

## **Rehabilitation of the Built Environment in the Context of Smart City and Sustainable Development Concepts for Knowledge Transfer and Lifelong Learning - 2018-1-RO01-KA203-049214**

In the 8<sup>th</sup> Intensive Programme for Teaching (C8) during 18 – 29 October 2021 and the 4th Transnational Meeting of the project during 25 – 27 October 2021 organized at NOVA, several activities were developed to ensure the successful development of the project's activities, as follows.

### **A. Virtual activities in the frame of the intensive programme for teaching**

In the intensive programme for teaching, due to pandemic situation, the lectures (see the table below) were taught online. However, during the lectures period, all teachers were physically present in the faculty facilities to be able to interact with the students and academic and research staff.

In the photo below, in the middle, visiting teachers, Sébastien Rémond and Elise Rémond from Civil Engineering Academic Unit, School of Engineers Polytech Orléans, University of Orléans and António Pinho Ramos (right) and Carlos Rodrigues from Civil Engineering Department of Faculty of Science and Technology of NOVA University of Lisbon after teaching lectures. The visiting teachers from University of Orléans have been introduced into the research activities at the Civil Engineering Department of NOVA University and discussed with the local representative various ways of strengthening the collaborative research between the two institutions in the different fields, such as FRP Composite Structures, Strengthening of Concrete Structures and Old Masonry Buildings, Precast Concrete Structures, Materials and Durability.

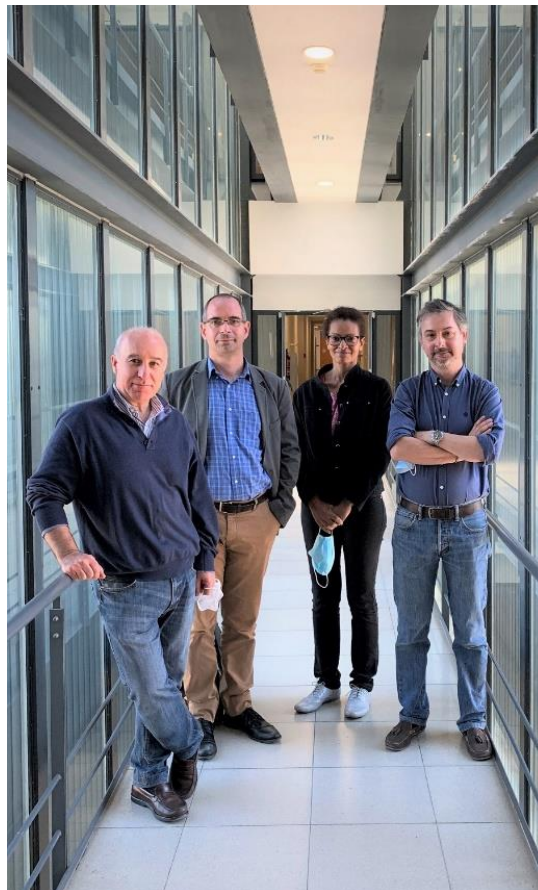


Photo by Daniel Aelenei

Schedule	Title	Teacher
18 <sup>th</sup> October	"An Introduction to tunnel Engineering - I-why go underground?"	Shun WANG, University of Natural Resources and Life Sciences, Vienna, Austria
19 <sup>th</sup> October	"Comprehensive approach to building renovation"	Vesna ŽEGARAC LESKOVAR, University of Maribor, Slovenia
19 <sup>th</sup> October	"Vulnerability, seismic survey, HBIM structural analysis - I"	Maura IMBIMBO, University of Cassino and Southern Lazio, Cassino, Italy
20 <sup>th</sup> October	"Transformation of the built environment for rehabilitation of socially disadvantaged city districts"	Jan Štefaňák, Brno University of Technology Brno, Czech Republic
20 <sup>th</sup> October	"Energy efficiency trends in buildings "	Daniel Aelenei, UNIVERSIDADE NOVA of Lisbon, Portugal
21 <sup>st</sup> October	"Conservation and rehabilitation of cultural heritage"	Chavdar KOLEV - Faculty of Machinery and Construction Technologies in Transport, Bulgaria
21 <sup>st</sup> October	"The Multidimensional problem of Energy Poverty: unpacking the drivers, causes and solutions at district level"	João Pedro Gouveia, UNIVERSIDADE NOVA of Lisbon,
22 <sup>nd</sup> October	"An Introduction to tunnel Engineering - II"	Wei Wu, University of Natural Resources and Life Sciences Vienna, Austria
22 <sup>nd</sup> October	"Vulnerability, seismic survey, HBIM structural analysis - II"	Mauro D'APUZZO, University of Cassino and Southern Lazio, Italy
25 <sup>th</sup> October	"Design of Recycled Concrete – Mixture proportioning: the fundamental role of effective water"	Sébastien RÉMOND, Polytech Orléans, University of Orléans France
25 <sup>th</sup> October	"Design of Recycled Concrete – Characterization and use of coarse recycled aggregates"	Elise REMOND, Polytech Orléans, University of Orléans, France
26 <sup>th</sup> October	"Design of Recycled Concrete – 3D Printing of recycled mortars 1"	Sébastien RÉMOND, Polytech Orléans, University of Orléans France
26 <sup>th</sup> October	"Design of Recycled Concrete – 3D Printing of recycled mortars 2"	Elise REMOND, Polytech Orléans, University of Orléans, France
27 <sup>th</sup> October	<i>GUIDED TECHNICAL TOUR</i>	<i>ALL TEACHERS</i>
28 <sup>th</sup> October	"Cracked and damaged structures, assessment of strength and service life"	Dashnor HOXHA, Polytech Orléans, University of Orléans, France
29 <sup>th</sup> October	"Eco-friendly materials for sustainable rehabilitation of substructure works affected by hazards"	Ancuta ROTARU, "Gheorghe Asachi" Technical University of Iași, Romania
29 <sup>th</sup> October	"Hazard risk mitigation for a sustainable built environment. Energy efficiency"	Marius-Costel BALAN, "Gheorghe Asachi" Technical University of Iași, Romania
29 <sup>th</sup> October	"Vulnerability, seismic survey and HBIM-based structural analysis: evaluation and mitigation of vibration induced by transport infrastructures in urban areas"	Giuseppe MODONI, University of Cassino and Southern Lazio, Cassino, Italy
29 <sup>th</sup> October	"Basic concepts of rehabilitation in architecture and urban development"	Peter Šenk, University of Maribor

## TIMETABLE - RE-BUILT

Lisbon (NOVA), October 18 - October 29, 2021

C8 intensive programme for teaching staff

		09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00 PM	19:00 PM
<b>MONDAY</b>	1st WEEK, 18.10.2021		HST Kolev	Conservation, rehabilitation and integration of cultural heritage <span style="float: right;">LECTURE</span>					Sustainable infrastructure design and maintenance BOKU Wang <span style="float: right;">LECTURE</span>			
	2nd WEEK, 25.10.2021		TOPIC: Durability of sustainable materials and structures UO Remond <span style="color: red;">Design of Recycled Concrete – Mixture proportioning: the fundamental role of effective water</span> L + A						TOPIC: Durability of sustainable materials and structures UO Remond <span style="color: red;">Design of Recycled Concrete – Characterization and use of coarse recycled aggregates</span> L + A			
<b>TUESDAY</b>	1st WEEK, 19.10.2021		UM Leskovar	Sustainable rehabilitation in architecture and urban development <span style="float: right;">LECTURE</span>					Vulnerability, seismic survey and HBIM-based structural analysis UNICAS Imbimbo <span style="float: right;">LECTURE</span>			
	2nd WEEK, 26.10.2021		TOPIC: Durability of sustainable materials and structures UO Remond <span style="color: red;">Design of Recycled Concrete – 3D Printing of recycled mortars</span> LECTURE						Energy efficiency TUIASI Balan <span style="color: red;">Use of renewable energy to increase the energy efficiency in buildings</span> LECTURE			
<b>WEDNESDAY</b>	1st WEEK, 20.10.2021		BUT Stefanak	Transformation of the built environment for the rehabilitation of socially disadvantaged city districts <span style="float: right;">LECTURE</span>					NOVA Smart Cities <span style="float: right;">LECTURE</span>			
	2nd WEEK, 27.10.2021		TECHNICAL VISIT (to be continued) APPLIED FIELD ACTIVITY			COLLEAGUE LUNCH			TECHNICAL VISIT APPLIED FIELD ACTIVITY		PLENNARY MEETING C8 + M4 TUIASI BOKU UO HST UNICAS NOVA UM BUT	
<b>THURSDAY</b>	1st WEEK, 21.10.2021		HST Kolev	Conservation, rehabilitation and integration of cultural heritage <span style="float: right;">LECTURE</span>					NOVA Smart Cities <span style="float: right;">LECTURE</span>			
	2nd WEEK, 28.10.2021		SUSTAINABILITY SPECIAL ISSUE SPRINGER BOOK <span style="color: red;">Editorial board meeting</span>						TOPIC: Durability of sustainable materials and structures UO Hoxha <span style="color: red;">Cracked and damaged structures, assessment of strength and service life</span> LECTURE			
<b>FRIDAY</b>	1st WEEK, 22.10.2021		BOKU Wu	Sustainable infrastructure design and maintenance <span style="float: right;">LECTURE</span>					Vulnerability, seismic survey and HBIM-based structural analysis UNICAS D'Apuzzo <span style="float: right;">LECTURE</span>			
	2nd WEEK, 29.10.2021		UNICAS Modoni LECTURE	Liquefaction risk assessment at the urban scale	Basic concepts rehab in arch & u develop UM Senk LECTURE	C7 + C11 - Maribor Nov 3-14 C6+C10 - Orleans Nov 24-Dec 5 Organizers						
<b>SATURDAY</b>	1st WEEK, 23.10.2021	The 6th day of the C8 programme										
<b>SUNDAY</b>	1st WEEK, 24.10.2021	The 7th day of the C8 programme										