Conference Venue: Titania Hotel, 52 Panepistimiou Avenue, Athens, Greece (close to Omonoia metro station)

Monday 19 June 2017

08:00-09:00 Registration and Refreshments

09:00-09:30 (Room D-10th Floor) Welcome and Opening Address
Gregory T. Papanikos, President, ATINER.

09:30-11:00 Session I (Room D-10th Floor): Structural and Dynamic Analysis
Chair: Olga Gkounta, Researcher, ATINER.
2. Raul Pereda Garcia, Professor, University of Cantabria, Spain, Julio Manuel de Luis Ruiz, Professor, University of Cantabria, Spain, Rubén Pérez Álvarez, Post-Doctoral Researcher, University of Cantabria, Spain, Felipe Piña García, Associate Professor, University of Cantabria, Spain & Elena Castillo López, Professor, University of Cantabria, Spain. Mathematical Model of Forward Motion in Bathymetries and Its Effect on the Measurement Conditions.
3. Fouad Mohammad, Senior Lecturer, Nottingham Trent University, UK & Ahmed Mezgeen, Lecturer, Duhok University, Iraq. Modal Analysis of Reinforced Concrete Square Slabs.
4. Ji-Ho Kang, Senior Researcher, Korea Atomic Energy Research Institute, South Korea & Chang Keun Jo, Project Manager, Korea Atomic Energy Research Institute, South Korea. Friction Model Performance Comparison for the Dynamic Analysis of Nuclear Graphite Blocks.
5. Lintai Wang, PhD Candidate, Beijing University of Technology, China. Decreasing Vibration Technology for Tunnel Blasting Based on Building Modal Analysis.

09:30-11:00 Session II (Room E-10th Floor): Manufacturing and Materials I
Chair: Zbigniew Pasek, Professor, University of Windsor, Canada.
1. Peter Boehm, Professor, University of Applied Sciences Trier, Germany & Jannis Marion, University of Applied Sciences Trier, Germany. New Experiences in Welding Magnesium Alloys.
3. Josef Meyer, PhD Student, Hochschule Hannover, Germany, Bin Cui, PhD Student, Hochschule Hannover, Germany, Ulrich Luedersen, Professor, Hochschule Hannover, Germany & Martin Gottschlich, Professor, Hochschule Hannover, Germany. Experimental Heat Transfer Analysis of a Rotary Swing Chamber Expander.
4. Joao Marcos Ferreira Santos, Research Student, IFAL - Instituto Federal de Alagoas, Brazil, Thannys Nascimento Silva, Research Student, IFAL - Instituto Federal de Alagoas, Brazil & Dr. Justino Marques Sheyla Karolina, Advisor Professor, Federal Institute of Alagoas - IFAL, Brazil. Analysis of the Behaviour of Unserviceable Tire Rubber in Floor Manufacturing.
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<th>Time</th>
<th>Session III (Room D-10th Floor): Wind and Seismic Performance</th>
<th>Session IV (Room E-10th Floor): Manufacturing and Materials II</th>
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<td>11:00-12:30</td>
<td>Chair: Dawen Gao, Professor, Northeast Forestry University, China.</td>
<td>Chair: Peter Boehm, Professor, University of Applied Sciences Trier, Germany.</td>
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<td></td>
<td>1. Naveed Anwar, Executive Director, Asian Institute of Technology (AIT), Thailand, Shilpa Nirman Thilakarathna, MSc Student, Asian Institute of Technology (AIT), Thailand, Pramin Norachan, Structural Engineering Manager at AIT Solutions, Asian Institute of Technology (AIT), Thailand &amp; Fawad Najam, PhD Student, Asian Institute of Technology (AIT), Thailand. Effect of Wind Loads on the Seismic Performance of Tall Buildings.</td>
<td>1. Hector Estrada, Professor, University of the Pacific, USA, Jonathan Trovillion, U.S. Army Engineer Research and Development Center, USA, Hugh McManus, U.S. Army Engineer Research and Development Center, USA, Ashok Kumar, U.S. Army Engineer Research and Development Center, USA, Larry D. Stephenson, U.S. Army Engineer Research and Development Center, USA &amp; William Lewis, U.S. Army Engineer Research and Development Center, USA. Experimental Results of Accelerated Long-Term Durability Performance of FRP Composite Materials.</td>
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<td>2. David Sanders, Professor, University of Nevada, Reno, USA, Mohammed Mohammed, PhD Student, University of Nevada, Reno, USA &amp; Ian Buckle, Professor, University of Nevada, Reno, USA. Experimental and Analytical Investigation of Structural Response of Bridge Columns using Ground Motions from the Tohoku 2011 Earthquake.</td>
<td>2. Amel Bourguiba, PhD Student, University of Cergy Pontoise, France. Effect of a Thinner (Methyl Octanoate) on Mechanical Strengths and Fracture Behavior of Epoxy Resin Mortars.</td>
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<td>3. Roberto Gomez, Associate Professor, National Autonomous University of Mexico, Mexico, Mendoza-Salas, Research Associate, National Autonomous University of Mexico, Mexico, Oscar Noe Rosales-González, Research Associate, National Autonomous University of Mexico, Mexico, Luis Martin Arenas García, Research Associate, National Autonomous University of Mexico, Mexico, Adrian Pozos-Estrada, Associate Professor, National Autonomous University of Mexico, Mexico &amp; José Alberto Escobar-Sánchez, Associate Professor, National Autonomous University of Mexico, Mexico. Experimental Verification of Tension Forces in a Cable Stayed Bridge.</td>
<td>3. Christian Lamberti, PhD Student, University of Luxembourg, Luxembourg. Laser Assisted Joining of Aluminum and Polyamide 6.6 – Evaluating the Mechanical Strength of Multi Material Structures.</td>
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<td>4. Emanuel Filipe Santos Amaral, Research Student, IFAL - Instituto Federal de Alagoas, Brazil, Jose Diogo Barbosa de Almeida, Research Student, IFAL - Instituto Federal de Alagoas, Brazil &amp; Dr. Justino Marques Sheyla Karolina, Advisor Professor, Federal Institute of Alagoas - IFAL, Brazil. Study of Viability of Using Rice Husk Ash in Manufacturing of Hollow Block.</td>
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<th>Time</th>
<th>Session V (Room D-10th Floor): Advanced Materials and Chemistry</th>
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<td>12:30-14:00</td>
<td>Chair: Fouad Mohammad, Senior Lecturer, Nottingham Trent University, UK.</td>
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<td>1. Dawen Gao, Professor, Northeast Forestry University, China. How one-Stage Deammonification Process Succeed?</td>
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<td>2. Elhem Ghorbel, Professor, University of Cergy Pontoise, France, Mariem Limaiem, PhD Student, University of Cergy Pontoise, France and University of Tunis El Manar, Tunisia &amp; Oualid Limam, Professor, Tunis El Manar University, Tunisia. Reinforcement Effects of Concretes with CFRP Materials.</td>
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<td>3. Shamim Sheikh, Professor, University of Toronto, Canada &amp; Zahra Kharal, University of Toronto, Canada. Comparison of Steel- and GFRP-Reinforced Concrete Members under Seismic and non-Seismic Loads.</td>
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14:00-15:00 Lunch
### Session VI (Room D-10th Floor): Design and Optimization

**Chair:** Elhem Ghorbel, Professor, University of Cergy Pontoise, France.

1. **Shian Gao**, Lecturer, University of Leicester, UK & **Ahmed Qasim Ahmed**, PhD Research Student, University of Leicester, UK. Large Eddy Simulation of Air Flow and Temperature Distributions in an Office Room Served by a Displacement Ventilation System.

2. **Erdem Baltaci**, Industrial Engineer, Turkey, **Sevgi Ozlem Bulu**, Industrial Engineer, Turkey & **Sila Isyar**, Industrial Engineer, Turkey. Production Facility Layout Design for a Project Based Company.

3. **Haider Iqbal Hanif**, PhD Student, Hochschule Hannover, Germany, **Dennis Saul**, Research Assistant, Hochschule Hannover, Germany, **Henrik Rüscher**, Research Assistant / PhD Student, Hochschule Hannover, Germany, **Lars-Oliver Gusig**, Professor, Hochschule Hannover, Germany & **Christian Bohn**, Professor, Clausthal University of Technology, Germany. Module Design Methodology for the Conceptionalization of a Portable Unit for Providing Heat, Cold and Electricity in BEVs and Buildings.

4. **Sahar Elaiwi**, PhD Student, Plymouth University, UK. Analysis and Design of Castellated Beams.

### Session VII (Room E-10th Floor): Foresight

**Chair:** Isotilia Costa Melo, MSc Student, University of São Paulo, Brazil.

1. **Abhijit Deshmukh**, James J. Solberg Head and Professor, School of Industrial Engineering, Purdue University, USA. ReThinking IE – Innovations at the Frontiers of Industrial Engineering.


3. **Jin-Wei Wang**, PhD Student, Beijing Institute of Technology, China & **Yi-Ming Wei**, Professor, Beijing Institute of Technology, China. Developing Foresight Intelligence for Energy Technology: Qualitative Comparative Analysis Method.

### Session VIII (Room D-10th Floor): A Symposium on the Future Developments and Prospects of Engineering and Science Education & Research in a Global World

**Chair:** Lampros A. Pyrgiotis, President, Greek Society of Regional Scientists, Greece.

1. **Abhijit Deshmukh**, James J. Solberg Head and Professor, School of Industrial Engineering, Purdue University, USA. Convergence of Knowledge.

2. **Anthony Koutoulis**, Professor & Head of School of Biological Sciences, University of Tasmania, Australia. The Future Developments and Prospects of Biology Education and Research in a Global World – a Tasmanian and Australian context.

3. **LuAnn Carpenter**, Director, Student Program Assessment and Administration, Industrial and Systems Engineering, Auburn University, USA. Issues and Trends in Engineering Education at Auburn University, Alabama, United States of America.

4. **David H. Sanders**, UNR Foundation Professor, Past-Chair UNR Faculty Senate, Department of Civil and Environmental Engineering, University of Nevada, Reno, USA. Is the Future for Higher Education bright in the United States?

5. **Ravi Mukkamala**, Professor, Old Dominion University, USA. The Future of Computer Science.

For details on the discussion please [click here](#).

### Session VIII (Room D-10th Floor): A Symposium on the Future Developments and Prospects of Engineering and Science Education & Research in a Global World

21:00-23:00 The Pragmatic Symposium of the Conference as Organized in Ancient Athens with Dialogues, Food, Wine, Music and Dancing but fine tuned to Synchronous Ethics
### Tuesday 20 June 2017

**07:30-10:30 Session IX: An Educational Urban Walk in Modern and Ancient Athens**

**Chair:** Gregory Katsas, Vice President of Academic Affairs, ATINER & Associate Professor, The American College of Greece-Deree College, Greece.

Visit to the Most Important Historical and Cultural Monuments of the City (be prepared to walk and talk as in the ancient peripatetic school of Aristotle.

**Group Discussion on Ancient and Modern Athens.**

### 11:00-12:30 Session X (Room D-10th Floor): Structural Design Considerations

**Chair:** Roberto Gomez, Associate Professor, National Autonomous University of Mexico, Mexico.

1. Amde Amde, Professor, University of Maryland, USA & Andreas Paraschos, Senior Structural Engineer, New York City Department of Transportation, USA. Effects of Inline Cantilever Wingwalls on Integral Abutment Bridge Pile Stresses.
2. Yanglin Gong, Professor, Lakehead University, Canada. Test of All-Bolted Angle Connections for Catenary Action.

**12:30-14:00 Session XI (Room D-10th Floor): Advanced Materials and Chemistry**

**Chair:** Amde Amde, Professor, University of Maryland, USA.

1. Dimitrios Goulias, Associate Professor, University of Maryland, USA & Sahand Karimi, University of Maryland, USA. Risk Analysis for Highway Materials of Flexible Pavement Structures.
2. Lucas Willian Aguiar Mattias, Student Researcher, Federal Institute of Alagoas - IFAL, Brazil, Jesimiel Pinheiro Cavalcante, Professor, Federal Institute of Alagoas - IFAL, Brazil & Eliedson Carvalho, Student Researcher, Federal Institute of Alagoas - IFAL, Brazil. Reuse of Gypsum Residue in the Manufacturing of 3D Decorative Wall Covering Panels.

### 14:00-15:00 Lunch

### 15:00-16:30 Session XII (Room D-10th Floor): Geotechnical and Construction Engineering

**Chair:** Dimitrios Goulias, Associate Professor, University of Maryland, USA.

1. Josef Zak, Assistant Professor, Czech Technical University in Prague, Czech Republic. Asphalt Mixtures that Dissipate Energy.
2. Dayana Carla de Macedo, Teacher, Midwest University of Paraná, Brazil, E. C. M. Ishikawa, Midwest University of Paraná, Brazil, C. B. Santos, Midwest University of Paraná, Brazil, S. N. Matos, Midwest University of Paraná, Brazil, H. B. Borges, Midwest University of Paraná, Brazil & A. C. Francisco, Midwest University of Paraná, Brazil. DRM-F: Dimensionality Reduction Method based in Framework.

### 21:00- 22:30 Dinner

**Wednesday 21 June 2017**

Educational Island Tour or Mycenae and Epidaurus Visit

**Thursday 22 June 2017**

Delphi Visit

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All ATINER’s conferences are organized by the Academic Committee (https://www.atiner.gr/academic-committee). This conference has been organized with the assistance of the following academics, who contributed by chairing the conference sessions and/or by reviewing the submitted abstracts and papers:

1. Gregory T. Papanikos, President, ATINER.
2. Thomas Attard, Associate Professor, The University of Alabama at Birmingham, USA.
3. Dawen Gao, Professor, Northeast Forestry University, China.
4. Amde Amde, Professor, University of Maryland, USA.
5. Zbigniew Pasek, Professor, University of Windsor, Canada.
6. Peter Boehm, Professor, University of Applied Sciences Trier, Germany.
7. LuAnn Carpenter, Director, Student Program Assessment and Administration, Auburn University, USA.
8. Roberto Gomez, Academic Member, ATINER & Associate Professor, National Autonomous University of Mexico, Mexico.
9. Dimitrios Goulias, Associate Professor, University of Maryland, USA.
10. Elhem Ghorbel, Professor, University of Cergy Pontoise, France.
11. Fouad Mohammad, Academic Member, ATINER & Senior Lecturer, Nottingham Trent University, UK.
12. Dillon Chrimes, Technical Integration Coordinator, Vancouver Island Health Authority, Canada.
13. Lampros A. Pyrgiotis, President, Greek Society of Regional Scientists, Greece.
15. Isotilia Costa Melo, MSc Student, University of São Paulo, Brazil.
16. Vassilis Skianis, Research Fellow, ATINER.
17. Olga Gkounta, Researcher, ATINER.
18. Hannah Howard, Research Assistant, ATINER.