

2nd World Congress on Mechanical, Chemical, and Material Engineering (MCM'16)

The congress consists of:

3rd International Conference on Mining, Material and Metallurgical Engineering (MMME'16)

Room A (Zsolnay I)

3rd International Conference on Heat Transfer and Fluid Flow (HTFF'16)

Room A (Zsolnay I) + Room B (Zsolnay II)

5th International Conference on Mechanics and Industrial Engineering (ICMIE'16)

Room A (Zsolnay I)

2nd International Conference on Chemical and Polymer Engineering (ICCPE'16)

Room B (Zsolnay II)

Registrants from the four conferences are permitted to attend any sessions from any of the four conferences.

Monday August 22

8:00 AM	Registration	Session Chair: Dr. Yuyuan Zhao
9:00 AM – 9:15 AM	Official Opening of Congress - Room A	
9:15 AM – 10:00 AM	HTFF Keynote Lecture I - Room A: <i>Investigation of Transfer Characteristics of Complex Surfaces by using Periodic Models</i> Gergely Kristóf Budapest University of Technology and Economics, Hungary	
10:00 AM – 10:45 AM	MMME Keynote Lecture I - Room A: <i>Innovative Coatings for Tooling, Machining, Aerospace, Energy and Automotive Industry</i> Paul Mayrhofer Technische Universiaet Wien, Austria	
10:45 AM – 11:05 AM	Coffee Break	

11:05 AM – 12:35 PM (Parallel Sessions) - Room A

Session Name:
Nanotechnology and MMME

Session Chairs:
Dr. Paul Mayrhofer &
Dr. Ill-Soo Kim

Monday

11:05 AM – 11:15 AM

MMME 142: *An Integrated Valuation Tool for Uncertainties in Mining*

Claudel M Tsafack, Bernd G Lottermoser
RWTH Aachen University, Germany

11:15 AM – 11:35 AM

MMME 109: *Gold Recovery from Electronic Waste by Pressure Oxidation*

Andrea Alzate, María Esperanza López, Claudia Serna,
Oberlando Gonzalez
University of Antioquia, Colombia

11:35 AM – 11:55 AM

MMME 103: *Low Temperature Bonding of Pd/Ni Assembly for Hydrogen Purifier*

Yan-Cheng Lin, Chien-Hsun Chuang, Hsing-Hua Tsai,
Tung-Han Chuang
National Taiwan University, Taiwan

11:55 AM – 12:15 PM

MMME 112: *New Generation Rotary Drill Bits: Klaw Bit Performance Analysis and Compared with Tricone Bit*

Bahadır Ergener, Deyvi Akkriş, Curtis Larson, **Ömür Acaroğlu**, Hasan Ergin, Ufuk Çalışkan, Melis Toker
Istanbul Technical University, Turkey

12:15 PM – 12:35 PM

MMME 113: *Analysis of the EPB-TBM Excavation Parameters Used in a Tunnel Construction in Istanbul*

Omur Acaroglu Ergun, **Cemalettin Erdoğan**, Emre Ekinici
Istanbul Technical University, Turkey

11:05 AM – 12:35 PM (Parallel Sessions) - Room B

Session Name:
Heat Transfer Enhancement

Session Chairs:
Dr. Marc Miscevic &
Dr. Joon Ahn

Monday

11:05 AM – 11:25 AM

HTFF 110: *Experimental Study of an Industrial Latent Thermal Energy Storage System*
Kevin Merlin, Jérôme Soto, Didier Delaunay, Luc Traonvouez
Université de Nantes, France

11:25 AM – 11:45 AM

HTFF 148: *An Innovative Solution To Enhance The Performance Of Classical Heat Exchanger For Cooling Devices*
Prashant Kumar, Kevin Schmidmayer, Frederic Topin, Marc Miscevic
Aix-Marseille Université, France

11:45 AM – 11:55 AM

HTFF 123: *Calcium Sulphate Fouling in Plate Heat Exchangers*
Kang Sub Song, Changhyun Baek, Sungwoo Kim, Hanseok Mun, Yongchan Kim
Korea University, Korea

11:55 AM – 12:15 PM

HTFF 116: *Mixed Convection Characteristics of Ethylene Glycol and Water Mixture Based Al₂O₃ Nanofluids*
Elif Büyük Ögüt, Kamil Kahveci
Kocaeli University, Turkey

12:15 PM – 12:35 PM

HTFF 117: *A Numerical Study on Mixed Convection of Water-Based CuO Nanofluids in A Lid-Driven Square Enclosure: Effects of Viscosity Models*
Kamil Kahveci, Elif Büyük Ögüt
Trakya University, Turkey

**Group Photo of the Congress will be happening at 12:35 PM.
Please come to the registration desk to take the photo.**

12:35 PM – 1:35 PM

Lunch

1:35 PM – 2:20 PM	ICMIE Keynote Lecture - Room A: <i>A Guided Tour in Vibration Control: From Large Civil Structures to Precision Mechatronics</i> André Preumont Université libre de Bruxelles, Belgium	Session Chair: Dr. Yuyuan Zhao	
1:35 PM – 2:20 PM	HTFF Keynote Lecture II - Room B: <i>On the Scholarship of Generalization: Research at a Higher Level</i> Thomas M. Adams Rose-Hulman Institute Of Technology, USA	Session Chair: Dr. Gergely Kristóf	
2:20 PM – 3:15 PM (Parallel Sessions) - Room A		Monday	
Session Name: Renewable and Non-Renewable Energies			Session Chair: Dr. André Preumont
2:20 PM – 2:40 PM	ICMIE 105: <i>Fuzzy Control and Virtual Instrumentation for Superheated Steam Electrolysis in Solid Oxide Cells</i> Álvaro Aguinaga , Mauricio Duque, Fredy Llulluna, Telmo Moreno, Nelson Jara Escuela Politécnica Nacional, Ecuador		
2:40 PM – 3:00 PM	ICMIE 107: <i>Solar Purifier of the Seawater, to Ensure Food Security in Social Aspects of Low Income, who sit in Coastal Area and Islands of Ecuador</i> Fredy Llulluna, Mauricio Duque, Álvaro Aguinaga Escuela Politécnica Nacional, Ecuador		
3:00 PM – 3:15 PM	ICMIE 129: <i>Fluid-Structure Coupled Analysis of a Fabric-Covered Airfoil</i> Jae-Sunbe Bae , Soo-Yong Lee, Hark-Bong Kim, Jung-Sun Park KoreaAerospace University, Korea		
2:20 PM – 3:20 PM (Parallel Sessions) - Room B			

Session Name: Chemical and Polymer Engineering		Session Chair: Dr. Nicolas Abatzoglou
2:20 PM – 2:40 PM	ICCPE 113: <i>Development of Functional Agent Release Fabric Using B-Cyclodextrin Inclusion Compound</i> Subhas Ghosh , Roopkatha Pallye Michigan University, USA	Monday
2:40 PM – 3:00 PM	ICCPE 106: <i>Organosolv Modified Wheat Straw as Adsorbent for Basic Dyes in Water Bodies</i> Dimitrios Sidiras , Ioanna Salapa, Dorothea Politi University of Piraeus, Greece	
3:00 PM – 3:20 PM	ICCPE 103: <i>Self-Assembled Hyaluronic Acid-Gelatin Microhydrogel for Regenerating Neurite-Like Cells from Induced Pluripotent Stem Cells</i> Yung-Chih Kuo , Yu-Chun Chen National Chung Cheng University, Taiwan	
3:15 PM – 3:35 PM	Coffee Break	
3:35 PM – 5:35 PM (Parallel Sessions) - Room A		
Session Name: Materials and Mineral Processing I		Session Chairs: Dr. Paul Mayrhofer & Dr. André Carlos Silva
3:35 PM – 3:55 PM	MMME 105: <i>Reducing Dephosphorization of SiMn Alloy Melt and Suppression of Phosphine (PH₃) Gas Emission</i> Jae-Hong Shin, Joo Hyun Park Hanyang University, Korea	
3:55 PM – 4:15 PM	MMME 135: <i>Influence of Al and Ti Elements on the Microstructure and Properties of Crnifecoalxtiy Heas Fabricated By ECAS</i> Azmi Erdoğan , Sakin Zeytin Bartın University, Turkey	
4:15 PM – 4:35 PM	MMME 115: <i>Investigation of Possible Failure Locations: KDE of Intersection Points on Visible Rock Surfaces</i> Alparslan Turanboy, Erkan Ülker, Cahit B. Küçüksütçü Education and Consulting Ltd., Turkey	

4:35 PM – 4:55 PM	<p>MMME 127: <i>On-Line Model to Control Bead Height for Automatic GMA Welding Process</i> Joon Sik Son, Jong-Pyo Lee, Min-Ho Park, Byeong-Ju Jin, and Ill-Soo Kim Mokpo National University, Korea</p>		
4:55 PM – 5:15 PM	<p>MMME 106: <i>Diffusion Layer Growth Mechanism in ASPN Method Using an Iron Cage for St52 Steel</i> M. Kaini Salavat, M. Soltanieh, M. Hashemi Niasari Iran University of Science and Technology, Iran</p>		
5:15 PM – 5:35 PM	<p>MMME 114: <i>The Self-Propagating High Temperature Synthesis of Titanium Aluminides: A Parametric Study</i> M. Adeli, S.H. Seyedein, M.R. Aboutalebi, M. Kobashi, N. Kanetake University of Science and Technology (IUST), Iran</p>		
3:35 PM – 5:25 PM (Parallel Sessions) - Room B			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;"> <p style="text-align: center;">Session Name: Experimental Fluid Flow and Heat Transfer I</p> </td> <td style="width: 40%; padding: 5px;"> <p style="text-align: center;">Session Chairs: Dr. Gergely Kristóf & Dr. Kamil Kahveci</p> </td> </tr> </table>		<p style="text-align: center;">Session Name: Experimental Fluid Flow and Heat Transfer I</p>	<p style="text-align: center;">Session Chairs: Dr. Gergely Kristóf & Dr. Kamil Kahveci</p>
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3:35 PM – 3:45 PM	<p>HTFF 105: <i>Heat Transfer from a Cylinder in the Production and in the Decay Regions of Grid-Generated Turbulence</i> Gianfrancesco Melina, Paul J. K. Bruce, Geoffrey F. Hewitt, J. Christos Vassilicos Imperial College London, UK</p>		
3:45 PM – 4:05 PM	<p>HTFF 147: <i>Control of ONB by Dynamic Actuation: An Open Question</i> Laetitia Léal, Pascal Lavieille, François Pigache, Frédéric Topin, Marc Miscevic Université de Toulouse, France</p>		
4:05 PM – 4:25 PM	<p>HTFF 146: <i>Visual Observation of Nucleate Boiling and Sliding Phenomena of Boiling Bubbles on a Horizontal Tube Heater</i> Jae Soon Kim, Yu-Na Kim, Goon-Cherl Park, Hyoung Kyu Cho Seoul National University, Korea</p>		
4:25 PM – 4:45 PM	<p>HTFF 120: <i>A Novel Waste Plastics Firing System Based On the Melting/Gasification Characteristics</i> Joon Ahn, Hyouck Ju Kim Kookmin University, Korea</p>		

4:45 PM – 5:05 PM	<p>HTFF 137: <i>Aerodynamic Analysis of a Bioinspired Multilayer Flexible Wing</i> Csaba Hefler, Tim Marco Corti, Huihe Qiu The Hong Kong University of Science & Technology, China</p>
5:05 PM – 5:25 PM	<p>HTFF 143: <i>Study on the Characteristic of External Conformal Turbine for Underwater Moving Body Measurement</i> Jiangfeng Tu, Shaojie Ma, He Zhang Nanjing University of Science and Technology, China</p>
5:35 PM – 6:35 PM (Parallel Sessions) - Room A	
Session Name: Mechatronics and Robotics	Session Chairs: Dr. Alvaro Aguinaga & Dr. Jae-Sung Bae
5:35 PM – 5:55 PM	<p>ICMIE 121: <i>Robotic Tray-Handling in Medical Chewing Gum Production</i> Xuping Zhang, Simon Heide-Jørgensen, Kasper Næsby Frederiksen, Nicolai Helsinghoff, Haijie Li, Jacob Albertsen Aarhus University, Denmark</p>
5:55 PM – 6:15 PM	<p>ICMIE 109: <i>Modelling Open Kinematic Chains Through General Matrix Movements</i> M. Granja, A. Chang Escuela Politécnica Nacional, Ecuador</p>
6:15 PM – 6:25 PM	<p>ICMIE 118: <i>Comparison between Standard and Modified Denavit-Hartenberg Methods in Robotics Modelling</i> M. Granja, N. Chang, V. Granja, M. Duque, F. Llulluna Escuela Politécnica Nacional, Ecuador</p>

Monday

6:25 PM – 6:35 PM	<p>ICMIE 110: <i>Signal Processing Method for Vehicle Wheel Force Sensor using DSP</i> Jinsung Lee, Kyuwon Jeong Chungbuk National University, Korea</p>
5:25 PM – 6:15 PM (Parallel Sessions) - Room B	
Session Name: Turbulent Flow and Heat Transfer	Session Chair: Dr. Gergely Kristóf
5:25 PM – 5:35 PM	<p>HTFF 134: <i>Investigation on Heat Transfer Behaviour of Supercritical Nitrogen</i> Ciprian Constantin Negoescu, Yongliang Li, Bushra Al-Duri, Yulong Ding University of Birmingham, UK</p>
5:35 PM – 5:55 PM	<p>HTFF 119: <i>Improved Method for Converting Equivalent Sand-grain Roughness to Hazen-Williams Coefficient</i> Thomas M. Adams Rose-Hulman Institute of Technology, USA</p>
5:55 PM – 6:15 PM	<p>HTFF 121: <i>Flow Characteristics in an Inter-Turbine Duct Under Off Design Conditions</i> A. Lakshya Kumar and A. M. Pradeep Indian Institute of Technology, India</p>

Monday

Tuesday

August 23

9:00 AM – 9:45 AM	MMME Keynote Lecture II - Room A: <i>Fluid Flow and Heat Transfer in Porous Metals Manufactured by Lost Carbonate Sintering</i> Yuyuan Zhao University of Liverpool, UK	Session Chair: Dr. Gergely Kristóf
9:45 AM – 10:30 AM	ICCPE Keynote Lecture - Room A: <i>Production of Carbon Nanofilaments from Waste Streams and Their Use as Polymers Additives</i> Nicolas Abatzoglou Université de Sherbrooke, Canada	
10:30 AM – 10:50 AM	Coffee Break	
10:50 AM – 12:30 PM (Parallel Sessions) - Room A		
Session Name: Materials and Mineral Processing II		Session Chairs: Dr. Fernanda Margarido & Dr. Carlos Nogueira
10:50 AM – 11:10 AM	MMME 129: <i>Influence of the Moisture Content on the Flowability of Blast Furnace Dust</i> Christof Lanzerstorfer University of Applied Sciences Upper Austria, Austria	
11:10 AM – 11:30 AM	MMME 136: <i>Size Dependence of the Filter Dust Composition of a Secondary Copper Smelting Furnace</i> Christof Lanzerstorfer University of Applied Sciences Upper Austria, Austria	
11:30 AM – 11:50 AM	MMME 120: <i>Optimal Dosage of Naoh Regarding the Solution Temperature during Corn Starch Gelatinization</i> André Carlos Silva, Débora Nascimento Sousa, Elenice Maria Schons Silva, Thales Prado Fontes, Raphael Silva Tomaz, Mariana Resende Barros Federal University of Goiás, Brazil	

11:50 AM – 12:10 PM	<p>MMME 121: <i>Influence of Pulsation Frequency in Iron Oxide Jigging</i> André Carlos Silva, Débora Nascimento Sousa, Elenice Maria Schons Silva, Thales Prado Fontes, Raphael Silva Tomaz, Mariana Resende Barros Federal University of Goiás, Brazil</p>
12:10 PM – 12:30 PM	<p>MMME 111: <i>Comparative Design and Cost Analysis of Cylindrical Storage Tanks with Different Head Types by Using COMPRESS</i> M. Tahir Altinbalik, Selin İsençik Trakya University, Turkey</p>
10:50 AM – 12:20 PM (Parallel Sessions) - Room B	
<p>Session Name: Numerical Fluid Flow and Heat Transfer I</p>	<p>Session Chairs: Dr. Huihe Qiu & Dr. Bhaskar Roy</p>
10:50 AM – 11:10 AM	<p>HTFF 126: <i>Dynamic Mode Decomposition of Axisymmetric Synthetic Jet on the Limit of Its Formation</i> Tomas Hyhlik CTU in Prague, Czech Republic</p>
11:10 AM – 11:30 AM	<p>HTFF 145: <i>Phase Change Materials to Meet Domestic Space Heating Demand in the UK - A Numerical Study</i> Jose Pereira da Cunha, Philip C. Eames Loughborough University, UK</p>
11:30 AM – 11:40 AM	<p>HTFF 132: <i>Circulating Tumor Cell Adhesion in Microcirculation</i> Lanlan Xiao, Yang Liu, Shuo Chen, Bingmei Fu The Hong Kong Polytechnic University, China</p>
11:40 AM – 12:00 PM	<p>HTFF 102: <i>Investigation of a New Installation for Improving the Efficiency of the Air-Cooled Condenser Fans in Thermal-Power Plants</i> Daqiang Yan, Jinghao Li, Weikun Ding State Nuclear Power Software Development Center (SNPSDC), China</p>

12:00 PM – 12:20 PM	HTFF 130: <i>Heat Transfer Correlations for Refrigerated Containers</i> Nuri Kayansayan, Ersin Alptekin , Mehmet Akif Ezan Near East University, Turkey
12:20 PM – 1:20 PM	Lunch
1:20 PM – 2:50 PM (Parallel Sessions) - Room A	
Session Name: Industrial Engineering	Session Chairs: Dr. André Preumont & Dr. Chih-Cheng Yang
1:20 PM – 1:30 PM	ICMIE 113: <i>Singular Spectrum Analysis and Neural Network to Forecast Demand in Industry</i> Rafael Ferreira Lopes , Fabiano Frago Costa, Antonio Cezar de Castro Lima Federal University of Bahia, Brazil
1:30 PM – 1:50 PM	ICMIE 101: <i>Supplier Evaluation and Selection Using AHP Method and Uncertainty Theory</i> Wan Sup Um Gangneung-Wonju National University, Korea
1:50 PM – 2:10 PM	ICMIE 111: <i>Design of Blue Pottery Working Table for Indian Population Using Taguchi Approach</i> Awadhesh Kumar , Monica Sharma, Govind Sharan Dangayach, Anand Kumar K Malaviya National Institute of Technology, India
2:10 PM – 2:30 PM	ICMIE 112: <i>Identification and Analysis of Comfort Predictors in the Use of a Hand Tool</i> Monica Sharma , Awadhesh Kumar, Dipayan Das Malaviya National Institute of Technology, India
2:30 PM – 2:50 PM	ICMIE 127: <i>Presenting Countermeasures against Deviations in Projects Progress, Using Improved S-Curve</i> Kaveh M. Cyrus , Ali Maaleki Amirkabir University of Technology, Iran

1:20 PM – 2:30 PM (Parallel Sessions) - Room B

Session Name:
Numerical Fluid Flow and Heat Transfer II

Session Chairs:
Dr. Pavol Vitkovic &
Dr. Aldo Tamburrino

1:20 PM – 1:40 PM

HTFF 140: *Simulation of 2D Heat Transfer in a Horizontal Plane with Thermal Resistance-Capacitance Model*
Eric Rohrbach, **Lanbo Liu**
University of Connecticut, USA

1:40 PM – 1:50 PM

HTFF 150: *Droplet Dynamics and Heat Transfer on Wettability Patterned Surfaces*
Xin Cai, Minghao He, **Huihe Qiu**
The Hong Kong University of Science & Technology, China

1:50 PM – 2:10 PM

HTFF 124: *Behaviour of Secondary Coolant Flow on the Turbine Blade Surface*
Bhaskar Roy, Preetam S
Indian Institute of Technology, India

2:10 PM – 2:30 PM

HTFF 135: *Numerical Investigation of Air-Side Heat Transfer and Fluid Flow in a Microchannel Heat Exchanger*
Ubade Kemerli, Kamil Kahveci
Trakya University, Turkey

2:40 PM – 3:00 PM

Coffee Break

2:40 PM – 3:40 PM

Parallel Poster Session (Pg. 15)

3:00 PM – 4:00 PM (Parallel Sessions) - Room A

Session Name:
Applied Mechanics

Session Chairs:
**Dr. Awadhesh Kumar &
Dr. Monica Sharma**

3:00 PM – 3:20 PM

ICMIE 116: *Simulating Two-Dimensional Stick-Slip Motion of a Rigid Body using a New Friction Model*
Yunsu Na, Sherif El-Tawil, Ahmed Ibrahim, Ahmed Eltawil
University of Michigan, USA

3:20 PM – 3:40 PM

ICMIE 115: *Optimization in Spheroidized Annealing of Two AISI 1022 Low Carbon Steels Used in Bolt Industry*
Chih-Cheng Yang, Chang-Lun Liu
Kao Yuan University, Taiwan

3:40 PM – 3:50 PM

ICMIE 122: *Design and Deformation Analysis of Six-component Wheel Dynamometer*
Changhwan Shin, Hyunchang Yoo, **Jinwon Joo**
Chungbuk National University, Korea

3:50 PM – 4:00 PM

ICMIE 114: *Mechanical Properties of Dissimilar Friction Stir Welded Joints between AA7075-O and AA6061-O Alloys*
Nahit Öztoprak, H. Tarık Serindağ, Ç. Emine Yeni, B. Gören Kırıl
Dokuz Eylul University, Turkey

4:00 PM – 5:20 PM (Parallel Sessions) - Room A

Session Name:
Materials and Mineral Processing III

Session Chairs:
**Dr. André Carlos Silva
& Dr. Carlos Nogueira**

4:00 PM – 4:20 PM

MMME 128: *Optimization of Welding Speed Using Mahalanobis Distance Method on a Vertical-Position Welding Process*
Khairul Muzaka, Min-Ho Park, Jong-Pyo Lee, Byeong-Ju Jin, Do-Hyeong Kim and **Ill-Soo Kim**
Mokpo National University, Korea

Tuesday

4:20 PM – 4:40 PM	<p>MMME 139: <i>Development and Characterization of Mechanically Alloyed and Sintered (Al-7wt.%Si)-2wt.%VB Composites</i> Sıddıka Mertdinç, Emre Tekoğlu, Duygu Ağaoğulları, Hasan Gökçe, M. Lütfi Öveçoğlu Istanbul Technical University, Turkey</p>		
4:40 PM – 5:00 PM	<p>MMME 140: <i>Effect Of Parameters to the Coating Formation During Cold Spray Process</i> Ozlem Cetin, Onur Tazegul, E. Sabri Kayali Istanbul Technical University, Turkey</p>		
5:00 PM – 5:20 PM	<p>MMME 138: <i>Effect of NbB2 Addition on the Microstructure and Mechanical Properties of Mechanically Alloyed Al-12.6Si Alloys</i> Emre Tekoğlu, Sıddıka Mertdinç, Hasan Gökçe, Duygu Ağaoğulları, M. Lütfi Öveçoğlu Istanbul Technical University, Turkey</p>		
3:00 PM – 5:20 PM (Parallel Sessions) - Room B			
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3:00 PM – 3:20 PM	<p>HTFF 127: <i>Thermal Performance of Wet Cooling Tower with Grid Fill</i> Pavol Vitkovic, Lukas Dvorak Czech Technical University in Prague, Czech Republic</p>		
3:20 PM – 3:40 PM	<p>HTFF 125: <i>Concentration Distribution of Solid Particles Transported by a Pseudoplastic Fluid</i> Aldo Tamburrino, Gonzalo Montserrat, Christian Ihle University of Chile, Chile</p>		
3:40 PM – 4:00 PM	<p>HTFF 144: <i>Evaporation Heat Transfer Coefficients Of R-446A And R-1234ze(E)</i> Minsoo Kim and Keumnam Cho Sungkyunkwan University, Korea</p>		

4:00 PM – 4:20 PM	<p>HTFF 114: <i>Applying the Shadow Photography and Interferometric Particle Imaging Methods for Determining the Integral Characteristics of Water Droplet Evaporation in Hot Combustion Products of Typical Liquid Flammable Substances</i> Alena O. Zhdanova, Pavel A. Strizhak, Maxim V. Piskunov National Research Tomsk Polytechnic University, Russia</p>
4:20 PM – 4:40 PM	<p>HTFF 118: <i>Experimental Study of Heat Transfer in a Container Filled with Water and Cooled by a Peltier Device</i> Hilmi Kuşçu, Kamil Kahveci Trakya University, Turkey</p>
4:40 PM – 5:00 PM	<p>HTFF 149: <i>A Novel Desalination System with Evacuated Tube Solar Collector</i> Mustafa Burak Bahadır, Ahmet Çağlar Akdeniz University, Turkey</p>
5:00 PM – 5:20 PM	<p>HTFF 112: <i>Investigation of Microwave Drying Characteristics of Carrot Slices</i> Dinçer Aka, Kamil Kahveci Trakya University, Turkey</p>
5:20 PM – 5:40 PM	<p>HTFF 107: <i>Comparison between the Performances of a Bubble Pump Generator with Inlets Configurations</i> Bella Gurevich, Michael Jelinek, Irene Borde, Avi Levy Shamoon College of Engineering, Israel</p>
8:00 PM – 10:00 PM	Closing Ceremony

Tuesday

Poster Session

August 23

2:40 PM – 3:40 PM

MMME 104: *Numerical Simulation of the Sintering Process*

Jong-in Park, Byung-kook Cho, Eun-ho Jeong

POSCO, Korea

MMME 108: *Fabrication and Properties of Plasma Resistant YAS Frit-coated Al₂O₃*

Eui-Keun Park, Hyun-Kwuon Lee

Kumoh National Institute of Technology, Korea

MMME 119: *Formation of Carbon Nanomaterials Having the Brittle Star-Like Morphology*

Gi-Hwan Kang, Sung-Hoon Kim

Silla University, Korea

MMME 122: *Hydroxyapatite Formation on Single Crystal of Calcium Carbonate under Hydrothermal Condition*

Ill Yong Kim, Chikara Ohtsuki

Nagoya University, Japan

MMME 130: *PEALD-TiN based Thin Films for High Performance Metallic Bipolar Plates of PEMFCs*

Se-Hun Kwon, Eun-Young Yun, Han-Bo-Ram Lee

Pusan National University, Korea

MMME 131: *The Effects of Sorting on the Aluminium Recycling Process in a Rising Demand Market*

H. Rodrigues, F. Margarido, C. A. Nogueira

Instituto Superior Técnico, Portugal

MMME 133: *Safety Culture Maturity in Several Latin America Mining Activities*
Marc Bascompta, Lluís Sanmiquel, Josep Oliva, Hernán F. Anticoi, Eduard Guasch
Polytechnic University of Catalonia (UPC), Spain

MMME 134: *Comparison of Accidents at Work between Open Pit and Underground Mining in Spain Using Data Mining Techniques*
Lluís Sanmiquel, Marc Bascompta, Josep M^a Rossell, Josep Oliva, Hernán F. Anticoi, Eduard Guasch
Polytechnic University of Catalonia (UPC), Spain

MMME 141: *Resource Assessment of Lithium-Rich Brines, Germany*
Bernd G Lottermoser
RWTH Aachen University, Germany

HTFF 111: *Study of Air Cooling System for Temperature Controlled Steel Rods*
Jun-Tae Lee, Seungjin Lee, Seongkyu See
POSCO, Korea

HTFF 142: *Transient Stratified Flow in a Differentially-Heated Rectangle with Highly-Conducting Horizontal Walls*
Jun Sang Park
Halla University, Korea

HTFF 152: *Design Of A Parabolic Trough Solar Collector Using A Concentrator With High Reflectivity*
Ahmet Çağlar
Akdeniz University, Turkey

ICMIE 124: *Design and Fabrication of MEMS-based Tire Pressure Sensor*
Chia-Yen Lee, Chun-Wei Yang, Lung-Ming Fu
National Pingtung University of Science and Technology, Taiwan

ICMIE 119: *Study of the Selection Criteria for the Auto-Chemical Analyser In the Medical Instruction below Hospital Level based AHP*
Do-Hyun Kim, Won-Chul Seo, Jong-Seok Seo, **Young Seok Ock**
Pukyong National University, Korea

ICCPE 101: *Treatment For Glioblastoma Multiforme Using Solid Lipid Nanoparticles With Grafted Melanotransferrin Antibody*

Yung-Chih Kuo, **Yin-Wei Chao**

National Chung Cheng University, Taiwan

ICCPE 119: *Viscosity Investigation of Gelatin Based Solutions Including Olive Mill Wastewater*

Elif Dicle Firat, Fatma Gülay Acar

İstanbul Technical University, Turkey

ICCPE 122: *Turn-Off Fluorescence Detector for Cu²⁺ Ions; GdVO₄:Eu Nanoparticles*

Hyunsub Kim, **Song-Ho Byeon**

Kyung Hee University, Korea