b> <b>Effect of Open Atmosphere Heat Treatment on the Microstructural and Macro-hardness Properties of 60NiTi</b> <i>Khashayar Khanlari, Maziar Ramezani, Piaras Kelly, and Thomas Neitzert</i>
		<b>ICPMMT 71 14:15</b> <b>Design of Deep Learning on Intelligent Leveling System for Industry 4.0 Technology</b> <i>Sung-Yu Tsai and Jen-Yuan (James) Chang</i>



## Table of Oral Presentation

Date	Time	Elliott Room 3
Wednesday, 7th Feb	Section-9 14:30-15:30	<i>Chair : Tien-Tung Chung</i>
		ICPMMT 50      14:30    (Plenary Paper) <b>Two-Point Adaptive Method of Moving Asymptotes Approximation for Structural Optimization</b> <i>Tien-Tung Chung, Fong-Yuan Chen, Yu-Ching Chang, and Tyng Liu</i>
		ICPMMT 27      15:00 <b>The Effect of Thrust Force in Drilling Composite Materials Using Step Core-Ball Drill</b> <i>Chung-Chen Tsao</i>
		ICPMMT 101    15:15 <b>Investigation of Short Fibre Reinforcements for Rotational Moulding</b> <i>Günther Höfler, Richard J.T. Lin, and Krishnan Jayaraman</i>
Date	Time	Elliott Room 2
Wednesday, 7th Feb	Section-10 14:30-15:30	<i>Chair : Chul-Hee Lee</i>
		ICPMMT 82      14:30    (Plenary Paper) <b>A Study on Self-loosening of 3D Printed Bolted Joints</b> <i>Jun-Hee Wi, Kwang-Hee Lee, and Chul-Hee Lee</i>
		ICPMMT 52      15:00 <b>Finite Element Simulation and Analysis of Saw Cutting</b> <i>Dyi-Cheng Chen, You-Hua Chen, Ci-Syong You, and Shin-Han Huang</i>
		ICPMMT 100    15:15 <b>Flammability and Mechanical Characterization of Composites with Modified Fire Retardant Animal Fibres</b> <i>Ilenia Persi, Daeseung Jung, and Debes Bhattacharyya</i>



## Table of Oral Presentation

Date	Time	Elliott Room 3
Wednesday, 7th Feb	Section-11 15:45-16:45	<b>Chair : Song-Jeng Huang</b>
		<b>ICPMMT 33 15:45</b> <b>Mechanical Properties Enhancement of Mg/WS<sub>2</sub> Inorganic Nanotubes Metal Matrix Composites</b> <i>Song-Jeng Huang, Jheng-Yang Huang, and Alla Zak</i>
		<b>ICPMMT 89 16:00</b> <b>High Stiffness Hydrostatic Bearing System for Ultra precision Machines</b> <i>Ta-Hua Lai, Ting-Yu Chang, Ya-Lu Yang, and Shih-Chieh Lin</i>
		<b>ICPMMT 49 16:15</b> <b>Microstructure Evolution and Phase Transformation of Welded Metastable Beta-Titanium Alloy (Ti-5Al-5V-5Mo-3Cr)</b> <i>Yuan Tao, Tim Pasang, Shanghai Wei, and Zhan Chen</i>
		<b>ICPMMT 109 16:30</b> <b>Tunable Gauge Factor in Graphene/Silicone Rubber Stretch Sensor</b> <i>Agee Susan Kurian, Velram Mohan, and Debes Bhattacharyya</i>
Date	Time	Elliott Room 2
Wednesday, 7th Feb	Section-12 15:45-16:45	<b>Chair:Jong-Ning Aoh</b>
		<b>ICPMMT 115 15:45</b> <b>Additive Manufacturing of Gradient Structure of Dissimilar Aluminum Alloys using Friction Stir Processing (FSP)</b> <i>Jong-Ning Aoh, Chi-Wei Huang, and Yung-Feng Huang</i>
		<b>ICPMMT 76 16:00</b> <b>Application of Hot Forming Quenching on Patchwork Blank Using Two-stage Friction Stir Spot Welding</b> <i>D.S. Jo, J.H. Kim, D.C. Ko, and B.M. Kim</i>
		<b>ICPMMT 40 16:15</b> <b>Drillability of Titanium Alloy 6Al-2Sn-4Zr-6Mo: Cutting Forces Point of View</b> <i>Mahros Darsin, Tim Pasang, and Zhan Chen</i>
		<b>ICPMMT 63 16:30</b> <b>Cutting Performance Promotion by Different Assisted Machining Techniques for Inconel 718</b> <i>Shen-Yung Lin and Bing-Hsueh Yang</i>



## Table of Poster Presentation

Date	Paper No.	Pin board of Elliott Room
5th and 7th Feb	ICPMMT 04	<b>Generalized Optimizations of Two-Stage Forging of Micro/Meso Copper Fastener</b>  <i>Shih-Hsien Lin, Gow-Yi Tzou, Un-Chin Chia, and Dyi-Cheng Chen</i>
	ICPMMT 06	<b>Characteristic Research on Lithium Iron Phosphate Battery of Power Type</b>  <i>Yen-Ming Tseng, Hsi-Shan Huang, Li-Shan Chen, and Jsung-Ta Tsai</i>
	ICPMMT 07	<b>The Hydrodynamic Analysis of Non-Contact Mechanical Face Seals</b>  <i>Kuo-Ming Chang, Tzu-Fan Pao, and Wang-Long Li</i>
	ICPMMT 08	<b>Study on Micro Nosing Process Assisted by Ultrasonic Vibration</b>  <i>Chao-Cheng Chang and Sin-Siang Huang</i>
	ICPMMT 09	<b>Effects of Substrate Temperature on the Properties of the Indium Tin Oxide Thin Films Deposited by Sputtering Method</b>  <i>Chia-Ching Wu and Chien-Chen Diao</i>
th and 7th Feb	ICPMMT 10	<b>Evaluation of the Sinking Processes for High Pressure Gas Cylinders</b>  <i>Heng-Sheng Lin and Chia-Jung Lin</i>
	ICPMMT 11	<b>Numerical Simulation and Design of Casting System for Stainless Steel Exhaust Manifold</b>  <i>Pei-Hsing Huang, Jenn-Kun Kuo, Te-Hua Fang, and Wei-Jen Wu</i>
	ICPMMT 12	<b>Artificial Intelligence in Safety System</b>  <i>Li-Shan Chen, Yen-Ming Tseng, and Xiao-Na Lin</i>
	ICPMMT 14	<b>Design and Development of an Automatic Gas Poisoning Prevention and Ventilation System</b>  <i>Ho-Chih Cheng, Min-Chie Chiu, Che-Min Chiu, and Cheng-Ying Yang</i>
	ICPMMT 15	<b>An Assessment of Transmission Efficiency on a Hard Disk's Vibration</b>  <i>Ying-Chun Chang, Ho-Chih Cheng, Min-Chie Chiu, and Min-Shiang Chang</i>



## Table of Poster Presentation

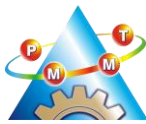
Date	Paper No.	Pin board of Elliott Room
<b>5th and 7th Feb</b>	<b>ICPMMT 16</b>	<b>An Internet of Things Architecture with Cloud Computing for High-Speed Spindle Vibration Monitoring</b> <i>Yu-Ching Mo, Wan-Jung Chang, and Yun-Hui Liu</i>
	<b>ICPMMT 23</b>	<b>Analyses of Contact Forces and Kinetic Motion on Heavy Load Ball-Screw</b> <i>Chin-Chung Wei and Wen-Hsien Kao</i>
	<b>ICPMMT 24</b>	<b>Based on FP LDs with Split Band Technique in Two-channel Fiber Optical CATV Transport System</b> <i>Wen-Shing Tsai, Hong-Yu Dai, and Chung-Yi Li</i>
	<b>ICPMMT 32</b>	<b>Novel Flexible Tool with Rotary Ultrasonic Spindle for Fine Grinding of Tungsten Carbide</b> <i>Albert Wen-Jeng Hsue and Yi-Zhong Zeng</i>
	<b>ICPMMT 34</b>	<b>Manufacturing of Dense 3Y-TZP Ceramics by Slip Casting and Pressureless-Sintering</b> <i>Dae Sung Kim, Jong Kook Lee, and Kyu Hong Hwang</i>
<b>5th and 7th Feb</b>	<b>ICPMMT 41</b>	<b>Design of a Semi-Automatic Control Structure for Human-Operated Manipulator</b> <i>Jian-Hong Liao and Liang-Kuang Chen</i>
	<b>ICPMMT 42</b>	<b>Numerical Simulation of the Vibration Suppression Control by Using Input Shaping Technique with Extended Kalman Filter</b> <i>Yen-Lin Lee and Yi-Cheng Huang</i>
	<b>ICPMMT 46</b>	<b>Study on the Forging Process of Parking Sensor Shell</b> <i>Tung-Sheng Yang and Jhong -Yuan Li</i>
	<b>ICPMMT 58</b>	<b>Healable and Foldable CNT/Wax Conductive Composite for Paper Electronics</b> <i>Tso-Hsuan Chen, Yu-Chi Yeh, Tien-Tung Chung, and Ying-Chih Liao</i>
	<b>ICPMMT 77</b>	<b>Multiple-point Measurement for Mechanical Strain, Raising Temperature and Working Frequency of a High Speed Spindle using One Fiber Bragg Grating Sensor</b> <i>Chien-Ching Ma, Ching-Yuan Chang, and Ruei-Cing Gong</i>





## Table of Poster Presentation

Date	Paper No.	Pin board of Elliott Room
5th and 7th Feb	ICPMMT 80	<b>Process Design of Multi-pass Profile Drawing Process</b> <i>In-Kyu Lee, Sung-Yun Lee, Da Hye Kim, Myeong-Sik Jeong, Jae-Wook Lee, Yong-Jae Cho, Sun-Kwang Hwang, Kyoung-Je Cha, Ji-Hyun Sung, and Sang-Kon Lee</i>
	ICPMMT 85	<b>A Study of Accuracy and Precision in 3D Printing using 2.5D Characterization with a Pre-Processing Method</b> <i>Yu-Sheng Lin and Yao-How Kuo</i>
	ICPMMT 87	<b>High Temperature Oxidation of Fe-12%Cr-(13-15)%Cu-4%Mn-0.3%C Composite Steels</b> <i>Dong Bok Lee, Seon Jin Kim, and Min Jung Kim</i>
	ICPMMT 93	<b>Design and Analysis for Manipulator Fixture Applications</b> <i>Ming-Chu Hsieh and Zhen-Hong Khong</i>
	ICPMMT 94	<b>Investigation of Microstructure and Tensile Property with Casting S45C Welding</b> <i>Chin-Guo Ku, Lih-Ren Hwang, and Yen-Tien Kang</i>
5th and 7th Feb	ICPMMT 97	<b>Bee Colony Optimization with Taguchi Method for Solving the Dynamic Economic Dispatch</b> <i>Chia-Sheng Tu, Hsi-Shan Huang, Ming-Tang Tsai, and Fu-Sheng Cheng</i>
	ICPMMT 98	<b>The Implementation of an Interactive Gaming Machine of "Mafia Wars"</b> <i>Jsung-Ta Tsai, Yen-Ming Tseng, Andrian Muzakki Firmansyah</i>
	ICPMMT 104	<b>Automated Tensile Testing Measurement by Using Digital Image Correlation</b> <i>Terry Yuan-Fang Chen and Liang-Wei Chang</i>
	ICPMMT 106	<b>Development of Fatigue Testing System and Its Application to Thin Hastelloy Panel</b> <i>Daejhoong Yoon and Ahn Jung Hwan</i>
	ICPMMT 107	<b>Design of a Solenoid Actuator for Ultra-high Pressure Hydrogen Gas Valve</b> <i>Jaeseong Choi, Jajun Ryu, and Hwayoung Kim</i>
5th and 7th Feb	ICPMMT 108	<b>On The Kinematics, Meshing Efficiency, and Prototype Manufacture of Planetary-Gear Hub for Bicycle</b> <i>Long-Chang Hsieh and Tzu-Hsia Chen</i>



	ICPMMT 111	<b>Design and Research on Uniform Temperature Distribution of Heat Sublimation Transfer Printing Rollers</b> <i>Ming-Chu Hsieh and Jung-Sen Lin</i>
	ICPMMT 113	<b>Material Analysis and Characterization of Working Electrodes of Dye-Sensitized Solar Cells</b> <i>Yeong-Lin Lai, Hung-Ru Hsu, Yeong-Kang Lai, Yung-Hua Chou, Nai-Kun Hsu, and Chun-Yi Zheng</i>
	ICPMMT 114	<b>Temperature and Roughness Properties of Cutting Surface of Band Sawing</b> <i>Jeng-Haur Horng, Wen-Hsien Kao, Mu-Yuan Li, Nai-En Xiao, and Wei-En Chen</i>
	ICPMMT 117	<b>Interfacial Properties of the AISI H13 Steel Deposited on Wrought Steels by Directed Energy Deposition Process</b> <i>Jong-Cheon Yoon, Ji-Hyun Sung, Kyoung-Je Cha, Yong-Jae Cho, Sang-Kon Lee, Sun-Kwang Hwang, Myeong-Sik Jeong, Jae-Wook Lee, and Da Hye Kim</i>
5th and 7th Feb	ICPMMT 120	<b>Application to Food Control Using Carbon Nanotubes-based Nanobiosensor</b> <i>Abdus sobhan, Jun-Hyun Oh, and Jinyoung Lee</i>
	ICPMMT 121	<b>Automatic Waste Water Treatment, Aeration, and Retrieval for a Hybrid Aquarium/Plant System</b> <i>An-Bang Cheng, Min-Chie Chiu, and Che-Min Chiu</i>
	ICPMMT 123	<b>A Wireless Rainwater Collecting, Filtering, and Storing System Using a Cell-phone</b> <i>An-Bang Cheng, Min-Chie Chiu, and Che-Min Chiu</i>
	ICPMMT 124	<b>Investigation on Rotating Compression of Porous Cylinder Under Constant Shear Friction Using FEM Simulation</b> <i>Gow-Yi Tzou, Yeong-Maw Hwang, and Sai-Chih Pan</i>
	ICPMMT 125	<b>Fabrication of Porous Ni-based Electrode Materials for Hydrogen Production in Alkaline Water Electrolysis</b> <i>Chang-Hee Kim, Hyun-Seok Cho, and Won-Chul Cho</i>

Please make your poster paper according to poster template downloaded from the website;  
then bring your poster on site to post on the pin board.