E-JUST
ICMSE-RAC
11 - 13 March 2018
International Conference on Materials Science and Engineering
Recent Advances and Challenges

http://icmse-rac.ejust.edu.eg
Alexandria, Egypt
## Technical Program

**Sunday 11\textsuperscript{th} of March**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 - 13:00</td>
<td>Registration</td>
</tr>
<tr>
<td>9:00 - 10:00</td>
<td>Coffee and Tea at Reception Hall - 2\textsuperscript{nd} Floor</td>
</tr>
<tr>
<td>[10:00 - 11:00]</td>
<td>Opening Sessions</td>
</tr>
</tbody>
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**Venue:** Main Hall

**Chairs:**
- Prof. Venice Gouda: Ex-minister of Scientific Research and Technology, Egypt.
- Prof. Ehab El-Rahman: AUC Provost, Egypt

**Coordinator:**

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<tr>
<th>Time</th>
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</table>
| 11:15 - 11:45 | ICMSE-93: **Prof. Koji Hashimoto:** Tohoku Institute of Technology, Sendai, Japan  
“For Sustainable Development of the Whole World by Renewable Energy” |
| 11:45 - 12:15 | ICMSE-205: **Prof. Shunichi Fukuzumi:** Meijo University, Nagoya, Japan  
“Production and Utilization of Liquid Solar Fuels” |
| 12:15 - 12:45 | ICMSE-350: **Prof. Mamoun Muhammed:** Royal Institute of Technology (KTH), Stockholm  
“Nanomaterials for Green Energy: Low Temperature Solid Oxide Fuel Cells.” |
| 12:45 - 13:00 | ICMSE-387: **Prof. Yoshihisa Matsushita:** EJUST, Egypt  
“Advanced Research Equipment and Technology Management in E-JUST” |
| 13:00 - 14:00 | Light Lunch                               |
### [14:00-15:30] Keynotes II

**Venue:** Main Hall  
**Chairs:**  
- Prof. Osamu Tabata: Kyoto University, Japan  
- Prof. Sherif Sedki: Zewail City Provost, Egypt  
**Coordinator:**

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| 14:00 - 14:30 | ICMSE-267: **Prof. Jan G. Korvink:** Karlsruhe Institute of Technology, Germany.  
“Microscale Magnetic Resonance Detectors: a Technology Roadmap for in Vivo Metabolomics” |
| 14:30 - 15:00 | ICMSE-300: **Prof. Wonwoo Nam:** Ewha Womans University, Seoul, Korea.  
“Biomimetic Metal-Oxygen Intermediates in Dioxygen Activation Chemistry” |
| 15:00 - 15:30 | ICMSE-266: **Prof. Wolfgang Heiss:** Friedrich-Alexander-Universität Erlangen, Germany.  
“Hydrogen Bonded Organic Pigment Colloidal Nanocrystals” |
| 15:30 - 16:00 | Coffee Break                                                            |
### Session I-1: Sensors and Devices

**Venue:** Main Hall  
**Chairs:**  
- Prof. Jan G. Korvink: Karlsruhe Institute of Technology, Germany  
- Prof. Samy El- Shall: VCU, USA  
**Coordinator:**

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<thead>
<tr>
<th>Time</th>
<th>Invited</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>16:00 - 16:20</td>
<td>Prof. Hidetoshi Kotera</td>
<td>ICMSE-406</td>
<td>Prof. Hidetoshi Kotera, Kyoto University, Japan “Advancement of Micro Total Analysis System for Regenerative Medicine”</td>
</tr>
<tr>
<td>16:20 - 16:40</td>
<td>Prof. Ulrike Wallrabe</td>
<td>ICMSE-392</td>
<td>Prof. Ulrike Wallrabe, Freiberg University, Germany “Non-Mainstream Approaches to Wireless Energy Transfer”</td>
</tr>
<tr>
<td>16:40 - 17:00</td>
<td>Prof. Mohamed Omer</td>
<td>ICMSE-393</td>
<td>Prof. Mohamed Omer, Assuit University, Egypt “Mechanical Properties of Biological Cells as a Biomarker for Diagnostics”</td>
</tr>
<tr>
<td>17:00 - 17:15</td>
<td>Dr. A. S. Atlam</td>
<td>ICMSE-319</td>
<td>Dr. A. S. Atlam, Tanata University, Egypt “A New Microcontroller Based System for Resistance Measurements of Gas Sensing Materials”</td>
</tr>
<tr>
<td>17:15 - 17:30</td>
<td>Dr. Elsayed Mostafa</td>
<td>ICMSE- 047</td>
<td>Dr. Elsayed Mostafa, CMRDI, Egypt “Electrochemical-anodization Synthesis of Spinel Cobalt Ferrite Films on Various Substrates from Aqueous Medium for Toxic Petrochemical Gas sensing and Pharmaceutical Applications”</td>
</tr>
</tbody>
</table>

### Session I-2: Nanomaterials

**Venue:** Hall A  
**Chairs:**  
- Prof. Tarek Abdel-Fattah, Newport University, USA  
- Prof. Afaf Al-Oufy, Alexandria University, Egypt  
**Coordinator:**
<table>
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<tr>
<th>Time</th>
<th>Speaker/Topic</th>
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| 16:00 - 16:20| **Invited** ICMSE-407: **Prof. Shinsuki Mori**: Tokyo Institute of Technology, Japan  
“Synthesis of Carbon Nanomaterials by Plasma-Enhanced CVD and their Nanostructure Control” |
| 16:20 - 16:40| **Invited** ICMSE-025: **Prof. Ahmed Abd El-Aziz**: German University, Egypt.  
“Materials Structure Development from Micro- to Nano: processes, Properties and Applications” |
| 16:40 - 17:00| **Invited** ICMSE-218: **Dr. Islam Shyha**: North Umbria University, Newcastle, UK  
“Environmental Impact of the Nano-Particle Release When Machining Nanostructured Composite Materials” |
| 17:00 - 17:15| **Invited** ICMSE-148: **Dr. Hani Nasser Abdel Hamid**: Stockholm University, Sweden.  
“Metal-organic Frameworks: Recent Advances and Challenges” |
| 17:15 - 17:30| ICMSE-321: **Eng. Al-Hassan M. Nasser**: EJUST, Egypt  
“Study of the Reduction of Fe on Reduced Graphene Oxide as a Catalyst for Carbon Monoxide Reduction” |

**Session I-3: Materials for High Performance Mechanical Applications I**

**Venue:** Hall B  
**Chairs:**  
👩‍🏫 Prof. Adel Nofal, CMRDI, Egypt  
👨‍🏫 Prof. Saad El-Raghee: Cairo University, Egypt

**Coordinator:**

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| 16:00 - 16:20| **Invited** ICMSE-22: **Prof. Abdel-Hamid Hussein**: Cairo University, Egypt  
“Prominent Achievements of Laser Surface Treatment of Martensitic Stainless Steel and Alpha-Beta 6/4 Titanium Alloy” |
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| 16:20 - 16:40 | **Invited**  
**ICMSE-197: Prof. Taher A. El-Bitar:** CMRDI, Egypt  
“Thermo-mechanical Processing – A Value Added Process in Steel Industry” |
| 16:40 - 16:55 | **ICMSE-073: Dr. Eman Hassan El-Shenawy:** CMRDI, Egypt  
| 16:55 - 17:10 | **ICMSE-211: Dr. M. Kananen,** University of Oulu, Finland  
“Mechanical Properties of a “Simple Panel Structure” Manufactured from Extremely High Strength Stainless Steel” |
| 17:10 - 17:25 | **ICMSE-195: Dr. Mikko Hietala,** University of Oulu, Finland  
“Bending Strength of Laser Welded Corrugated Steel Panels of Ultrahigh Strength Steel” |
| 17:25 - 17:40 | **ICMSE-247: Dr. Saeed Ghali,** CMRDI, Egypt  
“Influence of Molybdenum Replacement by Tungsten in Cr-Mo-V Steel” |
| 17:40 - 17:55 | **ICMSE-203: Dr. Matias Jaskari,** University of Oulu, Finland  
“The Effect of Heating Rate on Texture and Formability of Ti-Nb Stabilized Ferritic Stainless Steel” |

**[15:45 - 17:40] Session I-4: Mechanics of Materials, Material Modeling and Simulation Techniques**

**Venue:** Hall C  
**Chairs:**  
- Prof. Shingawa, Kyushu University, Japan  
- Prof. Mohsen Hassan, E-JUST, Egypt  
**Coordinator:**

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| 15:45 - 16:05 | **Invited**  
**ICMSE-408: Prof. Kazuaki Sanada:** Toyama University, Japan  
“Microstructural Design and Evaluation of Self-Healing Polymer Composites” |
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<th>Time</th>
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<tbody>
<tr>
<td>16:05 - 16:25</td>
<td>ICMSE-024: <strong>Dr. Ahmad Mohammad Bahgat</strong>: CMRDI, Egypt&lt;br&gt;“Finite Element Analysis of Tail Gate of the First Saudi Car GAZAL1”</td>
</tr>
<tr>
<td>16:25 - 16:40</td>
<td>ICMSE-278: <strong>Eng. Shimaa Helal El-sayed Helal</strong>: Alexandria University, Egypt&lt;br&gt;“Modelling of an Industrial Reactor for Ammonia Oxidation”</td>
</tr>
<tr>
<td>16:55 - 17:10</td>
<td>ICMSE-225: <strong>Eng. Dina Fouad</strong>: AUC, Egypt&lt;br&gt;“Multi-Channel Spiral Twist Extrusion (MCSTE) - A Novel Severe Plastic Deformation Method: A Numerical and Experimental Study”</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td><strong>Dinner with Invitation</strong></td>
</tr>
</tbody>
</table>
# Monday 12th March

**[9:00-11:00] Keynotes III**

**Venue:** Main Hall  
**Chairs:**  
- Prof. Hidetoshi Kotera, Kyoto University, Japan  
- Prof. Prof. Mamoun Muhammed: KTH, Sweden  
**Coordinator:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:00 - 9:30</td>
<td>ICMSE-383: Prof. Adel Nofal: CMRDI, Egypt</td>
<td>“Cast Iron, a New Material”</td>
</tr>
<tr>
<td>9:30 - 10:00</td>
<td>ICMSE-224: Prof. M. Samy El- Shall: VCU, USA</td>
<td>“Graphene-based Materials for Applications in Heterogeneous Catalysis, Water Treatment and Solar Water Desalination”</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>ICMSE-229: Prof. Tarek Abdel-Fattah: Newport University, USA</td>
<td>“The World of Nanostructured Materials: Synthesis of Nested Coaxial Multiple-Walled Nanotubes”</td>
</tr>
<tr>
<td>10:30 -11:00</td>
<td>ICMSE-398: Prof. Timo Jacob: Ulm University, Germany.</td>
<td>“Measuring an Electrocatalyst’s Vital Signs: the Need for in Operando Studies”</td>
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**11:00 - 11:30**  
**Coffee Break**
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<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>11:30 - 11:50</td>
<td>Invited</td>
<td>Prof. Motofumi Suzuki</td>
<td>Kyoto University, Japan</td>
<td>Perfect Absorbers Structured by Glancing Angle Deposition</td>
</tr>
<tr>
<td>11:50 - 12:10</td>
<td>Invited</td>
<td>Prof. Jean Ebothé</td>
<td>Université de Reims</td>
<td>Real Surface Feature and Physical Properties of Nano-structured Thin Films</td>
</tr>
<tr>
<td>12:10 - 12:30</td>
<td>Invited</td>
<td>Prof. Hiroyuki Sugimura</td>
<td>Kyoto University, Japan</td>
<td>UV Photo-reduction of Graphene Oxide and Its Micro-Structural Analysis</td>
</tr>
<tr>
<td>12:30 - 12:45</td>
<td>Invited</td>
<td>Prof. Piotr Zabanski</td>
<td>AGH University of Science</td>
<td>Magnetic Field Assisted Electrodeposition of Co-Ru Nanorods for Water Splitting Reaction</td>
</tr>
<tr>
<td>12:45 - 13:00</td>
<td></td>
<td>Dr. Salah Salman</td>
<td>Al-Azhar University, Egypt</td>
<td>Characterization and Structure Analysis of the Anodic Film Formed on AZ3 Mg Alloy in KOH Alkaline Solution with Various Additives</td>
</tr>
</tbody>
</table>
**Session II-2: Electronic, Optical and Magnetic Materials**

**Venue:** Hall A  
**Chairs:**  
- Prof. Ulrike Wallrabe: Freiberg University, Germany  
- Prof. Mohamed Rashad: CMRDI, Egypt  
**Coordinator:**

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</table>
| 11:30 - 11:50 | **Invited**  
ICMSE-412: **Prof. Hiroyuki Nakamura**, kyoto University, Japan  
“Origin of Magnetic Anisotropy Enhancement in Ferrite Magnet” |
| 11:50 - 12:10 | **Invited**  
ICMSE-369: **Prof. Abd El-Hady Kashyout**, SRTA, Egypt  
“Synthesis and Characterization of InxGa1-xN Active Layers Optoelectronic Devices” |
| 12:10 - 12:25 |  
ICMSE-370: **Dr. Mohamed A. Kassem**, Assuit University, Egypt  
“Thermoelectric Performance and Anisotropic Electronic Transport in Co\textsubscript{3}Sn\textsubscript{2-x}In\textsubscript{x}S\textsubscript{2} Single Crystals” |
| 12:25 - 12:40 |  
ICMSE-112: **Dr. Diaa A. Rayan**, CMRDI, Egypt  
“Remarkable Impact of Synthesis Strategy on the Structural and Magnetic Properties of Hexaferrite Ba\textsubscript{2}Co\textsubscript{2}Fe\textsubscript{12}O\textsubscript{22} Nanopowders” |
| 12:40 -12:55 |  
ICMSE-081: **Dr. Maha Ayman**, GUC, Egypt  
“Synthesis and Characterization of Perovskite BiSrFeO\textsubscript{3} Nanomaterial Doped Rare Earth ions” |
### Session II-3: Materials for High Performance Mechanical Applications II

**Venue:** Hall B  
**Chairs:**  
- Prof. Hanadi Salem: AUC, Egypt  
- Prof. Abd El-Hamid Hussein: Cairo University, Egypt  
**Coordinator:**

<table>
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| 11:30 - 11:50 | ICMSE-223: **Prof. Ehab El-Danaf**: Cairo University, Egypt  
“Severe Plastic Deformation: An Effective Approach for Grain Refinement and Strength Enhancement” |
| 11:50 - 12:10 | ICMSE-23: **Prof. Khaled M. Ibrahim**: Taibah University, KSA  
“Fatigue Behavior of Heat Treated Ti-6.3Al-4.1V Alloy” |
| 12:10 - 12:25 | ICMSE-219: **Dr. A. Järvenpää**, University of Oulu, Finland  
“Cyclic Behavior of a Eeversion-Treated Structures After Different Cold-rolling Reductions in an AISI 301LN Steel” |
| 12:25 - 12:40 | ICMSE-150: **Dr. Islam M. El-Galy**, Alexandria University, Egypt  
“Empirical Model for Dry Sliding Wear Behaviour of Centrifugally Cast Functionally Graded Al/SiCp Composite” |
| 12:40 - 12:55 | ICMSE-124: **Terho Iso-Junno**, University of Oulu, Finland  
“Design Process of Durable and Lightweight Rally Car Frame from Ultra High Strength Stainless Steel” |
### Session II-4: Recent Trends in Materials Testing, Characterization and Coding

**Venue:** Hall C  
**Chairs:**  
- Prof. Iman El-Mallawai, Cairo University, Egypt  
- Prof. Rashad Ramadan, Suez University, Egypt  
**Coordinator:**

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<tr>
<td>11:30 - 11:45</td>
<td>ICMSE-233</td>
<td><strong>Prof. Mohamed Mosalam Ghanem</strong>, CMRDI, Egypt</td>
<td>“Failure Analysis of Condensate Pump Shaft in Power Plant”</td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td>ICMSE-204</td>
<td><strong>Dr. Mohamed Zaky Ahmed</strong>, British University, Egypt</td>
<td>“EBSD Investigation of Similar and Dissimilar Friction Stir Welded Aluminum Alloys”</td>
</tr>
<tr>
<td>12:00 - 12:15</td>
<td>ICMSE-198</td>
<td><strong>Dr. Tero Jokelainen</strong>, University of Oulu, Finland</td>
<td>“Buckling Tests for Laser-welded Single Corrugated Core”</td>
</tr>
<tr>
<td>12:15 - 12:30</td>
<td>ICMSE-110</td>
<td><strong>Dr. Ahmed Ibrahim</strong>, Fayoum University, Egypt</td>
<td>“Effect of Friction Stir Processing on the Microstructure and Mechanical Properties of A384 Aluminum Alloy”</td>
</tr>
<tr>
<td>12:30 - 12:45</td>
<td>ICMSE-353</td>
<td><strong>Eng. Mohamed Galal</strong>, EZDK, Egypt</td>
<td>“Utilize EZDK Quenching and Tempering Box to Economical Produce Big Sizes Ee-bars “D20 ~ D25” mm with High Productivity”</td>
</tr>
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**Light Lunch**

**Poster Session I**

**Session III-1: Solar Cell I**  
**Venue:** Main Hall  
**Chairs:**  
- Prof. Ahmed A. El-Shafei: North Carolina State University, USA  
- Prof. Moatz Soliman, Alexandria University, Egypt  
**Coordinator:**
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<tr>
<td>15:20 - 15:35</td>
<td></td>
<td>ICMSE-244: <strong>Dr. Amr Hessein Hassan</strong>, Benha University, Egypt</td>
<td>“Two-step Synthesis of Copper Sulfide-Graphene Counter Electrode for CdS Quantum Dot Sensitized Solar Cells”</td>
</tr>
</tbody>
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[15:00 - 16:35] **Session III-2: Modeling and Simulation in Materials Science**

**Venue:** Hall B  
**Chairs:**  
- 🌹 Prof. Kazuaki Sanada: Toyama University, Japan  
- 🌺 Prof. Jean Ebothé: Université de Reims Champagne Ardenne, France  
**Coordinator:**

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<tr>
<td>15:00 - 15:20</td>
<td>Invited</td>
<td>ICMSE-001: <strong>Prof. Mahmoud Abdel-Aty</strong>, Bahrain University, Bahrain</td>
<td>“Engineering of Multi-Qubit Entanglement”</td>
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| 15:20 - 15:40 | Invited                                      | ICMSE-391: **Prof. Mohamed Sabry Abdel-Mottaleb**: Ain Sham University, Egypt  
“Applications of Computational Chemistry in Flexible Molecules and Complexes of Technological, Medicinal and Renewable Energy Potentials: Bridging the Rift Between Dry and Wet Labs” |
| 15:40 - 16:00 | Invited                                      | ICMSE-373: **Prof. Medhat A. Ibrahim**: NRC, Egypt  
“Microsphere from Aquatic Plants for Removal of Pollutants from Aquatic Environment” |
| 16:00 - 16:20 | Invited                                      | ICMSE 369: **Prof. Koichi Nakamura**: Kyoto Univ., Japan  
“First-Principles Approach to Phonon Diffusion for Thermoelectric Nanomaterials” |
| 16:20 - 16:35 |                                             | ICMSE-064: **Dr. Hussein Ammar**: Najran University, KSA  
“CH$_2$O Adsorption on M (M = Li, Na and Al) Atom Deposited ZnO Nano-Cage; DFT Study” |

[ 15:00 - 16:35 ] **Session III-3: Additive Manufacturing**

**Venue:** Hall B  
**Chairs:**  
- Prof. Hassan El Hofy: E-JUST, Egypt  
- Prof. Kazunari Shinagawa, Kyushu University, Japan  
**Coordinator:**

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<th>Presentation Title</th>
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| 15:00 - 15:20 | Invited                                      | ICMSE-264: **Prof. Hanadi Salem**: AUC, Egypt  
“Integrated Additive Manufacturing System: A Novel Technology for Manufacturing/Repair and Maintenance of Industrial Parts at Low Cost” |
| 15:20 - 15:35 |                                             | ICMSE-067: **Dr. Kimmo K. Mäkelä**: University of Oulu, Finland  
“Implementation of a Metal 3D AM Machine” |
| 15:35 - 15:50 |                                             | ICMSE-121: **Dr. Kari Kutuniva**: University of Oulu, Finland  
“DFAM Based Multi-material 3D Printing Using Conductive and Flexible Filaments” |
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<tbody>
<tr>
<td>15:50 - 16:05</td>
<td>ICMSE-125: <strong>Dr. Kari Mäntyjärvi</strong>: University of Oulu, Finland “Design for Additive Manufacturing in Extended DFMA Process”</td>
</tr>
<tr>
<td>16:05 - 16:20</td>
<td>ICMSE-028: <strong>Dr. Kimmo K. Mäkelä</strong>: University of Oulu, Finland “A Short Glance on Metal 3D AM”</td>
</tr>
<tr>
<td>16:20 - 16:35</td>
<td>ICMSE-263: <strong>Dr. Mohamed Abdulhameed Kerish</strong>: AUC, Egypt “Wire Arc Additive Manufacturing/Repair (WAAM/R) of a Prismatic Steel Part”</td>
</tr>
</tbody>
</table>

**Session III-4: Advances in Metals and Alloys I**

**Venue:** Hall C  
**Chairs:**  
- Prof. Sengo Kobayashi, Ehime University, Japan  
- Dr. Atef Hamada, E-JUST, Egypt  
**Coordinator:**

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<tr>
<td>15:00 - 15:20</td>
<td>ICMSE-413: <strong>Prof. Akihiko Chiba</strong>: Tohoku University, Japan “Effect of Post-processing on Fatigue Strength of Ti-6Al-4V Alloy Fabricated by Electron Additive Manufacturing”</td>
</tr>
<tr>
<td>15:20 - 15:40</td>
<td>ICMSE-351: <strong>Prof. Eiji Akiyama</strong>: Tohoku University, Japan “Hydrogen Embrittlement Characteristics of High Strength Steels in Atmospheric Corrosion Environment”</td>
</tr>
<tr>
<td>15:55 - 16:10</td>
<td>ICMSE-314: <strong>Dr. Mohammed Gouda</strong>: Al-Azhar Univ., Egypt “Cold-Workability and Microstructure Change with β-Cold-Workability and Microstructure Change with β-Phase Stability in High Strength Ti-Mn Binary Alloys”</td>
</tr>
<tr>
<td>16:10 - 16:25</td>
<td>ICMSE-158: <strong>Dr. Shimaa El-Hadad</strong>: CMRDI, Egypt “Effect of Heat Treatment and Titanium Addition on the Microstructure and Mechanical Properties of Fe$<em>{36}$Ni$</em>{18}$Mn$_{33}$Al$_x$ High Entropy Alloys”</td>
</tr>
</tbody>
</table>
ICMSE-213: **Maha El-Meligy**: CMRDI, Egypt
“Dynamic Grain Refining Numerical Model of Martensitic Stainless-Steel Grade 420J1 (X$_{20}$Cr$_{13}$) During Compact Slab Thermo-mechanical Processing”

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<tr>
<th>16:25 - 16:40</th>
<th>Coffee Break</th>
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[17:00 - 18:20] **Session IV-1: Photochemistry**

**Venue:** Main Hall

**Chairs:**
- Prof. Shunichi Fukuzumi: Meijo University, Nagoya, Japan
- Prof. Mohamed Sabry Abdel-Mottaleb: Ain Shams University, Egypt

**Coordinator:**

| 17:00 - 17:20 | ICMSE-323: **Prof. Shinichi OOKAWARA**: TIT, Japan
“Optimization of Quantum-Dot-Sensitization for Photocatalytic Synthesis of Anisaldehyde” |
|---------------|---------------------------------------------------------------|
| 17:20 - 17:40 | ICMSE-207: **Prof. Mohsen Ghali**: EJUST, Egypt
“Semiconductor Quantum Dots: Physics and Photonic applications” |
| 17:40 - 18:00 | ICMSE-271: **Prof. Waleed Ahmed El-Said**: Assuit Univ., Egypt
“Silver Nanostructures/Graphene nanosheets modified ITO substrate for direct sensing of GABA and Glutamate neurotransmitters based on Surface-Enhanced Raman Spectroscopy” |
| 17:40 - 18:20 | ICMSE-089: **Prof. Mohamed El-Khouly**: Kafrelsheikh University, Egypt
“Photosynthetic Antenna-Reaction Center Mimicry using the Light Harvesting Boron Dipyrrromethene Sensitizers: Laser Photolysis Studies” |
## [17:00 - 18:20] Session IV-2: Nanofibers and Polymer Composites

### Venue:
Hall A

### Chairs:
- Prof. Sherif Kandil, Alexandria University, Egypt
- Dr. Ahmed Hassanin, Alexandria University, Egypt

### Coordinator:

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<th>Time</th>
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| 17:00 - 17:15 | ICMSE 358: **Dr. Mohamed El-Aassar**, SRTA-City, Egypt  
“Surface-Functionalization of Novel Poly (Acrylonitrile-co-Styrene/ Pyrrole) Copolymer Electrospun Nanofibers for using as High-performance Carrier for Laccase Immobilization” |
| 17:15 - 17:30 | ICMSE-316: **Dr. Marwa Madany**, Alexandria University, Egypt  
“The Natural polymer (ulvan): extraction and nanofibers blend fabrication” |
| 17:30 - 17:45 | ICMSE-171: **Dr. Sarah Yahia Mohamed**, NRC, Egypt  
“The Effect of Different Materials of Protective Sport’s Textile on Comfort Properties” |
| 17:45 - 18:00 | ICMSE-272: **Dr. Eman Mohamed Swielam**, NRC, Egypt  
“Impact of the Fabrication Parameters on the Performance of Embroidered E-clothes” |

### 18:00 - 18:15
ICMSE-216: **Dr. Ahmed El-Basyoni**, Alexandria University, Egypt  
“Potential of using sandwich panels of pulled wool fibers from leather tanneries wastes in thermal insulation and other applications”

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## [17:00 - 18:30] Session IV-3: Advances in Steel Industry and Materials Processing

### Venue:
Hall B

### Chairs:
- Prof. Akihiko Chiba: Tohoku University, Japan
- Prof. Eiji Akiyama: Tohoku University, Japan

### Coordinator:
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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>17:00 - 17:15</td>
<td>ICMSE-068</td>
<td>Prof. Adel Nofal, CMRDI, Egypt “Solidification Path of Cast Iron Containing 9-10% AL as Affected by Inoculation and Dynamic Solidification”</td>
<td></td>
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<tr>
<td>17:15 - 17:30</td>
<td>ICMSE-390</td>
<td>Dr. Ahmed Hamed, CMRDI, Egypt “Developing High Strength-high Toughness Low Carbon steel using Combined V-Ti-Micro-alloying and Different Thermo-mechanical Treatments”</td>
<td></td>
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<tr>
<td>17:30 - 17:45</td>
<td>ICMSE-268</td>
<td>Dr. Aly Saeed, Egyptian-Russian University, Egypt “Microstructure, Hardness, and Attenuation Properties of Devolved Stainless-Steel Alloys for In-Core of Nuclear Reactor”</td>
<td></td>
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<tr>
<td>17:45 - 18:00</td>
<td>ICMSE-390</td>
<td>Prof. Taha Mattar, CMRDI, Egypt “Developing High Strength-high Toughness Low Carbon Steel Using Combined V-Ti-Micro-Alloying and Different Thermo-Mechanical Treatments”</td>
<td></td>
</tr>
<tr>
<td>18:00 - 18:15</td>
<td>ICMSE-038</td>
<td>Eng. Mohammed Salah, Univ., of Oulu, Finland “Effect of Electroslag Refining on Cleanness, Microstructure and Mechanical Properties of a newly developed CrNiMoWMnV Ultrahigh-Strength Steel”</td>
<td></td>
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<tr>
<td>18:15 - 18:30</td>
<td>ICMSE-381</td>
<td>Eng. Hany Elqosair, EZDK, Egypt “Improving of Steel Cleanliness by Controlling the NMI and Inert Gases of Flat Steel”</td>
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</table>

**[16:40 - 17:55]**  
**Session IV-4: Ceramics**

**Venue:** Hall B  
**Chairs:**  
- Prof. Mohamed Zoura: NRC, Egypt  
- Prof. Hiroyuki Sugimura: Kyoto university, Japan  
**Coordinator:**  

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<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>17:00 - 17:15</td>
<td>ICMSE-302</td>
<td>Dr. Doaa Elgohary Hanafy, NRC, Egypt “Investigating the Behavior of Manufactured Rocket Propelled Grenade (RPG) Armour Net Screens from Different Types of High Performance Fibers”</td>
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<tr>
<td>17:15 - 17:30</td>
<td>ICMSE-135: <strong>Dr. Mai Hassan Roushdy</strong>: British Univ., Egypt</td>
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<td>“Recycling of Ceramic Tiles Sludge Waste for the Preparation of Ceramic Membranes”</td>
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<td>17:30 - 17:45</td>
<td>ICMSE-242: <strong>Dr. Hytham Abdelghany</strong>: Benha University, Egypt</td>
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<td></td>
<td>“Physical and Optical Investigations of Cadmium Doped Copper Containing Phosphate Glass”</td>
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<td>17:45 - 18:00</td>
<td>ICMSE-212: <strong>Dr. Mahmoud Abuelsooud</strong>: Beni-Suef Univ., Egypt</td>
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<td>“Nano Titania Reinforced Limestone Pozzolana Cement: Physico-mechanical Investigation”</td>
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<td>18:00 - 18:15</td>
<td>ICMSE-051: <strong>Eng. Yasmine El-Taybany</strong>: EJUST, Egypt</td>
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<td></td>
<td>“Experimental Study of Tool Wear in Ultrasonic-Assisted Milling of Soda-Lime Glass”</td>
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<tr>
<td>19:00 - 21:00</td>
<td><strong>Gala Dinner</strong></td>
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## Tuesday 13\textsuperscript{th} of March

### [9:00 - 11:00] Keynotes IV

**Venue:** Main Hall  
**Chairs:**  
- Prof. Mohamed Ayad: E-JUST, Japan  
- Prof. Masaki Suzuki: E-JUST, Egypt  
**Coordinator:**

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<th>Time</th>
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<tbody>
<tr>
<td>9:00 - 9:30</td>
<td>ICMSE-380: Prof. Sherif Kandil, Alexandria Univ., Egypt</td>
<td>“Reverse Osmosis Membranes for Water Desalination”</td>
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<tr>
<td>9:30 - 10:00</td>
<td>ICMSE-194: Prof. Ahmed El-Shafei, North Carolina State University, USA</td>
<td>“Molecular Engineering, Molecular Modeling, Synthesis and Characterization of Novel Photosensitizers Toward High Efficiency Dye-sensitized Solar Cells”</td>
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<tr>
<td>10:00 - 10:30</td>
<td>ICMSE-248: Prof. Hassan El-Banna, EJUST, Egypt</td>
<td>“Water from Sun: The Need of Material Development in Solar Desalination”</td>
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<tr>
<td>10:30 - 11:00</td>
<td>Elsevier: Eng. Ahmed Helmy</td>
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<tr>
<td>11:00 - 11:30</td>
<td>Coffee Break</td>
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### [11:30 - 13:00] Session V-1: Photocatalytic Water Splitting

**Venue:** Main Hall  
**Chairs:**  
- Prof. Nageh Allam: AUC, Egypt  
- Prof. Ahmed El-Shazly: E-JUST, Egypt  
**Coordinator:**

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<tbody>
<tr>
<td>11:30 - 12:00</td>
<td>ICMSE-414: Prof. Ryu Abe, Kyoto University, Japan</td>
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<tr>
<td>12:00 - 12:15</td>
<td><strong>ICMSE-415: Dr. Haytheam El-Bery</strong> Assuit University, Egypt&lt;br&gt;“Efficient Visible Light Responsive Photocatalysts for Solar Hydrogen Generation”</td>
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<td>12:15 - 12:30</td>
<td><strong>ICMSE-360: Dr. Nashaat Ahmed</strong> AUC, Egypt&lt;br&gt;“Enhanced Photo Electrochemical Water Splitting Characteristics of TiO₂ Hollow Porous Spheres by Embedding Graphene as an Electron Transfer Channel”</td>
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<td>12:30 - 12:45</td>
<td><strong>ICMSE-385: Dr. Ramadan Geioushy</strong> CMRDI, Egypt&lt;br&gt;“Graphene-Based Material for Photo-/Electro-Catalytic Applications”</td>
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<td>12:45 - 13:00</td>
<td><strong>ICMSE-329: Dr. Menna Hasan</strong> AUC, Egypt&lt;br&gt;“Nanofiber Composite Films for High Performance Visible Light Photocatalytic Water Splitting”</td>
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**Session V-2: Nanofibers and Polymer Composites II**

**Venue:** Main Hall

**Chairs:**
- Prof. xxx, Egypt.
- Prof. Mohamed Nabil Sabry: Mansoura University, Egypt

**Coordinator:**

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<tr>
<td>11:30 - 11:45</td>
<td><strong>ICMSE-217: Dr. Islam Shyha</strong> Northumbria University, UK&lt;br&gt;“Micro-machining of Nano-polymer Composites Reinforced with Graphene and Nano-clay Fillers”</td>
</tr>
<tr>
<td>11:45 - 12:00</td>
<td><strong>ICMSE-058: Dr. Mohamad Midani</strong> GUC, Egypt&lt;br&gt;“The Effect of the Structural Parameters of 3D Orthogonal Woven Composites on their Impact Responses Under Different Modes of Impact”</td>
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<tr>
<td>12:00 - 12:15</td>
<td><strong>ICMSE-220:</strong> <strong>Dr. Chaib Sihem:</strong> Frère Mentouri Constantine Algeria</td>
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<td>“Concreting Sequences Contribution on Mechanicals Strengths in Flexion of Self-Consolidating Concrete Reinforced with Various Kinds of Fibers”</td>
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<tr>
<td>12:15 - 12:30</td>
<td><strong>ICMSE-299:</strong> <strong>Dr. Mohamed G.A. Nassef:</strong> Alexandria University, Egypt</td>
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<td>“Dynamic Characterization of Bio-Based Composite Panels using Modal Analysis Technique”</td>
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<td>12:30 - 12:45</td>
<td><strong>ICMSE-131:</strong> <strong>Eng. Safaa Muhamad:</strong> Alexandria Univ., Egypt</td>
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<td>“The Potential of Manuka Honey with Polymeric Nanofibers for Dermal Rash Protection”</td>
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<td>12:45 - 13:00</td>
<td><strong>ICMSE-274:</strong> <strong>Dr. Dina Mohamed Hamoda:</strong> NRC, Egypt</td>
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<td>“Investigate the performance of polyester microfiber bags with different pore size on in-situ degradability of some dairy feedstuffs”</td>
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**Venue:** Main Hall  
**Chairs:**  
- Prof. Bahaa Zaghlool: CMRDI, Egypt.  
- Dr. Ayman El Sayed: CMRDI, Egypt  
**Coordinator:**

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<tr>
<td>11:30 - 11:50</td>
<td><strong>ICMSE-416:</strong> <strong>Prof. Kazunari Shinagawa,</strong> Kyushu Univ., Japan</td>
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<tr>
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<td>“Analysis of Sintering Process and Its Application to Materials”</td>
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<tr>
<td>11:50 - 12:05</td>
<td><strong>ICMSE-306:</strong> <strong>Prof. Abd El-Moneim El Batahgy,</strong> CMRDI, Egypt</td>
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<td>“Shielded Metal Arc Welding of 9%Ni Steel using Non-Conventional Welding Electrode for LNG Facilities”</td>
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<td>12:05 - 12:20</td>
<td><strong>ICMSE-120</strong>: Prof. Markku Keskitalo: Univ., of Oulu, Finland</td>
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<td>12:20 - 12:35</td>
<td><strong>ICMSE-060</strong>: Prof. Morsy Amin Morsy: CMRDI, Egypt</td>
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<td>12:35 - 12:45</td>
<td><strong>ICMSE-082</strong>: Prof. Emad El Khashif: CMRDI, Egypt</td>
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<td>12:45 - 13:00</td>
<td><strong>ICMSE-345</strong>: Dr. Hamed Ahmed Abdel-Aleem: CMRDI, Egypt</td>
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<td>13:00 - 13:15</td>
<td><strong>ICMSE-342</strong>: Dr. Ali Nasser: Al-Azhar University, Egypt</td>
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**Venue:** Main Hall  
**Chairs:**  
- Prof. Maha El Demlaway: SRTA-City, Egypt  
- Dr. Mohamed Gepreel: E-JUST, Egypt  
**Coordinator:**

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<th>Institution</th>
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<tr>
<td>11:30 - 11:50</td>
<td><strong>ICMSE-222</strong>: Prof. Mona K. Marei: Alexanderia University, Egypt</td>
<td>“Tissue Engineering: A Decade of Challenges”</td>
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<tr>
<td>11:50 - 12:10</td>
<td><strong>ICMSE-417</strong>: Prof. Sengo Kobayashi: Ehime University, Japan</td>
<td>“Development of Ti Alloys for Biomedical Applications”</td>
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<td>12:10 - 12:25</td>
<td>ICMSE-105: <strong>Dr. Haytham Elgazzar</strong>: CMRDI, Egypt</td>
<td>“Experimental Investigation of Laser Surface Melted 316L Stainless Steel castings for Biomedical Applications”</td>
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<tr>
<td>12:25 - 12:40</td>
<td>ICMSE-177: <strong>Prof. Shaaban Noseir</strong>: Alexandria University, Egypt</td>
<td>“Innovative Biocompatible and Biodegradable Scaffolds for the Formation of New Bone Tissues”</td>
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**[13:00 - 14:00]** Light Lunch  
**[14:00 - 15:00]** Poster Session II  
**[15:00 - 16:15]** Session (VI-1): Solar Cell II

**Venue:** Main Hall  
**Chairs:**  
- Prof. Wolfgang Heiss: Friedrich-Alexander-Universität Erlangen, Germany.  
- Dr. Nagih Shaaalan: E-JUST, Egypt  
**Coordinator:**

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<tr>
<td>15:00 - 15:20</td>
<td>ICMSE-379: <strong>Prof. Moatz Soliman</strong>: Alexandria University, Egypt</td>
<td>“Optimizing the Parameters of Mesoscopic Perovskite Solar Cells Structure”</td>
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</table>
### Session VI-2: Mining and Materials Extraction

**Venue:** Hall A  
**Chairs:**  
- Dr. Mohsen Farahat, CMRDI, Egypt  
- Dr. Salah Salman: Al-Azhar Univ., Egypt

**Coordinator:**

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| 15:00 - 15:15 | ICMSE-066: **Dr. Tarek Abdel Wahab**, CMRDI, Egypt  
“Solubilization of Phosphate by Bioleaching of Nile Valley – Sebaiya West Ore by ThiobacillusThioxidans” |
| 15:15 - 15:30 | ICMSE-270: **Dr. Seroni Anyona**, Jumbo Kenyatta University, Kenya  
“Kenya’s New Mining Act (2016): Identification of Gaps in the Conflict Resolution Mechanisms for Small Scale Miners” |
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<th>Time</th>
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<th>Title</th>
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<tbody>
<tr>
<td>15:30 - 15:45</td>
<td>ICMSE-352: Mathew N. Kyalo: Jumo Kenyatta University, Kenya</td>
<td>“A Review on Extraction and Processing of Kenyan Gold Ore and Opportunities for Small Scale and Artisanal Miners”</td>
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15:00 - 16:15  **Session VI- 3: Metals and Alloys II**

**Venue:** Hall A  
**Chairs:**  
- Prof. Taha Mattar, CMRDI, Egypt  
- Prof. Ranada Abd El-karim, Cairo University, Egypt  
**Coordinator:**

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<tr>
<td>15:00 - 15:15</td>
<td>ICMSE-061: Dr. Sameh Khafagym: TIMS, Cairo, Egypt</td>
<td>“Effect of Thermal Cycle on Microstructure and Corrosion Behavior of Duplex Stainless Steel SAF 2205 Electron Beam Welded Joint”</td>
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<tr>
<td>15:15 - 15:30</td>
<td>ICMSE-356: Prof. Fawzi A. Elrefaie: Cairo University, Egypt</td>
<td>“Oxidation Characteristics of Porous Nickel Low-Chromium Binary Alloys in Air at 1273K for 100 h”</td>
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<tr>
<td>15:30 - 15:45</td>
<td>ICMSE-288: Eng. Sally Elkatatny: EJUST, Egypt</td>
<td>“Molecular Dynamics Modeling of Al₅Cr₁₂Fe₃₅Mn₂₈Ni₂₀ High-Entropy Alloy”</td>
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<tr>
<td>15:45 - 16:00</td>
<td>ICMSE-276: Eng. Walaa Abd ElAzzim: EJUST, Egypt</td>
<td>“Investigating the Microstructure and Mechanical Properties of Al-1%Cu Alloy Processed by a Proposed Simple Cyclic Extrusion Compression Technique”</td>
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<td>Time</td>
<td>Session VI-4: Biomaterials II</td>
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| **Venue:** Main Hall | **Chairs:**
| Prof. Mona Marie: Alexandria University, Egypt | Prof. Nour El Gendy: EPRI, Egypt                                                              |
| **Coordinator:** |                                                                                               |
| **ICMSE-091**:  | **Prof. Ibrahim Ghayad**: CMRDI, Egypt
| 15:00 - 15:15   | “Direct Current Electrophoretic Deposition of Hydroxyapatite Composite Coating on Mg-0.8wt.%Ca-3%wt.%Zn alloy” |
| **ICMSE-335**:  | **Dr. Mohamed Ibrahim**, GUC, Egypt
| 15:15 - 15:30   | “Corrosion Behavior of Polymer Coated Magnesium in Simulated Body Fluid”                       |
| **ICMSE-347**:  | **Dr. Marwa Mostafa**: Helwan Univ., Egypt
| 15:30 - 15:45   | “Titanium Foam for Dental Implant Applications”                                                |
| **ICMSE-281**:  | **Dr. Dawlat Mostafa**: Alexandria Univ., Egypt
| 15:45 - 16:00   | “Cementing Line Configuration of Bioactive Engineered Zirconia Implants (In Vivo Histological Study)” |
| **16:30 - 17:00** | **Closing and Notes**                                                                           |