

**Dr.-Ing. Marko Marinković**

Date of Birth: 04.07.1988

Nationality: Serbian

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e-mail: [mmarinkovic@grf.bg.ac.rs](mailto:mmarinkovic@grf.bg.ac.rs)**WORKING EXPERIENCE**

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2019-	<b>University of Belgrade</b> Faculty of Civil Engineering, Assistant professor	<b>Belgrade, Serbia</b>
2013-2018	<b>University of Belgrade</b> Faculty of Civil Engineering, Teaching assistant	<b>Belgrade, Serbia</b>
2014-2022	<b>Europa Reinsurance Facility Ltd.</b> Earthquake & Flood damage surveyor	<b>Serbia</b>
Summer 2012	<b>Herrenknecht AG</b> Internship (German government and “Dr Zoran Djindjic Foundation” scholarship)	<b>Schwanau, Germany</b>
Summer 2011	<b>ALPINE Bau GmbH</b> Internship	<b>Vienna, Linz, Austria</b>

**EDUCATION**

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2012-2018	<b>University of Belgrade</b> Faculty of Civil Engineering, PhD studies	<b>Belgrade, Serbia</b>
2011-2012	<b>University of Belgrade</b> Faculty of Civil Engineering, Master studies	<b>Belgrade, Serbia</b>
2007-2011	<b>University of Belgrade</b> Faculty of Civil Engineering, Undergraduate studies	<b>Belgrade, Serbia</b>
2003-2007	<b>Third Belgrade Gymnasium</b> High School Diploma with High Honours	<b>Belgrade, Serbia</b>
1995-2003	<b>Kralj Petar I Elementary School</b> Elementary School Diploma with High Honours	<b>Belgrade, Serbia</b>

**SCIENCE PROJECTS**

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2022	<b>Erasmus+ Blended Intensive Program summer school</b> – Staff teaching period at the hosting institution (Alma Mater Studiorum – University of Bologna, Italy)
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2021-2022	<b>ICON Project</b> – Masonry shear wall Experiments in Virtual Reality (role: Partner - budget: 13,171.52 €)
2020-2022	<b>ADRISEISMIC Project</b> – New approaches for seismic improvement and renovation of Adriatic and Ionian historic urban centres ( <b>Interreg V-B Adriatic-Ionian-ADRION</b> ) - (role: consultant for earthquake engineering - budget: 1,126,640.00€)
2019-2023	<b>COST Action CA18120</b> – Reliable roadmap for certification of bonded primary structures (CERTBOND)
2019-2020	<b>SPIF Project, Shaking table test</b> – Seismic Performance of multi-component systems in special risk Industrial Facilities ( <b>SERA Framework – Horizon 2020</b> ) – (role: partner - budget: 165,000.00€)
2016-2019	<b>COST Action TD1406</b> – Innovation in Intelligent Management of Heritage Buildings (i2MHB) – (role: Topic leader - budget: 635,000.00€)
2014-	<b>TR-36048</b> – Research on condition assessment and improvement methods of civil engineering structures in view of their serviceability, load-bearing capacity, cost effectiveness and maintenance - National Project, financed by the Ministry of Science and Technological Development of Serbia (role: participant - budget: 675,000.00€)

## **DIPLOMAS, AWARDS, HONORS, PATENTS**

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2021	<b>Best scientific achievement in structural engineering of Serbia for 2018 and 2019 (for PhD thesis) – Association of Structural Engineers of Serbia</b>
2020	<b>DAAD scholarship under the programme Research Stays for University Academics and Scientists, 2020</b>
2019	<b>Certificate TRAIN (Training and Research for Academic Newcomers). University of Belgrade and King Baudouin foundation (80 hours of training)</b>
2019	<b>Award for the best PhD Thesis in 2017/18 from the Chamber of Commerce and Industry of Serbia</b>
2018	<b>Butenweg, C. and Marinković, M. <i>European Patent No. EP3363968 (A1)</i>. Munich, Germany: European Patent Office</b>
2014-2016	<b>SEEFORM scholarship for research stay in Germany</b>
Summer 2009	<b>Commendation for participation and unselfish contribution at the 25<sup>th</sup> Universiade Belgrade</b>
2008 and 2009	<b>Commendation for an outstanding achievement in the Academic year 2008/09</b>
1995-2007	<b>Number of awards in Elementary School and High school</b>

**in the municipal, city and national competitions in mathematics, physics, chemistry and engineering education**

## **STRUCTURAL ENGINEERING PROJECTS**

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- 2022 **Definition of anti-vibration measures for EPIC GAMES Novi Sad – 3LATERAL business building Novi Sad, Serbia** - Detailed analysis of vibration levels of the building parts sensitive to vibrations. Definition of exact properties for anti-vibration measures. Details of connection and exact size and dimension of the anti-vibration measures. Analysis of the vibrations produced by machines and definition of measures for solving these issues. Measures and products are defined with their technical specifications and details of their connection.
- 2021-22 **Design and dynamic testing of the base isolated module of the BioSense building in Novi Sad, Serbia** – Design of base isolation system for seismic isolation and anti-vibration, measurements of external vibrations, analysis and evaluation of external and internal vibration sources, system identification under ambient vibration, dynamic measurements, definition and installation of permanent monitoring system and derivation of experts reports
- 2021 **Seismic assessment and design of strengthening measures of Belgrade library, Belgrade, Serbia** - Structural calculations and seismic assessment according to Eurocode, with a design of strengthening measures
- 2021 **Seismic safety evaluation of a Residence building in Skopje, North Macedonia** - Seismic evaluation according to Eurocode
- 2020-21 **Field investigation and evaluation of existing buildings in Mazar-e-Sharif military base. Mazar-e-Sharif, Afghanistan** - Structural calculations and experts reports
- 2020 **Seismic risk assessment of 70 schools in Serbia** – Field inspection, desk review and application of seismic risk assessment methodology, valorisation of school buildings using score table
- 2019 **Inspection and seismic assessment of buildings in Tbilisi, Georgia** – Field inspection, calculation, design check and assessment of seismic capacity
- 2019 **Inspection and seismic assessment of buildings in Tirana, Albania** – Field inspection, calculation, design check and assessment of seismic capacity
- 2019 **Inspection and seismic assessment of rental buildings in Tirana, Albania** – Calculation, design check and assessment of seismic capacity

2018

**Field investigation of the facilities in Mazar-i-Sharif military base. Mazar-e-Sharif, Afghanistan - Field inspection, and assessment of seismic capacity**

## **MEMBERSHIPS**

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**EAAE** – European Association for Earthquake Engineering (member of WG13 – Seismic Assessment, design and resilience of industrial facilities)

**CWE, RWTH Aachen** – Associated partner of Center for Wind and Earthquake Engineering, RWTH Aachen University, Germany

**ASES** – Association of Structural Engineers of Serbia

**SAEE** – Serbian Association for Earthquake Engineering (Board member)

**StEER** – Structural Extreme Events Reconnaissance Network

*fib* – International Federation for Structural Concrete – member of TG2.7 (Seismic design)

*fib* – International Federation for Structural Concrete – member, faculty representative

*fib* – International Federation for Structural Concrete - Serbia Young Members Group

Member of the **CEN/TC 250/SC8/TG3** for writing new Eurocodes

## **LANGUAGES**

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**Serbian** Native Language

**English** Fluent

**German** Fluent

**Russian** Basic level

## **COMPUTER SKILLS**

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Microsoft Windows and Office (Word, Power Point, Excel), Mac OS X, AutoCAD, Tower, SAP2000, Matlab, ABAQUS, SeismoStruct, SeismoSignal, MINEA, InfoCAD.

## **EXTRA CURRICULAR & OTHER ACTIVITIES**

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2006 **Driving license (B category)**

2007-2010 **Faculty of Civil Engineering Water-polo Team, Belgrade, Serbia**

2007-2010 **Water polo Club “Taš”, Belgrade, Serbia**

2000-2007 **Water polo Club “Vračar”, Belgrade, Serbia**

## SCIENTIFIC PUBLICATIONS, LECTURES, FORUMS

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- 2022 Marinković, M., Butenweg, C.  
***Numerical analysis of the in-plane behaviour of decoupled masonry infilled RC frames***  
Engineering Structures, (2022), 272, 114959.
- September 2022 Tomić, I. et al.  
***Seismic testing of adjacent interacting masonry structures – shake table test and blind prediction competition***  
3<sup>rd</sup> European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 4-9 September 2022.
- September 2022 Marinković, M., Brzev, S., Krtinić, N., Žugić Ž.  
***Performance of reinforced concrete buildings during the November 26, 2019 Albania earthquake (Mw 6.4) and December 29, 2020 Petrinja earthquake (Mw 6.4)***  
3<sup>rd</sup> European Conference on Earthquake Engineering & Seismology, Bucharest, Romania, 4-9 September 2022.
- September 2022 Marinković, M., Baballëku, M., Isufi, B., Milićević, I., Brzev, S., Blagojević, N., Žugić Ž., Bursać P.  
***Seismic performance of school buildings in recent earthquakes: Lessons for Serbia***  
ASES 2022 Congress, Aranđelovac, Serbia, 28-30 September, 2022.
- September 2022 Spasojević, D., Milutinović, G., Žugić Ž., Marinković, M.  
***Pregled karakterističnih tipova oštećenja mostova usled zemljotresa***  
ASES 2022 Congress, Aranđelovac, Serbia, 28-30 September, 2022.
- 2022 Marinković, M., Baballëku, M., Isufi, B., Blagojević, N., Milićević, I., Brzev, S.  
***Performance of RC cast-in-place buildings during the November 26, 2019 Albania earthquake***  
Bulletin of Earthquake Engineering (2022).
- June 2022 Marinković M., Brzev S.  
***Damage of masonry buildings during earthquakes and retrofitting and strengthening examples from practice***  
12th International Conference Assessment, Maintenance and Rehabilitation of Structures, Vrnjačka Banja, Serbia, 29.06-01.07.2022.
- April 2022 Marinković M., Brzev S., Blagojević N., Milićević I., Žugić Ž., Bursać P.  
***Performance of masonry buildings during the November 26, 2019 Albania earthquake (Mw 6.4) and December 29, 2020 Petrinja earthquake (Mw 6.4)***  
19th MASE Symposium, Ohrid, North Macedonia, 27-30 April, 2022.

- 2022 Andonov, A., Baballëku, M., Baltzopoulos, G., Blagojević, N., Bothara, J., Brûlé, S., Brzev, S., ... & Veliu, E.  
***EERI earthquake reconnaissance team report: M6.4 Albania Earthquake on November 26, 2019.***  
EERI report, 2022.
- 2022 Marinković, M., Butenweg, C.  
***Experimental testing of decoupled masonry infills with steel anchors for out-of-plane support under combined in-plane and out-of-plane seismic loading***  
Construction and Building Materials, 318, 126041.
- 2021 Milićević I., Marinković M., Blagojević N., Nikolić-Brzev S.  
***Performance of RC frames in 26.11.2019. Albania earthquake: effects of irregularities and detailing***  
Building Materials and Structures, (2021).
- September 2021 Kijewski-Correa, T., Alhawamdeh, B., Arteta, C., Djima, W., Do, T., García Mejía, S., Gartner, M., Gunay, S., Hassan, W., Javadinasab Hormozabad, S., Marinković, M., Martin, A., Merino-Peña, Y., Pajaro, C., Romão, X., Burlotos, C., M. Mosalam, K., Robertson, I., Rogers, J., Taflanidis, A.  
***StEER: M7.2 Nippes, Haiti Preliminary Virtual Reconnaissance Report (PVRR)***  
in StEER - 14 August 2021, M7.2 Nippes Earthquake, Haiti.  
DesignSafe-CI.
- July 2021 Butenweg, C., Bursi O.S., Paolacci F., Marinković, M., Lanese I., Nardin C., Gianluca Q.  
***Experimental investigation on the seismic performance of a multicomponent system for major-hazard industrial facilities***  
Proceedings of the ASME 2021 Pressure Vessels & Piping Conference PVP 2021, Virtual, Online, July 12-16, 2021
- June 2021 Milijaš, A., Šakić, B., Marinković, M., Butenweg, C., Klinkel, S.  
***Experimental investigation of behaviour of masonry infilled RC frames under out-of-plane loading***  
COMPdyn 2021 - 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Athens, Greece, 27-30 June, 2021
- June 2021 Šakić, B., Milijaš, A., Marinković, M., Butenweg, C., Klinkel, S.  
***Influence of prior in-plane damage on the out-of-plane response of non-load bearing unreinforced masonry walls under seismic load***  
COMPdyn 2021 - 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Athens, Greece, 27-30 June, 2021
- 2021 C. Butenweg, O. S. Bursi, F. Paolacci, M. Marinković, I. Lanese, C. Nardin, G. Quinci

- Seismic performance of an industrial multi-storey frame structure with process equipment subjected to shake table testing*  
Engineering Structures, (2021).  
DOI:10.1016/j.engstruct.2021.112681
- June 2021 Marinković M., Žugić Ž.  
*Numerical Analysis of the Response of the RC Flat Slab Building under Seismic Action*  
fib Symposium 2021, Lisbon, Portugal, 14-16 June, 2021.
- March 2021 Marinković M., Brzev S., Baballëku M., Isufi B., Blagojević N., Milićević I., Žugić Ž., Bursać P.  
*Out-of-plane behaviour of loadbearing and non-structural masonry walls during recent earthquakes*  
1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia, 22-24 March, 2021.
- 2021 Miranda, E., Brzev, S., Bijelić, N., Arbanas, Ž., Bartolac, M., Jagodnik, V., ... & Robertson, I.  
*StEER-EERI: Petrinja, Croatia December 29, 2020, Mw 6.4 Earthquake Joint Reconnaissance Report (JRR)*  
StEER-EERI
- 2020 Marinković, M., Flores Calvinisti S., Butenweg, C.  
*Numerical analysis of reinforced concrete frame buildings with decoupled infill walls*  
Building materials and structures 63 (4), p. 13–48.
- 2020 Marinković, M., Butenweg, C.  
*Ausfachungen aus Ziegelmauerwerk in Stahlbetonrahmentragwerken unter Erdbebenbeanspruchung*  
Mauerwerk 24, H. 4, S. 194–205.
- September 2020 Marinković, M., Butenweg, C.  
*Out-of-plane behavior of decoupled masonry infills under seismic loading*  
17th World Conference on Earthquake Engineering, Sendai, Japan, 2020.
- September 2020 C. Butenweg, M. Marinković, A. Pavese, I. Lanese, E. Rizzo Parisi, B. Hoffmeister, M. Pinkawa, C. Vulcu, O. S. Bursi, Chiara Nardin, F. Paolacci, G. Quinci, M. Fragiadakis, F. Weber, P. Huber, P. Renault, M. Gündel, S. Dyke, M. Ciucci, A. Marino  
*Seismic performance of multiple-component systems in special risk industrial facilities*  
17th World Conference on Earthquake Engineering, Sendai, Japan, 2020.
- 2020 Nikolić-Brzev, S., Marinković, M., Milićević, I., Blagojević, N.  
*Posledice zemljotresa u Albaniji od 26.11.2019. na objekte i infrastrukturu (Consequences of the November 26, 2019 Albania earthquake on the buildings and infrastructure)*  
Serbian Association for earthquake engineering (SUZI-SAE), Belgrade, Serbia (in Serbian), 80 p. (ISBN 978-86-7466-843-6)

- July 2020 Marinković, M., Butenweg, C.  
***Seismic behaviour of RC frames with uncoupled masonry infills having two storeys or two bays***  
In Brick and Block Masonry-From Historical to Sustainable Masonry: Proceedings of the 17th International Brick/Block Masonry Conference (17<sup>th</sup> IB2MaC 2020), Kraków, Poland (p. 187). CRC Press.
- March 2020 Marinković, M. et al.  
***Investigation of the seismic behaviour of structural and non-structural components in industrial facilities by means of shaking table tests***  
SEDIF 2020 – 2nd International Conference on Seismic Design of Industrial Facilities, Aachen, Germany, 04-05 March, 2020.
- 2020 Marinković, M., Butenweg, C.  
***Earthquake-proof system for masonry infills in RC frame structures***  
International Journal of Masonry Research and Innovation 5 (2), p. 185–208.
- 2019 Marinković M., Butenweg, C.  
***Innovative decoupling system for the seismic protection of masonry infill walls in reinforced concrete frames***  
Engineering Structures, (2019).  
DOI:10.1016/j.engstruct.2019.109435
- 2019 Butenweg, C., Marinković M., Salatić, R.  
***Experimental results of reinforced concrete frames with masonry infills under combined quasi-static in-plane and out-of-plane seismic loading***  
Bulletin of Earthquake Engineering (2019). 17(6), pp. 3397-3422. DOI: 10.1007/s10518-019-00602-7
- June 2019 Marinković, M., Butenweg, C.  
***Experimental and Numerical analysis of RC Frames with decoupled masonry infills***  
COMPDYN 2019 - 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete, Greece, 24-26 June, 2019
- 2019 Marinković, M.  
***Integration of heritage buildings and sites in their surroundings - Public report (Editor: Degrigny, C.)***  
COST Action TD1406, Innovation in Intelligent Management of Heritage Buildings, Nova.FCT Editorial, 2019.
- 2018 Butenweg, C., Marinković, M., Fehling, E., Pfetzing, T.  
***Erdbebensicherer Anschluss von Ausfachungsmauerwerk in Stahlbetonrahmentragwerken mit Entkopplungselementen***  
***Stahlbetonrahmentragwerke mit Ausfachungen aus Mauerwerk unter kombinierten seismischen Belastungen in und senkrecht zur Wandebene***



- Bauingenieur*, Band 93, Erdbebeningenieurwesen, 2018. (ISSN 0005-6650, Publisher: Springer-VDI-Verlag)
- 2018 Butenweg, C., Marinković, M.  
***Erdbebensicherer Anschluss von Ausfachungsmauerwerk in Stahlbetonrahmentragwerken mit Entkopplungselementen***  
*Bauingenieur*, Band 93, Nr. 9, S. 333-341.2018. (ISSN 0005-6650, Publisher: Springer-VDI-Verlag)
- 2018 Marinković M.  
***Innovative system for seismic resistant masonry infill in reinforced concrete frame structures***  
Doctoral dissertation, University of Belgrade – Faculty of Civil Engineering, 2018.
- June 2018 Butenweg, C., Marinković, M.  
***Damage reduction system for masonry infill walls under seismic loading***  
ICAAC - 6th International Conference on Autoclaved Aerated Concrete. ce papers. 2018;2:267–273..
- 2018 Butenweg, C., Marinković, M., Kubalski, T., Fehling, E., Pfetzing, T., Meyer, U.  
***Auslegung von Stahlbetonrahmentragwerken mit Ausfachungen aus Ziegelmauerwerk (Teil 2) – Design of reinforced concrete enclosures infilled with clay block masonry (Part 2)***  
Ziegelindustrie International, Ausgabe 05/18, 2018.
- 2018 Butenweg, C., Marinković, M., Kubalski, T., Fehling, E., Pfetzing, T., Meyer, U.  
***Auslegung von Stahlbetonrahmentragwerken mit Ausfachungen aus Ziegelmauerwerk (Teil 1) – Design of reinforced concrete enclosures infilled with clay block masonry (Part 1)***  
Ziegelindustrie International, Ausgabe 04/18, 2018.
- June 2018 Marinković, M., Butenweg, C.  
***Innovative System for Earthquake Resistant Masonry Infill Walls***  
16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21, 2018.
- June 2018 Butenweg, C., Marinković, M., Fehling, E., Pfetzing, T., Kubalski, T.  
***Experimental and Numerical Investigations of Reinforced Concrete Frames with Masonry Infills under Combined In- and Out-of-plane Seismic Loading***  
16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21, 2018.
- September 2017 Butenweg, C., Marinković, M., Kubalski, T., Fehling, E., Pfetzing, T., Meyer, U.  
***Innovative Ansätze für die Auslegung von Stahlbetonrahmentragwerken mit Ausfachungen aus Ziegelmauerwerk***

- Erdbebeningenieurwesen und Baudynamik, 15. D-A-C-H Tagung 2017, Weimar, Deutschland, September 21-22, 2017, p. 130-145.
- January 2017 T. Kubalski, C. Butenweg, M. Marinković, S. Klinkel  
*Investigation of the seismic behaviour of infill masonry using numerical modelling approaches*  
16<sup>th</sup> World Conference on Earthquake Engineering, Santiago Chile, January 9-13, 2017, Paper N° 3064.
- September 2016 Salatić R., Marinković M.  
*Dynamics of structures and earthquake engineering – Numerical examples (in Serbian)*  
University of Belgrade – Faculty of Civil Engineering, Akademska misao, Belgrade 2016.
- August 2016 C. Butenweg, M. Marinković, T. Kubalski, S. Klinkel  
*Masonry infilled reinforced concrete frames under horizontal loading / Stahlbetonrahmen mit Ausfachungen aus Mauerwerk unter horizontalen Belastungen*  
Mauerwerk 20(4):305-312, August 2016.
- June 2016 Salatić R., Mandić M., Marinković M.  
*Numerical analysis of failure modes od masonry infill walls in RC frames*  
Proceedings 5<sup>th</sup> International Conference “Earthquake engineering and seismology”, Sremski Karlovci, Serbia, 29-30 June 2016, p.337-344.
- June 2016 T. Kubalski, M. Marinković, C. Butenweg  
*Numerical investigation of masonry infilled R.C. frames*  
16<sup>th</sup> International Brick and Block Masonry Conference, Padova, Italy, June 26–30, 2016. p.1219-1226.
- April 2016 C. Butenweg, T. Kubalski, M. Marinković, T. Pfetzing and E. Fehling  
*Ausfachungen aus Ziegelmauerwerk*  
Mauerwerk Kalender 2016: Baustoffe, Sanierung, Eurocode-Praxis, Jäger, W. (Hrsg.), Publisher: Verlag Ernst & Sohn, 2016, p.563-575.
- March 2016 Salatić R., Marinković M., Todorović M.  
*Nonlinear modeling of RC beam*  
Proceedings 6<sup>th</sup> International Conference “Civil engineering - science & practice”, Žabljak, Montenegro, 7-11 March 2016, p.233-240.
- 2015 Kubalski T., Marinković M., Volz A., Butenweg C.  
*FRAMA–2015 International Benchmark / Blind Prediction Contest*  
FRAMed–MAsonry Research Project, (FRAMed–MAsonry Composites for Modeling and Standardization, FRAMA), 2015.
- June 2014 Salatić R., Mandić R., Marinković M.  
*Design methodology of vertical extension for masonry buildings*

- Izgradnja, 2014, 5-6, p.249-256
- May 2014 Marinković M.  
***Nonlinear seismic analysis of RC frame structures with masonry infill***  
World Forum of Young Scientists 2014, Baku, Azerbaijan, 26-31 May 2014.
- May 2014 Salatić R., Mandić, R., Marinković M., Carević V.  
***Pushover analysis of RC frames with masonry infill***  
Proceedings 4<sup>th</sup> International Conference “Earthquake Engineering and Engineering Seismology”, Borsko jezero, Serbia, 19-21 May 2014, p.177-186.
- May 2014 Salatić R., Mandić, R., Marinković M., Carević V.  
***Modelling of masonry infill using a commercial computer software***  
Proceedings 10<sup>th</sup> International Scientific Technical Conference “Contemporary Theory and Practice in Building Development”, Banja Luka, 15-16 May 2014, p.129-138.
- December 2013 Salatić R., Marinković M.  
***Behavior modes of unreinforced masonry buildings under earthquake load (FEMA 306 recommendations)***  
Serbian Chamber of Engineers, Belgrade, Serbia, 12 December 2013.
- June 2013 Salatić R., Mandić R., Marinković M.  
***Seismic design of masonry buildings according to EC-8***  
Izgradnja, 2013, 5-6, p.221-234
- June 2013 Mandić R., Salatić R., Perović Z., Marinković M.  
***Experiences in the numerical modelling of masonry infilled frames***  
4<sup>th</sup> Serbian (29<sup>th</sup> Yu) Congress on Theoretical and Applied Mechanics, Vrnjačka Banja, Serbia, 4-7 June 2013, p.455-460.