



Athens Institute for Education and Research

5th Annual International Conference on Civil Engineering, Structural Engineering and Mechanics

25-28 May 2015, Athens, Greece

Organized by ATINER's [Civil Engineering Research Unit](#)

Conference Venue: [Titania Hotel](#), 52 Panepistimiou Street, 106 78 Athens, Greece

Monday 25 May 2015

(all sessions include 10 minutes break)

08:00-09:00 Registration and Refreshments

09:00-09:30 (ROOM F-MEZZANINE FLOOR) Welcome & Opening Remarks

- Dr. Gregory T. Papanikos, President, ATINER & Honorary Professor, University of Stirling, UK.
- Dr. George Poulos, Vice-President of Research, ATINER & Emeritus Professor, University of South Africa, South Africa.
- Dr. Thomas Attard, Head, Civil Engineering Research Unit, ATINER & Associate Professor, The University of Alabama at Birmingham, USA.

09:30-11:00 Session I (ROOM F-MEZZANINE FLOOR): Structural Engineering

Chair: George Poulos, Vice-President of Research, ATINER & Emeritus Professor, University of South Africa, South Africa.

1. [Nuray Tokyay](#), Professor, Metu University, Turkey & [Mehmet Mert Bulbul](#), MSc Student, Metu University, Turkey. Drag Characteristics of Historical Bridge Pier.
2. [Lan Lin](#), Assistant Professor, Concordia University, Canada, Adel Hanna, Professor, Concordia University, Canada, Lucia Tirce, Assistant Professor, Concordia University, Canada & Anup Ainha, Postdoctoral Fellow, Concordia University, Canada. Performance of High-Rise Building Subjected to Excessive Differential Settlement of its Foundation.
3. [*Fouad Mohammad](#), Senior Lecturer, Nottingham Trent University, U.K. & Dana A Seyan, MSc Student, Nottingham Trent University, U.K. Optimum Design of Reinforced Concrete Rectangular Columns Subjected to Axial Compression and Biaxial Bending Moments.
4. [Komathi Murugan](#), Ph.D. Student, Indian Institute of Technology Madras, India & Amlan K. Sengupta, Professor, Indian Institute of Technology Madras, India. Investigation of Shear Strength and Interface of Columns Strengthened by Concrete Jacketing.

11:00-12:30 Session II (ROOM F-MEZZANINE FLOOR): Earthquake Engineering

Chair: [*Fouad Mohammad](#), Senior Lecturer, Nottingham Trent University, U.K.

1. [Saman Bagheri](#), Assistant Professor, University of Tabriz, Tabriz, Iran & Mostafa Farajian, Graduate Student, University of Tabriz, Tabriz, Iran. Seismic Response of Base Isolated Liquid Storage Tanks under Near Fault Ground Motions.
2. [Ilker Kalkan](#), Assistant Professor, Kirikkale University, Turkey, Sabahattin Aykac, Associate Professor, Gazi University, Turkey, Eray Ozbek, Research Assistant, Gazi University, Turkey & Bengi Aykac, Teaching Assistant, Gazi University, Turkey. Influence of Strengthening the Infill Walls with Perforated Steel Plates on the Behavior of RC Frames.
3. Mohamed Omar Mohamed Hussein, Assistant Professor, Aswan University, Egypt. Effect of Chevron Bracing on Seismic Response of Cable-Stayed Bridge Steel Towers. (Monday, 25th of May 2015, Morning Session)

12:30-14:00 Session III (ROOM F-MEZZANINE FLOOR): Pavement/Asphalt Engineering

Chair: Thomas Attard, Head, Civil Engineering Research Unit, ATINER & Associate Professor, The University of Alabama at Birmingham, USA.

1. *Xiangming Zhou, Senior Lecturer, Brunel University London, U.K., Samira Safari, MPhil Student, Brunel University London, U.K & Shakir Mahboob, BEng, Brunel University London, U.K. Towards Microwave Curing of Alkali Activated Cement Made from Fly Ash.
2. Mohamed Larbi Benmalek, Teacher and Researcher, University of 08 May 1945 Guelma, Algeria. Effects of Crushed Waste Aggregate from the Manufacture of Clay Bricks on Rendering Cement Mortar Performance.

14:00-15:00 Lunch

15:00-16:30 Session IV (ROOM F-MEZZANINE FLOOR): Geotechnical Engineering

Chair: *Xiangming Zhou, Senior Lecturer, Brunel University London, U.K

1. *Lazhar Belabed, Professor, University of Guelma, Algeria. Determination of Anchor Lengths by Retaining Walls.
2. Hacene Benyaghla, Lecturer, University of Guelma, Algeria & Lazhar Belabed, University of Guelma, Algeria. Influence of the Compressibility and the Dilatancy of the Soil on the Behavior of a Pile under Axial Loading by the Method of Limit Analysis. Theoretical and Experimental Approach.
3. Nahid Vatanpour, Ph.D. Candidate, Politecnico Di Milano, Italy & Laura Scesi, Professor, Politecnico Di Milano, Italy. Landslide Hazard and Vulnerability Risk Assessment. An Overview.
4. Talaat Abdel-Wahed, Assistant Professor, Sohag University, Egypt, Ayman Othman, Professor, Aswan University, Egypt & Naglaa Rashwan, Lecturer, Bani Sweef University, Egypt. Utilization of Waste Iron Slag on Hot Mix Asphalt Concrete Mixtures.

16:30-18:30 Session V (ROOM F-MEZZANINE FLOOR): Structural Mechanics and Other Essays

Chair: *Lazhar Belabed, Professor, University of Guelma, Algeria

1. Sergio Trajano Moreiras, Professor, Maringa State University, Brazil & Antenor Paraguassu, Professor, Sao Carlos Engineering School, Brazil. Non Adherent Building Systems: Granite Plates Structural Behavior.
2. Thomas Attard, Associate Professor, The University of Alabama at Birmingham, USA & Hongyu Zhou, Assistant Professor, University of Alabama in Huntsville, USA. Damage Absorption of High-Impact Structural Systems Using Time-Reaction of Hybridized Epoxy-Polyurea Interfaces.
3. Zahreddine Nafa, Associate Professor, 08 Mai 1945 University, Algeria & Nadjat Djerfaj, Ph.D. Student, 08 Mai 1945 University, Algeria. Effect of H₂SO₄ Solution on the Durability of High Performance Concrete Made with Local Crushed Sand.
4. Salah Khalfallah, Professor, Polytechnic National School of Constantine, Algeria. Effect of Soil Mechanical Properties on RC Wall System Responses.

21:00-23:00 Greek Night and Dinner (Details during registration)

Tuesday 26 May 2015

08:00-10:00 Session VI (ROOM F-MEZZANINE FLOOR): Structural Dynamics/Vibrations

Chair: *Waleed Thanoon, Professor and Dean, University of Nizwa, Oman.

1. Roberto Gomez, Associate Professor, Institute of Engineering, UNAM, Mexico, Raul Sanchez-Garcia, Research Assistant, Institute of Engineering, UNAM, Mexico, Adrian Pozos-Estrada, Assistant Professor, Institute of Engineering, UNAM, Mexico & Jose Alberto Escobar-Sanchez, Associate Professor, Institute of Engineering, UNAM, Mexico. Wind Turbulence Evaluation on a Terrace of a High Rise Building.
2. *Sabahattin Aykac, Associate Professor, Gazi University, Turkey, Eray Ozbek, Research Assistant, Gazi University, Turkey & Meryem Bocek, Research Assistant, Gazi University, Turkey. Strengthening of Reinforced Concrete Beams with Externally-Bonded Steel Plates.
3. Abdelmalek Abdelhamid, Researcher, National Center of Studies and Integrated Research on Building Engineering (CNERIB), Algeria. Floor Vibration Response Assessment under a Walking-Induced Excitation Force.
4. Naima Adjou, Researcher, National Center of Studies and Integrated Research on Building Engineering, Algeria, Naima Haddadou, Researcher, National Center of Studies and Integrated Research on Building Engineering, Algeria, Farid Belhamel, Researcher, National Center of Studies and Integrated Research on Building Engineering, Algeria & Malik Bouzoualegh, Researcher, National Center of Studies and Integrated Research on Building Engineering, Algeria. Complex Modes of a Non-Classical Damping Structure.
5. *Liling Cao, Senior Project Director, Thornton Tomasetti, USA, Lauren Millman, Senior Engineer, Thornton Tomasetti, USA, Alireza Kermani, Project Director, Thornton Tomasetti, USA, Ali Ashrafi, Senior Associate, Thornton Tomasetti, USA & Christopher Pinto, Vice President, Thornton Tomasetti, USA. Early Time Dynamic Shear Spike for Beams or Columns Due to Blast Loading.

10:00-11:30 Session VII (ROOM F-MEZZANINE FLOOR): Construction Engineering and Geodetic Applications

Chair: Ilker Kalkan, Assistant Professor, Kirikkale University, Turkey

1. Wilhelm Stelling, Vice President, Georg Agricola University of Applied Sciences, Germany. Deformation Measurements of an Industrial Monument with Laser Scanner.
2. *Samer Ezeldin, Professor and Chair of Construction and Architectural Engineering, The American University in Cairo, Egypt & Ahmed El Hady, Ph.D., The American University in Cairo, Egypt. Price Estimating for Non-serial Repetitive Projects.
3. Dennis Knese, Ph.D. Student, Frankfurt University of Applied Sciences, Germany. E-Mobility: New Challenges for Urban and Transport Planning.

11:30-13:00 Session VIII (ROOM F-MEZZANINE FLOOR): Advanced Structural Analytical Methods

Chair: *Samer Ezeldin, Professor and Chair of Construction and Architectural Engineering, The American University in Cairo, Egypt

1. *Jose Turmo, Professor, Universitat Politecnica de Catalunya, BarcelonaTECH, Spain, Jose Antonio Lozano Galant, Assistant Professor, University of Castilla-La Mancha, Spain & Dong Xu, Professor, Tongji University, China. Evolutive Construction of Cable Stayed Bridges. (Tuesday, 26th of May 2015)
2. Kanta Prajapat, Ph.D. Scholar, Indian Institute of Technology Kanpur, India & Samit Ray-Chaudhuri, Associate Professor, Indian Institute of Technology Kanpur, India. Damage Quantification in Civil Structures with Bayesian Approach along with a Comparison of Different Markov Chain Monte Carlo Algorithms. (Tuesday, 26th of May 2015)
3. Altin Bidaj, Lecturer, Polytechnic University of Tirana, Albania, Enkelelda Kokona, Ph.D. Student, Polytechnic University of Tirana, Albania & Helidon Kokona, Ph.D. Student, Institute of Earthquake Engineering and Engineering Seismology IZIIS, FYROM. Assessment of Mesh Size Refinement Influence on FEM Solution of Shear Wall Structural Systems. (Tuesday, 26th of May 2015)

13:00-14:30 Session IX (ROOM F-MEZZANINE FLOOR): Structural Composites and Materials Characterization

Chair: *Jose Turmo, Professor, Universitat Politecnica de Catalunya, BarcelonaTECH, Spain

1. *Waleed Thanoon, Professor and Dean, University of Nizwa, Oman. Micro and Macro Modelling for the Inelastic Behavior of rc Beam Strengthened with CFRP.
2. Claudia von Laar, Professor, Hochschule Wismar - University of Applied Sciences, Technology, Business and Design, Germany, Natalia Lesnych, Research Associate, Hochschule Wismar - University of Applied Sciences, Technology, Business and Design, Germany & Melanie Schomann, Research Associate and Laboratory Head, Hochschule Wismar - University of Applied Sciences, Technology, Business and Design, Germany. Multifunctional Anti-Graffiti-Systems.
3. Johannes Stahl, Research Assistant, Kaiserslautern University, Germany & Paul Ludwig Geiss, Professor, Kaiserslautern University, Germany. Surface Pre-Treatment of Batch-Galvanized Components for Adhesively Bonded Assemblies.
4. Naima Haddadou, Researcher, National Center of Studies and Integrated Research on Building Engineering (CNERIB), Algeria. Experimental Study of Steel Fiber Reinforced Self Compacting Concrete with Different Aspect Ratio and Mineral Addition.
5. Nassereddine Attari, Senior Lecturer, School of Architecture and Urbanism, Algeria. Strengthening of Defected Beam – Column Joints by Using FRP.

14:30-15:30 Lunch

15:30-18:00 Urban Walk (Details during registration)

20:30- 22:00 Dinner (Details during registration)

Wednesday 27 May 2015
Cruise: (Details during registration)

Thursday 28 May 2015
Delphi Visit: (Details during registration)