

PERSONAL INFORMATION

Aurel Stratan



 str. Ioan Curea nr.1, 300224 Timișoara (Romania)

 +40 256 403 923  +40 746 161 762

 aurel.stratan@upt.ro

 <http://www.ct.upt.ro/users/AurelStratan/index.htm>

 Skype aurel.stratan

POSITION

Associate professor, Politehnica University of Timisoara

WORK EXPERIENCE

2008–Present

Associate professor

Politehnica University of Timisoara

Lectures: Structural Dynamics and Earthquake Engineering (undergraduate); Basis of Structural Design (undergraduate); Performance Based Seismic Design (master); Seismic Assessment and Retrofit of Existing Buildings (master). Project: Steel Structures (undergraduate).

2005–2008

Lecturer

Politehnica University of Timisoara, (Romania)

1997–2008

Structural engineer (part-time)

SC BRITT SRL, Timisoara (Romania)

2006

Invited researcher

VTT – Technical Research Centre of Finland, Espoo (Finland)

Course "Characterization of seismic action: an engineer's view" (1-8 september)

10/2001–12/2002

Research stage

University of Ljubljana, (Slovenia)

European project SAFERR - Safety Assessment for Earthquake Risk Reduction

1999

Two research stages

University of Naples "Federico II", Naples (Italy)

Research project Copernicus "RECOS" - Reliability of Moment Resistant Connections of Steel Building Frames in Seismic Areas

EDUCATION AND TRAINING

10/11/2010–12/11/2010

Preparatory course on pseudodynamic experimental testing

European Laboratory for Structural Assessment (ELSA), JRC, Ispra (Italy)

1997–2003

PhD in Civil Engineering

Politehnica University of Timisoara, Romania

18/10/1999–22/10/1999

Course "Seismic resistant steel structures. Progress and challenge"

International Centre for Mechanical Sciences, Udine (Italy)

1992–1997

BSc in Civil Engineering

Politehnica University of Timisoara, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
Russian	C2	C2	B1	B1	B2
Italian	B1	B1	B1	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

Teamwork capability gained through my experience within research projects; capability to adapt to multicultural environments, gained during international research stages; communication skills gained during teaching experience.

Organisational / managerial skills

Project and team management experience, gained within national and international research projects as coordinator.

Job-related skills

Seismic-resistant design of steel and composite structures; Modelling of nonlinear response of steel and reinforced concrete structures; Seismic performance assessment of steel and reinforced concrete structures; Experimental techniques; Computer-aided design.

Computer skills

Microst Office, SAP2000, ETABS, Drain2DX, Drain3DX, Seismostruct, OpenSees, AutoCAD, Tekla Structures, Matlab, etc.

ADDITIONAL INFORMATION

Member in professional organisations

Technical committee TC13 "Seismic Design" of the European Convention for Constructional Steelwork (ECCS) - member and technical secretary.

CEN/TC 250/SC 8 "Eurocode 8: Earthquake resistance design of structures", European Committee for Standardization (CEN).

CEN/TC 340/WG 5 "Revision of EN 15129 – Anti-seismic devices", European Committee for Standardization (CEN).

Technical committee ASRO/CT 343 "Basis of Design and Structural Eurocodes", Romanian Standards Association (ASRO).

Technical committee CTS4 "Actions on constructions", Ministry of Regional Development and Public Administration (MDRAP).

AICPS - Romanian Association of Structural Engineers

AGIR-SBIS - Romanian Association of Engineers, Banat Seismic Society

APCMR - Romanian Association of Steelwork Producers

Honours and awards

2008: 1st prize at the contest "Technical Book 2008" for the book "Structural dynamisc and earthquake engineering (in Romanian)" awarded by the GeneralAssociation of Engineers from Romania (AGIR), Timis branch.

2007: "ECCS European Award for Steel Structures 2007" for the design of the Tower Center International building (D. Dubina, F. Dinu, A. Stratan, A. Ciutina).

2007: 1st prize of the Romanian Association of Structural Engineering (AICPS) for the design of the Tower Center International building (D. Dubina, F. Dinu, A. Stratan, A. Ciutina).

2004: "Best Paper Award – ICTWS'04", for the paper "Monotonic and cyclic performance of joints of cold formed steel portal frames", by D. Dubina, A. Stratan, A. Ciutina, L. Fulop & Zs. Nagy.

2004: Honour of the GeneralAssociation of Engineers from Romania (AGIR) for the book "Buildings in high-seismicity areas (in Romanian)". Coordinators: Dubina, D. și Lungu, D.; authors: Aldea, A., Arion, C., Ciutina, A., Comea, T., Dinu, F., Fülöp, L., Grecea, D., Stratan, A., Văcăreanu, R.

2003: "ECCS European Award for Steel Structures 2003" for the design of the building Banc Post Timisoara (D. Dubina, F. Dinu, A. Stratan, A. Ciutina).

Publications

Papers in journals and conference proceedings indexed by ISI Thomson Reuters: 22 (8 / 14)

Papers in journals and conference proceedings indexed by other international databases: 41 (13 / 28)

Books / book chapters / research reports: 13 (2 / 6 / 5)

Citations excluding self-citations (SCOPUS): 48

Selective list of publications:

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.

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 Engng 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.

Stratan, A., Fajfar, P., (2002). "Influence of modelling assumptions and analysis procedure on the seismic evaluation of reinforced concrete GLD frames". IKPIR Report, University of Ljubljana, 131 p., <http://www.ikpir.com/projects/spear/>

Research projects

International research projects obtained through competition: 9 (1 as coordinator; 8 as member in the research team).

National research projects obtained through competition: 23 (4 as coordinator; 19 as member in the research team).

Research contracts: 11 (3 as coordinator; 8 as member in the research team).

Selective list of research projects and contracts:

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.

RFSR-CT-2009-00024 (2009-2013). "High Strength Steel in Seismic Resistant Building Frames (HSS-SERF)", Research Fund for Coal and Steel.

IC15-CT96-0201 / 1997 (1997-1999). "Reliability of Moment Resistant Connections of Steel Building Frames in Seismic Areas", European Project Copernicus "RECOS".

RFSR-CT-2013-00021 (2013-2016). "European pre-QUALified steel JOINTS (EQUALJOINTS)" Research Fund for Coal and Steel.

CEEX MATNANTECH 29/2005 (2005-2008). "Structural systems and advanced technologies for structures from high-performance steel located in seismic areas (STOPRISC)", Romanian Ministry of Education and Research.

Code drafting activity (selective list)

P100-1/2013. "Seismic design code – Part I – Design rules for buildings (in Romanian)". Volume I and II. The Official Journal of Romania, no. 558 bis/2013. Undertaken work included elaboration of the revised version of chapter 6 of the code (Design of steel structures), as well development of corresponding commentaries and design examples.

"Global analysis of steel structures according to SR EN 1993-1-1 and SR EN 1998-1: recommendations, comments and application examples (in Romanian)".

Development of Romanian versions of EN 1993-1-5, EN 1993-1-10 and EN 1993-1-12.

Member in the drafting team of national annexes to EN 1993-1-5, EN 1993-1-10, EN 1993-1-12 and EN 1998-1.

GP 082-03. "Design guide for ductile connections of steel structures in seismic areas (in Romanian)". Bul. Constr. Vol. 16, 2004, p. 3-58.

Structural Design (selective list)

Bucharest Tower Center, bdul Ion Mihalache nr. 15-17, Sector 1, Bucharest. The building has three basement levels, 26 floors and a total height of 106.3 m.

LINDAB Administrative Building, Soseaua de Centură no. 8, Stefanestii de Jos, Ilfov. Three storey composite steel-concrete structure.

Banc Post Timisoara Headquarters, B-dul Mihai Eminescu nr.2/A, Timisoara. Four storey steel structure.