



## LIST OF PUBLICATIONS (2015)

### Papers in Journals and Conference Proceedings with peer-reviewing system

#### Papers in refereed journals

- **Anastasiadis A.**, Mosoarca M., Gioncu V. (2015): Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism. *Bulletin of Earthquake Engineering*, 13:1377-1403, DOI 10.1007/s10518-014-9665-2.
- Petrus C., Stoian V., Mosoarca M. , **Anastasiadis A.**, (2015): Reinforced Concrete Frames with Masonry Infills. Out of Plane Experimental Investigation. *Acta Technica Napocensis: Civil Engineering & Architecture*. Accepted for publication in vol. 58 number 3.
- Gioncu V., Mosoarca M., **Anastasiadis A.**, (2014): Local ductility of steel elements under near-field loading. *Journal of Constructional Steel Research*, Elsevier, Vol. 101, 33-52.
- Gioncu V., **Anastasiadis A.**, (2014): Plastic coupled Instabilities in wide-flange steel beams. *Thin-Walled Structures*, Elsevier, Vol 81, 67-77.
- Mosoarca M., **Anastasiadis A.**, Kambouris A. (2014): Are free-form architectures ecological buildings. *Journal of Environmental Protection and Ecology*. Vol. 14, no 1, paper 366.
- Kampouris A, **Anastasiadis A.**, Mosoarca M, (2013): Environmental impact assessment and evaluation of road construction works in forest ecosystems. *Journal of Environmental Protection and Ecology*, BENA Journal. Vol. 14, no. 2, pp. 744-753.
- **Anastasiadis A.**, Mosoarca M., Gioncu V. (2012) Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications. *J of Const Steel Res* 2012; 68: 176-191.
- Gioncu V., Mosoarca M., **Anastasiadis A.** (2012) Prediction of available rotation capacity and ductility of wide-flange beams: Part 1: DUCTROT-M computer program. *J of Const Steel Res* 2012; 69:8-19.
- **Anastasiadis A.** (2002): Evaluation of the behaviour of steel structures in the Northridge earthquake. Correlation with the Greek earthquake design. *Scientific Edition of KTIRIO journal*, A/2002, pp. 49-59, (in Greek).
- **Anastasiadis A.** (1999): Ductility design of steel moment resistant frames. *Scientific Edition of KTIRIO journal*, A/199, pp. 35-40, (in Greek).

#### Papers in refereed International conference proceedings

- **Anastasiadis A.**, Mosoarca M., Pietrus C., Mazzolani FM, (2015): Some thoughts for the prediction of the local inelastic capacity of MRF subjected to seismic actions. Paper No 45. Submitted to 8<sup>th</sup> STESSA Conference on Behaviour of Steel Structures in Seismic Areas. Tongji University, July 2015, China, 1443-1450.
- G.C. Manos, A. Nalmpantidou, V. Kourtidis, **A. Anastasiadis**, (2015): Cyclic response of a steel beam-to-column connections – an experimental and numerical study. *COMPADYN 2015 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering* M. Papadrakakis, V. Papadopoulos, V. Plevris (eds.), Crete Island, Greece, 25–27 May 2015, CD, paper C791.

- Mosoarca M., **Anastasiadis A.**, Petrus C. (2014): Structural analysis of Synagogues from Timisoara, Romania. 9<sup>th</sup> International Conference on Structural Analysis of Historical Constructions. SACH 2014, Mexico City, 14-17 October 2014. CD, topic 11, fullpaper 001.
- **Anastasiadis A.**, Voghiatzis T., Sachpazis C. (2014): Trends and needs for the prediction of the inelastic capacity of steel members considering the differences in seismic loading conditions. 8<sup>th</sup> National Conference of Steel Structures. Tripoli, 3-5 October, Greece. CD, P021.
- Mosoarca M., Gioncu V., **Anastasiadis A.**, Petrus C., (2014): Consolidation of Historic Wood churches from Banat seismic region, Romania. Proceedings of the 2<sup>nd</sup> International Conference on Protection of Historical Constructions, PROHITECH-2014, Antalya, Turkey, 681-687.
- Mosoarca M., Gioncu V., **Anastasiadis A.**, Petrus C., (2014): Seismic failure modes developed by Romanian Orthodox Churches. Proceedings of the 2<sup>nd</sup> International Conference on Protection of Historical Constructions, PROHITECH-2014, Antalya, Turkey, 837-842.
- **Anastasiadis A.**, Mosoarca M., Mazzolani FM (2014): Cyclic and Strain rate ductility of steel beams. 7<sup>th</sup> European Conference on Steel and Composite Structures. Napoli, Italy, CD, 09-01, paper 534.
- Mosoarca M., Petrus C, Stoian V., **Anastasiadis A.**, (2014): Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat region, Romania. 9<sup>th</sup> International Masonry Conference. Guimaraes, Portugal. CD, Masonry Infills and Earthquake, MIE 06.
- Gioncu V., Mosoarca M., **Anastasiadis A.**, (2012): Plastic coupled Instabilities in wide-flange steel beams. Proceedings of the 6<sup>th</sup> International Conference on Coupled Instabilities in Metal Structures. Glasgow, 3-5 December 2012, pp. 127-134.
- **Anastasiadis A.**, Mosoarca M, Gioncu V, (2012): New aspects concerning the ductility of steel members. Behaviour of Steel Structures in Seismic Areas, STESSA'2012, Chile, pp. 455-461.
- **Anastasiadis A.**, Mosoarca M, Gioncu V, (2011): Local ductility of rolled steel beams using the theory of plastic collapse mechanism. EUROSTEEL 2011, August 31 - September 2, 2011, Budapest, vol B, pp. 1185-1190.
- **Anastasiadis A.**, Mosoarca M, (2010): Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes. Recent Advances in Risk Management, Assessment and Mitigation, RIMA' 10, 20-22 April 2010, Bucharest, Romania, pp. 126-131.
- Gioncu V, Mosoarca M, **Anastasiadis A.**, (2009): Proposal to increase the ductility of steel structures. Behaviour of Steel Structures in Seismic Areas, STESSA'2009, USA, 679-684.
- Gioncu V. Mosoarca M., **Anastasiadis A.**, (2005): Dynamic modelling of historic buildings. 4<sup>th</sup> International Conference on New Trends and Statics, Dynamics of Buildings, October 20-21, Bratislava, Slovakia, pp. 281-285.
- **Anastasiadis A.**, Mosoarca M. (2004): Multi-Level earthquake design of steel frames: A designers view. Recent Advances and New Trends in Structural Design, Coll. dedicated to Prof. V Gioncu, May 7-8, Timisoara, Romania, 307-315.
- Mosoarca M., **Anastasiadis A.** (2004): Behaviour of R.C. shear walls with staggered openings in seismic zones. 3<sup>rd</sup> International Conference on New Trends in Statics and Dynamics, Slovak Society of Mechanics, October 21-22, Bratislava, pp. 321-325.
- Truta M, Mosoarca M, Gioncu V, **Anastasiadis A.** (2003): Optimal design of steel structures for multi-level criteria. Behaviour of Steel Structures in Seismic Areas, STESSA 2003, Napoli. Italy, 63-69.

- **Anastasiadis A**, Gioncu V, Mazzolani F.M (2000): New Trends in the Evaluation of Available ductility of Steel Members. Behaviour of Steel Structures in Seismic Areas, STESSA 2000, Montreal. Canada, 3-10.
- **Anastasiadis A**, Gioncu V, Mazzolani F.M (2000): Toward a Consistent Methodology for Ductility Checking. Behaviour of Steel Structures in Seismic Areas, STESSA'2000, Montreal, Canada, 443-453.
- **Anastasiadis A**, Mateescu G, Gioncu V, Mazzolani F.M (1999): Reliability of Joint Systems for Improving the Ductility of Moment Frames. Stability and Ductility of Steel Structures, 9-11 September 1999, Eds. D.Dubina & M. Ivanyi, London: Elsevier, 259-268.
- **Anastasiadis A**, Gioncu V (1999): Ductility of IPE and HEA Beams and Beam-Columns. Stability and Ductility of Steel Structures, 9-11 September 1999, Eds. D.Dubina & M. Ivanyi, London: Elsevier, 249-258.

**Papers in refereed National conference proceedings**

- **Anastasiadis A**, Kambouris A, (2011): Assessment of failures due to fire in technical forest constructions and schemes of repair. 15<sup>o</sup> Hellenic Forestry Conference, 16-19 October 2011, Karditsa, Greece, (in Greek).
- Trezos K., **Anastasiadis A.**, Pantouvakis X, Poursanidis I. (2008): Structural ID-Green box of buildings. 3<sup>rd</sup> Hellenic Conference of Earthquake Engineering and Engineering Seismology, November 2008, Athens, Paper 1786, CD, (in Greek).
- Gioncu V, Mosoarca M, **Anastasiadis A** (2007): Precast concrete structures in seismic zones: analysis of occurred damages. Conferinta structuri prefabricate din beton in centrul si estul europeii, Cluj-Napoca, 8-9 Noiembrie 2007, Romania, pp 39-53. (in Romanian).
- **Anastasiadis A.** (2006): Safety envelope of R/C structures: A proposal for drafting the Structural-ID of buildings. 15<sup>th</sup> Hellenic Conference on Reinforced Concrete Structures, October 2006, Alexandroupoli, Vol. B, pp. 46-55.
- **Anastasiadis A.**, Kambouris A., Pavlides Th. (2006): Rapid visual screening of low rc dams for potential seismic hazard. 15<sup>th</sup> Hellenic Conference on Reinforced Concrete Structures, October 2006, Alexandroupoli, Vol. B, pp. 56-65.
- **Anastasiadis A.**, Mosoarca M., Gioncu V. (2005): Design aspects of reduced beam sections for IPE and HEA European profiles. 5<sup>th</sup> Hellenic National Conference on Steel Structures, 29/9-2/10 Xanthi, Vol. I, pp. 25-33.
- **Anastasiadis A** (2003): Earthquake insurance of reinforced concrete residential buildings: A practical methodology based on the vulnerability concept. 15<sup>th</sup> Hellenic Conference on Reinforced Concrete Structures, Kos, 2003, Paper 4, CD, (in Greek).
- **Anastasiadis A**, Mateescu G, Gioncu V (2000): Improved ductile design of steel MR-frames based on constructional details. In Proceedings of 9<sup>th</sup> International Conference on Metal Structures. Ed. M. Ivan. Timisoara, Romania 19-22 October 2000, 367-376.
- **Anastasiadis A**, Gioncu V, Mazzolani F.M (1999): New upgrading procedures to improve the Ductility of Steel Moment-Resisting Frames. XVII Congresso, CTA, Napoli 3-5 October 1999, 193-204.
- **Anastasiadis A**, Gioncu V (1998): Influence of Joint Details on Local Ductility of Steel Moment Resisting Frames. 3<sup>rd</sup> Greek National Conference on Steel Structures, 1998, 311-319.

## Book Chapters

- Gioncu V, G. Mateescu, L. Tirca, **A. Anastasiadis** (2000): Influence of the type of seismic ground motions, Chapter 1.2 in “ Moment Resistant Connections of Steel Frames in Seismic Areas”, Ed. F.M. Mazzolani, E & FN London, 57-92 .
- Gioncu V, G. Mateescu, D. Petcu, **A. Anastasiadis** (2000): Prediction of available ductility by means of local plastic mechanism method. DuctRot computer program. Chapter 2.1 in “ Moment Resistant Connections of Steel Buildings in Seismic Areas”, Ed. F.M. Mazzolani, E & FN London. 95-146.

## Published Handbooks, Academic Lectures

- Practical Handbook of Technical Requirements for Construction. Contributor to the chapters for the excavations, foundations and structural skeleton. Published by Verlag Dashofer, 2006, ISBN 960-87103-6-7, (in Greek).
- Mosoarca M., Gioncu V., **Anastasiadis A.**, (2014): ‘Aesthetics of Structures’. Course lectures for the 1<sup>st</sup> semester of the IV academic year, electronic format, Politehnica University of Timisoara, Faculty of Architecture, (in Romanian).
- Mosoarca M., Gioncu V., **Anastasiadis A.**, (2014): ‘Aesthetics of Structures’. Seminar/Laboratory lectures for the 1<sup>st</sup> semester of the IV academic year, electronic format, Politehnica University of Timisoara, Faculty of Architecture, (in Romanian).

## Professional and Practice Oriented Journals and Periodicals

- Sachpazis C., **Anastasiadis A.** (2014): The need for in-depth geotechnical investigation and characterization study: The case of JCCI project in Jeddah, KSA, The Institution of Civil Engineers, ICE, Greek Local Association. Issue 4
- **Anastasiadis A.** (2011): Behaviour and design of buckling restrained braces against earthquake actions, *Metallikes Kataskeues*, Issue 3, (in Greek) ([www.metalkat.gr](http://www.metalkat.gr)).
- **Anastasiadis A.** (2010): Structural steel in the design of civil engineering works under the framework of European Norms. *Metallikes Kataskeues*, Issue 1, (in Greek).
- **Anastasiadis A.**, Voghiatzis T. (2009): Steel and Steel-Composite new structural systems against earthquake actions. *Metallikes Kataskeues*, Issue 3, (in Greek).
- **Anastasiadis A.** (2008): Corrosion protection of structural steelwork by using paints. *Metallikes Kataskeues*, Issue 3, (in Greek).
- **Anastasiadis A.** (2008): Pre-earthquake strengthening of reinforced concrete buildings by using structural steelwork. *Metallikes Kataskeues*, Issue 1, (in Greek).
- Tsisis D., **Anastasiadis A.** (2007): The use of steel in art forms. *Metallikes Kataskeues*, Issue 1, pp. 76-80, (in Greek).
- **Anastasiadis A.** (2006): Seismic conformation of steel structures. *Metallikes Kataskeues*, Issue 4, pp. 58-65, (in Greek).
- **Anastasiadis A.** (2006): Critical review of the national constructional specifications focused on the structural steelwork. *Bulletin of the Technical Chamber of Greece T.E.E.*, Issue 2379, pp. 59-60, (in Greek).
- **Anastasiadis A.**, Mosoarca M. (2003): Application of the prefabrication on the industrial buildings. *Ili & Ktirio*, January-February, Issue 59, pp. 109-119, (<http://www.ili-ktirio.gr>) (in Greek).

- **Anastasiadis A** (2002): Safety and design of one-storey industrial buildings, *Bulletin of the Greek Association of Civil Engineers.*, December, Issue 302, pp. 22-25, (in Greek).
- **Anastasiadis A**, Mosoarca M (2002): Covering large spaces by using structural steelwork systems. *Ili & Ktirio*, October-November, Issue 58, pp. 123-132, (in Greek).
- **Anastasiadis A**, (2002): Steel for reinforced concrete structures. *Ili & Ktirio*, August-September, Issue 57, pp. 119-127, (in Greek).
- **Anastasiadis A**, (2002): Proposal of a more safer buildings: Structures made by structural steelwork. *Ili & Ktirio*, January-February, Issue 54, pp. 44-56, (in Greek).
- Peikou, M. **Anastasiadis A**. (2000): Earthquake protection of buildings: Philosophy of design, conformation and design codes. *Ili & Ktirio*, Special Volume, Issue 48, pp. 4-13, (in Greek).
- **Anastasiadis A**. (2000): Industrial buildings. *Ili & Ktirio*, Issue 47, pp. 84-95, (in Greek).
- **Anastasiadis** (2000): Rehabilitation of structures after an earthquake. *Ili & Ktirio*, January-February, *Special Volume dedicated to the earthquake of Athens*, Issue 47, pp. 12-35, (in Greek).
- **Anastasiadis A** (2000): Report: The Athens earthquake, September 7, 1999. *INCEDE Newsletter*. Vol.9, Nub.1, April - September 2000.