



Davorin Penava

Date of birth: 15/11/1981 | **Nationality:** Croatian | **Phone number:** (+385) 912240759 (Mobile) |

Phone number: (+385) 31540098 (Work) | **Email address:** davorin.penava@gfos.hr |

Email address: davorin.penava@gmail.com | **Website:**

<http://www.gfos.unios.hr/portal/index.php/fakultet/djelatnici/penava-davorin.html> | **Facebook:**

<https://www.facebook.com/davorin.penava> | **X:** <https://twitter.com/DavorinPenava> | **Instagram:**

<https://www.instagram.com/davorin.penava/?hl=hr> | **LinkedIn:**

<https://www.linkedin.com/in/davorin-penava-b6742aa4> | **ResearchGate:**

https://www.researchgate.net/profile/Davorin_Penava | **Google Scholar:**

<https://scholar.google.com/citations?hl=hr&user=4JwYXtUAAAAJ> | **ORCID:**

<https://orcid.org/0000-0001-7539-4639> | **CROSB:**

<https://www.bib.irb.hr/pregled/znanstvenici/285681> | **Skype:** davorin.penava |

WhatsApp Messenger: +385912240759 | **Viber:** +385912240759 |

Address: 3 Vladimir Prelog Street, Office II.2, HR-31000, Osijek, Croatia (Work)

ABOUT ME

Davorin Penava, BEng, MEng, MSc (pg), PhD, Assoc. Prof. (CE), Sci. Adv. (Fund. Tech. Sci.), scientist/researcher educated in the field of civil (structural) at BEng and MEng, computational at MSc (pg) and earthquake engineering at PhD level. Associate Professor in Civil Engineering and Senior Research Associate in Fundamental Technical Sciences at Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering and Architecture.

WORK EXPERIENCE

19/06/2024 – CURRENT Osijek, Croatia

FULL PROFESSOR & SCIENTIFIC ADVISER JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

24/01/2021 – 24/01/2025 Zagreb, Croatia

EXTERNAL ASSOCIATE UNIVERSITY OF ZAGREB, FACULTY OF SCIENCE, DEPARTMENT OF GEOPHYSICS

Address Horvatovac 102a, 10000, Zagreb, Croatia

01/10/2020 – CURRENT Osijek, Croatia

HEAD OF DEPARTMENT OF TECHNICAL MECHANICS JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

01/02/2016 – 30/09/2022 Osijek, Croatia

CHAIRPERSON OF POSTGRADUATE STUDY PROGRAMMES COMMITTEE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

01/02/2016 – 30/09/2022 Osijek, Croatia

HEAD OF POSTGRADUATE UNIVERSITY (DOCTORAL) STUDY AND POSTGRADUATE SPECIALIST STUDY PROGRAMME JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

01/02/2016 – 30/09/2022 Osijek, Croatia

MEMBER OF SCIENCE COMMITTEE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

01/10/2015 – 30/09/2020 Osijek, Croatia

HEAD OF LABORATORY ON EXPERIMENTAL MECHANICS NAMED AFTER PROFESSOR VLADIMIR SIGMUND JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

07/11/2022 – CURRENT Osijek, Croatia

ASSOCIATE PROFESSOR & SCIENTIFIC ADVISER JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

14/05/2019 – 07/11/2022 Osijek, Croatia

ASSOCIATE PROFESSOR & SENIOR SCIENTIFIC ASSOCIATE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

Address 3 Vladimir Prelog Street, 31000, Osijek, Croatia

10/12/2013 – 01/12/2019 Osijek, Croatia

ASSISTANT PROFESSOR & SENIOR SCIENTIFIC ASSOCIATE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

10/12/2013 – 14/05/2019 Osijek, Croatia

ASSISTANT PROFESSOR & SCIENTIFIC ASSOCIATE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

Address 3 Vladimir Prelog Street, 31000, Osijek, Croatia

01/02/2016 – 30/09/2018 Osijek, Croatia

DEPUTY HEAD OF DEPARTMENT OF TECHNICAL MECHANICS JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

17/09/2012 – 10/12/2013 Osijek, Croatia

SENIOR TEACHING ASSISTANT & RESEARCH ASSOCIATE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

Address 3 Vladimir Prelog Street, 31000, Osijek, Croatia

15/11/2013 – 10/12/2013 Osijek, Croatia

SCIENTIFIC NOVICE & RESEARCH ASSOCIATE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

01/04/2006 – 17/09/2012 Osijek, Croatia

SCIENTIFIC NOVICE JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK, FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE OSIJEK

Address 3 Vladimir Prelog Street, 31000, Osijek, Croatia

● EDUCATION AND TRAINING

08/01/2020 – 19/01/2020 Farmington Hills, MI, United States

DISASTER RECONNAISSANCE AFTER DURRËS, ALBANIA M6.4 NOVEMBER 26TH, 2019 EARTHQUAKE | ACI 133 American Concrete Institute Committee 133 Disaster Reconnaissance

Address 38800 Country Club Dr., 48331-3439, Farmington Hills, MI, United States |

Website https://www.concrete.org/committees/directoryofcommittees/acommitteehome.aspx?committee_code=C0013300

11/01/2021 – 13/01/2021 10000 , Croatia

DISASTER RECONNAISSANCE AFTER SISAK-MOSLAVINA COUNTY (NEAR PETRINJA) MW=6.4 (ML=6.2) DECEMBER 29, 2020 EARTHQUAKE Directorate of Civil Protection; Ministry of Internal Affairs of the Republic of Croatia

Address 33 City of Vukovar Str. , Zagreb, 10000 , Croatia

25/10/2019 – 30/10/2019 Weimar, Germany

RESEARCH STAY AND VISIT | MZO-DAAD RESEARCHER EXCHANGE PROGRAMME Bauhaus-Universität Weimar, Earthquake Damage Analysis Centre (EDAC)

Address Marienstraße 13B, DE-99423, Weimar, Germany | **Website** <https://www.edac.biz/>

16/09/2018 – 21/09/2018 Weimar, Germany

RESEARCH STAY AND VISIT | MZO-DAAD RESEARCHER EXCHANGE PROGRAMME Bauhaus-Universität Weimar, Earthquake Damage Analysis Centre (EDAC)

Address Marienstraße 13B , DE-99423, Weimar, Germany | **Website** <https://www.edac.biz/>

23/08/2017 – 29/08/2017 Weimar, Germany

TEACHING STAY AND VISIT | ERASMUS+ PROGRAMME - KEY ACTION 2 Bauhaus-Universität Weimar, Earthquake Damage Analysis Centre (EDAC)

Address Marienstraße 13B, DE-99423, Weimar, Germany | **Website** <https://www.edac.biz/>

20/03/2017 – 24/03/2017 Aveiro, Portugal

TEACHING STAY AND VISIT | ERASMUS+ PROGRAMME - KEY ACTION 2 University of Aveiro, Department of Mathematics

Address 3810-193, Aveiro, Portugal | **Website** <https://www.ua.pt/pt/dmat/>

03/06/2019 – 07/06/2019 Weimar, Germany

TEACHING STAY AND VISIT | ERASMUS+ PROGRAMME - KEY ACTION 2 Bauhaus-Universität Weimar, Earthquake Damage Analysis Centre (EDAC)

Address Marienstraße 13B, DE-99423, Weimar, Germany | **Website** <https://www.edac.biz/>

01/07/2017 – 15/07/2017 Newcastle upon Tyne, United Kingdom

RESEARCH STAY AND VISIT | ERASMUS+ PROGRAMME - KEY ACTION 1 Newcastle University, School of Engineering

Address NE1, 7RU, Newcastle upon Tyne, United Kingdom | **Website** <https://www.ncl.ac.uk/engineering/>

01/11/2015 – 30/11/2015 Swansea, United Kingdom

RESEARCH STAY AND VISIT | ERASMUS+ PROGRAMME - KEY ACTION 1 Swansea University, College of Engineering, Zienkiewicz Centre for Computational Engineering

- Programming and developing orthotropic material model and its implementation finite elements;
- Plenary lecture held.

Address SA1 , 8EN, Swansea, United Kingdom | **Website** <https://www.swansea.ac.uk/engineering/zcce/>

22/09/2014 – 23/09/2014 Zagreb, Croatia

TRIPLE A+ TRAINER, TEACHER AND COACH - PRACTITIONER LEVEL COURSE BY GUSTAAF VOCKING Sveučilište u Zagrebu

Triple A+ Training, Practitioner Level in the field of Self-Management as part of the Modernising Doctoral Education through Implementation of CROQF project - (MODOC).

Address Trg Republike Hrvatske 14, HR-10000, Zagreb, Croatia | **Website** <http://www.unizg.hr/>

11/12/2011 – 17/12/2011 Bochum, Germany

SCIENTIFIC PRESENTATION COURSE BY JOHN KLUEMPERS Ruhr-Universität Bochum, Research School

Training held by John Cluempers PhD and supported by Deutsch Akademischer Austauschdienst (DAAD) .

Address I-Südstraße, DE-44801, Bochum, Germany | **Website** <https://www.research-school.rub.de/>

01/02/2012 – 30/06/2012 Osijek, Croatia

PEDAGOGICAL-PSYCHOLOGICAL AND DIDACTIC-METHODICAL EDUCATION Josip Juraj Strossmayer University of Osijek, Faculty of Education

Address Ul. cara Hadrijana 10, HR-31000, Osijek, Croatia | **Website** <https://www.foozos.hr/en/contact>

11/12/2011 – 17/12/2011 Bochum, Germany

RESEARCH STAY AND VISIT | DAAD SCHOLARSHIP PROGRAMME (SEEFORM) Ruhr Bochum University, Research School

- EN1990:2002 + A1:2005 Basis of structural design;
- EN1991-1-1:2002, EN1991-1-2:2002, EN1991-1-3:2003, EN1991-1-4:2005, EN1991-1-5:2003, EN1991-1-6:2005, EN1991-1-7:2006, Actions on structures;
- Engineering informatics or modern FE-applications (wind turbine model), parallel computing;
- Overview about ANSYS-Mechanics (FE applications);
- Overview about ANSYS-CFX (Computational Fluid Dynamics);
- Strut and Tie methods and EN1992 Design of Concrete structures;
- Practical part: ANYSIS-CFX application in computational fluid dynamics.

Address I-Südstraße, DE-44801, Bochum, Germany | **Website** <https://www.research-school.rub.de/>

24/11/2011 – 25/11/2011 Niš, Serbia

RESEARCH STAY AND VISIT | DAAD SCHOLARSHIP PROGRAMME (SEEFORM) University of Niš, Faculty of Civil Engineering and Architecture

Address 14 Alexandar Medvedev Street, SR-18000, Niš, Serbia |

Website <https://www.ni.ac.rs/en/faculties/faculty-of-civil-engineering-and-architecture>

16/04/2010 – 23/04/2010 Skopje, North Macedonia

RESEARCH STAY AND VISIT | DAAD SCHOLARSHIP PROGRAMME (SEEFORM) Ss. Cyril and Methodius University in Skopje, Faculty of Civil Engineering

- EN1992 Design of concrete structures, EN1996 Design of masonry structures, EN1998 Design of structures for earthquake resistance (practical assignment);
- Active Structures and Control: Introduction to active structures. Piezoelectric materials. Modelling of piezoelectric structures;
- Active Structures and Control: State space and transfer function model development for active structures from the controller design point of view;
- Active Structures and Control: Dynamical behaviour of active structures and modelling. Modal analysis;
- Active Structures and Control: Discrete time systems for active structural control. Discrete-time controller design;
- Active Structures and Control: Advanced control methods and applications.

Address 24 Partizanski odredi Boulevard, NM-1000, Skopje, North Macedonia |

Website http://www.ukim.edu.mk/en_struktura_contact.php?inst=7

01/10/2009 – 31/01/2010 Aachen, Germany

RESEARCH STAY AND VISIT | DAAD SCHOLARSHIP PROGRAMME (SEEFORM) RWTH Aachen University, Faculty of Civil Engineering, Chair of Structural Analysis and Dynamics

- Nonlinear computations in practical use in earthquake resistant design of framed-masonry structures;
- Establishing international relations and cultural diversity;
- Increasing language skills;
- Working in international team;
- Working under supervision of Prof. Dr.-Ing. Christoph Butenweg.

Address 1 Mies van der Rohe Street, DE-52074, Aachen, Germany | **Website** <https://www.lbb.rwth-aachen.de/cms/~eaxh/LBB/>

07/04/2008 – 11/04/2008 Skopje, North Macedonia

RESEARCH STAY AND VISIT | DAAD SCHOLARSHIP PROGRAMME (SEEFORM) Ss. Cyril and Methodius University in Skopje, Faculty of Civil Engineering

- Computational Methods in Acoustics;
- Computational Structural Dynamics.

Address 24 Partizanski odredi Boulevard, NM-1000, Skopje, North Macedonia |

Website http://www.ukim.edu.mk/en_struktura_contact.php?inst=7

16/01/2009 – 29/08/2012 Osijek, Croatia

DOCTOR OF SCIENCE IN CIVIL (EARTHQUAKE) ENGINEERING Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering and Architecture Osijek

- PhD thesis entitled "Influence of openings on seismic response of reinforced concrete frames with masonry infill walls" under supervision of Professor Vladimir Sigmund and co-supervision Dr. Christoph Butenweg (RWTH Aachen University).
- Postgraduate university (doctoral) study programme in the framework of Ministry of Science and Education of Republic of Croatia Junior Research & Teaching Assistant Programme, research project entitled "Seismic Design of Infilled Frames" (project reference: 149-1492966-1536) granted by Ministry of Science and Education of Republic of Croatia and German Academic Exchange Service (DAAD) Scholarship Programme entitled The South East European Graduate School for Master and PhD Formation (SEEFORM).

Address 3 Vladimir Prelog Street, HR-31000, Osijek, Croatia | **Website** <http://www.gfos.unios.hr/> |

Field of study Civil (Earthquake) Engineering

29/11/2005 – 22/09/2008 Beograd, Serbia

INTERNATIONAL POSTGRADUATE RESEARCH MASTER'S DEGREE (MSC) IN CIVIL (COMPUTATIONAL) ENGINEERING University of Belgrade, Faculty of Civil Engineering

- MSC thesis entitled "Vibration Analysis of Frame Structures Using Spectral Element Method" under supervision of Associate Professor Mira Petronijević (University of Belgrade), Professor Vladimir Sigmund and Professor Günther Schmid (Ruhr Bochum University)
- International Postgraduate Research Master's Programme in Civil (Computational) Engineering in the framework German Academic Exchange Service (DAAD) Scholarship Programme

Address 73 King Alexander Boulevard, SR-11000, Beograd, Serbia | **Website** <https://www.grf.bg.ac.rs/home/e>

01/10/2000 – 03/11/2005 Osijek, Croatia

INTEGRATED BACHELOR'S DEGREE (BENG) IN CIVIL ENGINEERING & MASTER'S DEGREE (MENG) IN CIVIL (STRUCTURAL) ENGINEERING Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering and Architecture Osijek

MEng thesis entitled "Passive Energy Dissipation Devices" under supervision of Professor Vladimir Sigmund.

Address 3 Vladimir Prelog Str., HR-31000, Osijek, Croatia | **Website** <http://www.gfos.unios.hr/> | **Field of study** Civil Engineering |

Final grade A | **Thesis** Passive Energy Dissipation Devices

01/09/1996 – 30/08/2000 Vinkovci, Croatia

CIVIL (CONSTRUCTION) ENGINEERING TECHNICIAN Technical (Secondary) School Ruđer Bošković Vinkovci

Address 15 Stanko Vraz Street, HR-32100, Vinkovci, Croatia | **Website** <http://ss-tehnicka-rboskovica-vk.skole.hr/>

24/09/2019 – 25/09/2019 Zagreb, Croatia

SUCCESS WITH PRESENTATIONS British Council Croatia by Rachel Appleby

Address Savska cesta 32, HR-10000, Zagreb, Croatia | **Website** <https://www.britishcouncil.hr/>

11/09/2019 – 11/09/2019 Zagreb, Croatia

BETTER EMAILS BY RACHEL APPLEBY British Council Croatia

Address Savska cesta 32, HR-10000, Zagreb, Croatia | **Website** <https://www.britishcouncil.hr/>

Address Savska cesta 32, HR-10000, Zagreb, Croatia | **Website** <https://www.britishcouncil.hr/>**ACADEMIC TEACHING EXCELLENCE: ENGLISH AS THE MEDIUM OF INSTRUCTION BY ROB LEWIS** British Council Croatia**Address** Savska cesta 32, HR-10000, Zagreb, Croatia | **Website** <https://www.britishcouncil.hr/>**LANGUAGE SKILLS**Mother tongue(s): **CROATIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	B2	B2	B2	B2	B2
SPANISH	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user***DIGITAL SKILLS**

Microsoft Office | Social Media

PUBLICATIONS

2025

[Croatian Research Information System \(CroRIS\)](#)

2025

[Google Scholar](#)

2025

[ResearchGate](#)**NETWORKS AND MEMBERSHIPS****Professional Societies**

- **DAAD Alumni**
- Croatian Society of Mechanics (HDM/CSM); Chair of Osijek Branch (2015-2020); Vice-Chair (2019-2023)
- Society of Civil Engineers Osijek (DGIO); Vice-Chair
- Croatian Geotechnical Society (HGD/CGS)
- The Masonry Society (TMS)
- **International Association for the Seismic Performance of Non-Structural Elements (SPONSE): Institution Representative**

Technical Committees

- Croatian Standards Institute; Technical Committee HZN/TO 548/PO 10; Structural Eurocodes; EN 1990 Basis of Structural Design
- Croatian Standards Institute; Technical Committee HZN/TO 548/PO 11; Structural Eurocodes; Structural Glass

Conference Scientific and Organizational Committees

- 1 in 2021, 2 in 2023 & 3 in 2025 Croatian Conference on Earthquake Engineering (CroCEE)
- 8 in 2020, 9 in 2022, 10 in 2024 & 11 in 2026 Euro-American Congresses Construction Pathology, Rehabilitation Technology and Heritage Management (REHABEND)
- 8th (head of organizing committee), 9th, 10th, 11th & 13th Assembly of Croatian Society of Mechanics
- 9 in 2019 & 10 in 2022 International Congress of Croatian Society of Mechanics (ICCSM)

Editorial Board of Scientific Journals

- Civil Engineering Journal (CEJ); ISSN: 2476-3055
- Građevinar; ISSN (printed version): 0350-2465; ISSN (electronic version): 1333-9095
- Environmental Engineering; ISSN (printed version): 1849-4714; ISSN (electronic version): 1849-5074
- Frontiers in built environment; ISSN (electronic version): 2297-3362
- Geosciences; ISSN (electronic version): 2076-3263
- Applied Sciences; ISSN (electronic version): 2076-3417

PROJECTS

01/09/2024 – 31/08/2027

Forensic Structural Engineering database for HEI and pilot course with innovative and interactive learning methods - RECONSTRUCT (Project reference: 2024-1-DE01-KA220-HED-000251069)

Write here thProgramme: Erasmus+; Key Action: KA220-HED - Cooperation partnerships in higher education (KA220-HED)

01/11/2020 – 30/09/2022

“Young Researchers' Career Development Project – Training of New Doctoral Students” (Project Ref.: DOK-20201-01)

Grant by Croatian Science Foundation; Research Project; Project Leader: Associate Professor Davorin Penava

15/01/2020 – CURRENT

Environmental Risk Assessment and Mitigation on Cultural Heritage Assets in Central Asia - ERAMCA (Project Ref.: 609574-EPP-1-2019-1-IT-EPPKA2-CBHE-JP)

Grant by ERASMUS+ programme - Key Action 2; Principal Coordinator: Professor Fulvio Rinaudo, Politecnico di Torino, Torino, Italy; Local Partner University Coordinator: Associate Professor Davorin Penava

01/03/2020 – CURRENT

Sustainable model of professional training at the Faculty of Civil Engineering and Architecture Osijek - PRAG (Project Ref.: UP.03.1.1.04.0012)

Grant by European Structural and Investment Funds; Development Project; Project Leader: Associate Professor Zlata Dolaček-Alduk

01/03/2020 – CURRENT

Razvoj i primjena naprednih građevinskih materijala za izgradnju zdravih zgrada: zaštita od neionizirajućeg zračenja - Z2Grade (Project Ref.: KK.01.1.1.04.0105)

Grant by European Social Fund; Development Project; Project Leader: Professor Damir Varevac

12/10/2018 – CURRENT

Resilient Structures - InterStruct (Project Ref.: UP.03.1.1.02.0028)

Grant by European Social Fund; Development Project; Project Leader: Professor Damir Varevac

01/09/2016 – 31/08/2019

Forecast Engineering: From Past Design to Future Decisions - FE (Project Reference: 2016-1-DE01-KA203-002905)

Grant by ERASMUS+ programme - Key Action 2; Principal Coordinator: Dr. Lars Abrahamczyk, Bauhaus-Universität Weimar, Weimar, Germany; Local Partner University Coordinator: Assistant Professor Davorin Penava

01/01/2018 – 01/01/2020

Damage prognosis for reinforced concrete FRaMe structures with Masonry Infill walls under 3D Earthquake action - EFRAIM

Grant by Ministry of Science and Education of Republic of Croatia; Bilateral Research Project; Project Leaders: Assistant Professor Davorin Penava (Croatia) & Dr. Lars Abrahamczyk (Germany)

01/02/2016 – 01/02/2020

Influence of Openings on Out-of-Plane Earthquake Resistance of Framed-Masonry Walls

Grant by Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering and Architecture; Research Project; Project Leader: Assistant Professor Davorin Penava

01/06/2015 – 01/01/2017

Development and implementation of CQF in higher education of civil engineers (Project Ref.: HR. 3.1.15-0025)

Grant by European Social Fund; Development Project; Project Leader: Associate Professor Zlata Dolaček-Alduk

01/09/2014 – 30/09/2017

Frame-Masonry Composites for Modelling and Standardization - FRAMA (Project Ref.: HRZZ-IP-2013-11-3013)

Grant by Croatian Science Foundation; Research Project; Project Leader: Professor Vladimir Sigmund

01/02/2015 – 28/02/2016

Micromodel of a Framed-Masonry Building to Simulate the Effects of Earthquakes (Project Ref.: IP 2014-111)

Grant by Josip Juraj Strossmayer University of Osijek; Research Project; Project Leader: Assistant Professor Davorin Penava

01/01/2012 – 01/01/2014

Nonlinear Analysis of RC Frames with Types of Infill Characteristic for Macedonia and Croatia

Grant by Ministry of Science and Education of Republic of Croatia; Bilateral Research Project; Project Leaders: Professor Vladimir Sigmund (Croatia) & Professor Golubka Necevska Cvetanovska (North Macedonia)

01/01/2007 – 01/01/2014

Seismic Design of Infilled Frames (Project Ref.: 149-1492966-1536)

Grant by Ministry of Science and Education of Republic of Croatia; Research Project; Project Leader: Professor Vladimir Sigmund

01/04/2005 – 31/12/2005

Selection of Optimal Technologies for Rehabilitation of Structures (Project Ref. 0149260)

Grant by Ministry of Science and Education of Republic of Croatia; Research Project; Project Leader: Professor Petar Brana

01/06/2021 – 31/05/2023

Partnership for virtual laboratories in civil engineering - PARFORCE (Project Reference: 2020-1-DE01-KA226-HE-005783)

Programme: Erasmus+; Key Action: Cooperation for innovation and the exchange of good practices; Action Type: Partnerships for Digital Education Readiness

● **HONOURS AND AWARDS**

Scholarships

- 3 year DAAD scholarship for postgraduate university (doctoral) degree programme
- 2 year DAAD scholarship for postgraduate research master's degree programme

Awards

- **Nataional Award for Science 2023 in the Category of Promotion and Popularization of Science**
- Introducing Research and Development Project 2015 Competition by Gamax Laboratory Solutions Award
- Rector Award of Josip Juraj Strossmayer University of Osijek in academic year 2003/04
- Lions Club Osijek Award for academic accomplishments in academic year 2003/04
- 3rd place award for design project entitled "Osijek's Sunflower"

Supervision of awarded student's thesis projects

- graduate thesis entitled "Design of framed-masonry walls under in-plane and out-of-plane loading" by Filip Anić, BEng, awarded as best graduate thesis at national level in year 2016 by Croatian Association of Civil Engineers (HSGI) based in Zagreb, Croatia
- one-semester thesis project by Antonio Radonjić awarded with Rectors Award in academic year 2018/19
- one-semester thesis project by Filip Anić awarded with Rectors Award in academic year 2014/15

● **TEACHING ACTIVITY**

Undergraduate University Study Programme in Civil Engineering

- Strength of Materials I
- Strength of Materials II
- Computer Programming in Civil Engineering

Undergraduate Professional Study Programme in Civil Engineering

- Massive Structures II (till academic year 2017/18)

Graduate University Study Programme in Civil Engineering

- Theory of Plates and Shells
- Analysis of Structure Stress and Load-Bearing Capacity
- The Finite Element Method
- Introduction to Scientific Work
- Nonlinear Analysis of Structures: Reinforced Concrete Frames with Masonry Infill Walls (ERASMUS+KA2)
- Experimental testing based on impact and resistance: wind, fire and earthquake (ERASMUS+KA2)

Postgraduate University Specialist Study Programme in Civil Engineering

- Modelling of structures
- Problems, errors and their elimination in the design of buildings

Postgraduate University (Doctoral) Study Programme in Civil Engineering

- Models of nonlinear material and structure behavior (till academic year 2019/20)
- Theory and principles of assessment and retrofitting of historic buildings
- Theory and principles of scientific research

● **SPECIAL ISSUE GUEST EDITOR OF SCIENTIFIC JOURNALS**

01/11/2020 – 30/09/2021

Risk and Vulnerability Assessment of Residential and Commercial Building Types for Earthquake Ground Shaking

Geosciences (ISSN 2076-3263; CODEN: GBSEDA)

Link https://www.mdpi.com/journal/geosciences/special_issues/Building_Earthquake

01/02/2020 – 01/07/2020

Environmental Hazards

Environmental Engineering - Inženjerstvo okoliša (ISSN 1849-4714 - Print; ISSN 1849-5079 - Online)

Link <https://www.gfv.unizg.hr/static/casopis-inzenjerstvo-okolisa>

31/01/2023 – 31/01/2024

Design and Seismic Performance Evaluation of Reinforced Concrete Structures

● PHD EXTERNAL EXAMINER

01/10/2014 – 01/06/2019

Model Quality of Interaction Phenomena Between RC Frame and masonry Infills Under Horizontal cyclic Loading

Student name: Mhd. Hisham Al Hanoun

Institution: Bauhaus-Universität Weimar, Weimar, Germany

24/10/2024 – CURRENT

Impacts of Dynamic Soil-Structure Interaction on the Seismic Resilience of Reinforced Concrete Structures through a Multi-Model Analysis

Student name: Baban Bapir

Institution: Bauhaus-Universität Weimar, Weimar, Germany

● MEMBERSHIP OF PHD COMMITTEES

2016

Models for Strengthening Assessment of Reinforced Concrete Frames by Adding the Infills for Earthquake Action

Student name:

Marin Grubišić, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia

2018 – 2022

Assessment of the out-of-plane earthquake resistance of reinforced concrete frame structures with masonry infill walls containing openings

Student name:

Filip Anić, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia

2024 – CURRENT

Use of integrated measures for seismic strengthening of post-war masonry apartment buildings

Student name:

Petra Prašnikar, University of Ljubljana, Faculty of Architecture, Ljubljana, Slovenia

2025

Friction dissipative devices for mitigating seismic vulnerability in reinforced concrete frames

Student name:

Muhammad Ahmed, Università degli Studi di Palermo, Dipartimento di Ingegneria, Palermo, Italy

2025

Advances in soft-computing applications for the structural monitoring and retrofitting of historical buildings

Student name:

Gaetano Camarda, Università degli Studi di Palermo, Dipartimento di Ingegneria, Palermo, Italy

● CONTRIBUTION TO CODES/STANDARDS/GUIDELINES

CEN/TC 250/SC 8 N 800 Draft 2 EN 1998-1-2 NEN SC 8 PT 2

Contribution to 7 AUXILIARY ELEMENTS; 7.4 Masonry infilled frames; 7.4.3 Interacting infills; 7.4.3.1 Design with model of the bare frame only; **(6) In the application of (3), (5) and 7.4.3.2(1), infill panels with one or more openings should be neglected if the ratio of the sum of the areas of openings to the total area of the infill is larger than 0,4.**

● PHD THESIS SUPERVISION

01/10/2016 – 08/04/2022

Assessment of the out-of-plane earthquake resistance of reinforced concrete frame structures with masonry infill walls containing openings

Student name:

Filip Anić, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia

01/10/2017 – CURRENT

Influence of Masonry Infill Walls, with and without Openings, on Unintended Torsional Response of Reinforced Concrete Frame Structures

Student name:

Dalibor Burilo, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia

01/11/2020 – CURRENT

Framework for the assessment of masonry arch bridge capacities under multi-hazard and network relevance consideration

Student name:

Domagoj Trajber, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia

22/11/2021 – CURRENT

The behavior of urban historic buildings under earthquake action based on observed damage after earthquakes ML=5.5 in Zagreb and ML= 6.2 near Petrinja in 2020.

Student name:

Ante vrbanić, Josip Juraj Strossmayer University of Osijek, Faculty of Civil Engineering Osijek, Osijek, Croatia.

● MEMBERSHIP OF DISASTER RECONNAISSANCE TASK GROUP

08/01/2020 – 19/01/2020

Disaster Reconnaissance on Durrës, Albania M6.4 November 26th, 2019 Earthquake | ACI 133

American Concrete Institute Committee 133 Disaster Reconnaissance

11/01/2021 – 13/01/2021

Disaster Reconnaissance after Sisak-Moslavina County (near Petrinja) MW=6.4 (ML=6.2) December 29, 2020 Earthquake

Directorate of Civil Protection; Ministry of Internal Affairs of the Republic of Croatia

● REGISTRY NUMBER OF THE SCIENTIST AT MINISTRY OF SCIENCE AND EDUCATION OF REPUBLIC OF CROATIA

285681
