

PERSONAL INFORMATION

RADU Dorin

 Tumului nr. 5, 500152 Braşov – RO

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 dorin.radu@unitbv.ro

WORK EXPERIENCE

-
- 2020 - present Vice Dean
Faculty of Civil Engineering, Transilvania University of Braşov
- 2019 - present Lecturer
Civil Engineering Department
Faculty of Civil Engineering, Transilvania University of Braşov
- 2006 - 2019 Assistant
Faculty of Civil Engineering, Transilvania University of Braşov
- 2003 - 2006 University preparator
Faculty of Civil Engineering, Transilvania University of Braşov
- 2003 - 2005 Structural designer
S.C. PROCONSTRUCT S.R.L.

EDUCATION AND TRAINING

-
- December 2019
CEEPUS program mobility – Faculty of Civil Engineering and Architecture Josip Juraj Strossmayer University of Osijek - Croatia
- April 2019
Erasmus program mobility – Faculty of Civil Engineering Subotica, University of NoviSad - Serbia
- 2018
Summer school - Loading and Environment Effects on Structural Integrity – Belgrade August 2018
European Structural Integrity Society – ESIS
- 2017
Transilvania University of Braşov Research study scholarship – Research study at Faculty of Mechanical Engineering – University of Belgrade
- 2013 – 2017
Doctoral studies
Faculty of Civil Engineering - Politehnica University of Timişoara, Steel Structure Department
PhD degree – Excellent. Doctoral thesis „Engineering Critical Assessment of the Cylindrical Steel Shell Structures”, tutors Prof. Dr. Ing. Radu BĂNCILĂ and Prof. Dr. Ing. Aleksandar SEDMAK
- 2014
Course IWSD
International Welded Structures Designer (IWSD) – International Institute of Welding, ISIM Timişoara
- 2014
Research study scholarship Ministerul Educaţiei Naţionale - Agenţia de Cedite şi Burse de Studii – bursă de studii în Belgrad, Serbia – Faculty of Mechanical Engineering
- 2014
Research internship – Faculty of Mechanical Engineering – University of Belgrade, Serbia

2011 – 2013

Master studies - UNED University - Spain – Superior School of Mechanical Engineers

1998 – 2003

Bachelor and master studies

Faculty of Civil Engineering - Transilvania University of Braşov

2003

University of Trento - Università degli Studi di Trento - Italia

Scholarship under supervision of Prof. Dr. ing. Riccardo Zandonini

2002

Research internship Fachhochschule Konstanz Germania under supervision of

Prof. Dr. ing. Kuchar Peter

1994 – 1998

Dr. Ioan Meşota Highschool, Braşov

Baccalaureate diploma

RESEARCH ACTIVITY

Scientific papers published in last 10 years in journals and papers in conferences (concise)

Radu D., Sedmak A., Sedmak S., Wei L. „Engineering critical assessment of steel shell structure elements welded joints under high cycle fatigue”, May 2020 Engineering Failure Analysis, 10.1016/j.engfailanal.2020.104578

Radu D., Gălăţanu T.F., Sedmak S., „Butt welded joints assessment after fire exposure” Engineering Failure Analysis, Dec. 2019, ISSN 1350-6307, DOI 10.1016/j.engfailanal.2019.08.010

Radu D., Sedmak A., Băncilă R., “Determining the crack acceptability in the welded joints of a wind loaded cylindrical steel shell structure”, Engineering Failure Analysis, Apr. 2018, ISSN 1350-6307, DOI 10.1016/j.engfailanal.2018.04.032

Radu D., Sedmak A., Sedmak S., Dunjić M. „Stress analysis of a steel structure comprising cylindrical shell with billboard tower” – Technical Gazette Vol25/no.2/2018 DOI 10.17559/TV-20160819201538.

Radu D., Feier A., Petzek E., Băncilă R., „Refurbishment of existing steel structures – an actual problem”, Periodica Polytechnica Civil Engineering Vol.2016 paper 9140 DOI 10.3311/Ppci.9140

Radu D., Gălăţanu T.F., Sedmak S. “Structural integrity of butt welded connection after fire exposure”, Procedia Structural Integrity Volume 13, 2018, Pages 1082-1087, DOI: 10.1016/j.prostr.2018.12.227

Radu D., Sedmak A., Băncilă R., “Structural integrity of a wind loaded cylindrical steel shell structure” Procedia Structural Integrity, 2nd International Conference on Structural Integrity, ICSI 2017, 4-7 September 2017, Funchal, Madeira, Portugal, Vol. 5, 2017, pp. 1213-1220

Radu D., Gălăţanu T.F., Taus D., “Fatigue Assessment and Behavior of a Shell Steel Element Welded Joint”, Procedia Engineering, Volume 181, 2017, Pag.159-166

Radu D., Feier A., „Steel antenna towers – from designing to manufacturing optimization”, September 2018 IOP Conference Series Materials Science and Engineering 399(1):012047 DOI: 10.1088/1757-899X/399/1/012047

Radu D. „ Manufacturing Imperfections importance in Rectangular Hollow Section Welded Joints Behavior” 15th International Multidisciplinary Scientific GeoConference SGEM 2015, Conference Proceedings, ISBN 978-619-7105-33-9 / ISSN 1314-2704, June 18-24, 2015, Book1 Vol. 3,

Băncilă R., Feier A., **Radu D.** „Rehabilitation of Existing Steel Structures, an Integral Part of the Sustainable Development”, International Scientific Conference CiBV 2014 - Bulletin of the Transilvania University of Braşov, vol.7 (56), Braşov 2014, ISSN 2065-2127

Sedmak A., **Radu D.** „Truss Beams Welded Joints – Manufacturing Imperfections and Strengthening Solutions”, Journal Structural Integrity and Life – Vol 14, No.1 (2014) pp.29-34, ISSN 1451-3749

Băncilă R., Feier A., **Radu D.** „Rehabilitation of Existing Steel Structures, an Integral Part of the Sustainable Development”, International Scientific Conference CiBV 2014 - Bulletin of the Transilvania University of Braşov, vol.7 (56), Braşov 2014, ISSN 2065-2127

Sedmak A., **Radu D.** „Truss Beams Welded Joints – Manufacturing Imperfections and Strengthening Solutions”, Journal Structural Integrity and Life – Vol 14, No.1 (2014) pp.29-34, ISSN 1451-3749

Radu D. „Influence of manufacturing flaws in the truss beams welded joint behaviour”, WSEAS Conference RIMA 2014 – Braşov, ISBN 978-960-474-386-5

Radu D., Sedmak A. „Failure Modes and Designing Procedures of the Tubular Truss Beams Welded Joints According with EN 1993-1-8”, International Scientific Conference CiBV 2014 - Bulletin of the Transilvania University of Braşov, vol.7 (56), Braşov 2014, ISSN 2065-2127

Radu D. „History of the Semi-Rigid Joint Behaviour modeling”, International Scientific Conference CiBV 2013 - Bulletin of the Transilvania University of Braşov, vol.6 (55), 2013, ISSN 2065-2127

Radu D. „Assesment of Steel Joints Behavior”, Journal of Applied Engineering Sciences, Vol.2 (15) Oradea 2012, ISSN 2247-3769

Radu D. „Steel Joints – Component Method Application”, International Scientific Conference CiBV 2012 - Bulletin of the Transilvania University of Braşov, vol.5 (54), Braşov 2012, ISSN 2065-2127

Books and book chapters

1. **Radu D.**, "Engineering critical assessment of the steel shell structures", Editura Politehnica Timisoara, 2017, ISBN 978-606-35-0132-6, 312 pag.
2. **Radu D.** "Construcții metalice - curs", <https://elearning.unitbv.ro/course/view.php?id=2013>
3. Popaescu A., Deaconu O., Croitoru G., **Radu D.**, "Existing Large and Thin Concrete Slab Damaged by Multiple Cracks Almost Pierced. Expertise, Diagnosis, Strengthening, Behavior and Control After Execution", High Tech Concrete: Where Technology and Engineering Meet, Proceedings of the 2017 fib Symposium, held in Maastricht, The Netherlands, June 12-14, 2017, Springer International Publishing AG 2018, DOI https://doi.org/10.1007/978-3-319-59471-2_226

Research and educational projects

National grant "Studii si cercetari privind stabilirea solutiilor constructive pentru spina ce deserveste tehnologic si functional cladirile institutului de cercetare PRODD Contract no. 20/2009. Manager (for coordinator institution). Contract value 43.627 RON. Contract duration 24 months.

National grant "Studii și cercetări privind stabilirea soluțiilor pentru structurile de rezistență aferente construcțiilor destinate Institutului de cercetare PRO DD", Contract duration 24 months. Contract value 48.000 lei – member in the project team.

International contract Leonardo da Vinci "Work Based Learning (Learn&Work). Valoare contract 40.380 Euro. Agreement no. 2006 DK/05/B/F/pp-145.502. Contract duration 24 months (2005-2007) - member in the project team.

Member in Erasmus 2018-1-RO01-KA203-049458 project - Innovative Educational Integration of Urban Planning Based on Bim-Gis Technologies and Focused on Circular Economy Challenges

Member in Erasmus 2019-1-ES01-KA203-065060 project - Housing as a strategy for health promotion from an intersectorial and multidisciplinary approach

PERSONAL SKILLS

Known languages	UNDERSTANDING		SPEAK		WRITING
	Listening	Read	Conversation	Oral speech	
English	C1	C1	C2	C2	C2
Italian	B2	B2	B1	A1	A2

Other information From 2020 – present I am member in Transilvania University of Braşov Senate
 From 2019 – present I am member in Civil Engineering Department Council
 Member in editorial committee of IOP Journal – CIBv 2019 și CIBv2020 proceedings.
 Member in reviewers board of MDPI Metals
 Member in editorial committee of MDPI Applied Mechanics
 Member of European Structural Integrity Society (ESIS)
 Member of Romanian Association of Fracture Mechanics (ARMR)
 Member of Romanian Association Structural Designers (AICPS)

Web of Science Researcher ID E-2357-2014
<https://orcid.org/0000-0001-5043-2723>