Scientific Program

2nd Global Conference and Expo on
Applied Science, Engineering and Technology

October 15-17, 2018 at Amsterdam, Netherlands
**Day 1 October 15, 2018**

08:30-09:30 Registrations
09:30-09:35 Introduction
09:35-10:00 Opening Ceremony

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<tr>
<th>Session Chair</th>
<th>Co-Chair</th>
<th>Plenary Session</th>
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| Rudolf Klimek | Tomasz Arciszewski | Title: Quantum Equivalence of Information, Matter and Energy: E=mc²  
Rudolf Klimek, Jagiellonian University Cracow, Poland |
| Tomasz Arciszewski | George Mason University, USA | Title: Inventive Engineering: The Key to Engineering Creativity  
Tomasz Arciszewski, George Mason University, USA |

**Networking & Refreshments Break 11:30-11:45 @ Foyer**

11:45-12:30 Title: Nanomaterials Derived From Organic Nanostructures  
Jonathan Hill, National Institute for Material Science, Japan

**Keynote Session**

12:30-13:05 Title: Precise Crystal Structure, Phase Transformation and Properties of Ceramic Materials  
Masatomo Yashima, Tokyo Institute of Technology, Japan

**Lunch Break @ Restaurant the Gallery 13:05-14:05**

**Plenary Session**

14:05-14:50 Title: Bio- and Bioinspired Mineralization  
Helmut Coelfen, University of Konstanz, Germany

**Keynote Session**

14:50-15:25 Title: Metal Oxide Nanostructures as Chemical Sensing Materials: Recent Advances  
Zafer Ziya Ozturk, Gebze Technical University, Turkey

15:25-16:00 Title: Ultrastable Glasses: Searching Very Deep into the Energy Landscape of Glasses  
Miguel Angel Ramos Ruiz, Autonomous University of Madrid, Spain

**Networking & Refreshments Break 16:00-16:15 @ Foyer**

16:15-16:50 Title: Low Temperature thin Films for Next-generation Microelectronics  
Jurriaan Schmitz, University of Twente, Netherlands

16:50-17:25 Title: Surface Stress in Silicon Reconstruction  
Hidehito Asaoka, Japan Atomic Energy Agency, Japan

17:25-18:00 Title: The Optimization of Ground Support Using Fiber Optics—what have we learned so far?  
Nicholas Vlachopoulos, RMC Green Team, Canada

18:00-18:35 Title: Nanocompounds as Modifiers for Metallurgical Processes  
Konstantin Borodianskiy, Ariel University, Israel

**Day 2 October 16, 2018**

**Meeting Place 1**

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<th>Session 1</th>
<th>Applied Science, Engineering and Technology</th>
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| Jonathan Hill | Mohamed Ismail | Title: Factories of the Future, Challenges and Opportunities in the Age of Data Sciences and Artificial Intelligence  
Mohamed Ismail, University of Regina, Canada |
| Mohammadreza Vafaeei | Nicholas Vlachopoulos | Title: Vibration Mitigation of Structures through Tuned Liquid Dampers  
Mohammadreza Vafaeei, Universiti Teknologi, Malaysia |

**Networking & Refreshments Break 11:10-11:25 @ Foyer**

11:25-12:00 Title: Neutrino Radiation by Neutron Superfluid Vortex and Its Effects -pulsar Spin Down and Pulsar Kicks  
Qiuheng Peng, Nanjing University, China

12:00-12:35 Generation High Intensity Electron Source  
Santanu Ghosh, Indian Institute of Technology Delhi, India

12:35-13:10 Title: Application of Scaffold in Tissue Engineering  
Jafar Soleimani Rad, Tabriz University of Medical Sciences, Iran

**Lunch Break @ Restaurant the Gallery 13:10-14:10**
14:10-14:45  **Title: Infrared Thermography in The Mechanical Characterization of Newly Designed Composites**  
Carosena Meola, University of Naples Federico II, Italy

14:45-15:20  **Title: Energy Efficiency Approaches in Air Conditioning: Innovative Processes and Thermodynamics**  
Kim Choon Ng, King Abdullah University of Science & Technology, Saudi Arabia

**Featured Talks**

15:20-15:50  **Title: Coastal and Marine Ecological Engineering: Concrete Actions for Sustainable Management of Fisheries Resources and Marine Biodiversity in Mediterranean Sea**  
Sylvia Agostini, University of Corsica, France

**Networking & Refreshments Break 15:50-16:05 @ Foyer**

16:05-16:35  **Title: Cooling/Heating and Desalination with Renewable Energy: An Innovative 24 hour Operation with Energy Storage**  
Muhammad Wakil Shahzad, King Abdullah University of Science & Technology, Saudi Arabia

16:35-17:05  **Title: Art of Miniaturization for Microwave Resonator Filter with Capacitive Loading**  
Nor Muzlifah Mahyuddin, Universiti Sains Malaysia, Malaysia

17:05-17:35  **Title: Green Polymers And Sustainable Composite**  
Rahmah Mohamed, University Technology MARA UiTM, Malaysia

17:35-18:05  **Title: Ferroelectric and Piezoelectric Properties of New lead-free Oxide Materials Ceramics on the Base of KNN- and NBT-based Perovskites**  
Ekaterina Politova, L.Ya.Karpov Institute, Russia

**Poster Presentations**

P-001  **Title: Compressed g-C3N4: A Promising Candidate for Charge-Modulated CO2 Capture**  
Xiaofang Li, National University of Australia, Australia

P-002  **Title: Adiabatic Limit in Ginzburg Landau Equations**  
Armen Sergeev, Steklov Mathematical Institute

P-003  **Title: Aluminum Coating by Plasma Electrolytic Oxidation in Molten Salt**  
Alexander Sobolev, Ariel University, Israel

P-004  **Title: IoT based Technologies for Smart Building Energy Management**  
Ying Yan, Technical University of Denmark, Denmark

P-005  **Title: Advanced Techniques for National Disaster Diseases Management System in South Korea**  
Wooseog Jeong, Animal & Plant Quarantine Agency, South Korea

**Featured Talks**

**Session Chair** Muhammad Wakil Shahzad, King Abdullah University of Science & Technology, Saudi Arabia

**Session 1 Applied Science, Engineering and Technology**

10:00-10:30  **Title: Designing Improved Cook Stove An Effective Method Of Mitigating Global Climate Change**  
Arvind Kumar Drave, Indian Institute of Technology Kanpur, India

10:30-11:00  **Title: Proposal of a Strictly Monotonic Simplification Algorithm for Unknotting Unknots**  
Satomi Yoshimoto, Keio University, Japan

**Networking & Refreshments Break 11:00-11:15 @ Foyer**

11:15-11:45  **Title: Finite Element Method for Electromagnetics in Time Domain Based on Differential Form**  
Satoshi Noguchi, Keio University, Japan

11:45-12:15  **Title: Total Energy and Temperature of ZnO Wurtzite Phase Under Low and High Temperature and Pressure, a Molecular Dynamics Prediction**  
Yahia Chergui, Boumerdes University IGEE Institute, Algeria

12:15-12:45  **Title: Solubility of Chlorophenol in Hydrophobic Ionic Liquids for the Potentials use in Wastewater Treatment**  
Inas M. AlNashef, Khalifa University of Science and Technology, United Arab Emirates

12:45-13:15  **Title: Adsorption Behaviors of Uranium (VI) from Acid Solution Using Treated Waste Clay**  
Mohamed Farid Cheira, Nuclear Materials Authority, Egypt
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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution/Location</th>
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<td>14:15-14:45</td>
<td>Title: Emerging Metamaterials for Cooling in Smart Green Buildings Applications</td>
<td>Tso Chi Yan, City University of Hong Kong, Hong Kong</td>
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<td>14:45-15:15</td>
<td>Simulating Evacuation Routes under Disasters: Case Study for Tokyo Metropolis</td>
<td>Honami Yamamoto, Keio University, Japan</td>
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<td>15:15-15:45</td>
<td>Title: Down-Conversion and Up-Conversion Properties of Er$^{3+}$, Tm$^{3+}$ and Yb$^{3+}$ Doped Metal Oxide Phosphors</td>
<td>Simon M Dhlamini, University of South Africa, South Africa</td>
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<td>15:45-16:15</td>
<td>Parallel Dynamic State Estimation of Large-scale Cyber-physical Systems</td>
<td>Hadis Karimipour, University of Guelph, Canada</td>
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<td>16:30-17:00</td>
<td>Title: Development of Automatic Information Dissemination Smartphone Application</td>
<td>Koichiro Midorikawa, Keio University, Japan</td>
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<td>17:00-17:30</td>
<td>Elastic Solids</td>
<td>Boyang Zhang, Keio University, Japan</td>
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<td>17:30-18:00</td>
<td>The use of Computational Fluid Dynamics in Solving the Mystery of Origin of Cerebral Aneurysms</td>
<td>Bulang Gao, Henan University, China</td>
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<td>18:00-18:30</td>
<td>Modern Ab-initio Calculations Based on Thomas-Fermi-dirac Theory in High-temperatures and High-pressures Environment</td>
<td>Sergey Seriy, Institute of Dynamic Systems, Russian Federation</td>
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<td>18:30-19:00</td>
<td>Realization and Manipulation of Exotic Topological Semimetal Bands Using</td>
<td>Zidan Wang, The Hongkong University, Hongkong</td>
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3rd Global Conference and Expo on Applied Science, Engineering and Technology

October 07-09, 2019 | Dubai, UAE

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