



## Agenda

### **International Conference** *Critical Thinking in the Sustainable Rehabilitation and Risk Management of the Built Environment* **– CRIT-RE-BUILT –**

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**Project 2018-1-R001-KA203-049214**  
*Rehabilitation of the Built Environment in the Context of Smart City and Sustainable  
Development Concepts for Knowledge Transfer and Lifelong Learning*  
**RE-BUILT**  
**ERASMUS+ programme KA2 – HIGHER EDUCATION STRATEGIC PARTNERSHIPS**

**November 7<sup>th</sup>/ 9<sup>th</sup>, 2019**

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**“Gheorghe Asachi” Technical University of Iași (TUIASI)**  
**Faculty of Civil Engineering and Building Services**  
**Iași, Romania**

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## Agenda

### CRIT-RE-BUILT International Conference

**Day 1: 7/11/2019**

**Venue : Aula Magna “Carmen Sylva”, Copou University Palace,  
11A Carol I Avenue, Iași**

<b>9:30 – 10:00</b>	<b>Registration of participants – The Hall of Lost Steps, Copou University Palace, 11A Carol I Avenue, Iași</b>
<b>10:00 – 10:35</b>	<b>Welcome Ceremony</b>
10:00 – 10:10	Welcome speech by the Mayor of Iași City <i>(Mihai Chirica, City Hall of Iași, Romania)</i>
10:10 – 10:15	Welcome speech by the Rector of the host University <i>(Professor Dan Cașcaval, Ph.D., “Gheorghe Asachi” Technical University of Iași, Romania)</i>
10:15 – 10:20	Welcome speech by the Dean of the host Faculty <i>(Assoc.Prof. Vasiliță Ciocan, Ph.D., Faculty of Civil Engineering &amp; Building Services, TUIASI, Romania)</i>
10:20 – 10:25	Welcome speech by the Director of the RE-BUILT project <i>(Assoc. Prof. Ancuța Rotaru, Ph.D., F.CE &amp; Building Services, TUIASI, Romania)</i>
10:25 – 10:30	Opening speech by the representative of international attendees <i>(Prof Yoyong Arfiadi, PhD, Rector - University Atma Jaya Yogyakarta, Indonesia)</i>
<b>10:30 – 11:30</b>	<b>Plenary Session</b>
10:30 – 10:45	Brief presentation of the RE-BUILT Project <i>(Assoc.Professor Ancuța Rotaru, TUIASI, Romania – RE-BUILT Director)</i>
10:45 – 11:15	Sustainable Rehabilitation and Risk Management of the Built Environment: A Critical Thinking in Nepalese Perspective <i>(Arh. Sarita Shrestha Maskey, Joint Secretary, Ministry of Urban Development Government of Federal Democratic Republic of Nepal)</i>
11:15 – 11:30	Geotechnical Engineering Works for Preservation of Scrovegni Chapel, Padua <i>(Professor Paolo Simonini, Ph.D., University of Padua, Italy)</i>
<b>11:30 – 11:45</b>	<b>Coffee break</b>
<b>11:45 – 12:15</b>	<b>Plenary Session</b>
11:45 – 12:15	Modern Composite Strengthening Solutions for Civil Engineering Structures <i>(Emeritus Professor Nicolae Țăranu, Ph.D., Dr.h.c. – FCE, TUIASI, Romania)</i>
12:15 – 12:45	Use of Distributed Fibre Optical Sensors for the Structural Health Monitoring of Geotechnical Structures <i>(Assoc. Professor Simonetta Cola, Ph.D., University of Padua, Italy)</i>
12:45 – 13:00	Introduction to Technical Solutions Implemented by “CONSTRUCTII UNU” Company to Rehabilitate Building Projects. <i>(Eng. Alexandru Marian, CEO, S.C. CONSTRUCTII UNU S.A., Iași, Romania)</i>
13:00 - 13:25	Contribution of Satellite Radar Interferometry for Land Management Activities <i>(Assoc. Prof. Massimo Ramondini, Ph.D., University of Naples Federico II, Italy)</i>
<b>13:25 – 13:30</b>	<b>Photo Session – Aula Magna “Carmen Sylva”, Copou University Palace</b>
<b>13:30 – 13:55</b>	<b>Guided Tour (Professor Mihaela Știrbu): TUIASI’s Central Library + The Hall of Lost Steps, Copou University Palace</b>
<b>13:55 – 14:00</b>	<b>Photo Session in front of Copou University Palace</b>
<b>14:00 – 16:00</b>	<b>Lunch break</b>

**Venue: Faculty of Civil Engineering and Building Services, TUIASI  
Foucault Pendulum Hall of the Building Services House  
1, Prof.dr.doc. Dimitrie Mangeron Street, Iași**

<b>16:00 – 18:00</b>	<b>Paper Presentation Session</b>
	<b>Session Chairs:</b> Professor Wei Wu, Ph.D., BOKU Vienna, Austria Professor Paolo Simonini, Ph.D., University of Padua, Italy Professor Husam Al-Hamaiedeh, Ph.D., Mu'tah University, Karak, Jordan
16:00 – 16:15	<b>Prof. Dashnor Hoxha, Ph.D.</b> , University of Orléans, University of Tours, INSA CVL, LaMé, France: <i>On the Applicability of the Corresponding Principle in Prediction of Long Term Behavior of Underground Structures</i> (Duc-Phi Do, Ngoc Tuyen Tran, Dashnor Hoxha)
16:15 – 16:30	<b>Prof. Manuel E. Ruiz-Sandoval, Ph.D.</b> , Universidad Autonoma Metropolitana, Azcapotzalco, Mexico City, Mexico: <i>Mexico's Earthquake: Description, Effects and Reconstruction. A Particular Case</i> (Manuel E. Ruiz-Sandoval, Emmanuel Rivera, Luciano Fernandez)
16:30 – 16:45	<b>Dr. Chavdar Kolev</b> , Higher School of Transport "Todor Kableshkov", Sofia, Bulgaria: <i>Vertical Vibro-isolation for Building Foundations – A Full-scale Experiment</i> (Chavdar Kolev)
16:45 – 17:00	<b>Dr. Enea Mustafaraj</b> , Epoka University, Tirana, Albania: <i>Structural Assessment of Mehmed Pasha Hammam in Prizren, Kosovo</i> (Enea Mustafaraj, Jetmir Morina)
17:00 – 17:15	<b>Dr. Vu Tu Tran</b> , Ho Chi Minh City University of Technology and Education, Vietnam: <i>Effects of Container Vehicle on Intersection Capacity in Motorcycle Dominating the Traffic Flow</i> (Vu Tu Tran, H.T. Tai Nguyen)
17:15 – 17:30	<b>Dr. Huynh Tan Tai Nguyen</b> , Ho Chi Minh City University of Technology and Education, Vietnam: <i>Analysis of Stress and Strain in Flexible Pavement Structures Comprised of Conventional and High Modulus Asphalt Using Viscoelastic Theory</i> (Huynh Tan Tai Nguyen, Vu Tu Tran)
17:30 – 17:40	<b>Dr. Peter Šenk</b> , University of Maribor, Slovenia, <i>Sustainable Transformation of Streets – Holistic Approach and Selected Examples</i> (Kaja Pogačar, Peter Šenk)
17:40 – 17:50	<b>Dr. Jacinto Canivell Garcia de Paredes</b> , University of Seville: <i>Life Cycle Cost (LCC) and Sustainability. Proposal of an IFC Structure to Implement LCC During the Design Stage of Buildings</i> (Ignacio Bernardino-Galeana, Carmen Llatas, María Victoria de Montes-Delgado, Bernardette Soust-Verdaguer, Jacinto Canivell Garcia de Paredes, Pedro Meda)
17:50 – 18:00	<b>Dr. Assal Edwar Zidan Haddad</b> , The American University of Madaba, Jordan, <i>Evaluation of the Factors Affecting the Patterns of Purchasing, Recycling, and Disposal of Children's Toys</i> (M. Abu Sakha, A. Haddad)
18:00 – 19:00	<i>Leisure time</i>
<b>19:00 – 22:00</b>	<b>Gala Dinner</b>

**Day 2: 8/11/2019**

Venue: Faculty of Civil Engineering and Building Services, Foucault Pendulum Hall of the Building Services bloc, TUIASI  
1, Prof.dr.doc. Dimitrie Mangeron Street, Iași

<b>9:30 – 11:45</b>	<b>Paper Presentation Session</b>
	<b>Session Chairs:</b> Prof. Irina Baran, PhD, “Gheorghe Asachi” Technical University of Iași, Romania Lecturer Ionuț-Ovidiu Toma, Ph.D., TUIASI, Romania Lecturer Laura Dumitrescu, Ph.D., TUIASI, Romania
10:00 – 10:10	<b>Dr. Radu Aurel Pescaru</b> , „Gheorghe Asachi” Technical University of Iași, Romania: <i>A Retrospective Analysis on the Thermal Rehabilitation of a School Building – Case Study</i> (Radu Aurel Pescaru, Laura Dumitrescu, Irina Baran)
10:10 – 10:20	<b>Dr. Petru Mihai</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Tensile Testing of A Biocomposite Material – “Liquid Wood”</i> (Tudor – Cristian Petrescu, Petru Mihai, Ionuț – Ovidiu Toma)
10:20 – 10:30	<b>Dr. Marius – Costel Balan</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Tehcnical Economic Analysis to Change the Public Buildings in nZEBs</i> (Marius Balan, Vasiliță Ciocan, Marina Verdeș, Emilian Țurcanu)
10:30 – 10:40	<b>Dr. Vitalie Florea</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>3D Printing of Buildings, Limits, Design, Advantages, Disadvantages, May this Technique Contributes to the Sustainability of the Futures Buildings</i> (Vitalie Florea, Fideliu Păuleț-Crăiniceanu, Septimiu-George Luca, Cristian Pastia)
10:40 – 10:50	<b>Dr. Ionuț – Ovidiu Toma</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Improvements of Strength and Dynamic Elastic Characteristics of Mortars by Using Carbon Nano-Tubes</i> (Daniel Covatariu, Mihai-Sergiu Alexa-Stratulat, Ionuț-Ovidiu Toma)
10:50 – 11:00	<b>Dr. Oana Elena Colț</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Landslides – Effects on Built Environment and Solutions</i> (Oana Elena Colț)
11:00 – 11:10	<b>Dr. Oana – Mihaela Banu</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Rehabilitation Process of an Emblematic Historic Building of Iași County – Braunstein Palace</i> (Oana-Mihaela Banu, Sebastian Cusutură, Ioana Olteanu-Donțov, Mihaela Movilă)
11:10 – 11:20	<b>Dr. Mihaela Movilă</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Structural Rehabilitation of Historical Heritage Masonry Buildings</i> (Mihaela Movilă, Mihaela Gogonea, Ioana Olteanu-Donțov, Oana-Mihaela Banu)
11:20 – 11:30	<b>Dr. Ioana Olteanu – Donțov</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Particularities of Moldavian Wood Heritage</i> (Ioana Olteanu-Donțov, Marian-Gabriel Vartolomei, Mihaela Movilă, Oana-Mihaela Banu)
<b>11:30 – 11:50</b>	<b>Coffee break</b>
<b>11:50 – 13:00</b>	<b>Paper Presentation Session</b>
	<b>Session Chairs:</b> Professor Taoufik Cherradi, Ph.D., University Mohammed V, Rabat, Morocco Assoc.Prof. Andrea Segalini, Ph.D., University of Parma, Italy Francisco David Villalobos Ramírez, Fidélitas University, San José, Costa Rica
11:50 – 12:00	<b>Dr. Ancuța Rotaru</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Study on the Impact of the Environmental Degradation on the Atmospheric and</i>

	<i>Geological Factors of Built Areas</i> (Papia Guha, Ancuța Rotaru, Gupinath Bhandari)
12:00 – 12:10	<b>Prof. Dashnor Hoxha, Ph.D.</b> , University of Orléans, University of Tours, INSA CVL, LaMé, Orléans, France: <i>Identification of Thermal Properties of Construction Materials Using Far-field Contactless Temperature Measurements</i> (Nabil Younes, Ikram Mouchrik, Marouen Slamia, Naima Belayachi, Dashnor Hoxha)
12:10 – 12:20	<b>Dr. Alina Mihaela Nicuță</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Hazard Risk Analysis. A Worst Case Scenario Approach</i> (Alina Mihaela Nicuță)
12:20 – 12:30	<b>Dr. Chavdar Kolev</b> , Higher School of Transport “Todor Kableshkov”, Sofia, Bulgaria: <i>Experiment to Evaluate the Impulse Plate Sealing in a Test Embankment Section</i> (Chavdar Kolev)
12:30 – 12:40	<b>Prof. Marinela Bărbuță</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Increasing Building Material Efficiency. Mechanical Characteristics of Polymer Concrete with Different Wastes</i> (Marinela Bărbuță, Dănuț-Traian Babor, Ancuța Rotaru, Nicolaie-Gabriel Costoaea)
12:40 – 12:50	<b>Dr. Jacinto Canivell Garcia de Paredes</b> , University of Seville: <i>The Effect of Thermal Bridge Junctions Between Pillars and Walls in the Energy Demand of Buildings in Warm Climate</i> (David Bienvenido-Huertas, María Victoria de Montes-Delgado, Carlos Rubio-Bellido, Jacinto Canivell Garcia de Paredes)
12:50 – 13:00	<b>Dr. Dana-Mădălina Pohrib</b> , “Gheorghe Asachi” Technical University of Iași, Romania: <i>Embankment Stabilization of A Road that Follows the Bank of A Mountain Stream</i> (Dana – Mădălina Pohrib, Ancuța Rotaru)
<b>13:00 – 13:30</b>	<b>Visit to research laboratories – Faculty of Civil Engineering and Building Services – TUIASI</b>
<b>13:30 – 14:30</b>	<b>Lunch break</b>
<b>14:30 – 16:30</b>	<b>Paper Presentation Session</b>
	<b>Session Chairs:</b> Professor Dashor Hoxha, Ph.D., University of Orléans, France Assoc. Professor Ancuța Rotaru, Ph.D., TUIASI, Romania Assoc. Prof. Luis José Andrade Pais, Ph.D., U. Beira Interior, Covilha, Portugal
14:30 – 14:45	<b>Prof. Ramesh Kumar Maskey</b> , Ph.D., Kathmandu University, Nepal, <i>Circular Economy - A Key for Longevity of Built Environment in Himalayan Region: A Nepalese Prospective</i>
14:45 – 15:00	<b>Dr. Pham Huy Giao</b> , Asian Institute of Technology, Bangkok, Thailand: <i>The Important Role of the Groundwater and Land Subsidence Analysis for Sustainable Infrastructure in Megacities in SE Asia</i> (Pham Huy Giao)
15:00 – 15:15	<b>Prof. Yoyong Arfiadi, Ph.D.</b> , Atma Jaya University Yogyakarta, Indonesia: <i>Damage Due to Earthquake and Reconstruction of Residential Houses after Yogyakarta Earthquake 2006</i> (Yoyong Arfiadi, Ade Lisantono, Lucida)
15:15 – 15:30	<b>Dr. Maura Imbimbo</b> , University of Cassino and Southern Lazio, Cassino, Italy: <i>The Role of the Knowledge Process in the Seismic Assessment of Masonry Building Aggregates – An Italian Case Study</i> (Valentina Cima, Ernesto Grande, Maura Imbimbo, Assunta Pelliccio, Marco Saccucci)
15:30 – 15:45	<b>Dr. Chris Roth</b> , University of Pretoria, Pretoria, South Africa: <i>Evaluation of the Seismic Response of a Reinforced Concrete Footing to Increasing Peak Ground Acceleration Using Pseudodynamic Experimentation</i> (S. Hossell, C. Roth)

15:45 – 16:00	<b>Prof. Wynand JvdM Steyn, Ph.D.</b> , University of Pretoria, Pretoria, Pretoria, South Africa: <i>Sustainable and Durable Road Pavements through Fundamental and Thorough Laboratory Evaluations</i> (Wynand JvdM Steyn)
16:00 – 16:15	<b>Dr. Andrea Segalini</b> , University of Parma, Italy: <i>Innovative Application of IoT Technologies to Improve Geotechnical Monitoring Tools and Early Warning Performances</i> (Andrea Segalini, Roberto Savi, Edoardo Cavalca, Alessandro Valletta, Andrea Carri)
16:15 – 16:30	<b>Prof. Paulo Eduardo Maia de Carvalho, Ph.D.</b> , University of Beira Interior, Covilhã, Portugal: <i>Data Analysis on the Environmental Characterization of Groundwater in Fundão – Portugal</i> (Paulo Eduardo Maia de Carvalho, Luís José Andrade Pais)
<b>16:30 – 19:00</b>	<b>Iași City Tour</b>
<b>19:00 – 22:00</b>	<b>Partnership Dinner</b>

**Day 3: 9/11/2019**

**Venue : Hotel Unirea’s lobby. Boarding the coach for technical visit.**

<b>8:30 – 21:30</b>	<b>Technical visit</b>
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