



Faculty of Civil
Engineering and
Building Services
Iasi, Romania



International Center
for Numerical
Methods in
Engineering
Barcelona, Spain



"Matei-Titiu Bolza"
Academic Society
Iasi, Romania



"Prof. Anton
Sesan" Academic
Society for
Constructions



the 15th Computational Civil Engineering Conference

May 30th - 31th , Iasi, Romania



FESTIVALUL
INTERNAȚIONAL AL
EDUCAȚIEI

www.fieiasi.eu

CONFERENCE PROGRAM

May 30th 2019

Hotel Unirea – Cuza Center

Part I

8:30 – 9:30	Participants registration
9:30 – 10:00	Conference Opening
10:00 – 10:45	Jason Ingham (University of Auckland, New Zealand) – <i>Multi-scale Multi-disciplinary Research to Mitigate the Seismic Hazard of URM Buildings</i>
10:45 – 11:05	Florian Vlădulescu (INAS Romania) - <i>Optimization of Structural Systems for Civil Constructions Using Numerical Analyses</i> - sponsor
11:05 – 11:30	Coffee break
11:30 – 12:15	Neculai Tutos (Klaro Consulting, U.S.A.) - <i>Rethinking the Roadmap to Digital Age Performance in Construction</i>
12:15 – 12:35	Lucian Mihai (SIKA Romania) - <i>Sika Structural Design Software for Composite Reinforcements</i>
12:35 – 12:55	Phil Cull, Ovidiu Frunza (Barhale Ltd, UK) – <i>Tunneling Under River Thames</i>
12:55 – 13:15	Marian Constantinescu (TPF Inginerie Romania) - <i>TPF – Engineering Services Since 1999</i>
13:15 – 15:00	Lunch time

Part II

15:00 – 17:00	Parallels sessions - Conference papers
17:00 – 19:00	Iasi – cultural and historical city - downtown walking sightseeing (guide touring) (optional – separate fee)

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Partners:



Sponsors:





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May 31st 2019

Hotel Unirea – Cuza Center

Part I

9:00 – 9:30

Participants registration

9:30 – 10:15

Konstantinos Tsavdaridis (*University of Leeds, UK*) - ***Sustainable Seismic-Resistant Design of MRFS with the Use of Perforated Beams***

10:15 – 11:00

Dan Palermo (*York University, Canada*) - ***Shape Memory Alloy Reinforced Concrete Structures: From Experimental Testing to Advanced Nonlinear Modelling***

11:00 – 11:20

Radu Canarache (*INICAD design*), **Paul Rosu** (*Military Technical Academy*) - ***Modern Methods for Identifying Dynamics and Monitoring Structures***

11:20 – 11:45

Coffee break

11:45 – 12:30

Ioan Nistor (*University of Ottawa, Canada*) - ***Extreme Hydrodynamic and Debris Loading on Structures - Forensic Engineering Field, Experimental and Numerical Studies***

12:30 – 13:00

Alex H. Bărbat (*CIMNE Spain*) - ***Evaluation of the failure pressure of the containment building of a nuclear power plant***

13:00 – 13:20

Radu Stefan (*GIMSID*) - ***Hydrodynamics of Concrete Structures: case studies***

13:20 – 15:00

Lunch time

Part II

15:00 – 18:00

Parallels sessions - Conference papers

19:00 -

Farewell dinner – Unirea Restaurant

June 1st 2019

9:00 -

Sightseeing in Iasi (guide touring) (optional – separate fee)

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KEYNOTE SPEAKERS CCE2019

Jason Maxwell Ingham



Professor Ingham did his BE and ME at The University of Auckland, followed by a PhD at the University of California at San Diego. Supervised by Professor Nigel Priestley and Professor Freider Seible he investigated the seismic response of elevated concrete freeway frames and was funded by the California Department of Transportation (Caltrans).

Professor Ingham joined The University of Auckland as a staff member in 1995 and undertook an MBA in 2004. In that same year was awarded a \$3.75m research grant funded by the NZ Foundation for Research Science and Technology, investigating and developing guidelines for seismic assessment and retrofit of earthquake prone buildings. The project was a collaboration with The University of Canterbury and collectively involved 27 PhD studies. Recently Professor Ingham has extended his research interests to include the use of recycled or waste materials in concrete, and the condition assessment of concrete bridges.

Ioan Nistor



Dr. Ioan Nistor is a Professor of Hydraulic and Coastal Engineering in the Department of Civil Engineering of the University of Ottawa. Dr. Nistor is a coastal and hydraulic engineer researching hazards associated with extreme hydrodynamic loading on infrastructure, coastal erosion, and hydrodynamics and impact of coastal disasters. Dr. Nistor is the Chair of the Maritime and Coastal Division of International Association for Hydro-Environment Engineering and Research (IAHR) and a member of the Board of Directors of the Canadian Coastal Science and Engineering Association. He is also a voting member of the ASCE7 Tsunami Loads and Effects Subcommittee for the elaboration of New Design Guidelines for Tsunami-Resistant Buildings.

Prior to joining the University of Ottawa, Dr. Nistor spent several years as a design and consulting hydraulic engineer with AECOM-TECSULT Montreal, working on various international and Canadian water resources projects.

Dan Palermo



Dr. Palermo is a Professor of Structural Engineering in the Department of Civil Engineering. Prior to joining York University, he was a faculty member at the University of Ottawa from 2005-2013 and the University of Calgary in 2004. He completed his BSc, MSc, and PhD in 1995, 1998, and 2002, respectively, from the University of Toronto.

Dr. Palermo serves as an Associate Editor for the Canadian Journal of Civil Engineering (CJCE). He was the Chair of the CSCE Engineering Mechanics and Materials Division from 2013-2017. He is a member of the Member of ASCE Retrofit of Structures under Dynamic Loads Subcommittee; and an associate member of the American Society of Civil Engineers Standard ASCE 7 (Minimum Design Loads for Buildings

and Other Structures) Tsunami Loads and Effects (TLE) Subcommittee. Dr. Palermo is a registered Professional Engineer in the Province of Ontario.

Konstantinos Daniel Tsavdaridis



Dr Tsavdaridis is an Associate Professor and Leader of 'Materials and Structures' School Research Group, in the School of Civil Engineering, University of Leeds (UK). Dr Tsavdaridis' research focuses on large-scale experiments in the field of structural engineering - particularly on the analysis and design perforated steel beams. He is actively involved in the development and transfer into the market of new technologies in structural products that embrace resilience and sustainability, through laboratory research. His discoveries combine science and practice. In 2013, he was core member and co-investigator of the successful EPSRC Strategic Equipment Grant proposal for establishing a Multi-Axial Dynamic Shaking Table testing facility at the University of Leeds EP/L022648/1.

Dr Tsavdaridis is also a Chartered Engineer by the Engineering Council (CEng) and a Fellow of the Institution of Civil Engineers (FICE), a Licensed Civil Engineer in Greece and in Europe recognised by the European Federation of National Engineering Associations (FEANI), a Member of the American Society of Civil Engineers, and an ICE Mentor.

Neculai C. Tutos



Decades of worldwide experience in the development of advanced systems for construction engineering based on 3-dimensional modelling and process simulation.

For over ten years, Vice President Dassault Systemes, worldwide leader in the development of digital solutions for aerospace, automotive, defense and commercial shipbuilding, engineering of industrial and commercial facilities, architectural design, city planning, etc. For ten years, Vice President Advanced Systems Developments, Stone & Webster Engineering Corporation (S&W), Boston, Massachusetts. This includes four years Scientific Director of AITEC, Milano, Italy, a S&W - Montedison joint venture.

Over ten years, member of the Corporate Advisory Board, Civil Engineering Research Foundation (CERF), Washington DC. CERF membership included over 100 top construction and engineering organizations.

In Romania, before emigration, Dr. Tutos was the General Director of COCC, the National Computer Institute for the construction industry. After graduation, he worked as site construction engineer, later promoted as Chief Engineer Technologies, Industrial Construction Company, Iasi.

His activity includes teaching of structural engineering and computer applications.