



Athens Institute for Education and Research
A World Association of Academics & Researchers



3rd Annual International Conference on Engineering Education & Teaching, 4-7 June 2018, Athens, Greece
Organized by the [Engineering & Architecture Division](#)
Sponsored by the [Athens Journal of Technology & Engineering](#)

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

Monday 4 June 2018

08:00-08:45 Registration and Refreshments

08:45-09:30 (Room A - Mezzanine Floor): Welcome and Opening Address

Gregory T. Papanikos, President, ATINER.

Nicholas Pappas, Vice President of Academic Membership, ATINER & Professor of History, Sam Houston University, USA.

09:30-11:00 Session I (Room E - 10th Floor): Geological Issues

Chair: Sanjay Sisodiya, Associate Professor, University of Idaho, USA.

1. Khuraijam Mohon Singh, Associate Professor, Imphal College, Imphal, India. Significance of Mineral Chemistry of Kyrdem Granitoids and Associated Enclaves, Meghalaya Plateau, Northeast India.
2. Carolin Neugebauer, Master of Geosciences, Germany. Sedimentation Processes during the Last Glacial Period Deduced from Grain Size Analyses on Gravity Core MSM 33/54-3 from the Anatolian Continental Margin.

11:00-12:30 Session II (Room E - 10th Floor): Geographic Information Systems

Chair: Alice Merab Kagoda, Lecturer, Makerere University, Uganda.

1. Sungsoon Hwang, Associate Professor, DePaul University, USA, Amanda Lin, Assistant Professor, Rosalind Franklin University of Medicine and Science, USA, Ryan Crews, Assistant Professor, Rosalind Franklin University of Medicine and Science, USA, Kristin Schneider, Associate Professor, Rosalind Franklin University of Medicine and Science, USA, Noah Rosenblatt, Assistant Professor, Rosalind Franklin University of Medicine and Science, USA, Sai Yalla, Assistant Professor, Rosalind Franklin University of Medicine and Science, USA & Elizabeth Moxley, Assistant Professor, DePaul University, USA. Assessing Community Participation among People with Limited Mobility using GPS and Accelerometer.
2. Isabelle Seguy, Researcher, INED - Institut National d'Etudes Démographiques, France. A Geographic Information System for the Study of Past Epidemics: The 1705 Epidemic in Martigues (Bouches-du-Rhône, France).
3. Elham Karimi, Noise Expert, Air Quality Control Company, Iran, Peyman Hamian, GIS and Geomarketing Advisory Services, Iran, Maryam Naderi, Head of Air and Noise, Air Quality Control Company, Iran & Vahid Hosseini, Associate Professor, Sharif University of Technology, Iran. Detection of Noise Sensitive Areas at Risk of Exceeded Sound Levels in Tehran Metropolitan City (A GIS-based Approach).

12:30-14:00 Session III (Room E - 10th Floor): Learning Strategies I

Chair: Eddie Smigiel, Associate Professor, INSA Strasbourg, France.

1. Patrick Balve, Professor, Heilbronn University of Applied Sciences, Germany & Lena Ebert, Research Assistant, Heilbronn University of Applied Sciences, Germany. Competence Development in Engineering Education – Smoothing the Transition into Corporate Practice through Problem-based Learning.
2. Sanjay Sisodiya, Associate Professor, University of Idaho, USA, Kathy O'Malley, Professor, University of Idaho, USA & Steven Shook, Professor, University of Idaho, USA. Pricing of New Products: Going Beyond Cost-Based and Competition-Based Pricing to Consider Value in Engineering Capstone Courses.
3. Javier Cubas, Assistant Professor, Polytechnic University of Madrid, Spain, Elena Roibas-Millan, Professor, Polytechnic University of Madrid, Spain, Santiago Pindado, Professor, Polytechnic University of Madrid, Spain, Félix Sorribes-Palmer, Professor, Polytechnic University of Madrid, Spain, Gustavo Alonso, Professor, Polytechnic University of Madrid, Spain, Ángel Sanz-Andrés, Professor, Polytechnic University of Madrid, Spain & Javier Pérez-Álvarez, Professor, Polytechnic University of Madrid, Spain. Concurrent Engineering Approach for Space Mission Design within the Master in Space Systems (MUSE) at *Universidad Politécnica de Madrid (UPM)*.

14:00-15:00 Lunch

15:00-16:30 Session IV (Room D - 10th Floor): Science Teaching & Educational Issues

Chair: Mike Mavromihales, Senior Lecturer and Course Leader, University of Huddersfield, UK.

1. Eddie Smigiel, Associate Professor, INSA Strasbourg, France & Sandrine Simon, Professor, Université Euro-Méditerranéenne de Fès, Morocco. An Exploration of the Confusion between Concept and Formalization amongst the Community of Teachers in Physics.
2. Alice Merab Kagoda, Lecturer, Makerere University, Uganda. Teachers' Experiences and Practices of Teaching Practical Geography in Secondary Schools of Uganda.
3. Elif Bengü, Coordinator for Center for the Enhancement of Learning and Teaching, Abdullah Gül University, Turkey & Faruk Kececi, Head of Mechanical Engineering Department, Abdullah Gül University, Turkey. Maker Spaces and Their Effect on Engineering Education.
4. Laura Santos-Maldonado, Instructor, Universidad de los Andes, Colombia & Diana Carolina Lenis, Senior Pedagogical Adviser, Universidad de los Andes, Colombia. Flipped-Learning and Case Strategy for Developing Interpretative Skills in the Context of an Environmental Thermochemistry Course.

17:30-19:30 Session V ATINER's 2018 Series of Academic Dialogues: A Symposium Discussion on Recent International Research in Urban Studies and Planning

Venue: Harokopio University (New Building-Ceremony Hall), Eleftheriou Venizelou 70, Kallithea.

Chair: Virginia Sisiopiku, Head, Transportation Engineering Unit, ATINER, & Associate Professor, The University of Alabama at Birmingham, USA.

1. Ali Cheshmehzangi, Head of Department of Architecture and Built Environment, Director of CSET (Center for Sustainable Energy Technologies), Director of UIL (Urban Innovation Lab), & Associate Professor of Architecture and Urban Design, Department of Architecture and Built Environment, The University of Nottingham Ningbo China, China. Smart Cities vs. Urbanism.
2. Carolyn Aguilar-Dubose, Professor, University Iberoamericana, Mexico. From Universe to Pluriverse in Sustainability.
3. Antonio Zumelzu, Associate Professor, Austral University of Chile, Chile. Sustainability in the Global South: The Role of Urban Morphology.
4. Giulia Pellegrini, Associate Professor, Architecture-Polytechnic School, University of Genoa, Italy. De-Sign Research: Interactions and Results in the International Contributions of the 2018 Design Day in Genoa. Department of Architecture and Design University of Genoa.
5. Ratna Ghosh, Assistant Professor, Amity University Noida, India. City of Chandigarh.
6. Raed Al Tal, Assistant Professor, German Jordanian University, Jordan. Cities of Continuous Urban Instability - Amman as a Case Study.

21:00-23:00 Greek Night and Dinner

Tuesday 5 June 2018

07:45-11:00 Session VI: An Educational Urban Walk in Modern and Ancient Athens

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

Group Discussion on Ancient and Modern Athens.

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)

11:15-13:00 Session VII (Room D - 10th Floor): Learning Strategies II

Chair: Javier Cubas, Assistant Professor, Polytechnic University of Madrid, Spain.

1. Mike Mavromihales, Senior Lecturer and Course Leader, University of Huddersfield, UK & Violeta Holmes, Subject Area Leader, University of Huddersfield, UK. A Multi-Pronged Approach to Blended Learning; Focussing on Fundamentals of Mechanical Engineering Undergraduate Education.
2. Rosalie Van Baest, Lecturer, Fontys Hogescholen Eindhoven, The Netherlands. Stimulating Conscious Development (BOS Model). Mechanism for Movement in Engineering Education.
3. Manuel Niever, Doctoral Researcher, Institute of Product Engineering (IPEK) at Karlsruhe Institute of Technology (KIT), Germany, Thilo Richter, Scientific Assistant, Institute of Product Engineering (IPEK) at Karlsruhe Institute of Technology (KIT), Germany, Katharina Duehr, Scientific Assistant, Institute of Product Engineering (IPEK) at Karlsruhe Institute of Technology (KIT), Germany, Miriam Wilmsen, Doctoral Researcher, Karlsruhe Institute of Technology (KIT), Germany, Laura Lanz, Student, University of Applied Sciences Karlsruhe (HsKA), Germany, Benjamin Walter, Scientific Assistant, Institute of Product Engineering (IPEK) at Karlsruhe Institute of Technology (KIT), Germany, Albert Albers, Head of Institute of Product Engineering, Karlsruhe Institute of Technology (KIT), Germany & Carsten Hahn, Professor, University of Applied Sciences Karlsruhe (HsKA), Germany. KaLeP: A Holistic Case-Based Action Learning Environment to Educate Successful Future Engineers.

13:00-14:00 Lunch

14:00-15:30 Session VIII (Room E - 10th Floor): Geophysical Engineering

Chair: Ratan Kar, Scientist, Birbal Sahni Institute of Palaeosciences, India.

1. Oya Pamukcu, Professor, Dokuz Eylül University, Turkey & Ayca Cirmik, Research Assistant, Dokuz Eylül University, Turkey. Monitoring of the Geothermal Fields.
2. Kamran Mirza, Assistant Professor, University of the Punjab, Pakistan & Danish Khan, University of the Punjab, Pakistan. Integrated Microfacies Analysis of Lower Paleogene Carbonate Rocks of Kasanwala Area, Western Salt Range, North Western Himalayas, Pakistan.
3. Long Wang, PhD Student, China University of Geosciences, China. Reservoir Characterization and Stacking Patterns of Carbonate Grain Bank: A Case Study of Grain Bank of Cambrian Longwangmiao Formation in the Sichuan Basin, China.
4. Ayca Cirmik, Research Assistant, Dokuz Eylül University, Turkey & Oya Pamukcu, Professor, Dokuz Eylül University, Turkey. The Deformation Field of the 27th May 2017 Gölarmarmara Earthquake.

15:30-17:00 Session IX (Room C - 10th Floor): Drawing & Representation: Environment-Landscape-City

Chair: Patrizia Falzone, Professor, University of Genoa, Italy.

1. Michela Scaglione, Adjust Professor, Università degli Studi di Genova, Italy. Basic Methodology for the Knowledge of a Territory through the GIS: Analysis, Surveys and Representations.
2. Ruggero Torti, Research Grant Holder, Università degli Studi di Genova, Italy. *Signum* and Visual Identity.
3. Francesca Salvetti, Professor, University of Genoa, Italy. Quality Standards for the Restoration of Color Values in Urban Areas: Color Projects.

20:00- 21:30 Dinner

Wednesday 6 June 2018
Mycenae and Island of Poros Visit
Educational Island Tour

Thursday 7 June 2018
Delphi Visit

Friday 8 June 2018
Ancient Corinth and Cape Sounion

All ATINER's conferences are small events which serve the mission of the association (<https://www.atiner.gr/mission>) under the guidance of its Academic Committee (<https://www.atiner.gr/academic-committee>) which sets the policies (<http://www.atiner.gr/acceptance>). In addition, each conference has its own academic committee. Members of the committee include all those who have evaluated the abstract-paper submissions and have chaired the sessions of the conference. The members of the academic committee of 3rd Annual International Conference on Engineering Education & Teaching, 4-7 June 2018, Athens, Greece, were the following:

1. Gregory T. Papanikos, President, ATINER.
2. Nicholas Pappas, Vice President of Academic Membership, ATINER & Professor of History, Sam Houston University, USA.
3. Nicholas N. Patricios, Vice President of Strategic Planning & Analysis, ATINER and Professor & Dean Emeritus, School of Architecture, University of Miami, USA.
4. Virginia Sisiopiku, Head, Transportation Engineering Unit, ATINER, & Associate Professor, The University of Alabama at Birmingham, USA.
5. Sanjay Sisodiya, Associate Professor, University of Idaho, USA.
6. Mike Mavromihales, Senior Lecturer and Course Leader, University of Huddersfield, UK.
7. Eddie Smigiel, Associate Professor, INSA Strasbourg, France.
8. Javier Cubas, Assistant Professor, Polytechnic University of Madrid, Spain.
9. Elif Bengu, Academic Member, ATINER & Coordinator for Center for the Enhancement of Learning and Teaching, Abdullah Gül University, Turkey.
10. Zareena Gani, Assistant Professor, Mechanical Engineering Division, ETS, UAE.
11. Ratan Kar, Scientist, Birbal Sahni Institute of Palaeosciences, India.
12. Patrizia Falzone, Professor, University of Genoa, Italy.
13. Alice Merab Kagoda, Academic Member, ATINER & Lecturer, Makerere University, Uganda.

The Organizing Committee of the conference was:

1. Fani Balaska, Research Assistant, ATINER.
2. Olga Gkounta, Researcher, ATINER.
3. Hannah Howard, Research Assistant, ATINER.
4. Eirini Lentzou, Administrative Assistant, ATINER.
5. Konstantinos Manolidis, Administrator, ATINER.
6. Vassilis Skianis, Research Associate, ATINER.
7. Kostas Spyropoulos, Administrator, ATINER.