

CURRICULUM VITAE

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CURRICULUM VITAE

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RESEARCH AREA OF INTEREST

- Mechanical properties of green-strain resilient cementitious composites (SRCC), as matrix of steel and FRP bars. The green-SRCC is a fine grained mortar of high dosage of by-product (i.e. fly ash) reinforced with fibers in nano and micro scale, imparting increased strength and high strain development capacity.
- Analytical and experimental study of bond mechanism between steel and FRP reinforcement bars in concrete and SRCCs.
- Experimental and analytical assessment of strength and deformation indices of upgrading deficient r.c. structural members through FRP jacketing (deficient members that also have been suffered prior damage due to loading or corrosion of primary and web reinforcement).
- Analytical research on yield penetration into the anchorage of steel longitudinal reinforcement. Effects on the strain development capacity of longitudinal reinforcement, on the increased demand in compressive strains into the compression zone of the cross section and the influences on the rotation capacity of r.c. columns and walls.
- The use of industry by-products and dried sewage sludge in ceramic masonry bricks: Study of mechanical and physical properties.

EMPLOYMENT

- 2017(/05) current position: Assistant Professor, Dep. of Civil Eng., Democritus University of Thrace
- 2013(/12) Lecturer, Dep. of Civil Eng., Democritus University of Thrace (DUTH) Elected: February 2010, scientific area: Composite materials in concrete.
- 2012 Manpower Employment Organization (oaed.gr) in management of employment funding
- 2008-'12: Social housing Organization - Greece
- 2007-'08: Technical Services Department of Chrissoupoli's Municipality - Greece
- 2002-'07: Freelancer

UNIVERSITY EDUCATION

- 2006(/02) Ph.D., Department of Civil Engineering, D.U.Th. (Thesis “Bond of steel and composite reinforcement to concrete”, supervisors: S. Pantazopoulou, Ch. Karagiannis, A. Karabinis)
- 2001(/03) MSc, Department of Civil Engineering, D.U.Th. (Thesis “Recovery of corrosion – damaged anchorages through FRP Jacketing” supervisor: Pantazopoulou S. J.)
- 1999(/11) Engineering Diploma, Department of Civil Engineering, D.U.Th. (score: 7.8 out of 10)

AWARDS AND SCHOLARSHIPS

- Scholarship from the General Secretary of Research and Technology (GSRT), Greece: 3 years funding of the doctoral research (ac. Years: 2003-2005)
- Scholarship from the Post Graduate Program «New materials and technologies in the design of reinforced concrete structures”, DUTh (acad. Year 1999-2000)
- Award from the Technical Chamber of Greece: Distinguished undergraduate student (3rd run) at the 1st year of studies (academic year 1994-1995)

MEMBERSHIP IN SCIENTIFIC COMMITTEES / TECHNICAL SOCIETIES

- *Fib* Task Group 5.1 (former *fib* TG9.3) “FRP (Fibre Reinforced Polymer) reinforcement for concrete structures”, International Federation for Structural Concrete (*fib*)
- *fib* Task Group 4.5 “Bond”, sub-group “Modeling”, International Federation for Structural Concrete (*fib*)
- RILEM Technical Committee "DUC" (Design procedures for the use of composites in strengthening of reinforced concrete structures)
- COST TU1207 Next Generation Design Guidelines for Composites in Construction (European Cooperation in the field of Scientific and Technical Research)
- COST TU1404 - Towards the next generation of standards for service life of cement-based materials and structures Level (European Cooperation in the field of Scientific and Technical Research)
- Hellenic Committee of Seismic Mechanics
- Technical Chamber of Greece

INTERNATIONAL RECOGNITION

- **Invited reviewer in:**
 - ACI Structural Journal
 - ACI Material Journal
 - ASCE Journal of Composites for Constructions

- Elsevier Composites Science and Technology
 - Elsevier Engineering Structures
 - Elsevier Construction and Building Materials
 - Elsevier, Composites Science and Technology
 - TechnoPress Computers and Concrete
 - TechnoPress Structural Engineering and Mechanics
 - Springer Frontiers of Structural and Civil Engineering
 - MDPI Materials Science Journal
 - JCI Journal of Advanced Concrete Technology
 - GRAĐEVINAR, Journal of the Croatian Association of Civil Engineers
- **Citations** to scientific work by international researchers: over 330 (in scholar.google.com), over 150 (in scopus.com)

RESEARCH FUNDING (in Greece)

- 2015 – '18 Project ETAA-DUTh: "Investigation of Strain Hardening Cementitious Composites", Sc. Resp. Tastani Souzana, Lecturer
- 2013 - '15 Post-doctoral researcher, THALIS: "Center For Multifunctional Nanocomposite Construction Materials", Sc. Co-ord. Prof. Konsta M., funding: ESPA 2007-2013
- 2006 - '08 Researcher, PEP-AMTh: "Integrated Management of Municipal Wastewater Sludge Plant and Wastewater Treatment by Natural Systems", Sc. Resp. Pr. Tsihrintzis V., funding GSRT, DEYA & AnRo Komotinis
- 2006 - '07 Post-doctoral researcher, PAVET (PV AMTH 25): "Applications of poly-propylene products in construction", Sc. Resp. Pr. S.J. Pantazopoulou, funding: GSRT & ThracePlastics CO. (Greece)
- 2003 - '05 Young Researcher, Scholar, PENED' 01: "Use of FRP Bars and Laminates as Reinforcement in the Design and Upgrading of Reinforced Concrete Structures" Sc. Resp. Pr. S.J. Pantazopoulou, Sponsor: GSRT (Greece)
- 10-11/2004 National Program of Seismic Strengthening of Existing Structures (EPANTIK): Inventory of Buildings of Xanthi. Funding by the Greek Technical Chamber (TEE)
- 2001 – '03 Young Researcher, Scholar, PRENED '99: "Bond of Composite Reinforcement (FRP bars)
- 2001 – '02 Researcher, Project: "Design Guidelines for the Seismic Repair of Reinforced Concrete Elements with FRPs", Sc. Co-resp. Pr.. S. Pantazopoulou, Sponsor: OASP (Greece)
- 2000 - '01 Young Researcher, PENED' 99: "Fiber Reinforced Polymers (FRPs) in the Repair and Strengthening of Reinforced Concrete Elements", Sc. Resp. Pr. S.J. Pantazopoulou, Sponsor: GSRT (Greece)

SCIENTIFIC PUBLICATIONS

J. ARTICLES IN JOURNALS / VOLUMES (peer-reviewed)

Ji. International Journals

- Ji1.* Megalooikonomou K., **Tastani S.P.**, Pantazopoulou S.J. (2017). "Reinforcement to Concrete Bond in Inelastic Regions of RC Frame Members", under review, fib T.G. 2.5 Bulletin on Bond
- Ji2.* Megalooikonomou K., **Tastani S.P.**, Pantazopoulou S.J. (2017). "Effect of yield penetration on column plastic hinge length", under review, Elsevier Engineering Structures.
- Ji3.* Eleftheriou T., **Tastani S.P.**, Pantazopoulou S.J. (2017). "Development of reinforcing bars in SRCC matrix: modelling and interpretation", *ASCE J. of Structural Engineering*, 143(9).
- Ji4.* **Tastani S.P.**, Konsta-Gdoutos M.S., Pantazopoulou S.J., Balopoulos V. (2016). "The effect of carbon nanotubes and polypropylene fibers on bond of reinforcing bars in strain resilient cementitious composites", *Springer Frontiers of Structural and Civil Engineering*, 10(2): 214-223.
- Ji5.* Pantazopoulou S., **Tastani S.P.**, Thermou G., Triantafyllou T., Monti G., Bournas D., Guadagnini M., (2016). "Background to European seismic design provisions for the retrofit of R.C. elements using FRP materials", *fib Structural Concrete*, DOI: 10.1002/suco.201500102.
- Ji6.* **Tastani S.P.**, and Pantazopoulou S.J. (2015). "Implications of yield penetration on confinement requirements of r.c. wall elements", *TechnoPress Earthquakes and Structures*, Vol. 9, No. 4.
- Ji7.* **Tastani S.P.**, Brokalaki E. and Pantazopoulou S.J. (2015). "State of Bond along Lap-Splices", *ASCE J. of Structural Engineering*, 141(10): 04015007.
- Ji8.* **Tastani S.P.** and Pantazopoulou S.J. (2013). "Yield penetration in seismically loaded anchorages: effects on member deformation capacity." *TechnoPress Earthquakes and Structures*, 5(5): 527-552.
- Ji9.* **Tastani S.P.**, Balafas I., Dervisis A. and Pantazopoulou S.J. (2013). "Effect of core compaction on deformation capacity of FRP-jacketed concrete columns." *Elsevier Construction and Building Materials*, 47: 1078-1092.
- Ji10.* **Tastani S.P.** and Pantazopoulou S.J. (2013). "Reinforcement and Concrete Bond: State Determination along the Development Length." *ASCE J. of Structural Engineering*, 139(9): 1567-1581.
- Ji11.* **Tastani S.P.**, Thermou G.E., and Pantazopoulou S.J. (2012). "Yield penetration in bar anchorages and the effect on rotation capacity." invited paper, Vol. Compiled by the Institut für Werks to feim Bauwesen, Universität Stuttgart, in honor of Prof. R. Eligehausen.
- Ji12.* **Tastani S.P.** and Pantazopoulou S.J. (2010). "Direct tension pullout bond test: experimental results." *ASCE Structural Engineering*, 136(6): 731-743.
- Ji13.* **Tastani S.P.** and Pantazopoulou S.J. (2008). "Detailing procedures for seismic rehabilitation of reinforced concrete members with fiber reinforced polymers." *Elsevier Engineering Structures*, 30(2): 450-461.
- Ji14.* **Tastani S.P.** and Pantazopoulou S.J. (2007). "Behavior of corroded bar anchorages", *ACI Structural Journal*, Vol. 104, No. 6, pp. 756-766.
- Ji15.* **Tastani S.P.** and Pantazopoulou S.J. (2006). "Bond of G-FRP bars in concrete: experimental study and analytical Interpretation." *ASCE Journal of Composites for Construction*, 10(5): 381-391.
- Ji16.* **Tastani S.P.**, Pantazopoulou S.J., Zdomba D., Plakantaras V., and Akritidis E. (2006). "Limitations of FRP-jacketing in confining old-type RC members in axial compression." *ASCE Journal of Composites for Construction*, 10(1): 13-25. (erratum, October 2013)

- Ji17.* **Tastani S.P.** and Pantazopoulou S.J (2005). "Recovery of seismic resistance in corrosion-damaged reinforced concrete through FRP Jacketing." invited paper in *International Journal of Materials and Product Technology*, 23(3/4): 389 -415.
- Ji18.* Pantazopoulou S.J. and **Tastani S.P.** (2005). **Discussion** on Beeby's paper "The influence of the parameter Φ/ρ_{eff} on crack widths." *Structural Concrete*, 6(4): 155-165.
- Ji19.* **Tastani S.P.** and Pantazopoulou S.J. (2004). "Experimental evaluation of FRP jackets in upgrading RC corroded columns with substandard detailing." *Elsevier Engineering Structures*, 26(6): 817-829.
- Ji20.* **Tastani S.P.**, Pantazopoulou S. (2002). "Experimental and analytical Investigation of corroded bar anchorages." invited paper in "*Befestigungstechnik*" Volume Compiled by the Institut für Werks to feim Bauwesen, Universität Stuttgart, in honor of Prof. R. Eligehausen, pp. 281-292.

Jg. Hellenic Journals

- Jg1.* **Tastani S.P.**, Dervisis A., Pantazopoulou S.J. (2010). "FRP Jacketed Reinforced Concrete under compression: Analysis of concrete compaction and bar buckling." Technical Chamber of Greece, *Technika Chronika (Sci. J.)*, 1(3): 61-67.
- Jg2.* **Tastani S.P.**, Pantazopoulou S.J. (2007). "Seismic Assessment and Upgrading of corrosion-damaged R.C. members through FRP jacketing." Technical Chamber of Greece, *Technika Chronika (Sci. J.)*, 27(1-2): 21-35.
- Jg3.* **Tastani S.P.**, Pantazopoulou S.J. (2004). "Recommendations on the use of FRP jackets in seismic upgrading of existing RC structures with limited deformability." *Building (Scientific Publication)*, Nos. A-B, pp 61-70.
- Jg4.* **Tastani S.P.**, Pantazopoulou S.J. (2004). "Design strategy for seismic upgrading of R.C. structures with FRP jacketing - Control of stiffness vs. deformation capacity". *Building (Scientific Publication)*, Nos. A-B, pp. 71-82.
- Jg5.* **Tastani S.P.**, Pantazopoulou S.J. (2004). "Experimental evaluation of FRP jackets in upgrading R.C. damaged columns with substandard detailing." *Building (Scientific Publication)*, Nos. A-B, pp. 83 - 94.

C. CONFERENCE ARTICLES (peer-reviewed)

Ci. International Conferences

- Ci1.* **Tastani S.**, Veneti M., Zapis V. (2017). "Strain resilient cementitious composites: compressive response and volumetric stability". 2nd International RILEM/COST Conference on Early Age Cracking and Serviceability in Cement-based Materials and Structures - EAC2, 12–14 September 2017, ULB-VUB, Brussels, Belgium.
- Ci2.* **Tastani S.**, Ntampanli E., Savvidis I., Veneti M., Zapis V. (2017). "Strain Resilient Cementitious Composites of unclassified calcareous fly ash and PP fibers: performance by also considering durability effects". 4th Int. Conference on STRAIN-HARDENING CEMENT-BASED COMPOSITES (SHCC 4), Dresden, 18-20 September 2017.
- Ci3.* Georgiou A.V., **Tastani S.**, Pantazopoulou S.J. "Testing procedure for determining the bond-slip law of steel bars in Strain Hardening Cementitious Composites". 4th Int. Conference on STRAIN-HARDENING CEMENT-BASED COMPOSITES (SHCC 4), Dresden, 18-20 September 2017.

- Ci4. K.G. Megalooikonomou, S.J. Pantazopoulou, **S.P. Tastani** (2017). «A mechanistic approach in defining inelastic rotation capacity of rc columns», COMPDYN 2017, 6th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, M. Papadrakakis, M. Fragiadakis (eds.), Rhodes Island, Greece, 15–17 June 2017.
- Ci5. K.G. Megalooikonomou, S.J. Pantazopoulou, **S.P. Tastani** (2017). “Plastic hinge length in columns – definition through consideration of yield penetration effects”. 16th World Conference on Earthquake, 16WCEE 2017, Santiago Chile, January 9-13 (Paper N° 2073).
- Ci6. **Tastani S.P.** (2016). “Analytical investigation of bond between ECC matrix and steel reinforcement”, Concrete Solutions 2016, 6th Int. Conference on Concrete Repair, 20-22 June 2016 - Thessaloniki, Greece.
- Ci7. **Tastani S.P.**, Kotsoglou A. (2016). “Analytical investigation of geo-composites: mechanical interaction”, procs., 11th HSTAM Int. Congress on Mechanics, Athens, Greece, May 27 – 30 (abstract reviewed).
- Ci8. Karavasili S., **Tastani S.P.**, Markou I. (2016). “Optimum design of unpaved roads reinforced with geotextiles: a comparison of internationally published methodologies”, procs. 11th HSTAM Int. Congress on Mechanics, Athens, Greece, May 27 – 30 (abstract reviewed).
- Ci9. Pantazopoulou S., **Tastani S.P.**, Thermou G., Triantafillou T. (2017). “Performance-based seismic retrofitting of R.C. structures with FRPs - a background to the European provisions”, accepted for publication, 16th World Conference on Earthquake Engineering (16WCEE), Santiago Chile, January 9 – 13.
- Ci10. **Tastani S.P.**, Konsta-Gdoutos M.S., Pantazopoulou S.J., and Balopoulos V. (2015). “The effect of Carbon NanoTubes/Polypropylene Fibers on Bond of Reinforcing Bars in ECC”, procs., 5th Int. Symposium on Nanotechnology in Construction (NICOM5), Chicago USA, May 24-26 (oral presentation).
- Ci11. **Tastani S.P.**, Pantazopoulou S.J., Konsta-Gdoutos M.S., and Balopoulos V. (2014). “Experimental Local Bond of Reinforcing Bars in Cementitious Composites Reinforced with Polypropylene Fibers/Carbon NanoTubes”, procs., 3rd International RILEM Conference on Strain Hardening Cementitious Composites (SHCC3-Delft), Dordrecht Netherlands, November 3-5 (oral presentation).
- Ci12. **Tastani S.P.**, Pantazopoulou S.J. (2014). “Implications of yield penetration on the requirements for confinement of r.c. wall elements”, procs., 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey, August 24-29 (oral presentation).
- Ci13. Eleftheriou Th.E., **Tastani S.P.**, Pantazopoulou S.J. (2013). “Bond of reinforcing bars embedded in concrete”, procs., 10th HSTAM International Congress on Mechanics, Chania, Crete, Greece, 25 – 27 May, 2013.
- Ci14. **Tastani S.P.**, Thermou G.E., Pantazopoulou S.J. (2012). “Deformation analysis of reinforced concrete columns after repair with FRP jacketing.” Procs., 15th World Conference on Earthquake Engineering, September 24-28, Lisbon, Portugal (paper no. 3164).
- Ci15. **Tastani S.P.**, Pantazopoulou S.J. (2012). “Modelling reinforcement to concrete bond”, procs., 4th Int. Conference on Bond in Concrete 2012: Bond, Anchorage, Detailing, 17-20 June, Brescia, Italy.
- Ci16. **Tastani S.P.**, Brokalaki E.S. and Pantazopoulou S.J. (2012). “Investigating the state of stress along lap splices”, procs., 4th Int. Conference on Bond in Concrete 2012: Bond, Anchorage, Detailing, 17-20 June, Brescia, Italy.

- Ci17. Thermou G., **Tastani S.P.**, Pantazopoulou J. (2010). "The effect of previous damage on the effectiveness of FRP-jacketing for seismic repairs of RC structural members". Proceedings, *10th Int. Symposium on Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures* (paper No. 23), October 15, Tampa, Florida, USA (oral presentation).
- Ci18. **Tastani S.P.**, Papadopoulos M., Pantazopoulou S.J. (2009). "Seismic response of traditional masonry buildings: parametric study and evaluation", proceedings, *1st Int. Conference Protection of Historical Buildings (PROHITECH 09)*, Rome, June 21-24, Italy (oral presentation).
- Ci19. Athanasoulia E., Diamantis V., **Tastani S.P.** and Aivasidis A. (2008). "Solidification of dried activated sludge in ceramic materials", proceedings, *4th European Bioremediation Conference*, Chania - Greece, September 3-6.
- Ci20. **Tastani S.P.** and Pantazopoulou S.J. (2007). "Design values of bond – slip law for FRP bars", proceedings, *8th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-8)*, Patras - Greece, 16-18 July, 2007(oral presentation).
- Ci21. **Tastani S.P.** and Pantazopoulou S.J. (2006). "Fiber reinforced polymers in seismic upgrading of existing reinforced concrete structures", CD ROM proceedings, *8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco - California, April 18-22, paper No. 232 (oral presentation).
- Ci22. **Tastani S.P.** and Pantazopoulou S.J. (2006). "Limit state model for bond of machined steel bars: experimental results", CD ROM proceedings, *2nd International fib congress*, NaplesItaly, June 5-8, (oral presentation).
- Ci23. **Tastani S.P.**, Pantazopoulou S.J. and Karvounis P. (2005). "Local bond – slip characteristics of G-FRP bars", CD ROM proceedings, *7th International Symposium on Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures – FRPRCS7*, Kansas City M.O. – USA, November (porter presentation). Also presented at *3rd International Conference Composites in Construction - CCC2005*, Lyon – France, Vol.2, pp. 799-806, July 11-13, 2005 (oral presentation).
- Ci24. **Tastani S.P.**, Pantazopoulou S.J. (2005). "Resistance recovery of corrosion-damaged reinforced concrete through FRP jacketing", proc., *3rd International Conference Composites in Construction - CCC2005*, Vol.1, pp. 235-242, Lyon–France, July 11-13,(oral presentation).
- Ci25. **Tastani S.P.** and Pantazopoulou S. J. (2003). "Interpretation and modeling of shear strength of reinforced concrete under cyclic load reversals", CD ROM proceedings, *fib-Symposium on Concrete Structures in Seismic Regions*, Athens, May 6-8, (oral presentation).
- Ci26. **Tastani S.P.** and Pantazopoulou S. J. (2003). "Strength and deformation capacity of brittle r.c. members jacketed with FRP wraps", CD ROM proceedings, *fib-Symposium on Concrete Structures in Seismic Regions*, Athens, May 6-8, (oral presentation).
- Ci27. **Tastani S.P.** and Pantazopoulou S. J. (2002). "Experimental evaluation of the direct tension-pullout bond test", proceedings, *3rd Symposium on Bond in Concrete – From research to Standards*, Budapest, November 20-22, Eds. G. Balazs, P. Bartos, J. Cairns and A. Borosnyoi, pp. 268-276.
- Ci28. **Tastani S.P.** and Pantazopoulou S.J. (2001). "Experimental Investigation of GFRP-Bar Anchorages in Concrete", Proceedings *CCC 2001 Conference of Composites in Construction*, Porto – Portugal, October, pp: 193-198.
- Ci29. **Tastani S.P.** and Pantazopoulou S.J. (2002), "Design of Seismic Strengthening for Brittle RC Members Using FRP Jackets", CD-ROM Proceedings *12th European Conference on*

Earthquake Engineering, London-UK, September (poster presentation –paper 37, [abstract reviewed](#)).

Ci30. S. J. Pantazopoulou and **S. Tastani** (2001). “Controlled Bond Failure of GFRP Reinforcing Bars in Concrete”, paper presented in the Open Paper Session, organized by Committee 123, *ACI Spring 2001 Convention*, Philadelphia, March

Cg. Hellenic Conferences

Cg1. Megalooikonomou K., **Tastani S.**, Pantazopoulou S. (2016). «The effect of bond on the plastic hinge length of columns – analytical modelling», 17th *Hellenic Symposium on Concrete «Concrete Structures»*, Thessaloniki, November 10-12.

Cg2. **Tastani S.**, Veneti M., Zapris V., Ntampanli E., Savvidis I. (2016). «Experimental Study on the Mechanical Properties of Strain Resilient Cementitious Composites», 17th *Hellenic Symposium on Concrete «Concrete Structures»*, Thessaloniki, November 10-12.

Cg3. **Tastani S.**, Dolianitou S., Pantazopoulou S. (2009). “Methodology of assessment/upgrading of corrosion-damaged R.C. structures: a case study”, Proceedings, 16th *Hellenic Symposium on Concrete*, October 21-23, Pafos, Cyprus.

Cg4. **Tastani S.P.**, Dervisis A., Pantazopoulou S.J. (2008). “Implications of longitudinal compression bar buckling on the effective strain of the confining FRP-jacket”, Proceedings, 3rd *National Symposium of Seismic Mechanics and Technical Seismology*, November 5-7, Athens, Greece (No. 1783).

Cg5. **Tastani S.** And Dianantis V. (2008). “Dry sewage sludge in ceramic bricks: experimental investigation of physical and mechanical properties”, CD ROM proceedings, 1st *Symposium on Building materials and structures*, 21-23 May, Athens, Greece.

Cg6. **Tastani S.P.**, Pantazopoulou S.J. and Vavatsi Stella (2007). “Seismic assessment of traditional masonry buildings”, proceedings, 1st *National Symposium on History of Structures*, November 29 - December 1, Xanthi, Greece.

Cg7. **Tastani S.P.**, Pantazopoulou S.J. (2006). “Bond of G-FRP bars in concrete: experimental and analytical investigation”, CD-ROM proceedings 15th *Hellenic Symposium on Concrete*, October 25-27, Alexandroupoli, Greece (oral presentation).

Cg8. **Tastani S.P.**, Pantazopoulou S.J. (2006). “Design of upgrading corroded r.c. structures with composite materials”, CD-ROM proceedings of 15th *Hellenic Symposium on Concrete*, October 25-27, Alexandroupoli (oral presentation).

Cg9. **Tastani S.P.**, Pantazopoulou S.J. (2003). “Experimental Investigation of Old-Type R.C. Members under Compression with Corroded Reinforcement: strengthening / repair with FRP Jackets”, 14th *Hellenic Symposium on Concrete*, October 15-17, Kos, Greece, Vol. II, pp. 537-548 (oral presentation).

Cg10. **Tastani S.**, Pantazopoulou S. (2001). “Deterioration of Shear Strength of R.C. under Cyclic Loading”, Proceedings 2nd *Symposium of Seismic Mechanics and Technical Seismology*, November 28-30, Thessaloniki, Vol. II, pp. 267-275 (oral presentation).

Cg11. **Tastani S.**, Pantazopoulou S., (2000). “Experimental Investigation of bond of GFRP bar to concrete”, Proceedings 1st *Hellenic Symposium on Composite Materials in Concrete*, November 9-10, Xanthi, pp. 277-286 (oral presentation).

Cg12. Pantazopoulou S., **Tastani S.**, Asimidis V., Krommidas S. (2000). “FRP Jackets for the

improvement of bond of corroded steel reinforcement” *1st Hellenic Symposium on Composite Materials in Concrete*, 9-10, Xanthi, pp. 354-363 (oral presentation).

Cg13. Arvanitakis S., **Tastani S.**, Pantazopoulou S. (1999). “Impact of Corrosion on Bond between reinforcement and concrete”, *Proceedings 13th Hellenic Symposium on Concrete*, October 25-27, Crete, Vol. I, pp. 93-100 (oral presentation).

V. Co-authoring of SCIENTIFIC VOLUMES

- V1. Pantazopoulou S.J., Tastani S.P., Thermou G.E., Triantafillou T., Monti G., Bournas D., Guadagnini M., Prota A., “*Ultimate limit states in seismic retrofitting*”, Chapter 8 in: Externally applied FRP reinforcement for concrete structures. Technical report prepared by the *fib* Committee 5.1: FRP reinforcement for concrete structures, (**in press**).
- V2. Pantazopoulou S. J., Guadagnini M., D’Antino T., Lignola G.P., Napoli A., Relafonzo R., Pellegrino C., Prota A., Balafas I., **Tastani S.**, and Bournas, D., (2015), “Confinement of RC elements by means of EBR-FRP Systems”, Chapter 5 in: *Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures – State of the Art Report of the RILEM TC 234-DUC*, (Eds: C. Pellegrino and J. Sena-Cruz), Springer, RILEM STAR Book Series.

TR. TECHNICAL REPORTS

- TR1. Co-author of the Work Package WP4 «Simulation And Study Of The Mechanics Of Failure Of Nano-Composites & Hybrid Mixes» and WP 5 «Investigation of the effect of increased fracture toughness of nanocomposites on the mechanical properties of structural elements» of the research project Thales – Democritus University of Thrace “Center for Multifunctional Nanocomposite Construction Materials (MIS 379496)”. Coordinator Prof: Mary Konsta-Gdoutos, DUTH, sponsored by the European Social Fund & the Greek National Strategic Reference Framework 2007 -2013.
- TR2. Co-author of the Work Package WP 2 «The use of dried sewage sludge in the production of ceramic bricks», of the research project PEP-AMTh: “Integrated Management of Municipal Wastewater Sludge Plant and Wastewater Treatment by Natural Systems”, Sc. Resp. Pr. Tsihrintzis V., funding GSRT, DEYA & AnRo Komotinis.
- TR3. Co-author of the Chapters 1, 2, 6, 7, 13, 14 and 15 of the Technical report “Applications of Polypropylene products in construction”. Sc. Resp. Professor Pantazopoulou S.J. funding GSRT and ThracePlastics CO.
- TR4. Co-author of the research project’s technical report: “Design Guidelines for the Seismic Repair of Reinforced Concrete Elements with FRPs”, sponsor: OASP (2001-2002).

DOCTORAL THESIS

Title: “Bond of steel and composite reinforcement to concrete”, Department of Civil Engineering, Democritus University of Thrace (supervisors: Professors S. Pantazopoulou, Ch. Karagiannis, A. Karabinis), February 2006.

MSC THESIS

Title: “Recovery of corrosion – damaged anchorages through FRP Jacketing”, Postgraduate Program “Advanced materials and Novel Technologies in the Design of reinforced Concrete structures”

organised by the Section of Structural Engineering, Department of Civil Engineering, Democritus University of Thrace (supervisor: Professor S. Pantazopoulou).

TEACHING/SUPERVISING EXPERIENCE

A. TEACHING

A.1 Co-teaching lessons at the Undergraduate Level, Dep. of Civil Engineering, DUTH

Ac. Year 2014-present:

- Building Materials I (3rd semester)
- Special Chapters of Building Materials (7th semester)
- Rehabilitation and Preservation of Heritage Buildings – Monuments (7th semester)
- Special Chapters in Building Protection (8th semester)
- In-situ concrete compressive strength (8th semester)

A.2 Lessons co-taught at the Undergraduate Level, Dep. of Architecture, DUTH

Ac. Years 2006-2009:

- Statics I (1st semester)
- Statics II (2nd semester)
- Statics III (3rd semester)
- Statics IV (4th semester)
- Technology of Building Materials I (1st semester, taught only the ac. year 2006-2007)
- Technology of Building Materials III (3rd semester, taught only the ac. year 2006-2007)

A.3 Lessons taught at the Undergraduate Level, Dep. of Forestry and Natural Environmental Management, Eastern Macedonia and Thrace Institute of Technology

Ac. Year 2006-2007:

- Technical drawing (1st semester)
- Reinforced concrete

A.4 Auxiliary support teaching

Ac. Year 2014-present (of Professor A. Savva):

- Building Materials II (4th semester, execution of the laboratory tests)

Ac. years 2001-2005 (of Professor Pantazopoulou, DUTH)

- Reinforced Concrete, 8th semester, Dep. Of Environmental Engineering, DUTH
- Reinforced Concrete Design 1A, 7th semester, Dep. Of Civil Engineering, DUTH
- Reinforced Concrete Design II, 8th semester, Dep. Of Civil Engineering, DUTH.

B. SUPERVISION / AUXILIARY SUPPORT UNDERGRADUATE & POSTGRADUATE THESES

B1. Supervision of undergraduate theses:

- Ac. Year 2016 – theses in progress:
 1. Liakos Stavros: «Experimental study of the addition of sewage sludge in masonry bricks: physical and mechanical properties».
 2. Ntampanli Evangelia: «Experimental study of strain resilient cementitious composites – age of testing»
 3. Zapris Vasileios: «Experimental study of strain resilient cementitious composites – temperature effects»
 4. Veneti Maria: «Experimental study of strain resilient cementitious composites – the content of calcareous fly ash».
 5. Savvidis Ioannis: «Experimental study of strain resilient cementitious composites – the content of polypropylene fibers».
- Ac. Year 2014-15: co-supervisor As. Professor I. Markou:
 1. Karavasili Styliani: “Development of spreadsheets for design of unpaved roads reinforced with geotextiles”.

B2. Auxiliary support of Professor Pantazopoulou in supervising

B2.1 post-graduate theses

1. Eleftheriou Th. (2013). “Investigation of bond between reinforcement and normal strength concrete or engineered cementitious composites”.
2. Dervisis A. (2008). “Reinforced concrete under compression: analytical investigation of longitudinal bar buckling and concrete pulverization”.
3. Dolianitou S. (2007). “Methodology for assessment/upgrading of corroded r.c. structures: the case of the Proskopeio at Sami, Kefalonia”.

B2.2 under-graduate theses

1. Brokalaki E. (2010). “Analytical investigation of bond in lap-splices”.
2. Dervisis A. (2007). “Implications of longitudinal bar buckling on the effective strain of the confining FRP –jacket”.
3. Dolianitou S. (2006). “Seismic assessment of Proskopeio at Sami, Kefalonia”.
4. Dousopoulou P. and Oikonomou D. (2006). “Experimental investigation of the standard pullout bond test – repeatability control”.
5. Zioupos G. (2006). “Experimental investigation of steel reinforcement to concrete bond: influence of rib height”.
6. Tyriss D. (2005). “Experimental investigation of reinforcement to concrete bond: influence of anchorage length”.
7. Georgala R. (2004). “Experimental investigation of reinforcement to concrete bond: influence of concrete mixture”.
8. Karvounis P. (2005). “Experimental investigation of G-FRP reinforcement to concrete bond: influence bar external surface”.
9. Papadopoulos G. and Tsiftis X. (2002). “Repair of corroded r.c. short columns under compression through FRP jacketing”.

10. Ligkoni Ch. (2001). "Reinforced concrete elements with FRP longitudinal reinforcement: parametric investigation of the failure mechanisms".
11. Vadiakas P. And Filtzatzis A. (2001). "Experimental investigation of FRP reinforcement to concrete bond through a direct pullout bond test".
12. Folias N. (2000). "Experimental investigation of FRP reinforcement to concrete bond: four-point bending lap-splice test".
13. Asimidis V. and Krommidas S. (2000). "Impact of reinforcement corrosion on bond mechanism and repair of damaged anchorage with FRP jacketing".

OTHER EXPERIENCE

Computer programs for design and analysis of reinforced concrete structures:

- Static and dynamic analysis of r.c. frames (Drain – 2DX).
- Cross sectional analysis of r.c. elements (Response 2000).
- AVWIN and FESPA (programs for the static and seismic analysis of structures)

Architectural design (Autocad 2000, TEKTON, π-Systems)

MS Office (Word, programming in Excel environment, PowerPoint)

Corel