Application

for

Erasmus Mundus Joint Master Degrees (EMJMD) 2016

Sustainable Constructions under Natural Hazards and Catastrophic Events SUSCOS_M



ANNEXES

CV'S OF KEY EXPERTS

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CV's of key professors

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CV's of key experts

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Aldina Maria da Cruz Santiago, UC	27

are included below in this document.



r

	Josef MACHACEK Full Professor Department of Steel and Timber Structures, Faculty of Civil Engineering, Czech Technical University in Prague CZECH REPUBLIC	
Contacts	Department of Steel and Timber Structures, Faculty of Civil Engineering, Thakurova 7, 166 29 Czech Technical University in Prague Tel.: +420 224 354 916 Fax: +420 233 337 466 e-mail: <u>machacek@fsv.cvut.cz</u> URL: http://people.fsv.cvut.cz/~Machacek	
Degrees	Ing.Civil EngineeringCTU in Prague1967CSc.Civil EngineeringCTU in Prague1977DrSc.Civil EngineeringCTU in Prague1990Doc. Hab.Steel StructuresCTU in Prague1991ProfessorshipSteel StructuresCTU in Prague1993	
 Key Qualifications Professor of Steel and Composite Structures at the Czech Technical University of Prague; Former Vice-Rector for Strategy of Czech Technical University of Prague; Former Vice-Dean for International relation of the Faculty of Civil Engineering of the Czech Technical University of Prague; Member of the Management Committee of EUCEET (European Union Civil Engineering Education and Training) Socrates TN; Member of the AECEF Board (Association of European Civil Engineering Faculties); Chartered Engineer. 		
Research focus	 Steel structures (plated structures, cold formed members, stability). Composite steel and concrete structures (shear connection, novel structures). Stainless steel structures and members. Steel and textile membrane structures. 	
References	Selected references (max. 10)	
Description#ISI journal21Non-ISI journal40Conferences231Citations71Book chapters8Text-Books36H index5	 Machacek, J Studnicka J.: Stahlbetonverbundträger mit Perfobond-Leiste. Stahlbau 68, Januar 1999, Heft 1, pp. 9-14 [ISSN 0038-9145] Machacek, J Studnicka, J.: Perforated shear connectors. Steel & Composite Structures, Int. J. Techno-press, Vol. 2, No. 1, 2002, pp. 51-66 [ISSN 1229-9367] Macháček, J Tůma, M.: Fatigue life of girders with undulating webs. Journal of Constructional Steel Research (JCSR), Vol. 62, No. 1-2, 2006, s. 168-177 [ISSN 0143-974X] Jandera, M. – Gardner, L Macháček, J.: Residual stresses in cold rolled stainless steel hollow sections, Journal of Constructional Steel Research, Vol. 64, No. 11, 2008, pp. 1255-1263 [ISSN 0143-974X] Macháček, J. – Čudejko, M.: Longitudinal shear in composite steel and concrete trusses, Engineering Structures, Vol. 31, No. 6, 2009, s. 1313-1320 [ISSN 0141-0296] Jandera, M Macháček, J.: Residual stress influence on material properties and column behaviour of stainless steel SHS, Thin-Walled Structures, Vol. 83, October, 2014, pp. 12-18 [ISSN 0263-8231] Macháček, J Charvát, M.: Study on shear connection of bridge steel truss and concrete slab deck, J. Civil Engineering and Management [ISSN 1392- 3730] doi: 10.3846/13923730.2014.976258 	



		Svoboda, O Macháček, J.: Ster Applied Mechanics and Materials 821, 2016, pp 733-740 [ISSN 166 Bergerova Nguyen, G. – Machac connectors on behavior of partial Composite Structures, Techno Pr [ISSN 1229-9367]	el arch stabilized by a textile membrane, 5, Trans Tech Publications, Switzerland, Vol. 52-7482] ek, J.: Effect of local small diameter stud ly encased composite beams, Steel and ress, Volume 20, Number 2, February 2016
Teaching experi	ence	Under-graduate teaching	Steel and composite structures
Description	#	MSc	Steel and composite structures. Stability
Veero of teaching	#		of plates. Staipless steel structures
	44	 DhD	Stool and composite structures
PhD supervision	18	 PID Operfine ve Education	Steel and composite structures
	50	Continous Education	Steel and composite structures
Lectured subjects	15		
International experience Description Research projects Mobility programmes Technical boards Conference committees Others	# 20 12 5 10	In the past responsible for 14 research grants (in total about at 480.000 EUR) (see http://people.fsv.cvut.cz/~Machacek) and co-researcher of many national research grants since 1968. Life-long research in the field of stability and elastic-plastic strength of thin steel plates, focused into buckling of unstiffened and stiffened plates, shear lag effects in wide flanges and interaction of buckling with shear lag. Investigation of progressive thin-walled steel elements (girders with undulating webs, stressed-skin design, arched sheeting, stainless steel elements, prestressed steel structures etc.). Research in the field of composite steel and concrete structures, especially into effectiveness of shear connectors, thin-walled shot fired shear connectors, small diameter pins etc.), i nvestigation of truss com posite girders, composite girders etc., investigation of interaction of textile membranes with steel structures. At the same time deeply involved in education of civil engineers (in the frame of grants from EU, like Jean Monnet, EUCEET, and activities under AECEF).	
Cooperation with industry	h	 Many various contracts concerning design projects and courses for practicing engineers. 	
Patents		2 verified civil engineering technologies.	
Prizes		2 nd prize at Bridge design competition twice 3 rd prize in Bridge design comp	n; vetitions.
Languages		English German Russian	Fluent Reading Understanding



	~	Martina ELIÁŠOVÁ		
R I) V	Associate Professor		
ASTE	10	Department of Steel and Timber Structures		
Pres	E	Faculty of Civil Engineering, Czech Technical		
	Z)	University in Prague		
		CZECH REPUBLIC		
Contacts		Department of Steel and Timber Structures, Faculty of Civil Engineering,Thakurova 7, 166 29 Czech Technical University in PragueTel.:+420 224 354 921Fax:+420 233 337 466e-mail:eliasova@fsv.cvut.czURL:http://people.fsv.cvut.cz/~Eliasova		
Degrees		Ing.Civil EngineeringCTU in Prague1988CSc.Civil EngineeringCTU in Prague1994Doc. Hab.Steel StructuresCTU in Prague2014		
Kov Qualificati		Assistant Professor of Steel and Composite Structures, Glass Structures at		
	0115	 the Czech Technical University of Prague; Member of Management Committee COST Action C13 ", Glass and 		
		interactive building envelopes" 2003 - 2004		
		Glass- Novel Design Methods and Next generation Products" 2012 - 2014		
		Member of technical committee CEN TC250 / WG3 Structural Glass		
Research focus	S	 Glass structures (glued connection, laminated glass, hybrid structural elements, stability of glass beams and columns). 		
References		Selected references (max. 10)		
References		Machalická, K Eliášová, M.: Behaviour of Glued Connections under Shear Loading.		
Description	#	 In: Key Engineering Materials. 2015, vol. 662, no. 662, p. 241-244. ISSN 1013-9826. Netušil, M Eliášová, M.: Design and evaluation of bonded composite glass beams. 		
Non-ISI journal	4	In: ICE Proceedings of the Institution of Civil Engineers. Structures and Buildings. 2015, vol. 168, no. 7, p. 490-499, ISSN 0965-0911		
Conferences	12	 Machalická, K Eliášová, M Netušil, M.: Material Properties of Adhesives for Shear 		
Book chapters	5	Bonded Connections of Structural Glass. In: Pollack Periodica, An International		
Text-Books	0	ISSN 1788-1994.		
H Index	2	 Feldmann, M Kasper, R Eliášová, M Abeln, B Gessler, A et al.: Guidance for European Structural Design of Glass Components [Research Report]. Luxembourg: Publications Office of the European Union, 2014. Report EUR 26439 		
	 Netušil, M Eliášová, M.: Trends and requirements for adhesives with load bearing role. In: Proceedings of the Challenging Glass 4 and COST Action TU0905 Final Conference. Leiden: CRC Press/Balkema, 2014, p. 369-374. ISBN 978-1-138-00164- 			
		0. □ Eliášová M - Netušil M - Bouška P - Vokáč M - Špaček M · Vvužití		
jednovrstvého tepelně tvrzeného skla na protihlukové stěny. In: Konstrukce. 2014, č.				
	 1, s. 50-54. ISSN 1213-8762. Fremr, T Netušil, M Eliášová, M.: Analytic models of adhesively bonded steel- 			
		glass beams. In: Structures and Architecture, Concepts, Applications and Challenges. Leiden: CRC Press/Balkema, 2013, art. no. 39, p. 335-342, ISBN 978-0-415-66195-9		
		 Netušil, M Eliášová, M.: Design of the Composite Steel-Glass Beams with Semi- Rigid Polymer Adhesive Joint. In: Journal of Civil Engineering and Architecture. 2012, 		
		 vol. 57, no. 6, p. 1059-1069. ISSN 1934-7359. Eliášová, M Netušil, M.: Experimental Comparison of Different Types of Glass Composite Beams. In: XXVII A.T.I.V. Conference. 2012, p. 126-131. ISSN 2281- 3462 		
		 Eliášová, M.: Navrhování konstrukcí ze skla podle evropských norem. In: Konstrukce. 2012, roč. 11, č. 6, s. 85-91. ISSN 1213-8762. 		



Teaching experience	Under-graduate teaching	Steel and Composite Structures, Glass structures
Description#Years of teaching20PhD supervision4MSc supervision35Lectured subjects6	 Post-graduate teaching MSc PhD 	Steel and Composite Structures, Glass Structures
International experienceDescription#Research projects24Mobility8programmes7Technical boards3Conference14committees0Others14	 Responsible for 5 national grants and as a partner for 1 European research grants. 2008–2010: Research Fund for Coal and Steel EU, RFSR-CT-2007-00036 "Development of innovative steel-glass-structures in respect to structural and architectural design" - INNOGLAST. 2014 – 2016: GAČR č. 14-17950S "Composite Action between Glass Panes connected by polymer interlayer" 2011 – 2013: grant MŠMT v programu COST č. LD11037 "Experimentální a numerická analýza kompozitních konstrukcí ze skla" 2005 - 2007 grant GAČR 103/05/0417 "Zvýšení spolehlivosti konstrukcí ze skla" 2005: grant MŠMT v programu COST č. 1P05OC067 "Šroubové styčníky nosných prvků ze skla" 	
Cooperation with industry	 Various contracts concerning de engineers. 	esign projects and courses for practicing
Patents	1 verified civil engineering technologies; 6 utility models	
Prizes	-	
Languages	Image: English FluentImage: Fluent ReadingImage: Fluent ReadingImage: Fluent ReadingImage: Fluent Understanding	



	Daniel Mihai Grecea Full Professor Department of Steel Structures and Structural Mechanics of the "Politehnica" University of Timisoara ROMANIA	
Contacts	Politehnica University of Timisoara Faculty of Civil Engineering Dept. of Steel Structures and Structural Mechanics str. Ioan Curea nr.1 Timisoara 300224, Romania Tel.: +40 256 403924 Fax: +40 256 403932 e-mail: <u>daniel.grecea@upt.ro</u> URL: <u>www.upt.ro</u>	
Degrees	 MSc Civil Engineering Civil Engineering PhD Civil Engineering Professor Civil En	
Key Qualifications	 Professor of Structural Mechanics and Earthquake Engineering at the Politehnica University of Timisoara; Member of the Scientific Council of the Politehnica University of Timisoara; Member of the Technical Committees of ECCS (TC10, TC13, TC14, TC15); Technical responsible of APCMR – Romanian Association of Steel Construction Producers; Member of APK (French Association for Steel Construction Promotion) Member of AICPS (Romanian Association of Structural Designers) Member of AGIR (General Romanian Association of Engineers) Project Member of several R&D projects involving partners from several European countries. 	
Role within Suscos consortium	Member in Politehnica University of Timisoara Staff for academic program and management project	
Research focus	 Steel Structures in seismic zones (joints stability HSS) Extreme actions on buildings Sustainability and life cycle analysis of building structures 	
ReferencesDescription#ISI journal11Non-ISI journal25Conferences74Citations12Book chapters6Books11	 Selected references (max. 10) D. Grecea, F. Dinu, D. Dubină, Performance criteria for MR steel frames in seismic zones, Journal of Constructional Steel Research, Vol 60 Nos 3-5, March-May 2004, 739-749, ISSN: 0143-974X D. Grecea, A. Stratan, A. Ciutina, D. Dubina, Rotation capacity of MR beamto-column joints under cyclic loading, ECCS/AISC workshop: Connections in steel structures V: innovative steel connections, 2004, Amsterdam, Netherlands. http://www.bouwenmetstaal.nl/congres/congres_eccs_04, Edited by F.S.K. Bijlaard, A.M. Gresnigt & G.J. van der Vegte, pg. 141-155 da Silva, L.S., Grecea, D., Krigsvoll, G., Gervasio, H., Blok, R., Aktuglu, Y., I.CA databases (EPD vs Generic data). Cost C25 - Proceedings of the first 	



		Workshop: Sustainability of Constr Structural Engineering, ISBN: September 13-15, 2007, p. 0, 13-0, 2	uctions, Integrated Approach to Life-time 978-989-20-0787-8, Lisbon, Portugal,
		Cristutiu, M., Grecea, D., Dubina, component method to bolted bear	D., Particular features on application of m-to-column joints of pitched roof portal
		Conference on Steel and Composi	te Structures - Graz, Austria, 2008, Proc.
		EUROSTEEL 2008, 3-5 September	r, Graz, Austria. R. Ofner, D. Beg, J. Fink,
		R. Greiner, H. Unterweger (Eds)., IS Grecea, D., Ungureanu, V., Sta	SBN 92-0147-000-90, p. 615-620 te-of-the Art and Survey in Members'
		Countries – Romania. COST C25 – LCA., COST C25 Seminar: Su	- WG1. Delivery 2.2 Guidelines to perform stainability of Construction: Integrated
		Approach to Life-time Structural E Germany, 2008, Proceedings of Integrated Approach to Life-time S	ingineering, 6-7 October 2008, Dresden, Seminar: Sustainability of Construction: tructural Engineering, ISBN 978-3-86780-
		094-5, p. 2.71-2.77. D. Grecea, D. Dubina, N. Munt	tean. Beam-to column joints of bolted
		extended end-plate. Influence o	f T-stub failure mode on the global
		Composite Structures, 31 Aug. – 2 206. ISBN 978-92-9147-103-4.	Sept. 2011, Budapest, Hungary, p. 201-
		D. Grecea, M. Szitar: Politics for su Proc. of the Int. Conf. Sustainabilit	ustainable development – key documents,
	Environment, Final Conference of the COST Action C25, 3-5 February 2011,		
	 M. Szitar, D. Grecea: Sustainable building assessment tools and quality of the second s		
		Towards a Better Built Environment C25, 3-5 February 2011, Innsbruck	nt. Conf. Sustainability of Constructions nt, Final Conference of the COST Action a, Austria p. 9-16, ISBN 978-99957-816-0-
		Grecea D., Muntean N., Dubina connections in moment joints & Conference on Behaviour of Steel STESSA 2012: PROCEEDING CONFERENCE ON BEHAVIOUR AREAS Santiago CHILE, JAN 09-	D., Control of bolted beam-to-column by T-stub properties, 7th International Structures in Seismic Areas (STESSA), S OF THE 7TH INTERNATIONAL OF STEEL STRUCTURES IN SEISMIC 11 2012
		Vataman A., Grecea D., Ciutina A.	(2015) Influence of Detailing of Short Link
		Proceedings of the 8th Internation Structures in Seismic Areas, Shang F., Li G.C., Chen S., Qiang X., Chin	Incally Braced Frames, STESSA 2015, onal Conference on Behaviour of Steel hai, China, 1-3 July 2015, Eds. Mazzolani ha Arhitecture & Building Press, p.263.
		Popov M., Grecea D., Dogariu A., L Two Steel Solutions for Apartm	Ingureanu V. (2015) Seismic Behaviour of
		Prefabricated Reinforced Concrete	Collective Dwellings, Proceedings of the
		Areas, Shanghai, China, 1-3 July 2 Qiang X., China Arhitecture & Build	015, Eds. Mazzolani F., Li G.C., Chen S., ing Press, p.451.
Teaching experience		Under-graduate teaching	Structural Mechanics; Earthquake Engineering
Description #		Post-graduate teaching	
Years of teaching 21			Sustainability of Buildings
MSc supervision 15		Continous Education	Sustainability of Buildings
Lectured subjects 5			of Buildings



International experienceDescription#Research projects12Mobility5programmesTechnical boardsTechnical boards-Conference14committees-Others-	 <u>Research and academic projects and programs</u> Member of 5 Phare TEMPUS Projects I 1991-1999); FP4-INCO-COPERNICUS "RECOS", PHARE-Bilateral IN/PH/002, LEONARDO "WIVISS", World bank funded projects (2-1998-2001); COST C1; COST C12, C 25, C26, TU0601, "LEONARDO CESTRUCO"; FP6-2002- INCO-MPC-1 :FP 6 "PROHITECH"; EUREKA-SEFIE, RFCS Projects (5)- UPT coordinator for RSFR 2009-0024 HSS-SERF <u>PHD Juries</u> INSA Rennes (2003, 2005), UTC Bucharest (2009, 2010, 2011) <u>Conference Committees</u> Conferences on Metal Structures in Timişoara 1994 and 1997; CIMS' 92- Timisoara 1992, STESSA '94 - Timişoara 1994, STESSA '97 - Kyoto 1997; SDSS'99 Timisoara,1999, Int . Conf. on steel and composite Structures, Int. Col. On Stability of Steel structures, Budapest, Sept. 2002; EUROSTEEL, Coimbra, Sept. 2002; STESSA 2006 Yokohama, Japan, 2006; SDSS'06, Lisbon, Portugal 2006; ICMS'06, Poiana Brasov, Romania, Eurosteel 2008, Graz, STESSA 2009, Philadelphia, SUA,; SDSS 2010, Rio de Janeiro, Brasil; Structures&Architecture, 2010, Guimaraes, Portugal, EUROSTEEL, Budapest, Sept. 2011, ICTWS 2011, Timisoara, Sept. 2011, STESSA 2012, Santiago, Chile, Jan. 2012.
Cooperation with industry	 Different research projects with industry RFCS projects
Patents	RO 97611/87, Planar reticulated structure made by prefabricated elements
Prizes]
Languages	Romanian English FrenchFluentGerman ItalianBasic



UD ^{Politehnica} Timișoara	Aurel STRATAN Associate Professor Department of Steel Structures and Structural Mechanics, Faculty of Civil Engineering, Politehnica University of Timisoara ROMANIA	
Contacts	Politehnica University of Timisoara Faculty of Civil Engineering Dept. of Steel Structures and Structural Mechanics str. Ioan Curea nr.1 Timisoara 300224, Romania Tel.: ++40 256 403932 Fax: ++40 256 403932 e-mail: <u>aurel.stratan@upt.ro</u> URL: www.ct.upt.ro	
Degrees	BScCivil Engineering"Politehnica" University of Timisoara, Romania1997PhDCivil Engineering"Politehnica" University of Timisoara, Romania2004	
Key Qualifications	 Associate Professor of Structural Dynamics and Seismic Engineering at the "Politehnica" University of Timisoara; Technical secretary of Technical Committee TC13 "Seismic Design" of the European Convention for Constructional Steelwork (ECCS); Member in CEN/TC 250/SC 8 "Eurocode 8: Earthquake resistance design of structures", European Committee for Standardization (CEN); Technical committee ASRO/CT 343 "Basis of Design and Structural Eurocodes", Romanian Standards Association (ASRO); Member in AICPS - Romanian Association of Structural Engineers; Member in APCMR - Romanian Association of Steelwork Producers; 	
Role within Suscos consortium	Academic supervisor.	
Research focus	 Seismic Engineering Steel Structures 	
ReferencesDescription#ISI journal8Non-ISI journal42Conferences117Citations54Book chapters6Books2	 Selected references (max. 10) Dubina, D., Stratan, A., Dinu F. (2011). "Re-centring capacity of dual-steel frames", Steel Construction: Design and Research, Vol. 4, No. 2, pp. 73-84. Stratan, A., Dubina, D. (2008). "Selection of time-history records for dynamic analysis of structures", Proceedings of the International Symposium "Urban Habitat Constructions under Catastrophic Events", Malta, 22-23 October 2008, COST Action C26, Editors: Mazzolani, Mistakidis, Borg, Byfield, De Matteis, Dubina, Indirli, Mandara, Muzeau, Wald, Wang, p. 123-128. Dubina, D., Stratan, A., Dinu, F. (2008). "Dual high-strength steel eccentrically braced frames with removable links". Earthquake Engineering & Structural Dynamics, Vol. 37, issue 15, pp. 1703-1720. Fajfar, P., Dolsek, M., Marusic, D. and Stratan, A. (2006). "Pre- and post-test mathematical modelling of a plan-asymmetric reinforced concrete frame building". Earthquake Enging Struct. Dyn. 2006; 35: 1359–1379. 	



 Stratan, A. and Dubina, D. (2004). "Bolted links for eccentrically braced steel frames". Proc. of the Fifth AISC / ECCS International Workshop "Connections in Steel Structures V. Behaviour, Strength & Design", June 3-5, 2004. Ed. F.S.K. Bijlaard, A.M. Gresnigt, G.J. van der Vegte. Delft University
 of Technology, The Netherlands. pp. 223-232 Dubina, D., and Stratan, A. (2002). "Behaviour of welded connections of moment-resisting frames beam-to-column joints", Engineering Structures, Vol. 24, No. 11, 1431-1440.

Teaching experi	ence #	Under-graduate teaching	Structural Dynamics and Seismic Engineering Basis of Structural Design Steel Structures
Years of teaching	14	Post-graduate teaching	
PhD supervision	-	MSc	Performance Based Seismic
MSc supervision	13		Engineering Seismic Assessment and
Lectured subjects	5		Retrofitting of Existing Buildings
		PhD	-
		Continous Education	-

International experienceDescription#Research projects8Mobility1programmes1Technical boards3Conference3committees0Others-	 JRC N° 31817 / 24.09.2010 (2010-2013). "Full-scale experimental validation of dual eccentrically braced frame with removable links (DUAREM)". Transnational Access within the framework of Grant Agreement No. 227887. Beneficiary: European Commission (member in the research team). RFSR-CT-2009-00024 HSS-SERF 01.07.2009-31.06.2012. "High Strength Steel in Seismic Resistant Building Frames - HSS-SERF", Financing authority: Research Fund for Coal and Steel. Total value: 101,736 EUR (member in the research team). RFCS-CT-2007-00050 STEELRETRO / 01.07.2007-31.06.2010. "Steel solutions for seismic retrofit and upgrade of existing constructions", Financing authority: European Commission - Research Fund for Coal and Steel. Total value: 87,600 EUR (member in the research team). C18873/28.12.2005. bilateral Romanian-Greek program "Strengthening and rehabilitation of historical buildings by reversible technologies" (2006-2008). (program coordinator). FP6 INCO-CT-2004-509119/2003 (2003-2008): "Earthquake Protection of Historical Buildings by reversible Mixed Technologies - PROHITECH". Financing authority: European Commission. Value: 182,854 EUR (member in the research team).
Cooperation with industry	 RUUKKI/2009, "Requirements for multi-storey buildings in seismic areas". Beneficiary: Rautaruukki Corporation, Finland. Value: 10,000 EUR (member contract team).
Patents	□ -
Prizes	 2007: "ECCS European Award for Steel Structures 2007" for design of the Tower Center International building in Bucharest (team D. Dubina, F. Dinu, A. Stratan, A. Ciutina). 2003: "ECCS European Award for Steel Structures 2003" for design of the Banc Post building in Timisoara (team D. Dubina, F. Dinu, A. Stratan, A. Ciutina)
Languages	 Romanian English Russian Italian Fluent Basic

A REAL PROPERTY AND A REAL	Mario D'Aniello Assistant Professor Department of Construction and Mathematical Methods in Architecture of the University of Naples Federico II ITALY	
Contacts	Department of Construction and Mathematical Methods in Architecture University of Naples "Federico II" via Forno Vecchio, 36. 80134 Naples (Italy) Tel.: +39.081.2538917 Fax: +39.0812538989 e-mail: mdaniel@unina.it	
Degrees	 BSc+ MSc PhD Assistant Professor Structural Engineering Construction Engineering Miv.of Naples Federico II, Italy Univ.of Naples Federico II, Italy Univ. of Naples Federico II, Italy 	
Key Qualifications	 11 years experience as tutor of students for both graduation and PhD thesis Member of Research Units in both National and International research projects Lecturer within specialist courses Member of the organizing and scientific secretariats of National Conference Advisor of the Italian Unification National Entity (UNI) for the translation of the European code EN-1994:1-1 "Design of Design of composite steel and concrete structures";. 	
Role within Suscos consortium	Teaching and Academic supervisor.	
Research focus	 Steel Structures (seismic design HSS stability connections bridges) Energy dissipation and isolation systems for seismic protection FRP composites in civil engineering Seismic vulnerability assessment of existing buildings Robustness 	
ReferencesDescription#ISI journal16Non-ISI journal13Conferences108Citations214(SCOPUS214databse)Book chaptersBooks1	 Selected references (max. 10) D'Aniello M., Portioli F., Fiorino L., Landolfo R., (2011). Experimental investigation on shear capacity of riveted connections in steel structures. Engineering Structures Volume 33, Issue 2, February 2011, Pages 516-531 (doi:10.1016/j.engstruct.2010.11.010) D'Aniello M., Landolfo R., Piluso V., Rizzano G. (2012). Ultimate Behaviour of Steel Beams under Non-Uniform Bending. Journal of Constructional Steel Research 78 (2012) 144–158. doi:10.1016/j.jcsr.2012.07.003 Della Corte G., D'Aniello M., Landolfo R., (2013). Analytical and numerical study of plastic overstrength of shear links. Journal of Constructional Steel Research, 82, 19–32. Güneyisi E.M., D'Aniello M., Landolfo R., Mermerdaş K. (2013) A novel 	

Teaching experience		Under-graduate teaching	Structural Engineering,
Description	#		Steel design
Years of teaching	8		Seismic Design)
PhD supervision	8		
MSc supervision	24		
Lectured subjects	3		

International experience		 Involved into the following international research projects: 1) PROHITECH 'Earthquake Protection of Historical Buildings by Reversible Mixed Technologies' (2004-2007).
Description	#	2) RELUIS Task 5 (2005 – 2008) "Development of innovative approaches
Research projects	5	to design steel and composite steel and concrete structures"
Mobility		3)RELUIS Task 4 (2005 – 2008) "Development of a direct displacement-
programmes		based methodology for seismic design and vulnerability assessment."
Technical boards		4)COS1-C26 "Urban Habitat Constructions under Catastrophic Events"
Conference		(2006-2010).
committees		5)RFCS: "HSS-SERF: High Strength Steel in SEismic Resistant building
Others		Frames" (2009-2011).
		6)RFCS: "DISTEEL: Displacement based design of STEEL structures"
		(2010-2013).
		7)DUAREM (2010-2013): "Full-scale experimental validation of dual
		eccentrically braced frame with removable links". SEVENTH
		FRAMEWORK PROGRAMME Capacities Specific Programme Research
		Infrastructures, Project No.: 227887.
		8)EQUALJOINTS (2013-2016): European pre-QUALified steel JOINTS.
		Fund for Coal and Steel Grant Agreement No RFSR-CT-2013-00021. In
		this project he is also scientific secretary.
		9)LSV3 (2013-2014): Large Valorisation on Sustainability of Steel
		Structures. Fund for Coal and Steel Grant Agreement No. RFS2-CT-2013-
		00016
		10) FREEDAM (2015-2018): FREE from DAMage Steel Connections.



	 Fund for Coal and Steel Grant Agreement No. 11) RELUIS (2014 – 2016) "Analisi della risp acciaio tradizionali ed innovativi." (Steel and s -Invited researcher at the "Early Stage Res (Sustainability in Structures and Structural In contemporary and historical urban habita sustainability and risk assessment framework) May 2009 Thessaloniki (Greece) 	RFSR-CT-2015-00022. bosta strutturale di sistemi di teel composite structures. searchers Training School" terventions - Improving the at constructions within a - COST-Action C26, 17-24
Cooperation with industry		
Patents		
Prizes	December 12th 2008, Winner of "Marrama awar buckling-restrained braces for seismic upgrading	d", for the essay "Dissipative of existing buildings"
Languages	Italian English	Fluent



	Francesco Portioli Assistant Professor Department of Structures for Engineering and Architecture University of Naples "Federico II" ITALY	
Contacts	Department of Structures for Engineering and Architecture University of Naples "Federico II" Via Forno Vecchio 36 80134 Naples, Italy Tel.: +39 081 2538916 Fax: e-mail: fportiol@unina.it URL: <u>https://www.docenti.unina.it/portioli</u>	
Degrees	 BSc + MSc Structural Engineering University of Naples "Federico II" 1999 University of Chieti-Pescara "G. d'Annunzio" Assistant Professor Structural Engineering Structural Engineering University of Naples "Federico II" 2006 	
Key Qualifications	 Lecturer in the course of "Structural Engineering" at the University of Naples (BSc); Lecturer in the course of "Integrated Structural Engineering" at the University of Naples (MSc); Lecturer in the course of "Rehabilitation and Maintenance of Buildings" in the Erasmus Mundus Master SUSCOS; Lecturer in the course of "Conservation problems of metallic and reinforced concrete structures" at the University of Naples (MSc); Lecturer in the course of "Integration of innovative technologies in architectural design: Design of structures" at the University of Naples (MSc); Tutor of students for graduation and PhD thesis; Member of Research Units of both National and International research projects: Coordinator (in cooperation) of a reasearch unit within a national project on sesimic assessment of masonry structures. 	
Role within Suscos consortium	Teaching and Academic supervisor	
Research focus	 Computational limit analysis of masonry bock structures Cold-formed, steel structures and innovative connection systems Life cycle engineering and sustainability of structures Seismic vulnerability assessment of historical buildings and retrofitting Riveted connections in steel structures 	



References	Selected references (max. 10)
Description#ISI journal17Non-ISI journal3Conferences80Citations137Book chapters15	 Portioli, F., Casapulla, C., Cascini, L. An efficient solution procedure for crushing failure in 3D limit analysis of masonry block structures with non-associative frictional joints (2015). Int. Journal of Solids and Structures, 69-70, pp. 252-266. Casapulla, C., Portioli, F., Experimental and analytical investigation on the
Books - PhD thesis 1	frictional contact behavior of 3D masonry block assemblages (2015) Construction and Building Materials, 78, pp. 126-143.
	D'Aniello, M., La Manna Ambrosino, G., Portioli, F., Landolfo, R. The influence of out-of-straightness imperfection in physical theory models of bracing members on seismic performance assessment of concentric braced structures (2015) Structural Design of Tall and Special Buildings, 24 (3), pp. 176-197.
	 Cascini, L., Portioli, F., Landolfo, R. Probabilistic time variant assessment of thin-walled steel members under atmospheric corrosion attack (2014) Journal of Civil Engineering and Management, 20 (3), pp. 404-414.
	Portioli, F., Casapulla, C., Gilbert, M., Cascini, L. Limit analysis of 3D masonry block structures with non-associative frictional joints using cone programming (2014) Computers and Structures, 143, pp. 108-121. Cited 6 times.
	 D'Aniello, M., Portioli, F., Landolfo, R. Lap shear tests on hot-driven steel riveted connections strengthened by means of C-FRPs (2014) Composites Part B: Engineering, 59, pp. 140-152. Cited 2 times.
	Portioli, F., Cascini, L., Casapulla, C., D'Aniello, M. Limit analysis of masonry walls by rigid block modelling with cracking units and cohesive joints using linear programming (2013) Engineering Structures, 57, pp. 232-247.
	 D'Aniello, M., La Manna Ambrosino, G., Portioli, F., Landolfo, R. Modelling aspects of the seismic response of steel concentric braced frames (2013) Steel and Composite Structures, 15 (5), pp. 539-566.
	Portioli, F., Mammana, O., Landolfo, R., Mazzolani, F.M., Krstevska, L., Tashkov, L., Gramatikov, K. Seismic retrofitting of mustafa pasha mosque in skopje: Finite element analysis (2011) Journal of Earthquake Engineering, 15 (4), pp. 620-639.
	 D'Aniello, M., Portioli, F., Fiorino, L., Landolfo, R. Experimental investigation on shear behaviour of riveted connections in steel structures (2011) Engineering Structures, 33 (2), pp. 516-531.
Teaching experience	Under-graduate teaching Structural engineering
Description#Years of teaching10PhD supervision5MSc supervision22Lectured subjects3	 Post-graduate teaching MSc EMSc Assement and rehabilitation of masonry structures
International experience	 Involved in the following international research projects: 1) RFCS: "HSS-SERF: High Strength Steel in Seismic Resistant Building



Description Research projects Mobility programmes Technical boards Conference committees Others	# 7 1	 Frames" (2009-2012) 2) RFCS: "DiSteel: "Displacement Based Design of STEEL Moment Resisting Frame Structures", Research Fund for Coal and Steel, contract n. RFSR-CT-2010-00029 3) COST-C26 ""Urban Habitat Constructions under Catastrophic Events" (2006-2010). 4) COST-C25 'Sustainability of constructions: Integrated approach to life-time structural engineering' (2006-2010). 5) RFS2-CT-2013-00016 Large Valorisation on Sustainability of Steel Structures. 6) EU RFCS RFSR-CT 2013-00021 European pre-QUALified steel JOINTS 7) PROHITECH 'Earthquake Protection of Historical Buildings by Reversible Mixed Technologies' (2004-2007).
Cooperation with industry		 Consultant for the local company Ben Vautier s.p.a. for the development of a new cold-formed beam assembled by laser welding (2005-2007)
Patents		
Prizes		
Languages		English Fluent

	Beatrice Faggiano Assistant professor Department of Structures for Engineering and Architecture of the University of Naples Federico II ITALY	
Contacts	Department of Structures for Engineering and Architecture University of Napoli "Federico II" P.le Tecchio 80, 80125, Napoli, Italia	
	Tel.:+39.081.7682447Fax:+39.081 5934792e-mail:faggiano@unina.itURL:https://www.docenti.unina.it/beatrice.faggiano	
Degrees	 BSc+ MSc PhD Assistant Professor Civil Engineering Univ.of Naples Federico II, Italy 	
Key Qualifications	 Lecturer for the course Timber engineering at the University of Naples Federico II Lecturer for the course Advanced design of timber structures of the II Level Master SUSCOS at the University of Naples Federico II Lecturer for the course Theory and design of steel structures at the University of Naples; Lecturer for the course "Glass Engineering", of the II Level Master "Design of Steel", at the University of Naples Federico II.; Member of the Erasmus Commission for the Dept. of Structures for Engineering and Architecture, University of Naples "Federico II" Tutor of the Professor Council of the PhD Course in "Construction Engineering" at the University of Naples; Lecturer within national and international specialist courses Member of CNR (Research National Council) Committees for design, construction and testing of timber structures and for elements made of glass. Member of the organizing and scientific secretariats of International Conferences Involved in several projects both national and international, as participant or task coordinator. 	
Role within Suscos consortium	Teaching and Academic supervisor	
Research focus	 Steel Structures (seismic design, fire design) Submerged floating tunnels Timber structures Vulnerability assessment of historical buildings against exceptional loads. 	
References	Selected references (max. 10)	
Description #	Faggiano B., Marzo A. (2015). A method for the determination of the timber density through the statistical assessment of ND transverse measurements	



ISI journal	7	aimed at in situ mechanical identification of existing timber s	tructures.
Non-ISI	5	CONSTRUCTION AND BUILDING MATERIALS, vol. 101, p. 12	235-1240.
journal		ISSN: 0950-0618, doi: 10.1016/i.conbuildmat.2015.08.088	,
Conferences	103	Beatrice Faggiano Antonio Formisano Federico M Mazzolar	ni (2015)
Citations	34	Population agginatio, Antonio Formisano, Federico M. Mazzolar Robustness of the Vesuvian roofs under the combined overload	and high
Book	3	temporatures due to air fall IOUDNAL OF STRUCTUR	
chapters		temperatures due to air fail. JOURNAL OF STRUCTUR/	AL FIRE
Books	1	ENGINEERING, vol. 6, p. 213-221, ISSN: 2040-2317	
Books	1	 ENGINEERING, vol. 6, p. 213-221, ISSN: 2040-2317 Faggiano B., Fiorino L., Formisano A., Macillo V., Castaldo C., I F.M. (2014). Assessment of the design provisions for steel con bracing frames with reference to Italian and European codes. Th CONSTRUCTION & BUILDING TECHNOLOGY JOURNAL, vol. 8 215, ISSN: 1874-8368 Beatrice Faggiano, Maria Rosaria Grippa, Federico M. Mazzolan The Royal Palace of Naples: diagnosis, assessment and restoration of complex roofing timber structures. ADVANCED MA RESEARCH, vol. 778, p. 831-839, ISSN: 1662-898 10.4028/www.scientific.net/AMR.778.831 Beatrice Faggiano, Maria Rosaria Grippa, Anna Marzo, Fed Mazzolani (2012). The steel collar connector for composite timber floor: conception, analysis and applications. WIAE KONSERWATORSKIE, p. 1493-1502, ISSN: 0860-2395 Beatrice Faggiano, Antonio Formisano, Daniela De Gregorio, Tony Federico M. Mazzolani (2012). The structural behaviour asses Golden Miles Vesuvian villas through a seismic-volcanic quick p WIADOMOśCI KONSERWATORSKIE, p. 807-815, ISSN: 0860-239 Faggiano B., Mazzolani F.M. (2011). Fire after earthquake ro evaluation and design: application to steel structures. CONSTRUCTION, vol. 4, p. 183-187, ISSN: 1867-05 10.1002/stco.201110025 G. Martire, B. Faggiano, F.M. Mazzolani, A. Zollo, T.A. Stabil Seismic analysis of a SFT solution for the Messina Strait PROCEDIA ENGINEERING, vol. 4, p. 303-310, ISSN: 1877-7 10.1016/j.proeng.2010.08.034 Faggiano B., Iervolino I., Magiulo G., Manfredi G., Vanzi I. (200 event analysis of industrial structures behavior during L'Aquila ea PROGETTAZIONE SISMICA, vol. 3, p. 203-208, ISSN: 1973-7432 B. FAGGIANO, G. DE MATTEIS, R. LANDOLFO, F.M. MAZZOLAI Behaviour of aluminium alloy structures under fire. JOURNAL ENGINEERING AND MANAGEMENT, vol. 10, p. 183-190, ISSN: 13 doi: 10.1080/13923730.2004.9636305 	Mazzolani icentric X HE OPEN 3, p. 208- ni (2013). structural TERIALS 35, doi: Merico M. concrete DOMOŚCI De Lucia, sment of rocedure. 5 obustness STEEL 20, doi: e (2010). crossing. 058, doi: 09). Post- irthquake. NI (2004). OF CIVIL 392-3730,
man and the second		- Under verducte to oblight	
experience		Onder-graduate teaching Engineering (Structural engineering Theory and design of steel s Advanced metallic structures)	structures,
Description	#	Post-graduate teaching	
Vesci ipcion	11		
rears of			
teaching		Prid Steel Structures	
PhD	6	Continuous Education Steel Structures	
supervision		Timber Engineering	
MSC		0 0	
supervision			
Lectured	6		
subjects			
	I		
		· · · · · · · · · · · · · · · · · · ·	_
Internationa	al	Member of the organizing committee of the International Committee	onference
experience		"INALCO2016", to be held in Naples, Italy.	
		Member of the organizing committee of the International Co	onference
Dens 1 11		"ELIBOSTEEL 2014" held in Nanles Italy	
Description	#	LUNUSTEEL 2014, Held III Naples, Italy.
Research	25	Member of the organizing committee and scientific secretaria	at of the
		International Conference "Behaviour of Steel Structures in Seism	ic Areas"



projects		(STESSA), 2003 (Naples, Italy), 2006 (Yokohama, Japan), 2009		
Mobility 3		(Philadelphia, USA), 2012 (Santiago, Chile), 2015 (Shanghai, China), 2018		
programmes	4	(Christchurch, New Zealand).		
Technical	4	Member of the organizing committee and scientific secretariat of the		
boards	1.0	International Conference "Earthquake Protection of Historical Buildings by		
Conference	13	Reversible Mixed Technologies" (PROHITECH), I edition, 2009 (Rome, Italy),		
committees		2014 (Antalva Turkev)		
Others		 Member of the organizing committee of the International Conference SHATIS "Structural Health Assessment of timber structures", 2013 (Trento, Italy) 2015 (Wroclaw, Poland). Member of the organizing committee and scientific secretariat of the International Conference COST Action C26 "Urban Habitat Constructions under Catastrophic Events", 2010 (Naples, Italy). Responsible of the task and member of working groups within severa international research projects. 		
Cooperation with industry		Participation in many projects sponsored by CNR, Ministry of Education, Ministry of Public Works, Ministry of Research in Italy, Ministry of foreign affairs, companies, EU.		
Patents				
Prizes				
Languages		Italian English French Fluent		

Ug	Jean-François Demonceau Associate Professor Department ArGEnCo University of Liège BELGIUM ELGIUM		
Contacts	Department ArGEnCo Liège University Quartier Polytech 1 Allée de la découverte, 9, B52/3, 4000 Liège, Belgium Tel.: +32 4 366 93 58 e-mail: jfdemonceau@ulg.ac.be URL: <u>http://www.argenco.ulg.ac.be/accueil.php</u>		
Degrees	Civil EngCivil EngineeringUniv. Liège, Belgium2001MScApplied SciencesUniv. Liège, Belgium2004PhDApplied SciencesUniv. Liège, Belgium2008		
Key Qualifications	 Associate Professor in St eel and Composite Structures at the University of Liège; Co-coordination of severa I R&D proj ects involving partn ers from several European countries Participation to the meetings of the Technical Committee "Connections" (TC10) of the European Convention for Constructional Steelwork (ECCS) Belgian member and vice-chairman of the Technical Committee "Composite structures" (TC11) of the European Convention for Constructional Steelwork (ECCS) Member of the Applied Science Faculty Cou ncil and of the Argen co department Council 		
Role within Suscos consortium	Member of the teaching staff		
Research focus	 Steel and Steel-Concrete Composite Structures (joints robustness stability HSS) 		
ReferencesDescription#Journal24Conferences43Books15	 Selected references (max. 10) Books Design of steel-concrete composite buildings according to Eurocode 4 (in French and Netherlands) R. MAQUOI, R. DEBRUYCKERE, J.F. DEMONCEAU AND L. PYL Book under preparation for InfoSteel, mid 2010. European recommendations for the design of simple joints. J.P. JASPART, J.F. DEMONCEAU, S. RENKIN et M.L. GUILLAUME CECM, Convention Européenne de la Con struction Métallique, N° 126, 2009. International Journals Complete analytical procedure to a ssess the response of a frame submitted to a column loss C. HUVELLE, V. L. HOANG, J.P. JASPART AND J.F. DEMONCEAU Engineering Structures journal, Vol. 86, 2015, 33-42 Experimental and numerical investigations of high-strength steel circular 		

	 N. TONDINI, V. L. HOANG, J.F. DEMONCEAU AND J.M. FRANSSEN Journal of Constructional Steel Research, Vol. 80, 2013, 57-81. Robustness of steel and composite buildings suffering the dynamic loss of a column L. COMELIAU, B. ROSSI, J.F. DEMONCEAU Structural Engineering International journal, 2012, 323-329 Experimental test simulating a col umn loss in comp osite frame J.F. DEMONCEAU AND J.P. JASPART Advanced Steel Construction journal, Vol. 6, 2010, 891-913 Behaviour of single-sid ed composite joints at roo m temperature and in case of fire after an earthquake J.F. DEMONCEAU, F. HANUS, J.P. JASPART AND J.M. FRANSSEN International Journal of Steel Structures (IJOSS), Korea, December 2009, pp. 329-342. Recent developments on composite connections J.F. DEMONCEAU, J.P. JASPART, R. KLINKHAMMER, K. WEYNAND, F. LABORY AND L.G. CAJOT Steel Construction – De sign and Re search Journal, Vol. 1, Se ptember 2008, pp. 71-76 (by invitation). Design of composite sway building frames for global instability. J.F. DEMONCEAU, J.P. JASPART et R. MAQUOI ASCE Journal of Engineering Mechanics, American Society of Civil Engineers, Volume 131, Number 6, June 2005, pp.641-653. Proceedings of Conferences Composite joints in robust building frames J.P. JASPART et J.F. DEMONCEAU "Proceedings of the Intern ational Conference Composite Construction in Steel and Concrete VI", Devil's Thumb Ranch, Colorado, U.S.A., July 20- 24, 2008.
Teaching	

experience		**	
Description Years of teaching	# 5	Steel structures Composite structures Robustness of structures	
MSc supervision	21	Projects	
Lectured subjects	* *	Under-graduate teaching	Steel / Composite Structures
Internationa experience Description Research projects Mobility programmes Technical boards	1 # 20 1 2	 Participation to 20 research profunded at the national or Euror RFCS). Vice-Chairman of the Europ (Composite Constructions) Several teaching mobilities in Europ 	jects in total, mainly at the international level, opean levels (through programs as FP6 o r ean Technical Committee 11 of ECCS urope
Cooperation vindustry	with	Different contacts with various e	enterprises
Languages		French English	Fluent

Ug	Jean-Marc FRANSSEN Full Professor Department ArGEnCo University of Liège BELGIUM	
Contacts	Department ArGEnCo Liège University Quartier Polytech 1 Allée de la Découverte 9 B-4000 LIEGE 1 (Belgium) Tel.: +32 4 366 92 65 e-mail: jm.franssen@ulg.ac.be URL: <u>http://www.argenco.ulg.ac.be/accueil.php</u>	
Degrees	 Civil Eng Civil Engineering PhD Applied Sciences Aggregation Applied Sciences Univ. Liège, Belgium 1987 Univ. Liège, Belgium 1997 	
Key Qualifications	 Professor of Fire Engineering at the University of Liège; Vice President of ISIB Asbl, Institut de Sécurité In cendie - Instituut voor Brandveiligheid Member of the « Conseil Supérieur de Sécurité contre l'Ince ndie et les Explosions » of the Ministry of Interior (Belgium) Subrogate member of the « Commission de Dérogation » of the Ministry of Interior, Belgium Member of « Conseil Scientifique él argi du G.I.S. (Groupem ent d'Intérêt Scientifique) LIRGeC «<i>Institut Ligérien de Recherche en Génie Civil et Construction</i>» des Pays de Loire », France Member of the Scientific COmitteeof the testin g equipment <i>VULCAIN</i> in <i>Conseil Scientifique et Technique du bâtiment CSTB</i>, France Member of t he Administration Board of CERIB, « Centre d'Etudes et de Recherches de l'Industrie du Béton », France Project Team Leader of the Team « Horizontal Group Fire », CEN mandate 	
Role within Suscos consortium	Member of the teaching staff	
Research focus	 Fire safety Engineering Timber structures 	
ReferencesDescription#Peer97reviewed-journal-Conferences140	 Selected references (max. 10) Books Franssen, JM., Kodur, V., & Zaharia, R. (20 09). Designing Steel Structures for Fire Safety. Leiden, The Netherlands: Taylor & Francis Franssen, JM., & Vila Real, P. (201 0). Fire Design of Steel Structures : Eurocode 1: Actions on structures. Part 1-2: Actions on structures exposed 	

Book 11 chapters 13	 to Tire: Euro code 3: De sign of steel st ructures: Part 1-2: Struct ural fire design. Berlin, Germany: Ernst & Sohn. Schneider, U., Fran ssen, JM., & Lebed a, C. (20 08). Baulicher Brandschutz (2nd edition). Berlin, Germany: Bauwerk Verlag, GmbH. Book Chapters Franssen, JM., & Iwankiw, N. (2 009). Structural Fire Engine ering of Building Assemblies and Frames. In P. J., DiNenn o, D., Drysdale, C. L., Beyler, W. D., Walton, R. L. P., Cust er, J. R., Hall, & J. M., Watts, The SFPE Handbook of Fire Protection Engineering (Fourth Edition). Quincy, Massachusetts, USA: National Fire Protection Ass. Ed. International Journals Franssen, JM. (1990). The unloading of building materials submitted to fire. <i>Fire Safety Journal</i>, <i>3</i>, 213-227. Franssen, JM. (2005). SAFIR: A thermal/structural program for modeling structures under fire. <i>Engineering Journal - American Institute of Steel Construction Inc</i>, <i>42</i>(3), 143-158. Franssen, JM., Talamona, D., Kruppa, J., & Cajot, LG. (1998). Stability of Steel Columns in Case of Fire : Experimental evaluation. <i>Journal of Structural Engineering</i>, <i>124</i>(2), 158-163. Cadorin, JF., & Franssen, JM. (2003). A tool to design steel elements submitted to compartment fire model. <i>Fire Safety Journal</i>, <i>38</i>(5), 395-427. 	
Teaching experienceDescription#Years of teaching8teaching9PhD5supervision8MSc?supervision1Lectured**subjects**	 Fire engineering Timber construction Structural mechanics Conceptual design of structures Under-graduate teaching Post-graduate teaching MSc MSc Timber construction, Fire engineering, Conceptual design of structures PhD Fire engineering Continous Education Fire engineering In addition: Mastère complémentaire en Ingénierie de la Sécurité Incendie, ISMANS, Le Mans, France: 45 hours yearly Design of conrete structures subjected to fire, Ecole des Mines d'Alès, Alès, France, 6 hours yearly 	
International experienceDescription#Research projects20+Ph. D jury33Conference committees29Others*	 More than 20 international research projects in total; (throug h programs as RFCS). * See "key qualifications" and teaching experience" before 	
Cooperation with	70 commerical licences of our software SAFIR [®] sold aroun the world.	

industry	Many consultancy reports written	
Prizes	 Prix Scientifique de l'Association des Ingénieurs sortis de Liège, 1983 Prix Annuel FERDINAND DE WAELE du Fonds National de la Recherche Scientifique, 1988 Prix International MAGNEL du Bureau SECO, biennale 1986-1988 	
Languages	 French English German 	Fluent Beginner

		Carlos Alberto da Silva Rebelo Assistant Professor Department of Civil Engineering of the University of Coimbra PORTUGAL		
Contacts		Departamento de Engenharia Civil Universidade de Coimbra Polo II – Pinhal de Marrocos 3030-788 Coimbra, Portugal Tel.: +351 239 797209 Fax: +351 239 797123 e-mail: <u>crebelo@dec.uc.pt</u> URL: www.dec.uc.pt		
Degrees		 BSc MSc PhD Civil Engineering Structural Engineering Structural Engineering Civil Engineering Univ.Coimbra, PT Technical Univ. Lisbon, PT 1985 Technical Univ. Karlsruhe, D 1992 		
Key Qualifications	5	 Assistant Professor of Structural Dynamics at the University of Coimbra; Project Coordinator of R&D European projects. 		
Research focus		 Structural Dynamics Structural Health Monitoring Seismic Behavior of Steel and Composite Structures 		
References Description ISI journal Non-ISI journal Conferences Books Book chapters Book Edition Theses and Dissertations Scientific&Technical reports Other publications	# 29 16 135 1 4 1 2 64 25	 Selected references Rigueiro, C., Rebelo, C., Simões da Silva, L. Influence of ballast models In the Dynamic response of Railway viaducts, Journal of Sound and Vibration 329 (2010) 3030–3040. Rebelo C., Veljkovic M., Matos R. and Simões da Silva L. "Structural Monitoring of a Wind Turbine Steel Tower – Part II: monitoring results, Wind and Structures", Vol.15 No.4, 2012. de Jesus A., Matos R., Fontoura B., Rebelo C., Simões da Silva L. and Veljkovic M. "A comparison of the fatigue behavior between S355 and S690 steel grades", Journal of Constructional Steel Research 79 (2012) 140–150 Rebelo, C., Moura, A., Gervásio, H., Veljkovic, M. and Simões da Silva, L., "Comparative life-cycle assessment of tubular wind towers and foundations. Part 1 – Structural design", Engineering Structures 74 (2014) 283–291, DOI: 10.1016/j.engstruct.2014.02.040 Tenchini A, D'Aniello M, Rebelo C, Landolfo R, Simões da Silva L, Lima L. "Seismic performance of dual-steel moment frames" Journal of Constructional Steel Research 101 (2014) 437–454 DOI: 10.1016/j.jcsr.2014.06.007 Marko Pavlović, Christine Heistermann, Milan Veljković, Daniel Pak, Markus Feldmann,Carlos Rebelo, Luis Simões da Silva, "Connections in towers for wind converters, Part II: The friction connection behaviour" Journal of Constructional Steel Research, May 2015, DOI: 10.1016/j.jcsr.2015.05.009 Anh Tuan Tran, Milan Veljkovic, Carlos Rebelo, Luis Simões da Silva, "Resistance of cold-formed high strength steel circular and polygonal sections — Part 1: Experimental investigations", Journal of Constructional Steel Research, Available online 24 October 2015, doi:10.1016/j.jcsr.2015.10.014 		

Technical boards 2 Pest-graduate teaching Structural Dynamics Seismic Design Footbridges and Railway bridge Description Bit Structural Dynamics Seismic Design Footbridges and Railway bridge Description Bit Structural Dynamics Seismic Design Footbridges and Railway bridge Description MSC thesis 2 Continous Education Seismic Design International Selected Research Projects (Total Budget: 9900x10° €; Financed amount: 4740x10° €) "HISTWIN-High strength steel tower for wind turbines" Financia Conference 10 Mobility 2 programmes 3 Technical boards 2 2 "HISTWIN-High strength steel tower for wind turbines" Financia Conference 14 ormmittees 3 Technical boards 2 * "PortDegal program (since 2007)." "AFFORDABLE HOUSES -Low cost residential houses " fina ArcelorMittal, Luxembourg, 01/01/2009 to 31/12/2009. Objectives: Iow cost single family residential houses using cold-formed solutions; Portugal; AG der Dillinger Hütt	Description	e teaching Civil Engineering (Strand and Earthquake engin Concrete, Mechanics Analysis)	nce Under-gra	ering (Structural Dynamics ake engineering, Structural echanics of Materials, Risk
International 0 If Not graduate cooling MSc supervision 30 If Not graduate cooling MSc supervision 5 Structural Dynamics Seismic Design Footbridges and Railway bridge Design of Support structures 1 Energy Converters International Seismic Design Post-graduate supervision Seismic Design MSc thesis 25 concluded 5 ongoing PhD thesis 2 concluded 5 ongoing PhD thesis 2 concluded, 6 ongoing International Selected Research Projects (Total Budget: 9900x10° €; Financed amount: 4740x10° €) "HISTWIN-High strength steel tower for wind turbines" Financia Conference 10 "HISTWIN-High strength steel tower for wind turbines" Financia Mobility 2 "HISTWIN-High strength steel tower for wind turbines" Financia Conference 14 "HISTWIN-High strength steel tower for wind turbines" Financia Committees 2 "HISTWIN-High strength steel tower for wind turbines" Financia Conference 14 "HISTWIN 2 - HIGH (Germanischer LUOyds)", Finance 4 amount: 4740x10° €) Technical boards 2 "HISTWIN 2 - HIGH (Germanischer LUOyds), Finance 4 amount: 4740x10° €)	PhD supervision	reaching	8 D Post-grad	
Lectured subjects 5 Lectured subjects 5 Lectured subjects 5 Structural Dynamics Seismic Design of Support structures therery Converters Image: Converter Structures Image: Converter Structures Image: Converter Structures Seismic Design of Support structures therery Converters Image: Converter Structures Image: Converter Structures Image: Converter Structures Post-graduate supervision Image: Converter Structures Selected Research Projects Image: Converter Structures Concluded 5 ongoing Post-graduate supervision Image: Converter Structures Image: Converter Structures Concluded 5 ongoing Post-graduate supervision Image: Converter Structures Image: Converter Structures Concluded 5 ongoing Post-graduate supervision Image: Converter Structures Image: Converter Structures Converter Structures Image: Converter Structures <td< td=""><td>MSc supervision</td><td>> / PhD</td><td>30 a 1 03t-grad</td><td></td></td<>	MSc supervision	> / PhD	30 a 1 03t-grad	
Continous Education Seismic Design Footbridges and Railway bridge Design of Support structures 1 Energy Converters Post-graduate supervision MSc thesis 25 concluded 5 ongoing PhD thesis 2 concluded, 6 ongoing PhD thesis Selected Research Projects (Total Budget: 9900x10 ³ €; Financed amount: 4740x10 ³ €) "HISTWIN-High strength steel tower for wind turbines" Financia comissão Europeia – RFSR-CT-2006-00031 (1/7/2006-31/6/2009); F TU Lulea, Sweden; Partner Institutions: Univ. Coimbra, Portuga, Acchen, Germany; Univ. Thessaloniki, Greece; Repower Portugal, F Ravatarukki, Finland; Germanischer Loyds, Germany. RiSK - Assessment and Management for High-Speed Rail 5 MITPortugal program (since 2007). "AFFORDABLE HOUSES -Low cost residential houses " fina ArcelorMittal, Luxembourg, 01/01/2009 to 31/06/2012; "SBRI - "Sustainable Steel and Composite Bridges in built envir Partner Institutions: Univ Stuttgart, Germany; S Belgium; Finland; Portugal; NCOP9 a 30/06/2012; "SBRI - "Sustainable Steel and Composite Bridges in built envir Partner Institutions: Univ Stuttgart, Germany; Coordenador); Portugal; SETRA - Service d'Etudes Techniques des Re Autoroutes; BAST, Germany. Period: 01/07/2009 to 30/06/2012. "HISTWIN 2 - High steel tubular towers for wind turbines"; Partnu Lulea, Sweden; 1-7-2010 to 31-6-2013. Partner Institutions: Univ Cordenador); Brisa, Portugal; SETRA - Service d'Etudes Techniques des Re Autoroutes; BAST, Germany. Period: 01/07/2009 to 30/06/2012. "HISTWIN 2 - High steel tubular towers for wind turbines"; Partnus Lulea, Sweden; 1-7-2010 to 31-6-2013. Partner Institutions: Univ. C Portugal; VIN 2 - High steel tubular towers for wind turbines"; Partnus Lulea, Sweden; 1-7-2010 to 31-6-2013. Partner Institutions: Univ. C Portugal; Univ. Aachen, Germany; Univ. Thessaloniki, Greece; Energia Portugal, Portugal; Portugal; Portugal; Portugal; CPR, Italy; CPR, Italy; CPR, Italy;	Lectured subjects	Structural Dynamics Seismic Design Footbridges and Railw Design of Support str Energy Converters	5	namics gn and Railway bridges upport structures for Wind erters
Seismic Design Seismic Design Footbridges and Railway bridge Design of Support structures 1 Energy Converters MSc thesis 25 concluded 5 ongoing PhD thesis 2 concluded, 6 ongoing Phothesis 2 concluded, 6 ongoing Phothesis Phothesis Phothesis Phothesis Phothesis Phothesis Phothesis Phothesis		tinous Education		
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 EU - COST C25 - "Sustainability of constructions - integrated app life-time structural engineering" Financing Institution: European Coor in the field of Scientific and Technical Research (COST) Partre european countries, 2006-2010 EU - COST C26 - "Urban habitat constructions under catastrophic Financing Institution: European Cooperation in the field of Scient Technical Research (COST) Partners: 20 european countries, 2006-2010 	Description Research projects Mobility programmes Technical boards Conference committees Technical boards	h strength steel tower for wind turbines" peia – RFSR-CT-2006-00031 (1/7/2006-31/0 eden; Partner Institutions: Univ. Coimbra any; Univ. Thessaloniki, Greece; Repower F land; Germanischer Lloyds, Germany. ssment and Management for High-Speer ogram (since 2007). E HOUSES –Low cost residential house uxembourg, 01/01/2009 to 31/12/2009. Ob family residential houses using cold-formed s Steel in Seismic Resistant Building Fran- 0-0024, Partners: Romania Italy; Ger d; Portugal; 01/07/2009 a 30/06/2012; ainable Steel and Composite Bridges in b tions: Univ Stuttgart, Germany (coorde er Dillinger Hüttenwerke; ArcelorMittal, Luxe tionale de Ponts et Chaussées, France; F I; SETRA - Service d'Etudes Techniques ST, Germany. Period: 01/07/2009 to 30/06/2 High steel tubular towers for wind turbine ; 1-7-2010 to 31-6-2013. Partner Institution: . Aachen, Germany; Univ. Thessaloniki, gal, Portugal; Rautarukki, Finland; Germ y Building Services Oy, Sweden; Displacement Based Seismic Design of time Structures" Partner Institutions: University of Naples, Italy; CPR, Italy; cmr od: 01/07/2010 a 30/06/2013. s: 25 - "Sustainability of constructions - integr tral engineering" Financing Institution: Europ Scientific and Technical Research (COS tries, 2006-2010 26 - "Urban habitat constructions under cata tution: European Cooperation in the field earch (COST) Partners: 20 european countrie	 # "HISTWII Comissão TU Lulea Aachen, 0 Rautaruki 3 14 RISK - MITPortugi "AFFORI ArcelorMi low cost s High Stre RFSR-CT Belgium; "SBRI - Partner Portugal; Laboratoi Brisa, Por Autoroute "HISTWIN Lulea, Sw Portugal; Energia Germany; "DISTEEL Resisting (coordena Romania. Mobility P EU - CO life-time s in the fie european EU - COS Financing Technical 	turbines" Financiado pela '2006-31/6/2009); Partners: Coimbra, Portugal; Univ. epower Portugal, Portugal; iny. ligh-Speed Rail Systems, tial houses " finance by '2009. Objectives: Develop d-formed solutions. ding Frames (HSS-SERF) aly; Germany; Slovenia;)12; dges in built environment" (coordenador); FCTUC, littal, Luxembourg; LNPC – France; Ramboll, Sweden; echniques des Routes et to 30/06/2012. nd turbines"; Partners: TU Institutions: Univ. Coimbra, saloniki, Greece; Martifer nd; Germanischer Lloyds, esign of STEEL Moment tutions: Eucentre, Italy; Italy; cmm, Portugal; Britt, ns - integrated approach to ion: European Cooperation arch (COST) Partners: 25 under catastrophic events", the field of Scientific and an countries, 2006-210

Cooperation with	More than 30 projects mostly with national industry in total amount about
industry	200x10 ³ €



	Aldina Maria da Cruz Santiago Assistant Professor Department of Civil Engineering of the University of Coimbra PORTUGAL		
Contacts	Departamento de Engenharia Civil Universidade de Coimbra Polo II – Pinhal de Marrocos 3030-788 Coimbra, Portugal Tel.: +351 239 797216 Fax: +351 239 797217 e-mail: <u>aldina@@dec.uc.pt</u> URL: www.dec.uc.pt		
Degrees	BScCivil EngineeringUniv of Beira Interior, Portugal1996MScStructural Steel DesignUniv. of Coimbra, Portugal2000PhDStructural Steel DesignUniv. of Coimbra, Portugal2008		
Key Qualifications	 Professor of Steel and Composite Structures / Fire Design of Steel Structures / Mechanic of Materials at the University of Coimbra; Project Coordinator of several R&D projects involving partners from several European countries. Coordination of Master and Doctoral Courses: Steel and Composite Construction at University Coimbra 		
Role within Suscos consortium	 Responsible for the management of the project; Academic supervisor; Coordination of Master and Doctoral Courses. 		
Research focus	Steel Structures (joints fire stability). Impact loading		
Description#ISI journal25Non-ISI journal4Conferences57Citations200Book chapters1Books0Books editions1	 Selected references (max. 10) Latour M., Rizzano G., Santiago A. and Simões da Silva L., "Experimental analysis and mechanical modeling of T-stubs with four bolts per row". <i>Journal of Constructional Steel Research</i>, 101, pp. 158–174, 2014. Barata P., Ribeiro J., Simões Rigueiro C., Santiago A., Rodrigues J-P., "Assessment of T-stub joint component at ambient and elevated temperatures". <i>Fire Safety Journal</i>, 70, pp. 1–13, 2014. Lopes F.C., Santiago A., Simões da Silva L., Iqbal I., Veljkovic, M. and da Silva J.G.S., "Sub-frames with reverse channel connections to CFT composite columns – experimental evaluation", <i>International Journal of Advanced Steel Construction</i>, 11 (1), pp. 111-126, 2015. Ribeiro J., Santiago A., Rigueiro C. and Simões da Silva, L., "An analytical model for the response of t-stub component under impact loading". <i>Journal of Constructional Steel Research</i>, 106, pp. 23-34, 2015. Ferraz G., Santiago A., Rodrigues J. P. and Barata, P., "Thermal analysis of hollow steel columns exposed to localised fires". <i>Fire Technology</i>, 51 (2). 2015. Heistermann T., Koltasakis E., Veljkovic M., Lopes F., Santiago A. and Simões da Silva L., "Initial Stiffness Evaluation of Reverse Channel Connections in Tensio and Compression". <i>Journal of Constructional Steel Research</i>, 114, pp. 119-128, 2015. Iqbal, N., Heisterman, T., Veljkovic, M., Lopes, F., Santiago, A., Simões da Silva, L., "Numerical study of steel beams in sub-frame assembly - Validation of Existing Hand Calculation Procedures", <i>Journal of Structural Fire Engineering</i>, 6(2), pp. 123-140, 2015. Craveiro H., Rodrigues, J.P., Santiago, A., Laim, L., "Review of the high temperature mechanical and thermal properties of the steels used in cold formed steel 		



		 2015. Ribeiro J., Santiago A., Rigueiro C. Barata P. and Veljkovic, M., "Numerical assessment of t-stub component subject to impact loading". <i>Engineering of Structures</i>, 106, pp. 450-460, 2016. Marques L., Simões da Silva L., Rebelo C. and Santiago A., "Extension of EC3-1-1 interaction formulae for the stability verification of tapered beam-columns". <i>Journal of Constructional Steel Research</i>, 100, pp. 122-135, 2014
Teaching experiesDescriptionYears of teachingPhD supervisionMSc supervisionLectured subjects	** 19 2 10 5	 Under-graduate teaching Post-graduate teaching MSc Steel Structures / Fire Safety PhD Steel Structures / Fire Safety Continous Education Steel Structures / Fire Safety
International experience Description Research projects Mobility programmes Technical boards Conference committees	# 14 2 0 8	 Coordination of projects: COMPFIRE – "Economical and safe design of steel joints under the natural fire". Ref^a: RFCS - RFSR-CT-2009-00021; Participant Institutions: DEC, Univ. Coimbra, Portugal (coordination); Univ. Manchester, UK; TU Lullea, Sweden; Univ. Sheffield, UK; TU Prague, Czech Republic; Desmo, Czech Republic; Corus Tubes, UK;. Responsable Researchers – Luís Simões da Silva and Aldina Santiago. Total Budget: 1.800.874,00€. UC Budget: 178.428,00€. IMPACTFIRE - "Robust Connections for Impact and Fire Loading"; Ref^a: PTDC/ECM/110807/2009 – Participant Institutions: DEC, University of Coimbra, Portugal (coordination); SOCOMETAL, Portugal; LTU, Sweden; Responsable Researchers – Aldina Santiago. Total Budget: 183.599,00€. UC Budget: 161.599,00€. ROBUSTFIRE – "Robustness of car parks against localised fire"; Ref^a: RFSR-CT- 2008-00036. Participant Institutions: Univ. Liège, Belgium (coordination); Imperial College, UK; DEC, University of Coimbra, Portugal; ArcelorMittal, Luxembourg; CSTB, France; Greisch Ingenierie, Belgium; CTICM, France. Responsable Researchers UC – Luís Simões da Silva and Aldina Santiago. Total Budget: 1.266.395,00€. UC Budget: 150.000,00€. FREEDAM – "Free from damage steel connections"; Ref^a: RFSR-CT-2015-00022. Participant Institutions: Univ. of Salerno, Italy (coordination); University of Liège, Belgium; University of Naples, Italy; University of Coimbra, Portugal; FIP Industriale Spa, Italy; OFeliz, Portugal. Responsable Researchers UC – Luís Simões da Silva and Aldina Santiago. Total Budget: 1.249.860,00€. UC Budget: 251.812,00€.
Coop. with indus	stry	 Fire Tests on Gypsum boards for the company Gyptec, Lda, Portugal, 2009, €: 7500€. Análise e desenvolvimento de soluções construtivas para módulos destinados a um sistema modular – Projecto de Segurança contra incêndios, OPWAY Novas Tecnologias", FCTUC, Julho 2011.

- Avaliação experimental da resistência ao fogo de uma madre enformada a frio, do tipo MadreMax Ω250x2^{*}, Constálica S.A., FCTUC, Agosto 2011.
- Parecer Técnico sobre a Viabilidade de Aplicação de Fachadas revestidas com painéis compósitos de comportamento melhorado ao fogo na Torre Kanhagulo, Angola", Martifer Alumínios, FCTUC, Janeiro 2012
- Prizes
 Nominated for best work published in Portuguese language by APEE Ferry Borges Award 2006: Santiago, A., Simões da Silva, L. and Vila Real, P., "Avaliação numérica do comportamento de ligações metálicas em situação de incêndio", in A. Lamas, Martins, C., Abecasis e L. Calado (eds), CMM V, pp. II 497- II 507, Lisboa, 2005.
 Nominated for the best work published in foreign language by APEE – Ferry Borges Award 2008: Wald, F., Simões da Silva, L., Moore, D.B., Lennon, T., Chladná, M., Santiago, A., Beneš, M. e Borges, L. "Experimental Behaviour of



	Steel Structure under Natura	l Fire", Fire Safety Journal 41(7), pp. 509-522, 2006.
Languages	Portuguese English	Fluent