



COST experiences of the FCE UoM

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Webinar: SWARM Inter-project coaching / 23 September 2020

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

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Strengthening of master curricula in water resources
management for the Western Balkans HEIs and stakeholders
Project number: 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP



Co-funded by the
Erasmus+ Programme
of the European Union

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About the FCE UoM

The **Faculty of Civil Engineering (FCE)**, a unit of the UoM, is the only civil engineering HE institution in Montenegro. The following are some key features:

- founded in 1980;
- over 600 students;
- 50 staff (76% academic + 24% administration and technical staff);
- licensed scientific research institution, registered by the Montenegrin Ministry of Science;
- strong connections with civil engineering industry and deep involvement in practice through participation in numerous engineering projects with its human, laboratory and equipment resources, dealing particularly with complicated, complex and challenging engineering issues;
- activities in numerous programmes of international cooperation and exchange (COST, Erasmus+, CEEPUS, ex TEMPUS, IPA etc.).

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COST ACTION TU1207 - *Next Generation Design Guidelines for Composites in Construction*

12/04/2013 – 11/04/2017

<https://www.cost.eu/actions/TU1207/#tabs|Name:overview>

Action Chair: dr Maurizio Guadagnini (The University of Sheffield, Sheffield, United Kingdom)

Participating countries: Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Marina Rakočević (FCE UoM), MC member
dr Jelena Pejović (FCE UoM), MC member

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in Training school in Ghent, Belgium (January 2017)– *Reinforcing and Strengthening of Structures with FRP Reinforcement*;
- participation in the End of Action Conference, 2017 – paper publication (Marina Rakočević „Numerical examples for calculation of laminated composite plates with delamination“)

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COST ACTION TU1402 - *Quantifying the Value of Structural Health Monitoring (SHM)*

13/11/2014 – 30/04/2019

<https://www.cost.eu/actions/TU1402> <https://www.cost-tu1402.eu/>

Action Chair: Prof. Sebastian Thöns (Technical University of Denmark, Denmark)

Participating countries: Australia, Austria, Belgium, China, Croatia, Cyprus, Czech Republic, Denmark, France, Germany, Greece, Iceland, Ireland, Italy, Lithuania, Luxemburg, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, USA

MC members from Montenegro: prof. dr Miloš Knežević (FCE UoM), MC member
Mladen Gogić, MSc (FCE UoM), MC member

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in the 5th workshop of the Action, 2016 – paper publication (R. Pejovic, I. Tesovic, M. Cvetkovska, M. Knezevic, M. Gogic "Structural monitoring of arch dam "Piva" in Montenegro");
- participation in IABSE Symposium 2019 – „Why invest in SHM of Civil Engineering infrastructures?“

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**COST ACTION FP1402 - *Basis of structural timber design –
– from research to standards***

25/11/2014 – 24/11/2018

<https://www.cost.eu/actions/FP1402> www.costfp1402.tum.de

Action Chair: dr Philipp Dietsch (Technical University of Munich, Munich, Germany)

Participating countries: Australia, Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Montenegro, Netherlands, New Zealand, North Macedonia, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom

MC members from Montenegro: prof. dr Biljana Šćepanović (FCE UoM), MC member
prof. dr Olga Mijušković (FCE UoM), MC member

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in workshops;
- participation in the Action Final Conference

increase its acceptance and use in the design of buildings.

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COST ACTION FP1404 - *Fire safe use of bio-based building products*

05/12/2014 – 04/12/2018

<https://www.cost.eu/actions/FP1404> <https://costfp1404.ethz.ch/>

Action Chair: Joachim Schmid (ETH Zurich, Zurich, Switzerland)

Participating countries: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Biljana Šćepanović (FCE UoM), MC member
prof. dr Olga Mijušković (FCE UoM), MC member

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in workshops;
- participation in the Action Final Conference

Safe Use of Bio-based Building Products. By systematically organisation knowledge in this area will advance at a significant higher rate. The Action will Exchange researchers, organize Workshop and create comprehensive dissemination material.

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COST ACTION TU1406 - Quality specifications for roadway bridges, standardization at a European level

16/04/2015 – 15/04/2019

<https://www.cost.eu/actions/TU1406> <https://www.tu1406.eu/>

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in 2 training schools:
 - Winter Training School - Zell am See, Salzburg, Austria (December 2017);
 - Training School - Prague, Czech Republic (September 2017);
- participation in IABSE Symposium 2019 – papers publication;
- realisation of 3 short term scientific missions (STSM):
 - „Non destructive methods for defining roadway bridge performance indicators“ at the University of Naples “Federico II”, Naples, Italy (April 2016);
 - „Innovation analysis on the performance assessment of roadway bridges: Application on the existing roadway bridges and comparative analysis with practice in Montenegro“, at the IFSTTAR (French Institute of Science and Technology for Transport), in EMGCU Laboratory, Paris, France (January-February 2019);
 - „Analysis of the old Budapest’s bridges structure state“ at the Budapest University of Technology and Economy, Budapest (March 2019)

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COST ACTION CA15221 - Advancing effective institutional models towards cohesive teaching, learning, research and writing development (WeReLaTe)

24/10/2016 – 23/04/2021
(23/10/2020)

<https://www.cost.eu/actions/CA15221> <http://www.werelate.eu/>

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- hosting/organisation of MC & WG meeting in February 2019;
- participation in Training school in Skopje, North Macedonia (March 2019);
- participation in international conferences – papers publication;
- realisation of 2 short term scientific missions (STSM):
 - „Estimation of different research expectations of first-year students from the sport science programmes and their teachers from various stages of their proficiency“ at the University of Novi Sad, Serbia (February 2019);
 - „Analysis of institutional support for WRLT in the field of civil engineering at the University of Granada and possibility of similar method application at the University of Montenegro“, at University of Granada, Spain (April 2019);
- hosting one short term scientific mission (STSM) from domain of sport sciences;
- contribution to Case study publication: Biljana Šćepanović, „WRLT support at the University of Montenegro in comparison with the University of Granada – (civil) engineering field perspective“

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**COST ACTION CA18109 - Accelerating Global Science in
Tsunami Hazard and Risk analysis**

18/03/2019 – 17/03/2023

<https://www.cost.eu/actions/CA18109> <https://www.agithar.uni-hamburg.de/>

Action Chair: Prof Joern Behrens (University of Hamburg, Hamburg, Germany)

Participating countries: Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Israel, Italy, Malta, Montenegro, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Spain, Sweden, Turkey, United Kingdom

MC members from Montenegro: dr Jelena Pejović (FCE UoM), MC member
Mirjana Spalević (Inst of HM), MC member
dr Nina Serdar (FCE UoM), MC member substitute
Danijela Bubanja (Inst of HM), MC member substitute

Activities of Montenegrin representatives:

- participation in MC & WG meetings
- Derive and agree on best practices and standards for probabilistic tsunami hazard and risk analysis, through discussion by a large group of practitioners;
- Identify issues and challenges to orient future research;
- Disseminate the acquired knowledge among hazard and risk practitioners and end-users.

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**COST ACTION CA18110 - Underground Built Heritage as catalyser
for Community Valorisation**

09/04/2019 – 08/04/2023

<https://www.cost.eu/actions/CA18110> <https://underground4value.eu/>

Action Chair: Giuseppe Pace (ISMed-CNR, Naples, Italy)

Participating countries: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Lithuania, Malta, Moldova, Montenegro, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Turkey, United Kingdom

MC members from Montenegro: dr Slobodan Živaljević (FCE UoM), MC member
dr Jelena Pejović (FCE UoM), MC member substitute
dr Nina Serdar (FCE UoM), MC member substitute

Activities of Montenegrin representatives:

- participation in MC & WG meetings
- explore alternative social trajectories, such as establishing living labs, and experimenting transition management tools;
- Improving network openness by delivering presentations at regional and local conferences;
- Developing new skills for planners, decision-makers, promoters, and local development facilitators.

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COST ACTION CA18120 - Reliable roadmap for certification of bonded primary structures

04/04/2019 – 03/04/2023

<https://www.cost.eu/actions/CA18120> <https://certbond.eu/>

Action Chair: dr Sofia Teixeira de Freitas (Delft University of Technology, Delft, Netherlands)

Participating countries: Austria, Belgium, Bosnia and Herzegovina, Croatia, Cyprus, Czech Republic, Denmark, France, Germany, Greece, Ireland, Israel, Italy, Latvia, Lithuania, Montenegro, Netherlands, North Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Marina Rakočević (FCE UoM), MC member
Renata Milutinović (Min. of Economy), MC member
prof. dr Olga Mijušković (FCE UoM), MC member substitute
prof. dr Ljiljana Žugić (FCE UoM), MC member substitute

Activities of Montenegrin representatives:

- participation in Kick-off Meeting: General Meeting, WG Meetings, MC Meeting in Delft, Netherlands (14-15 October 2019)

are required. This Action will tackle the scientific challenges in the different stages of the life-cycle of a bonded structure through the synergy of multi-disciplinary fields and knowledge transfer.

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COST ACTION CA18125 - Advanced Engineering and Research of aeroGels for Environment and Life Sciences

30/04/2019 – 29/04/2023

<https://www.cost.eu/actions/CA18125> <https://cost-aerogels.eu/>

Action Chair: dr Carlos A Garcia Gonzalez (University of Santiago de Compostela, Santiago de Compostela, Galicia, Spain)

Participating countries: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Costa Rica, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Jordan, Latvia, Lithuania, Luxembourg, Malta, Moldova, Montenegro, Morocco, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, United Kingdom, United States of America

MC members from Montenegro: prof. dr Marina Rakočević (FCE UoM), MC member
dr Jovana Jovanović (FoM HN), MC member
prof. dr Radimir Zejak (FCE UoM), MC member substitute
dr Irena Petrušić (FoM HN), MC member substitute

Activities of Montenegrin representatives:

- participation in MC & WG meetings;
- participation in Intl. Conf. on Aerogels for Biomedical and Environmental Applications, 2020

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COST ACTION CA18126 - Writing Urban Places.

15/03/2019 – 14/03/2023

New Narratives of the European City

<https://www.cost.eu/actions/CA18126> <https://writingurbanplaces.eu/>

Action Chair: dr Klaske Havik (Delft University of Technology, Delft, Netherlands)

Participating countries: Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Latvia, Lithuania, Malta, Moldova, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Miloš Knežević (FCE UoM), MC member
 prof. dr Tatjana Jovović (FoPhilosophy UoM), MC member
 prof. dr Marina Rakočević (FCE UoM), MC member substitute
 dr Jelena Pejović (FCE UoM), MC member substitute

Activities of Montenegrin representatives:

- participation in MC & WG meetings

of meaningfulness and appropriation of their built environment.

Based on a robust investigative tradition in these fields, the COST Action brings together solid experience in linking the literary and the built and offers the necessary scientific background for the assessment of the contemporary city, while cherishing and enhancing the specificity of local urban cultures in the European context.

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COST ACTION CA18219 - Research network for including geothermal technologies into decarbonized heating and cooling grids

15/10/2019 – 14/10/2023

<https://www.cost.eu/actions/CA18219/#abs|Name:overview>

Action Chair: Mr Gregor Goetzl (Geological Survey of Austria, Vienna, Austria)

Participating countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Malta, Montenegro, Netherlands, North Macedonia, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Milan Radulović (FCE UoM), MC member

Activities of Montenegrin representatives:

- participation in MC & WG meetings
- participation in the 1st workshop (Munich, Germany, February 2020)

studies to investigate and promote solutions and roadmaps for raising the RES share in public heating and cooling grids to at least 30% in 2030 and at least 50% in 2050.

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**COST ACTION CA19120 - WATER isotopeS in the critical zONE:
from groundwater recharge to plant transpiration**

24/09/2020 – 23/09/2024

<https://www.cost.eu/actions/CA19120/#abs|Name:overview>

Action Chair: Prof Daniele Penna (University of Florence, Florence, Italy)

Participating countries: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Latvia, Luxembourg, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: prof. dr Milan Radulović (FCE UoM), MC member
Neda Đević (Geological Survey of MNE), MC member

Activities of Montenegrin representatives:

- preparation for the 1st MC meeting (Kick-off meeting, planned for 24 September 2020)
events will involve scientists and water managers, facilitating communication between academia and stakeholders, promoting the transfer of the latest scientific findings, and helping to identify research gaps and management priorities. The ultimate goal of the network is to build capacity in the use of robust isotope approaches for water resource management. The deliverables include practical tools, such as maps of groundwater recharge and water sources used by vegetation in different European regions that will enable the translation of scientific cutting-edge knowledge into tangible recommendations to support European agencies responsible for water management in agro-forest systems.

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COST ACTION CA19126 - Positive Energy Districts European Network (PED-EU-NET)

10/09/2020 – 09/09/2024

<https://www.cost.eu/actions/CA19126/#abs|Name:overview>

Action Chair: Dr Vicky Albert-Seifried („Fraunhofer“, Freiburg, Germany)

Participating countries: Austria, Bosnia and Herzegovina, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Latvia, Lithuania, Luxemburg, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

MC members from Montenegro: dr Marija Jevrić (FCE UoM), MC member
dr Ivana Čipranić (FCE UoM), MC member substitute
Nataša Kopitović Vuković, MSc, (FCE UoM), MC mem.subst.

Activities of Montenegrin representatives:

- participation in the 1st MC meeting (Kick-off meeting, 10-11 September 2020)
activities include open sharing of knowledge, exchange of ideas, pooling of resources, experimentation of new methods and co-creation of novel solutions across Europe. Additionally, this COST Action will support the capacity building of new generation PED professionals, Early Career Investigators as well as experienced practitioners. It will mobilise the relevant actors from and across Europe to collectively contribute to the long-term climate neutral goal.

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Thanks for the attention! 😊

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