



## CURRICULUM VITAE

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*Visiting Global Distinguished Professor of Civil and Urban Engineering*

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Born in Patras, Greece, 1963

### EDUCATION

- 1987 – 1989 Massachusetts Institute of Technology (MIT), PhD in Civil Engineering.  
 1985 – 1987 Massachusetts Institute of Technology (MIT), MSc in Civil Engineering.  
 1980 – 1985 University of Patras, Greece, Diploma in Civil Engineering.

### MAIN ACADEMIC POSITIONS

- 1993 – Today Professor, Department of Civil Engineering, University of Patras, Greece (on leave 2018 – 2019).  
 1990 – 1993 Assistant Professor, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology (MIT) (on leave 1992, serving the Greek Air Force).  
 2020 – Today Visiting Global Distinguished Professor of Civil and Urban Engineering, New York University Abu Dhabi.  
 2018 – 2019 Professor and Head, Civil and Urban Engineering, New York University Abu Dhabi.

### OTHER ACADEMIC POSITIONS

- 2005 – 2020 Adjunct Professor, Hellenic Open University, for the Thematic Unit “Seismic Design of Structures” of the program “Earthquake Engineering and Earthquake-resistant Structures”. 2005-2020: Coordinator of the above Thematic Unit. 2016-2020: Director of the program.  
 2009 – 2018 Member of the Faculty Body, ROSE School (Centre for Post-Graduate Training and Research in Earthquake Engineering and Engineering Seismology), and UME (Understanding and Managing Extremes) Centre, Pavia.  
 2005 – 2018 Member of the Faculty Body at the Erasmus Mundus program MEEES (European Masters in Earthquake Engineering and Engineering Seismology).  
 2011 – 2013 Member of the Faculty Body at the Erasmus Mundus program EU-NICE (Eurasian University Network on International Cooperation in Earthquakes) at the University of Patras and at the University of Rome Sapienza.  
 Summers 1991 & 1990 Visiting Professor, Swiss Federal Laboratories for Materials Testing and Research (EMPA).

- May 1989 – Jan. 1990 Postdoctoral Associate, Department of Civil Engineering, Massachusetts Institute of Technology (MIT).
- 1985 – 1989 Research Assistant, Department of Civil Engineering, Massachusetts Institute of Technology (MIT).

### AREAS OF SPECIALIZATION

- Application of advanced materials in structural engineering, with a focus on strengthening and retrofitting (seismic and energy) of concrete and masonry structures.
- Cement-based and polymer-based composites.
- Steel-concrete composite structures, prefabricated structural sandwich panels.
- Lightweight materials (concrete, cellular materials).
- Alkali-activated materials.
- Structural health monitoring.

### SOCIETY MEMBERSHIP

- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- fédération internationale du béton (*fib*)
- International Union of Testing and Research Laboratories for Materials and Structures (RILEM)
- International Institute for FRP in Construction (IIFC)
- Greek Scientific Society for Concrete Research
- Technical Chamber of Greece
- Greek Society of Civil Engineers

### COMMITTEE MEMBERSHIP

- 2014 – Present *fib* (International Federation for Structural Concrete), Head of the Greek Delegation, member of the Technical Council, member of the General Assembly.
- 2016 – Present *fib* Task Group 10.1 “Model Code 2020”, Member.
- 2023 – Present International Institute for FRP in Construction (IIFC), Member of the International Advisory Committee.
- 2021 – Present International Society for Basalt Fibers and Composites, Member of the Council of Experts.
- 2019 – Present RILEM Technical Committee MCC “Mechanical Characterization and Structural Design of Textile Reinforced Concrete”, Member.
- 2019 – Present RILEM Technical Committee IMC “Durability of Inorganic Matrix Composites used for Strengthening of Masonry Constructions”, Member.
- 2017 – Present *fib* Task Group 2.10 “Textile Reinforced Concrete Construction and Design”, Member.
- 2016 – Present *fib* Task Group 3.4 “Selection and Implementation of Interventions / through Life Management Activities and Measures for Concrete Structures”, Member.
- 2016 – Present American Concrete Institute Committee 549 “Thin Reinforced Cementitious Products and Ferrocement”, Member.
- 2014 – Present ELOT/TC67 “Eurocodes”, Member.

- 2014 – Present *fib* Task Group 5.1 “FRP Reinforcement for Concrete Structures”, Member, Convenor of Sub-Group on “Externally Applied Reinforcement”.
- 2014 – Present CEN/TC250/WG4 “Fibre Reinforced Polymer Structures”, Member.
- 2012 – Present CEN/TC250/SC2/WG1/Task Group 1 “Strengthening and Reinforcing with Fibre Reinforced Polymers”, Member.
- 2009 – Present *fib* Task Group 2.6 “Composite Concrete-Steel Structures”, Corresponding Member.
- 1993 – Present American Concrete Institute Committee 440 “Fiber Reinforced Polymer Reinforcement”, Associate Member. Subcommittee 440-F (Repair), Member.
- 2020 – 2022 Joint TCG-EPPO Working Group “Harmonization and Normalization of Clauses for the Seismic Evaluation of Buildings”, Member.
- 2010 – 2019 International Institute for FRP in Construction (IIFC), Member of the Honours Committee.
- 2018 – 2021 Expert Panel on Science and Technology of Constructions and the Built Environment - Fellowships, Flanders Fund for Scientific Research (FWO), Chairman.
- 2018 – 2020 Scientific Council of Engineering Sciences, Greek General Secretariat for Research and Technology, Member.
- 2017 – 2019 Committee of Special Consultants to the Greek Earthquake Planning and Protection Organization on the “Code for Assessment and Interventions on Existing Masonry Buildings”, Member.
- 2012 – 2019 RILEM Technical Committee 250-CSM “Composites for Sustainable Strengthening of Masonry”, Member.
- 2010 – 2019 International Institute for FRP in Construction (IIFC), Member of the Honours Committee.
- 2013 – 2018 Expert Panel on Science and Technology of Constructions and the Built Environment, Flanders Fund for Scientific Research (FWO), Member.
- 2016 – 2018 Greek Foundation for Research and Innovation, Member of the General Assembly.
- 2003 – 2017 International Institute for FRP in Construction, Member of the Council.
- 2009 – 2016 RILEM Technical Committee 234-DUC “Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures”, Member.
- 1996 – 2014 *fib* Commission 9, Task Group 9.3 “FRP Reinforcement for Concrete Structures”, Member, Convenor of Sub-Group on “Externally Bonded Reinforcement”.
- 2009 – 2013 RILEM Technical Committee 232-TDT “Test Methods and Design of Textile Reinforced Concrete”, Member.
- 2007 – 2013 *fib*, Deputy of the Greek Delegation and member of the Technical Council.
- 2008 – 2012 *fib* Special Activity Group 5 “Model Code 2010”, Invited Expert.
- 2007 – 2012 RILEM Technical Committee 223-MSC “Masonry Strengthening with Composite Materials”, Member.
- 2004 – 2008 RILEM Technical Committee “FRP-Concrete Bond in Structural Strengthening and Rehabilitation”, Member.
- 2003 – 2008 RILEM Technical Committee 201-TRC “Textile Reinforced Concrete”, Member.
- 2004 Committee of Special Consultants to the Greek Earthquake Planning and Protection Organization on the “Code for Interventions on Existing Reinforced Concrete Buildings”, Member.
- 2000 – 2003 *fib* Commission 7, Task Group 7.1 “Assessment and Retrofit of Existing Structures”, Member.
- 1999 – 2002 IABSE Technical Committee, Working Group 23 on “Application of New Materials in Structural Engineering”, Member.
- 1995 – 1998 COST C1 (Civil Engineering Structural Connections), Polymeric Composites Working Group 7 (EU-supported Committee), Member.

- 1991 – 1998 American Society of Civil Engineers - Materials Engineering Division, Technical Committee for Structural Composites and Plastics, Member.
- 1995 – 1997 Technical Chamber of Greece: (a) District Council of Technological Education, (b) Committee on Continuing Education.

### RESEARCH PERFORMANCE INDICES

- Citations: 17712 (Google Scholar, 16/01/2024).
- h-index: 59 (Google Scholar, 16/01/2024).
- Ranked 23<sup>rd</sup> worldwide in Civil Engineering (career-long data) in accordance with the October 2023 global database produced by Stanford University (“standardized citation indicators”).

### AWARDS

8. *fib* (International Federation for Structural Concrete) Fellow 2023 Award for providing continuous outstanding contributions to the development of concrete and concrete structures and to the development of the *fib*.
7. Flanders Research Foundation Medal for guiding Flemish (Belgium) Research in the field of Science and Technology of Constructions and the Built Environment (2022).
6. IIFC (International Institute for FRP in Construction) Medal of outstanding research impact (2010).
5. Golden Mirko Roš Medal for life’s work in the field of Materials and Engineering Science (2007), Swiss Federal Laboratories for Materials Testing and Research (EMPA).
4. Best Basic Research Paper Award in 2003, *ASCE Journal of Composites for Construction*, for the paper: Antonopoulos, C. P. and Triantafillou, T. C. (2003). “Experimental Investigation of FRP-Strengthened RC Beam-Column Joints”, 7(1), 39-49.
3. Honorable Mention Applied Research Paper Award in 2002, *ASCE Journal of Composites for Construction*, for the paper (names in alphabetical order): Bakis, C. E., Bank, L. C., Brown, V. L., Cosenza, E., Davalos, J. Lesko, J. J., Machida, A., Rizkalla, S. H., and Triantafillou, T. C. (2002). “Fiber-Reinforced Polymer Composites for Construction – State-of-the-Art Review”, 6(2), 73-87.
2. Best Research Paper Award in 1997, *ASCE Journal of Materials in Civil Engineering*, for the paper: Triantafillou, T. C. (1997). “Shear Reinforcement of Wood Using FRP Materials”, 9(2), 65-69.
1. Fulbright Senior Research Award, 1996.

### JOURNAL EDITOR & EDITORIAL BOARDS

- *Journal of Composites for Construction* (ASCE), Associate Editor (2019 – today), International Editorial Board (1999 – 2019).
- *Journal of Composites Science*, Associate Editor (2016 – today).
- *Earthquakes and Structures*, International Editorial Board (2014 – today).
- *Journal of Rehabilitation in Civil Engineering*, International Editorial Board (2021 – today).
- *Revista Portuguesa de Engenharia de Estruturas*, International Editorial Board (2021-today).
- *International Review of Civil Engineering*, International Editorial Board (2010 – today).
- *NED University Journal of Research*, International Editorial Board (2014 – today).
- *Bulletin of the Polytechnic Institute of Jassy* (Romania), Section Construction and Architecture, International Editorial Board (2008 – today).
- *Structural Concrete* (Journal of the *fib*), Editorial Advisory Board (2018 – 2022).

- *International Journal of Sustainable Materials and Structural Systems*, International Editorial Board (2012 – 2018).
- *Journal of Textiles*, International Editorial Board (2012 – 2016).
- *Journal of Materials in Civil Engineering* (ASCE), Guest Editor of Special Issue 13(2), Mar/Apr 2001. Editorial on “Fracture Mechanics in Concrete Repair/Strengthening”.

### OTHER HONORS

- >110 invited lectures in Universities, industry, and professional organizations.
- Member of the International Advisory Board, Institute for Sustainability and Innovation in Structural Engineering (ISISE), funded by the Portuguese Science Foundation, 2014-2020.
- Member of the Catalonia Universities Faculty Selection Committee, 2017-2018, 2019-2020, 2021-2022.
- Invited Expert by the European Commission on “Advanced and Novel Seismic and Energy Upgrading Technologies for Concrete, Masonry, Steel and Timber Buildings”, 2019-2020.
- Scientific Coordinator of Online Training Course on “Structural Applications of Alkali-Activated Concrete”, 2022.
- International Liaison to the Project Advisory Committee of the ASCE project “Pre-Standard for Load Resistance Factor Design (LRFD) of Pultruded Fiber Reinforced Polymer (FRP) Structures”, 2008-2010.
- Organizer of the (biannual) International Conference FRPRCS-8 (Fiber Reinforced Polymers in Reinforced Concrete Structures – 8) in 2007.
- National Expert on behalf of the Hellenic General Secretariat for Research and Technology for the period 2004-2006, 6<sup>th</sup> Framework Programme of the European Commission, “Specific measures and actions regarding the 1<sup>st</sup> specific programme”.
- Selected coordinator of the EC-funded research projects in the area of “Improved Performance of Concrete in Structures”, within the framework of the program “Targeted Research Action - Environmentally Friendly Construction Technologies”, carried out by the European Council for Construction Research, Development and Innovation, 1997 - 2001.
- Invited Expert for the evaluation of the Research Quality in Lithuanian Universities (Research and Higher Education Monitoring and Analysis Centre - MOSTA), 2015.
- Invited Expert for the evaluation of the Research Quality in Italy (VQR 2004-2010), 2012-2013.
- Invited Expert for the evaluation of the Research Quality in Latvian Universities and Research Centers (Latvian Ministry of Education and Science), 2013, 2020.
- Invited Expert by the Ministry of Education, Youth and Sports of the Czech Republic for the evaluation of the Research Centres: (a) Advanced Building Materials, Structures and Technologies Centre, Brno University of Technology (2015), (b) West Bohemian Centre of Materials and Metallurgy (2014), (c) Transportation Research Centre (2014) and (d) Centre for Advanced Materials Research in Brno University of Technology (2013).
- Invited expert for the interim and final evaluation of 8 research projects and 1 Center of Excellence funded by the European Commission within the framework of FP7 and H2020.
- Invited expert for the evaluation of research proposals in the European Commission (ERC Advanced Grants, Horizon 2020, Eurostars-Eureka, EIT RawMaterials, FP7, FP6, Growth, Brite/Euram), European Science Foundation, USA (NSF), Italy (MURST - Italian Ministry of University and Research, Cariplo Foundation), Hong Kong (Research Grants Council), Australia (Australian Research Council), Belgium (Fund for Scientific Research – Flanders), Portugal (Portuguese Foundation for Science and Technology), Israel (Israel Science Foundation), Canada (NSERC, Mitacs Accelerate), Cyprus (Research Foundation, Cyprus University of Technology), Poland (Polish-Norwegian Research Programme), the Czech Republic (Technology Agency of the

Czech Republic), Slovenia (Research Agency), Qatar (National Research Fund), Romania (Executive Agency for Higher Education, Research, Development and Innovation Funding), Latvia (Latvian Council of Science), Oman, Saudi Arabia, German-Israeli Foundation for Scientific Research and Development, ERA-NET, ERA-MIN, ERA-NET RUS, and Greece (GSRT, HFRI, YPEPTH, SSF, NTUA).

- Co-ordinator of the 1<sup>st</sup> *fib* course on “Strengthening with Externally Bonded FRP Reinforcement – Behaviour, Design and Applications”, Divani Caravel, Athens, May 4-5, 2003.
- Workshops on International Research on Advanced Composites in Construction (IRACC 96, 97, 98, 99), Bologna, Sapporo, Naples, Cincinnati, Invited Delegate.
- Reviewer of 867 papers in 109 International Journals:
 

ACI Materials Journal, ACI Special Publication, ACI Structural Journal, Advanced Composites Letters, Advances in Civil Engineering, Advances in Concrete Construction, Advances in Materials Science and Engineering, Advances in Structural Engineering, Ain Shams Engineering Journal, Applied Composite Materials, Applied Sciences, Arabian J. for Science and Engineering, Automation in Construction, Bridge Engineering, Buildings, Bulletin of Earthquake Engineering, Canadian Journal of Civil Engineering, Cement and Concrete Composites, Composites Engineering, Composites Part A: Appl. Sc. & Manufact., Composites Part B: Engineering, Composites Science & Technology, Composite Structures, Computer-Aided Civil and Infrastructure Engineering, Computers and Concrete, Computers and Structures, Concrete International, Construction and Building Materials, Construction Materials (ICE), Earthquake Engineering & Engineering Vibration, Earthquake Engineering & Structural Dynamics, Earthquake Spectra, Earthquakes and Structures, Engineering & Computational Mechanics, Engineering Failure Analysis, Engineering Journals, Engineering Science and Technology, Engineering Structures, European J. of Environmental and Civil Engineering, European Journal of Mechanics – A/Solids, Experimental Mechanics, Fibers, Finite Elements in Analysis and Design, Frattura ed Integrità Strutturale, Frontiers, Ingenieria e Investigacion, Int. J. of Concrete Struct. and Materials, International J. of Engineering, Intern. J. of Forensic Engineering, International Journal of Fracture, Int. J. of Masonry Research and Innovation, Int. J. of Mater. and Product Technology, International Journal of Masonry Research and Innovation, International Journal of Mechanical Sciences, International Journal of Polymer Science, International J. of Solids and Structures, International J. of Structural Engineering, International Journal of Structural Integrity, International Journal of Technology, International Journal of Thermal Sciences, Iranian Journal of Science and Technology, Journal of Advanced Concrete Technology, Journal of Applied Mathematics, Journal of Architectural Engineering (ASCE), Journal of Bridge Engineering (ASCE), Journal of Building Engineering, J. of Civil Engineering & Construction Technology, J. of Composites for Construction (ASCE), Journal of Composite Materials, Journal of Composites Science, Journal of Composites Tech. and Research, J. of Cultural Heritage, Journal of Earthquake Engineering, Journal of Engineered Fibers and Fabrics, Journal of Engineering Mechanics (ASCE), Journal of Engineering Research, Journal of Marine Science and Engineering, J. of Materials in Civil Engineering (ASCE), Journal of Materials Science, J. of Mechanics of Materials and Structures, J. of Rehabilitation in Civil Engineering, J. of Sandwich Structures and Materials, J. of Seismology and Earthquake Engineering, Journal of Structural Engineering (ASCE), Journal of Textile Science and Engineering, Journal of Zhejiang University – Science A, Korean Society of Civil Engineering Journal, Kuwait Journal of Science and Engineering, Materials, Materials and Structures (RILEM), Mathematical Problems in Engineering, Nanomaterials, Ned University Journal of Research – Materials, Philosophical Magazine A, Polymers, Pract. Period. on Str. Des. and Constr. (ASCE), Progress in Disaste Managent, Research Letters in Materials Science, Smart Structures and Systems, Soil Dynamics and Earthquake Engineering, Steel and Composite Structures, Structural Concrete (*fib*), Structural Engineering and Mechanics, Structural Engineering International (IABSE), Structure and Infrastructure Engineering, Structures and Buildings, Structures, Sustainability, Technika Chronika, The Arabian J. for Science and Engineering, The Scientific World Journal – Civil Engineering.
- Member of International Editorial Board of the book “Seismic Assessment and Rehabilitation of Historic Structures”, published by IGI Global, 2015.
- Reviewer of: ASTM STP 1323 “Composite Materials in Non-Aerospace Applications”.
- Reviewer of 6 book proposals (3 for Elsevier, 2 for John Wiley & Sons, 1 for Woodhead Publishing).
- MIT Research and Teaching Assistantships, 1985-1989.
- Fulbright Scholarship (*awarded but not accepted*), 1985.
- National Scholarship Foundation University Scholarships, 1981-1985.

## COURSES TAUGHT

### (a) Undergraduate

- Structures Laboratory (M.I.T.)
- Design of Concrete and Steel Structures (M.I.T.)
- Structural Materials (Univ. of Patras)
- Mechanics of Materials (Univ. of Patras)
- Introduction to Mechanics of Materials (Univ. of Patras)
- Steel-Concrete Composite Structures (Univ. of Patras)
- Repair and Strengthening of Reinforced Concrete Structures (Univ. of Patras)
- Advanced Materials and Structural Technologies (Univ. of Patras)
- Introduction to Civil Engineering (part of the course) (Univ. of Patras)
- Structural Systems (New York U. Abu Dhabi)
- Advanced Structural Systems (New York U. Abu Dhabi)
- Concrete Structures Design (New York U. Abu Dhabi)
- Advanced Solid Mechanics (New York U. Abu Dhabi)

### (b) Graduate

- Behavior and Design of Steel Structures (M.I.T.)
- Innovative Structural Technologies (M.I.T.)
- Advanced Materials and Retrofit Technologies (Univ. of Patras & ROSE School, Pavia)
- Advanced Structural Materials: Behavior and Applications (Univ. of Patras)
- Advanced Mechanics of Materials (Univ. of Patras)
- Seismic Design of Structures (Hellenic Open University)

### (c) Short Courses

- Seismic Retrofitting of Existing Structures using Textile Reinforced Mortar Overlays (Univ. of Patras)
- Strengthening and Seismic Retrofitting of Concrete and Masonry Structures with Textile-based Materials (Politecnico di Milano)
- Strengthening and Seismic Retrofitting with Advanced Composites (Univ. of Rome Sapienza)
- Confinement and Seismic Retrofitting with FRP (Univ. of Ghent)
- Strengthening and Seismic Retrofitting of RC Structures with FRP (*fib* Courses)

## PUBLICATIONS

### (a) Books

- B12. *Novel Technologies for the Seismic Upgrading of Existing European Buildings*, JRC Technical Report, 2022, 59 pages (co-authors: Triantafillou, T. C., Gkournelos, P. D., and Bournas, D. A.).



- B11. *Overview of Combined Seismic and Energy Upgrading Technologies for Existing Buildings*, JRC Science for Policy Report, 2022, 37 pages (co-authors: Pohoryles, A. D., Bournas, D. A., Da Porto, F., Santarsiero, G. and Triantafillou, T.).
- B10. *Integrated Techniques for the Seismic Strengthening and Energy Efficiency of Existing Buildings*, JRC Technical Report, 2021, 90 pages (co-authors: Pohoryles, A. D., Bournas, D. A., Da Porto, F., Santarsiero, G. and Triantafillou, T.).
- B9. *Combined Seismic and Energy Upgrading of Existing Buildings using Advanced Materials*, JRC Technical Report, 2019, 65 pages (co-authors: Gkournelos, D. P., Bournas, D. A. and Triantafillou, T. C.).
- B8. *Structural Materials*, GOTSIS Publishers, 2017, 488 pages (in Greek).
- B7. *Steel-Concrete Composite Structures*, GOTSIS Publishers, 2016, 318 pages (in Greek).
- B6. *Mechanics of Materials*, GOTSIS Publishers, 2015, 392 pages (in Greek).
- B5. *Strengthening of Reinforced Concrete Structures with Composite Materials*, GOTSIS Publishers, 2003, 110 pages (in Greek). Includes CD with design software.
- B4. *Steel-Concrete Composite Structures*, Hellenic Open University Program on Earthquake Engineering and Earthquake-Resistant Structures, 2003, 145 pages (in Greek).
- B3. *Seismic Design and Drywalling*, Giourdas Press, 2010, 280 pages, Translation of English edition in Greek.
- B2. *Textile Fibre Composites in Civil Engineering*, editor, Woodhead Publishing, 2016, 468 pages.
- B1. *Fiber-Reinforced Polymer Reinforcement for Concrete Structures*, Proceedings of the 8<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-8), editor, University of Patras, 2007, 733 pages + CD with 311 papers.

#### (b) Book Chapters

- C40. Co-author of Chapter 6 of the *fib Bulletin 103* “Guide for Strengthening of Concrete Structures” titled: Ch. 6 – *Externally Applied Textile Reinforced Systems* (42 p.), 2022.
- C39. Main author of Chapter 1 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 1 – *General* (5 p.), 2019.
- C38. Main author of Chapter 2 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 2 – *Materials, Systems and Techniques* (19 p.), 2019.
- C37. Main author of Chapter 4 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 4 – *Durability Considerations* (9 p.), 2019.
- C36. Main author of Chapter 6 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 6 – *Ultimate Limit States for Predominantly Static Loads and Fatigue* (38 p.), 2019.
- C35. Secondary author of Chapter 3 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 3 – *Basis of Design and Structural Analysis* (15 p.), 2019.
- C34. Co-author of Chapter 5 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 5 – *Bond* (29 p.), 2019.
- C33. Co-author of Chapter 7 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 7 – *Serviceability Limit States* (10 p.), 2019.
- C32. Co-author of Chapter 8 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 8 – *Ultimate Limit States in Seismic Retrofitting* (40 p.), 2019.
- C31. Co-author of Chapter 9 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 9 – *Detailing* (17 p.), 2019.
- C30. Co-author of Chapter 10 of the *fib Bulletin 90* “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 10 – *Practical Execution and Quality Control* (19 p.), 2019.
- C29. Chapter 13 of the book “Textile Fibre Composites in Civil Engineering” titled: *Strengthening of Existing Concrete Structures: Concepts and Structural Behavior* (20 p.), Woodhead Publishing, 2016, Edited by T. C. Triantafillou.



- C28. Chapter 15 of the book “Textile Fibre Composites in Civil Engineering” titled: *Strengthening of Existing Masonry Structures: Concepts and Structural Behavior* (14 p.), Woodhead Publishing, 2016, Edited by T. C. Triantafillou.
- C27. Chapter 16 of the book “Textile Fibre Composites in Civil Engineering” titled: *Strengthening of Existing Masonry Structures: Design Models* (20 p.), Woodhead Publishing, 2016, Edited by T. C. Triantafillou.
- C26. Co-author of Chapter 8 of the RILEM State-of-the-Art Report “Design Procedures for the Use of Composites in Reinforced Concrete Structures” titled: Ch. 8 – *NSM Systems* (46 p.), Springer, 2015, Edited by C. Pellegrino and J. M. Sena-Cruz.
- C25. Co-author of Chapter 5.5 - *Non-Metallic Reinforcement* in the *fib* Model Code 2010, 2013.
- C24. Co-author of Chapter 6.2 - *Bond of Non-Metallic Reinforcement* in the *fib* Model Code 2010, 2013.
- C23. Co-author of Chapter 12 of the book “Seismic Evaluation and Rehabilitation of Structures” titled: Ch. 12 – *Bond Strength of Lap Splices in FRP and TRM Confined Concrete: Behaviour and Design* (16 p.), Springer, 2013, Edited by A. Ilki and M. N. Fardis.
- C22. Co-author of Chapter 13 of the book “Innovative Materials and Techniques in Concrete Construction” titled: Ch. 13 – *Innovative Textile-Based Cementitious Composites for Retrofitting of Concrete Structures* (16 p.), Springer, 2012, Edited by M. N. Fardis.
- C21. Chapter 5 of the book “Composite Materials – A Vision for the Future” titled *Textile-Reinforced and Polymer Modified Mortars (TRM): A New Generation of Composite Materials for Strengthening and Seismic Retrofitting of Structures* (16 p.), Springer, 2011, Edited by L. Nicolais, M. Meo and E. Milella.
- C20. Co-author of Chapter 36 of the book “Advances in Performance-Based Earthquake Engineering” titled: Ch. 36 – *Innovative Seismic Retrofitting of RC Columns Using Advanced Composites* (12 p.), Springer, 2010, Edited by M. N. Fardis.
- C19. Co-author of Chapter 7 of the RILEM State-of-the-Art Report 36 “Textile Reinforced Concrete” titled: Ch. 7 – *TRC in Rehabilitation* (16 p.), 2006.
- C18. Chapter 1 of the *fib* Bulletin 35 “Retrofitting of Concrete Structures by Externally Bonded FRPs” titled: *General Concepts and Design Aspects – Materials and Techniques* (27 p.), 2006.
- C17. Co-author of Chapter of the book “Perspectives in Civil Engineering: Commemorating the 150<sup>th</sup> Anniversary of the American Society of Civil Engineers” titled *Fiber-Reinforced Polymer Composites for Construction – State-of-the-Art Review* (15 p.), ASCE, 2003, Edited by J. S. Russell.
- C16. Co-author of Chapter 5 of the *fib* Bulletin 24 “Seismic Assessment and Retrofit of Reinforced Concrete Buildings” titled: *Seismic Retrofitting Techniques* (contribution: 12 p.), 2003.
- C15. Chapter 1 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 1 – *Introduction* (5 p.), 2001.
- C14. Chapter 2 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 2 – *FRP Strengthening Materials and Techniques* (15 p.), 2001.
- C13. Chapter 5 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 5 – *Strengthening in Shear and Torsion* (10 p.), 2001.
- C12. Main author of Chapter 4 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 4 – *Flexural Strengthening* (32 p.), 2001.
- C11. Main author of Chapter 9 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 9 – *Special Design Considerations and Environmental Effects* (10 p.), 2001.
- C10. Co-author of Chapter 3 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 3 – *Basis of design and safety concept* (10 p.), 2001.
- C9. Co-author of Chapter 6 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” Ch. 6 – *Confinement* (15 p.), 2001.
- C8. Co-author of Chapter 7 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” titled: Ch. 7 – *Detailing Rules*, 2001.

- C7. Chapter 15 of the special edition “Bauingenieur: München Massivbau 2000-Forschung, Entwicklungen und Anwendungen”. Title: *Strengthening of Masonry with FRP*, Springer Verlag, 2000, Edited by K. Zilch.
- C6. Chapter II-8 of the book “Sustainable Raw Materials”. Title: *Construction and Demolition Waste in Greece*, RILEM Report 22, RILEM Publications S.A.R.L., 2000, Edited by Ch. F. Hendriks and H. S. Pietersen.
- C5. Chapter 9 of the book “Failure Analysis of Industrial Composite Materials”. Title: *Composites as Strengthening Materials of Concrete Structures*, McGraw Hill, 2000, Edited by M. Gdoutos, K. Pilakoutas and C. Rodopoulos, 407-447.
- C4. Co-author (3/4 Sections) of Chapter 2 of the book “Assessment of Seismic Damage, Repair and Strengthening of Historic Structures”, Hellenic Open University Program on Earthquake Engineering and Earthquake-Resistant Structures. Title: *Materials and Methods of Construction in Old Masonry Structures* (20 p.), 2004, (in Greek).
- C3. Chapter 3 of the book “Assessment of Seismic Damage, Repair and Strengthening of Historic Structures”, Hellenic Open University Program on Earthquake Engineering and Earthquake-Resistant Structures. Title: *Elements of the Mechanics of Masonry*, (35 p.), 2004, (in Greek).
- C2. Co-author (3/4 Sections) of Chapter 6 of the book “Assessment of Seismic Damage, Repair and Strengthening of Historic Structures”, Hellenic Open University Program on Earthquake Engineering and Earthquake-Resistant Structures. Title: *Intervention Measures and Redesign* (35 p.), 2004, (in Greek).
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#### (e) Articles in Non-Refereed Journals (Invited)

7. Pavlopoulou, E. P. and Triantafillou, T. (2018) "Strengthening of Masonry Infills with Advanced Composites", *Bulletin of School of Science and Technology*, Hellenic Open University, Vol. 4, (in Greek).
6. Triantafillou, T. C. (2001) "FRPs as Strengthening Materials of Structures: Recent Design Guidelines – Part A", *Bulletin of the Greek Society of Civil Engineers*, 285, 40-44, (in Greek).
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4. Triantafillou, T. C. (2000) "Strengthening of Structures with Composite Materials", *Bulletin of the Greek Society of Civil Engineers*, 275, 14-22, (in Greek).
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#### (f) Keynote Papers

26. Azdejkovic, L. and Triantafillou, T. C. (2023) "Innovative Retrofitting of RC Structures using Textile-Reinforced Alkali-Activated or Cement-Based Mortar Overlays: Application in Short Columns", *fib Symposium 2023*, Istanbul, June 5-7.
25. Triantafillou, T. C. (2023) "Seismic and Energy Retrofitting of Structures using Advanced Textile-based Composites", *Civil, Structural and Environmental Engineering, CIVILMEET2023*, Brussels, May 18-20.
24. Triantafillou, T. C. (2022) "Seismic Retrofitting of Natural Stone Masonry Walls with Basalt- and Natural Fiber-based Textile Reinforced Mortars made of Natural Hydraulic Lime or Alkali-Activated Materials", *2<sup>nd</sup> International Conference on Basalt Fibers and Composites (ICBFC-2022)*, China, November 9-11.
23. Triantafillou, T. C. (2022) "Seismic and Combined Seismic/Energy Retrofitting of Existing Structures with Textiles", *5<sup>th</sup> Greek Conference of Earthquake Engineering and Engineering Seismology*, Athens, October 2022.
22. Triantafillou, T., Karlos, K., Tsantilis, A. and Kapsalis, P. (2021) "Integrated Seismic and Energy Retrofitting System using Textile-Reinforced Mortars Combined with Thermal Insulation", *10<sup>th</sup> International Conference on FRP Composites in Civil Engineering, CICE 2020/2021*, Istanbul, December 8-10.

21. Triantafillou, T. C. (2020) “Integrated Structural and Energy Retrofitting of Existing Structures using Textile-based Cementitious Composites”, *XXII International Construction Forum “Cement, Concrete, Dry Mixtures”*, Moscow, November 10-12.
20. Triantafillou, T. C. (2020) “Smart Seismic and Energy Retrofitting of Structures using Textile-based Composites”, *2020 International Conference on Frontiers of Smart Materials and Structures (CFSMS 2020)*, Athens, Greece, January 10-12.
19. Triantafillou, T. C. (2019) “Innovative System for the Combined Structural and Energy Retrofitting of Existing Structures using Advanced Composite Materials”, *1<sup>st</sup> International Conference on Basalt Fibers and Composites (ICBFC-2019)*, Nanjing/Hengshui, China, November 16-18.
18. Triantafillou, T. C. (2019) “Integrated Seismic and Energy Retrofitting of Existing Structures”, *4<sup>th</sup> Greek Conference of Earthquake Engineering and Engineering Seismology*, Athens, September 2019.
17. Triantafillou, T. C. (2018) “Innovative Prefabricated System for Combined Structural and Energy Retrofitting of Buildings”, *5<sup>th</sup> International Conference Precast Housing Production, Design and Construction*, Moscow, November 28-30.
16. Triantafillou, T. C. (2018) “Strengthening of Reinforced Concrete Structures with Textile-Based Composites”, *18<sup>o</sup> Greek Concrete Conference*, Athens, March 29-31.
15. Triantafillou, T. C. (2017) “Textile-reinforced cementitious materials in structural and energy retrofitting of concrete structures”, *9<sup>th</sup> International Symposium on Cement and Concrete*, Wuhan, China, October 31 – November 3.
14. Triantafillou, T. C. (2016) “Seismic Retrofitting of Concrete and Masonry Structures with Composites”, *International Workshop on FRP Seismic Retrofitting*, French Association of Civil Engineering, Lyon, France, September 19-20.
13. Koutas, L. N., Triantafillou, T. C. and Bousias, S. N. (2015) “Seismic Retrofitting of a Three-storey Masonry-infilled RC Frame with Textile-Reinforced Mortar (TRM)”, *12<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-12) & 5<sup>th</sup> Asia-Pacific Conference on Fiber Reinforced Polymers in Structures (APFIS-2015)*, Nanjing, China, December 14-16.
12. Triantafillou, T. C. (2012) “Textile-based Cementitious Composites versus Fiber Reinforced Polymers (FRP) as Strengthening and Seismic Retrofitting Materials of Reinforced Concrete Structures”, *4<sup>th</sup> International Scientific and Technical Conference on the Construction, Operation and Repair of Concrete and Reinforced Concrete Structures of Transport Facilities (ReCon2012)*, Moscow, November 28-30.
11. Triantafillou, T. C. and Papanicolaou, C. (2012) “Innovative Applications of Textile-based Composites in Strengthening and Seismic Retrofitting as well as in the Prefabrication of New Structures”, *1<sup>st</sup> International Conference on Advances in Civil Infrastructure Engineering*, Changsha, Hunan, China, September 14-16.
10. Triantafillou, T. C. (2012) “Textile-based Composites versus FRP as Strengthening and Seismic Retrofitting Materials of Concrete and Masonry Structures”, *3<sup>rd</sup> International Conference on Concrete Repair, Rehabilitation and Retrofitting*, Cape Town, South Africa, September 5-7.
9. Triantafillou, T. C. (2011) “Innovative Strengthening and Seismic Retrofitting of Concrete and Masonry Structures using Textile-based Composites”, *7<sup>th</sup> National Conference on Infrastructure Applications of FRP Composites*, Hangzhou, China, October 15-16.
8. Triantafillou, T. C. (2010) “Innovative Textile-based Composites for Strengthening and Seismic Retrofitting of Concrete and Masonry Structures”, *5<sup>th</sup> International Conference on Composites in Civil Engineering (CICE 2010)*, Beijing, China, September 27-29.
7. Triantafillou, T. C. (2009) “Composite Materials and Concrete”, *16<sup>th</sup> Greek Concrete Conference*, Cyprus, October 21-23.

6. Triantafillou, T. C. (2009) “Strengthening and Seismic Retrofitting of Structures with Advanced Composites”, *International Earthquake Symposium Kocaeli 2009*, Kocaeli, Turkey, August 17-19.
5. Triantafillou, T. C. and Bournas, D. A. (2008) “Innovative Seismic Upgrading of RC Columns in Flexure with NSM Reinforcement and Textile-based Jacketing”, *4<sup>th</sup> International Conference on FRP Composites in Civil Engineering*, Zurich, Switzerland, July 22-24.
4. Triantafillou, T. C. (2007) “Textile-Reinforced Mortars (TRM) versus Fibre-Reinforced Polymers (FRP) as Strengthening and Seismic Retrofitting Materials for Reinforced Concrete and Masonry Structures”, *International Conference on Advanced Composites in Construction (ACIC07)*, University of Bath, UK, April 2-4.
3. Triantafillou, T. C. (2005) “Recent Developments in Strengthening of Concrete Structures with Advanced Composites: Textile Reinforced Mortar Jacketing”, *4<sup>th</sup> Middle East Conference on the Use of Structural Composites in Infrastructure Applications – MESC-4*, Alexandria, Egypt, May 21-23.
2. Triantafillou, T. C. (2004) “Upgrading Concrete Structures using Advanced Polymer Composites”, *2<sup>nd</sup> International Conference on Advanced Polymer Composites for Structural Applications in Construction*, University of Surrey, UK, April 20-22.
1. Triantafillou, T. C. (1998) “Fracture Mechanics Approaches to Concrete Strengthening Using FRP Materials”, *3<sup>rd</sup> International Conference on Fracture Mechanics of Concrete and Concrete Structures*, Gifu, Japan, October 12-16.

**(g) Papers in Conference Proceedings**

140. Arce, A., Kapsalis, P., Papanicolaou, C. G. and Triantafillou, T. C. (2023) “Textile-reinforced Alkali-activated Mortar for in-plane Shear Capacity Improvement of Masonry before and after High Temperature Exposure”, *13<sup>th</sup> International Conference on Structural Analysis of Historical Constructions, SAHC2023*, Kyoto, Japan, September 12-15.
139. Kapsalis, P., Papanicolaou, C. and Triantafillou, T. (2023) “Residual Performance of Alkali-activated TRC after Exposure to High Temperatures”, *11<sup>th</sup> International Conference in Fiber-Reinforced Polymers (FRP) in Civil Engineering, CICE2023*, Rio de Janeiro, Brasil, July 2023.
138. Azdejkovic, L. and Triantafillou, T. (2023) “Seismic Retrofit of RC Short Columns with Textile Reinforced Alkali-activated or Cement-based Mortars”, *11<sup>th</sup> International Conference in Fiber-Reinforced Polymers (FRP) in Civil Engineering, CICE2023*, Rio de Janeiro, Brasil, July 2023.
137. Azdejkovic, L. D., Triantafillou, T. C. and Papanicolaou, C. G. (2023) “Seismic Retrofitting of Clay-brick Masonry Walls with AAM-TRM”, *DuRSAAM2023 Symposium on Durable, Reliable and Sustainable Structures with Alkali-activated Materials*, Ghent, February 2023.
136. Gkournelos, P. and Triantafillou, T. C., (2022) “Out-of-plane Behavior of In-plane Damaged Infilled Frames Seismically and Thermally Retrofitted with Textile-reinforced Mortars”, *5<sup>th</sup> Greek Conference of Earthquake Engineering and Engineering Seismology*, Athens, October 2022.
135. Azdejkovic, L. D. and Triantafillou, T. C. (2022) “Seismic Retrofit of RC Short Columns with Textile Reinforced Jacket Overlays”, *13<sup>th</sup> HSTAM International Congress on Mechanics*, Patras, Greece, August 24-27.
134. Gkournelos, P. and Triantafillou, T. C. (2021) “Integrated Structural and Energy Rerofting of Masonry Walls: The Effect of In-plane Damage on the Out-of-Plane Response”, *10<sup>th</sup> International Conference on FRP Composites in Civil Engineering, CICE 2020/2021*, Istanbul, December 8-10.
133. Kapsalis, P., Tysmans, T. and Triantafillou, T. (2021) “Rapid Heating of Textile Reinforced Concrete: Effect of Textile Coating and Hybrid Textile Layups”, *10<sup>th</sup> International Conference on FRP Composites in Civil Engineering, CICE 2020/2021*, Istanbul, December 8-10.
132. Kapsalis, P., Triantafillou, T. and Tysmans, T. (2021) “Degradation of the Properties of Textile Reinforced Concrete after Fire Exposure”, *75<sup>th</sup> RILEM Annual Week, International Conference*

- on Advances in Sustainable Construction Materials and Structures, Mexico, August 30 – September 3.
131. Kapsalis, P., El Kadi, M., Triantafillou, T., Van Hemelrijck, D. and Tysmans, T. (2021) “Numerical Modelling of the Flexural Capacity of Heated Textile Reinforced Concrete”, 13<sup>th</sup> International Symposium on Ferrocement and Thin Fiber Reinforced Inorganic Matrices, Lyon, France, June 21-23.
  130. Karakasis, I., Papanicolaou, C. and Triantafillou, T. (2021) “Durability of Textile Reinforced Mortars under Harsh Environments”, 13<sup>th</sup> International Symposium on Ferrocement and Thin Fiber Reinforced Inorganic Matrices, Lyon, France, June 21-23.
  129. Kapsalis, P., Triantafillou, T. and Tysmans, T. (2020) “Carbon Textile Reinforced Concrete at Ambient and High Temperatures”, 12<sup>th</sup> Carbon and Textile Reinforced Concrete Days, Dresden, Germany, September 22-23.
  128. Kapsalis, P., Triantafillou, T. and Tysmans, T. (2020) “Flexural Performance of Carbon Textile Reinforced Concrete after Fire Exposure”, 74<sup>th</sup> RILEM Annual Week, Sheffield, UK, August 31 – September 4.
  127. Bedirhanoglou, I., Ilki, A. and Triantafillou, T. (2019) “Effect of Pre-damage on the Seismic Behaviour of FRP Retrofitted Sub-standard Short Columns”, 7<sup>th</sup> Asia-Pacific Conference on FRP in Structures (APFIS 2019), Surfers Paradise, Gold Coast, Australia, December 10-13.
  126. Papanicolaou, C. and Triantafillou, T. (2019) “Performance of TRM/TRC Systems under Elevated Temperatures and Fire Conditions”, ACI Fall Convention, Cincinnati, Ohio, October 20-24.
  125. Gkournelos, P., Bournas, D. and Triantafillou, T. C. (2019) “Combined Seismic and Energy Retrofitting of Existing Structures with Advanced Materials”, 4<sup>th</sup> Greek Conference of Earthquake Engineering and Engineering Seismology, Athens, September 5-7 (in Greek).
  124. Kapsalis, P., Tysmans, T., Verbruggen, S. and Triantafillou, T. (2018) “Preliminary High-temperature Tests of Textile Reinforced Concrete”, paper in Proceedings of 18<sup>th</sup> International Conference of Experimental Mechanics, Brussels, Belgium, July 1-5.
  123. Tsantilis, A. and Triantafillou, T. (2018) “Innovative Seismic Isolation of Masonry Infills using Cellular Materials at the Interface with the Surrounding Frames”, paper ID 10496, 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21.
  122. Karlos, K. and Triantafillou, T. (2018) “Innovative Integrated Seismic and Energy Retrofitting System for Masonry Walls using Textile Reinforced Mortars Combined with Thermal Insulation”, paper ID 11935, 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21.
  121. Kapsalis, P., Vervloet, J., Tsangouri, E., Verbruggen, S., Aggelis, D., Tysmans, T. and Triantafillou, T. (2018) “Investigation of the Bond Properties Between Textile Reinforced Concrete and Extruded Polystyrene Foam”, 12<sup>th</sup> fib International PhD Symposium in Civil Engineering, Prague, Czech Republic, August 29-31.
  120. Karlos, K. and Triantafillou, T. C. (2018) “An Innovative System for Combined Seismic and Energy Retrofitting of Buildings”, 18<sup>th</sup> Greek Concrete Conference, Athens, March 29-31.
  119. Pavlopoulou, E. and Triantafillou, T. C. (2018) “On the Effect of Strengthening Infill Walls in Seismically Retrofitted Buildings”, 18<sup>o</sup> Greek Concrete Conference, Athens, March 29-31 (in Greek).
  118. Triantafillou, T., Karlos, K., Kefalou, K. and Argyropoulou, E. (2017) “An Innovative Structural and Energy Retrofitting System for Masonry Walls using Textile Reinforced Mortars Combined with Thermal Insulation”, 4<sup>th</sup> International Conference on Strain-Hardening Cement-Based Composites (SHCC4), Dresden, Germany, September 17-19.
  117. Tetta, Z., Bournas, D. and Triantafillou, T. (2017) “Shear Capacity of RC Beams Strengthened with TRM Jacketing”, *Advanced Composites in Construction 2017*, Sheffield, UK, September 5-7.
  116. Triantafillou, T., Karlos, K., Kefalou, K. and Argyropoulou, E. (2017) “An Innovative Structural and Energy Retrofitting System for Masonry Walls using Textile Reinforced Mortars Combined with Thermal Insulation”, *Advanced Composites in Construction 2017*, Sheffield, UK, September 5-7.

115. Matthys, S. and Triantafillou, T. (2017) “fib Report on Design of Concrete Members Strengthened with Externally Applied Reinforcement”, *fib Symposium 2017*, Maastricht, The Netherlands, June 12-14.
114. Pantazopoulou, S., Tastani, S., Thermou, G. and Triantafillou, T. C. (2017) “Performance-Based Seismic Retrofitting of RC Structures with FRPs – A Background to European Provisions”, *16<sup>th</sup> World Conference on Earthquake Engineering*, Santiago, Chile, January 9-13.
113. Koutas, L., Triantafillou, T and Bousias, S. (2016) “Seismic Retrofitting of Reinforced Concrete Infilled Frames using Textile Reinforced Mortar Jackets: Experimental and Analytical Study”, *17<sup>th</sup> Greek Concrete Conference*, Thessaloniki, November 10-12 (in Greek).
112. Tzoura, E. and Triantafillou, T. (2016) “Strengthening of T-Beams in Cyclic Shear with Textile-based Jackets”, *17<sup>th</sup> Greek Concrete Conference*, Thessaloniki, November 10-12 (in Greek).
111. Tsantilis, A. and Triantafillou, T. (2016) “Seismic Isolation of Masonry Infills using Cellular Materials: Experimental and Analytical Study”, *17<sup>th</sup> Greek Concrete Conference*, Thessaloniki, November 10-12 (in Greek).
110. Papanicolaou, C., Kaffetzakis, M. and Triantafillou, T. (2016) “Residual Mechanical Properties of Unretrofitted and Retrofitted Members made of Advanced Cement-based Materials after Fire Testing”, *17<sup>th</sup> Greek Concrete Conference*, Thessaloniki, November 10-12 (in Greek).
109. Kolyvas, C. S., Triantafillou, T. C. and Bernakos, A. I. (2016) “FRP Confinement of High-aspect Ratio Columns”, *6<sup>th</sup> International Conference on Concrete Repair*, Thessaloniki, June 20-22 (in Greek).
108. Tzoura, E. and Triantafillou, T. C. (2015) “Shear Strengthening of Reinforced Concrete T-beams under Cyclic Loading with TRM or FRP Jackets”, *12<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-12) & 5<sup>th</sup> Asia-Pacific Conference on Fiber Reinforced Polymers in Structures (APFIS-2015)*, Nanjing, China, December 14-16.
107. Tzoura, E., Triantafillou, T. C., Providakis, C., Tsantilis, A., Papanicolaou, C. G. and Karabalis, D. L. (2015) “Damage Detection of Reinforced Concrete Columns Retrofitted with FRP Jackets by using PZT Sensors”, *International Conference on Recent Advances in Rehabilitation and Sustainability of Structures – RehabStructures 2015*, Azores, June 1-2.
106. Papalou, A., Roubien, D., Triantafillou, T. and Strepelias, E., (2015) “A Passive Control Methodology for Seismic Safety Enhancement of Monumental Structures”, *SPIE Smart Structures/NDE 2015*, San Diego, March 8-12.
105. Papalou, A., Strepelias, E., Roubien, D., Bousias, S. and Triantafillou, T. (2014) “Vibration Control of Classical Columns Using Particle Dampers”, *26<sup>th</sup> International Conference on Noise and Vibration Engineering – ISMA2014*, Leuven, September 15-17.
104. Providakis, C., Stefanaki, K., Triantafillou, T., Voutetaki, M., Tsompanakis, J., Stavroulaki, M., Karabalis, D. and Papanicolaou, C. (2014) “Damage Identification Approach using a Combination of Electromechanical Admittance and Guided Wave Techniques”, *6<sup>th</sup> World Conference on Structural Control and Monitoring*, Barcelona, July 15-17.
103. Papalou, A., Strepelias, E., Roubien, D., Bousias, S. and Triantafillou, T. (2014) “Seismic Response of Monuments using Particle Dampers”, *6<sup>th</sup> World Conference on Structural Control and Monitoring*, Barcelona, July 15-17.
102. Pokharel, S. and Triantafillou, T. (2014) “Seismic Analysis and Retrofitting of Nyatapola Temple in Nepal with Advanced Materials”, *9<sup>th</sup> International Masonry Conference*, Guimaraes, July 7-9.
101. Koutas, L., Bousias, S. N. and Triantafillou, T. C. (2014) “In-plane Behaviour of a Three-storey Masonry Infilled RC Frame”, *4<sup>th</sup> International fib Congress*, Mumbai, February 10-14.
100. Bournas, D. A. and Triantafillou, T. C. (2013) “Modeling of Biaxial Bending in RC Columns Strengthened with Externally Applied Reinforcement in Combination with Confinement”, *11<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-11)*, Guimaraes, June 26-28.
99. Koutas, L., Pitytzogia, A., Triantafillou, T. C. and Bousias, S. N. (2013) “Strengthening of Infilled Reinforced Concrete Frames with Textile-Reinforced Mortar (TRM): A Study on the

- Development and Testing of Textile-based Anchors”, *11<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-11)*, Guimaraes, June 26-28.
98. Kolyvas, C., Bal, I. E., Bernakos, A. and Triantafillou, T. (2013) “Advanced Composite Mortar System for Strengthening of Historical Masonry”, *2<sup>nd</sup> Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, September 9-11.
  97. Kolyvas, C., Bal, I. E., Bernakos, A. and Triantafillou, T. (2012) “Design Examples of a Textile Mortar System for Strengthening of Historical Masonry Structures”, *10<sup>th</sup> International Congress on Advances in Civil Engineering*, Ankara, October 17-19.
  96. Faggella, M., Monti, G., Braga, F., Gigliotti, R., Capelli, M., Spacone, E., Laterza, M., Triantafillou, T., Varum, H., Dost Safi, M., Subedi, J., Dixit, A., Lodi, S., Rahman, Z., Limkatanyu, S., Xiao, Y., Yingmin, L., Kumar, H., Salvatore, W., Cecchini, A. and Lukkunaprasit, P. (2012) “EU-NICE, Eurasian University Network for International Cooperation in Earthquakes – A Development Cooperation Erasmus Mundus Partnership for Capacity Building in Earthquake Mitigation Science and Higher Education”, *15<sup>th</sup> World Conference in Earthquake Engineering*, Lisbon, September 24-28.
  95. Faggella, M., Monti, G., Braga, F., Gigliotti, R., Spacone, E., Laterza, M., Triantafillou, T., Varum, H., Dost Safi, M., Subedi, J., Dixit, A., Lodi, S., Rahman, Z., Limkatanyu, S., Xiao, Y., Yingmin, L., Kumar, H., Salvatore, W., Cecchini, A. and Lukkunaprasit, P. (2012) “EU-NICE, Eurasian University Network for International Cooperation in Earthquakes – A Development Cooperation Erasmus Mundus Partnership for Capacity Building in Earthquake Mitigation Science and Higher Education”, *International Disaster and Risk Conference (IDRC)*, Davos, August 26-30.
  94. Kolyvas, C., Bal, I. E., Bernakos, A. and Triantafillou, T. (2012) “Tensile Properties and Design of Reinforced Mortar Composite Strengthening System”, *14<sup>th</sup> International Conference and Exhibition Structural Faults + Repair 2012*, Edinburg, July 3-5.
  93. Koutas, L. and Triantafillou, T. C. (2012) “Use of Anchors in Shear Strengthening of Reinforced Concrete T-Beams with FRP”, *6<sup>th</sup> International Conference on Composites in Civil Engineering (CICE 2012)*, Rome, Italy, June 13-15.
  92. Dontas, D., Henkel, F. O., Karydis, P., Moyzakis, Ch., Triantafillou, T. C. and Founti, M. (2011) “Seismic Behavior of Steel Building with Dry Wall Infills”, *7<sup>th</sup> Greek National Conference on Steel Structures*, Volos, September 29 – October 1 (in Greek).
  91. Matthys, S. and Triantafillou, T. C. (2011) “Fibre Reinforced Polymer Reinforcement enters the New Model Code”, *fib Symposium*, Prague, June 8-10.
  90. Bournas, D. A. and Triantafillou, T. C. (2011) “Investigation of Bar Buckling in Columns Confined with Composite Material Jackets”, *10<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS10*, Tampa, USA, April 2-4.
  89. Antonopoulos, K. P., Grammenou, T. D. and Triantafillou, T. C. (2010) “Load Bearing Capacity of Masonry using the Flat Jack Technique - Case Studies in Greece”, *7<sup>th</sup> Greek National Conference on Non Destructive Testing*, Athens, October 15-17 (in Greek).
  88. Bournas, D. A. and Triantafillou, T. C. (2010) “Effect of Composite Material Confinement on Bond Strength Between Lap-Spliced Bars and Concrete”, *3<sup>rd</sup> fib Congress*, Washington, May 29 – June 2.
  87. Papanicolaou, C. G. and Triantafillou, T. C. (2009) “Innovative Strengthening of the Building Heritage using Textile-based Composites”, *International Symposium REHABEND 2009*, Bilbao, Spain, Oct. 26-29.
  86. Bournas, D. A. and Triantafillou, T. C. (2009) “Strengthening of Reinforced Concrete Columns in Cyclic Flexure with Near-Surface Mounted Reinforcement”, *16<sup>th</sup> Greek Concrete Conference*, Cyprus, Oct. 21-23 (in Greek).
  85. Bournas, D. A. and Triantafillou, T. C. (2009) “Confinement of Existing Reinforced Concrete Columns with Reduced Deformation Capacity using Local TRM and FRP Jackets”, *16<sup>th</sup> Greek Concrete Conference*, Cyprus, Oct. 21-23 (in Greek).
  84. Papanicolaou, C., Papantoniou, I., Triantafillou, T. C. and Balioukos, C. (2009) “Strengthening of Reinforced Concrete Slabs with Textile-Reinforced Mortars (TRM)”, *16<sup>th</sup> Greek Concrete Conference*, Cyprus, Oct. 21-23 (in Greek).

83. Antonopoulos, C., Liakou, M. and Triantafillou, T. C. (2009) “Retrofitting of Existing Structures: Non-Destructive Assessment, Design of Repair and Strengthening using Advanced Composites and Quality Control of the Technical Execution – Case Studies in Greece and Cyprus”, *16<sup>th</sup> Greek Concrete Conference*, Cyprus, Oct. 21-23 (in Greek).
82. Bournas, D., Triantafillou, T. C. and Matthys, S. (2009) “Textile-Reinforced Mortar (TRM) versus FRP Jacketing for Seismic Retrofitting of Old-Type RC Columns with Lap-Spliced or Continuous Bars”, *9<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS9*, Sydney, Australia, July 13-15.
81. Palmieri, A., Matthys, S., Taerwe, L. and Triantafillou, T. C. (2009) “Study of the Fire Behaviour of Structures Strengthened with NSM”, *9<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS9*, Sydney, Australia, July 13-15.
80. Papanicolaou, C., Triantafillou, T. C., Papantoniou, I. and Balioukos, C. (2009) “Strengthening of Two-Way Slabs with Textile-Reinforced Mortars (TRM)”, *11<sup>th</sup> International fib Symposium*, London, June 22-24.
79. Bournas, D. A., Triantafillou, T. C. and Papanicolaou, C. G. (2009) “Retrofit of Seismically Deficient Columns with Textile Reinforced Mortar (TRM) Jackets”, *4<sup>th</sup> Colloquium on Textile Reinforced Structures (CTRS4)*, Dresden, June 3-5.
78. Papanicolaou, C., Triantafillou, T. C., Papantoniou, I. and Balioukos, C. (2009) “Strengthening of Two-Way Reinforced Concrete Slabs with Textile Reinforced Mortars (TRM)”, *4<sup>th</sup> Colloquium on Textile Reinforced Structures (CTRS4)*, Dresden, June 3-5.
77. Papantoniou, I., Papanicolaou, C. and Triantafillou, T. C. (2009) “Optimum Design of One-Way Concrete Slabs Cast Against Textile Reinforced Concrete Stay-in-Place Formwork Elements”, *4<sup>th</sup> Colloquium on Textile Reinforced Structures (CTRS4)*, Dresden, June 3-5.
76. Bournas, D. A. and Triantafillou, T. C. (2008) “Innovative Seismic Retrofitting of Old-type Reinforced Concrete Columns through Jacketing: Textile-Reinforced Mortars (TRM) versus Fiber-Reinforced Polymers (FRP)”, *14<sup>th</sup> World Conference on Earthquake Engineering*, Beijing, China, October 12-17.
75. Bournas, D. A. and Triantafillou, T. C. (2008) “Flexural Strengthening of RC Columns with Near Surface Mounted FRP or Stainless Steel Reinforcement: Experimental Investigation”, *14<sup>th</sup> World Conference on Earthquake Engineering*, Beijing, China, October 12-17.
74. Bournas, D. A. and Triantafillou, T. C. (2008) “Flexural Strengthening of RC Columns with Near Surface Mounted FRP or Stainless Steel Reinforcement”, *3<sup>rd</sup> Greek Conference on Earthquake Engineering and Engineering Seismology*, Athens, November 5-7 (in Greek).
73. Bournas, D. A., Triantafillou, T. C., Zygouris, C. and Stavropoulos, F. (2008) “Textile-Reinforced Mortar (TRM) versus FRP Confinement in Reinforced Concrete Columns”, *3<sup>rd</sup> Greek Conference on Earthquake Engineering and Engineering Seismology*, Athens, November 5-7 (in Greek).
72. Triantafillou, T. C. (2008) “New Generation of Materials for Strengthening and Seismic Retrofitting of Structures: Textile Reinforced Mortars (TRM)”, *1<sup>st</sup> Greek Conference on Construction Materials*, Athens, May 21-23 (in Greek).
71. Bournas, D. A. and Triantafillou, T. C. (2008) “Experimental Investigation of Flexurally Strengthened RC Columns with Near Surface Mounted FRP or Stainless Steel Reinforcement”, *Challenges for Civil Construction – CCC2008*, Porto, Portugal, April 16-18.
70. Bournas, D., Lontou, P., Triantafillou, T. C. and Papanicolaou, C. G. (2007) “Textile-Reinforced Mortar (TRM) versus FRP Jacketing for Reinforced Concrete Columns”, *8<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS8*, Patras, Greece, July 16-18.
69. Bousias, S. N., Spathis, A.-L., Fardis, M. N., Triantafillou, T. C. and Papanicolaou, T. C. (2007) “Pseudodynamic Tests of Non-Seismically Designed RC Structures Retrofitted with Textile-Reinforced Mortar”, *8<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS8*, Patras, Greece, July 16-18.



68. Aiello, M. A., Sciolti, M. S. and Triantafillou, T. C. (2007) “FRP-strengthened masonry: Bond aspects”, *8<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS8*, Patras, Greece, July 16-18.
67. Karlos, K., Papathanasiou, M., Papanicolaou, C. G. and Triantafillou, T. C. (2007) “Textile-Reinforced Mortar (TRM) versus FRP as strengthening and seismic retrofitting material of masonry structures”, *8<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures – FRPRCS8*, Patras, Greece, July 16-18.
66. Triantafillou, T. C., Papanicolaou, C. G., Bournas, D. and Lontou, P. (2006) “New Generation of Inorganic Matrix Composites (TRM) as Strengthening Materials of Reinforced Concrete Structures”, *15th Greek Concrete Conference*, Alexandroupolis, Oct. 18-20 (in Greek).
65. Papanicolaou, C. G., Triantafillou, T. C., Karlos, K. and Papathanasiou, M. (2006) “New Generation of Inorganic Matrix Composites (TRM) as Strengthening Materials of Unreinforced Masonry Structures”, *15th Greek Concrete Conference*, Alexandroupolis, Oct. 18-20 (in Greek).
64. Papanicolaou, C. G., Fryganakis, D. G. and Triantafillou, T. C. (2006) “Laboratory Testing of Low-Cost Self-Compacting Concrete”, *15th Greek Concrete Conference*, Alexandroupolis, Oct. 18-20 (in Greek).
63. Papanicolaou, C. G., Triantafillou, T. C., Bournas, D. A. and Lontou, P. V. (2006) “TRM as Strengthening and Seismic Retrofitting Material of Concrete Structures”, *1<sup>st</sup> International RILEM Conference on Textile Reinforced Concrete – ICTRC-1, Aachen*, Germany, Sept. 6-7.
62. Papanicolaou, C. G., Triantafillou, T. C., Karlos, K. and Papathanasiou (2006) “Seismic Retrofitting of Unreinforced Masonry Structures with TRM”, *1<sup>st</sup> International RILEM Conference on Textile Reinforced Concrete – ICTRC-1, Aachen*, Germany, Sept. 6-7.
61. Papanicolaou, C. G. and Triantafillou, T. C. (2006) “Textile-Reinforced Cementitious or Polymeric Materials for Strengthening of Concrete Structures”, *2<sup>nd</sup> fib Congress, Naples*, Italy, June 5-8.
60. Triantafillou, T. C. and Papanicolaou, C. G. (2006) “Textile Reinforced Mortars (TRM): New Materials for Concrete Confinement”, *Civil Engineering Infrastructure Systems – CEIS2006*, American University of Beirut, Lebanon, June 12-14.
59. Anastasopoulos, A., Tsimogiannis, A., Toutountzakis, T., Papanicolaou, C. and Triantafillou, T. (2005) “Non-Destructive Testing of Reinforced Concrete Beams using Acoustic Emission”, *5<sup>th</sup> National Conference of the Hellenic Society for Non-Destructive Testing*, Nov. 18-19.
58. Triantafillou, T. C. and Papanicolaou, C. G. (2005) “Textile Reinforced Mortars (TRM) versus Fiber Reinforced Polymers (FRP) as Strengthening Materials of Concrete Structures”, *7<sup>th</sup> International Conference on Fiber-Reinforced Polymers in Reinforced Concrete Structures – FRPRCS7*, Kansas City, USA, November 7-10.
57. Triantafillou, T. C. and Papanicolaou, C. G. (2005) “Textile Reinforced Mortars (TRM) versus Fiber Reinforced Polymers (FRP) for Concrete Confinement”, *Construction Materials: Performance, Innovations and Structural Implications – ConMat’05*, Vancouver, Canada, August 22-24.
56. Karantzikis, M. J., Antonopoulos, C. P. and Triantafillou, T. C. (2005) “Confinement of L-shaped Columns with Anchored FRP Jackets”, *3<sup>rd</sup> International Conference on Composites in Construction – CCC2005*, Lyon, July 11-13.
55. Papanicolaou, C. G., Fryganakis, D. G. and Triantafillou, T. C. (2005) “Self-Compacting Concrete: the Greek Experience”, *fib Symposium “Keep Concrete Attractive”*, Budapest, May 23-25.
54. Triantafillou, T. C. and Papanicolaou, C. G. (2005) “Textile Reinforced Mortars (TRM) as Strengthening Materials for Concrete Structures”, *fib Symposium “Keep Concrete Attractive”*, Budapest, May 23-25.
53. Thoma, Th., Panagiotopoulou, D., Triantafillou, T. C., Kappos, A. J., Stavrakakis, G., Melis, N. and Sokos, E. (2005) “Vulnerability Assessment of Existing Buildings and Development of New Materials and Strengthening Techniques”, *World Conference on Disaster Reduction*, Kobe, Japan, January 18-22 (Poster).

52. Krevaikas, T. and Triantafillou, T. C. (2004) “FRP Jacketing of Masonry Columns”, *2<sup>nd</sup> International Conference on FRP Composites in Civil Engineering*, Adelaide, Australia, December 8 – 10.
51. Krevaikas, T. and Triantafillou, T. C. (2004) “A Computational Procedure for the Design of FRP-strengthened Masonry Subjected to In-plane Loading”, *4<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures*, Calgary, Canada, July 20 – 23.
50. Krevaikas, T. and Triantafillou, T. C. (2004) “Automated Design of FRP-strengthened Masonry”, *11<sup>th</sup> European Conference on Composite Materials*, Rhodes, Greece, May 31 – June 3.
49. Papanicolaou, C. G. and Triantafillou, T. C. (2003) “Self-Compacting Concrete: Overview, Properties and Perspective in Greece”, *14th Greek Concrete Conference*, Kos, Oct. 15-17 (in Greek).
48. Antonopoulos, C. P. and Triantafillou, T. C. (2003) “Strengthening of RC Beam-column Joints with Composite Materials: Analytical and Experimental Study”, *14th Greek Concrete Conference*, Kos, Oct. 15-17 (in Greek).
47. Papanicolaou, C. G. and Triantafillou, T. C. (2003) “Optimum Design Guidelines for Precast Structural “Sandwich” Panels”, *14th Greek Concrete Conference*, Kos, Oct. 15-17 (in Greek).
46. Bousias, S. N., Spathis L. A., Triantafillou, T. C. and Fardis, M. N. (2003) “Seismic Retrofitting of Corrosion-Damaged Reinforced Concrete Columns”, *14th Greek Concrete Conference*, Kos, Oct. 15-17 (in Greek).
45. Bousias, S. N., Triantafillou, T. C., Fardis, M. N., Spathis, L. A. and O’Regan, B. (2003) “Retrofitting of Corrosion-Damaged RC Columns with FRP”, *6<sup>th</sup> International Symposium on Fibre-Reinforced Polymer (FRP) Reinforcement for Reinforced Concrete Structures*, Singapore, July 8-10.
44. Manita, P. and Triantafillou, T. C. (2003) “The Effect of Aggregate Composition on Physical and Mechanical Characteristics of Repair Mortars”, *8<sup>th</sup> International Conference on Structural Studies, Repairs and Maintenance of Heritage Architecture (STREMA 2003)*, Halkidiki, May 7-9.
43. Antonopoulos, C. P. and Triantafillou, T. C. (2003) “Seismic Strengthening of RC Beam-column Joints with Advanced Composites: Analytical Modelling and Experimental Verification”, *fib 2003 Symposium: Concrete Structures in Seismic Regions*, Athens, May 6-9.
42. Triantafillou, T. C. (2003) “Strengthening of Historic Structures with Advanced Composites: A Review”, *Recent Advances in Composite Materials – In Honor of S. A. Paipetis*, Xanthi, June 12-14.
41. Bousias, S. N., Triantafillou, T. C., Fardis, M. N., Spathis, L. A. and O’Regan, B. (2002) “Experimental Behaviour of Deficient Rectangular Columns with Externally Bonded FRPs”, *1<sup>st</sup> fib Congress: Concrete Structures in the 21<sup>st</sup> Century*, Osaka, Oct. 13-19.
40. Bousias, S. N., Spathis, L. A., Triantafillou, T. C. and Fardis, M. N. (2002) “Seismic Retrofitting of Corrosion-Damaged RC Columns”, *12<sup>th</sup> European Conference on Earthquake Engineering*, London, Sept. 9-13.
39. Antonopoulos, C. P. and Triantafillou, T. C. (2002) “Analytical and Experimental Study of FRP-strengthened RC Beam-column Joints”, *3<sup>rd</sup> International Conference on Composites in Infrastructure*, San Fransisco, June 10-12.
38. Triantafillou, T. C. (2001) “Strengthening of Historic Structures with Composites”, *International Conference on FRP Composites in Civil Engineering*, Special Theme Session on “Strengthening of Historic Structures with FRP”, Hong Kong, Dec. 12-14.
37. Triantafillou, T. C. and Matthys, S. (2001) “*fib* Report on Design of Concrete Members Strengthened with Externally Bonded Reinforcement”, *International Conference on FRP Composites in Civil Engineering*, Forum on “Design Codes”, Hong Kong, Dec. 12-14.
36. Triantafillou, T. C. (2001) “Seismic Retrofitting of Structures with Advanced Composites – A Review”, *International Conference on FRP Composites in Civil Engineering*, Special Theme Session on “New Horizons for FRP Composites in Structural Retrofitting”, Hong Kong, Dec. 12-14.

35. Antonopoulos, C. P. and Triantafillou, T. C. (2001) "Analysis of FRP-Strengthened RC Beam-Column Joints", *International Conference on FRP Composites in Civil Engineering*, Hong Kong, Dec. 12-14.
34. Antonopoulos, C. P. and Triantafillou, T. C. (2001) "Strengthening of RC Beam-column Joints with Composites: Analytical Model and Experimental Verification", *International Conference on Composites in Construction*, Porto, Portugal, Oct. 10-12.
33. Antonopoulos, C. P., Triantafillou, T. C. and Papanicolaou, K. G. (2001) "Experimental Investigation of FRP-Strengthened RC Beam-Column Joints", *Fifth International Conference on Fibre-Reinforced Polymers for Reinforced Concrete Structures*, Cambridge, UK, July 16-18.
32. Triantafillou, T. C., Matthys, S. and Taerwe, L. (2001) "Design of concrete members strengthened with externally bonded FRP reinforcement", *Fifth International Conference on Fibre-Reinforced Polymers for Reinforced Concrete Structures*, Cambridge, UK, July 16-18.
31. Antonopoulos, C. P. and Triantafillou, T. C. (2000) "Strengthening of Reinforced Concrete Beam-Column Joints with Composite Materials", *1<sup>st</sup> Greek Conference on Composites for Concrete*, Xanthi, Sept. 15-16 (in Greek).
30. Papanicolaou, C. G. and Triantafillou, T. C. (2000) "Study of the Interface between Lightweight and High-performance Concrete", *1<sup>st</sup> Greek Conference on Composites for Concrete*, Xanthi, Sept. 15-16 (in Greek).
29. Triantafillou, T. C. (1999) "New Strengthening Technique for Reinforced Concrete Members: Analysis and Design Procedure", *13th Greek Concrete Conference*, Rethymno, Oct. 25-27 (in Greek).
28. Papanicolaou, C. G. and Triantafillou, T. C. (1999) "Mechanical Behaviour and Optimum Design of Sandwich Panels made of Fibre-Reinforced High-Strength Concrete Faces and Lightweight Aggregate Concrete Core", *13th Greek Concrete Conference*, Rethymno, Oct. 25-27 (in Greek).
27. Bousias, S., Fardis, M., Triantafillou, T. and Megremis, P. (1999) "Behavior of Beams and Walls Made of Pumice Concrete", *13th Greek Concrete Conference*, Rethymno, Oct. 25-27 (in Greek).
26. Demis, S., Pilakoutas, K., Dritsos, S. and Triantafillou, T. C. (1999) "Durability of Fibre Reinforced Polymers in Concrete", *13th Greek Concrete Conference*, Rethymno, Oct. 25-27 (in Greek).
25. Neocleous, K., Pilakoutas, K., Dritsos, S. and Triantafillou, T. C. (1999) "Design of Concrete Reinforced with Fibre-Reinforced Polymers", *13th Greek Concrete Conference*, Rethymno, Oct. 25-27 (in Greek).
24. Triantafillou, T. C. and Antonopoulos, C. P. (1999) "Design of Concrete Members Strengthened in Shear with FRP Materials", *Fourth International Symposium on Non-Metallic (FRP) Reinforcement for Concrete Structures*, Baltimore, Oct. 31-Nov. 5.
23. Papanicolaou, C. G. and Triantafillou, T. C. (1999) "Mechanical Behaviour and Optimum Design of Concrete Panels made of HSC Faces and LWAC Core", *fib Symposium 1999*, Prague, Oct. 12-15.
22. Papanicolaou, C. G. and Triantafillou, T. C. (1999) "Design of Hybrid HPC and LWAC Sandwich Panels", *ASCE 5<sup>th</sup> Materials Engineering Congress*, Cincinnati, Ohio, May 10-12.
21. Triantafillou, T. C. (1997) "Shear Strengthening of Concrete Members Using Composites", *Third International Symposium on Non-Metallic (FRP) Reinforcement for Concrete Structures*, Sapporo, Japan, Oct. 14-16.
20. Triantafillou, T. C. (1997) "Behaviour of Masonry Structures Strengthened with Composites", *IABSE Conf. on Composite Construction*, Innsbruck, Austria, Sept. 16-18.
19. Triantafillou, T. C. and Fardis, M. N. (1997) "Strength-Based Optimum Design Formulation for Lightweight/High-Strength Concrete Sandwich Panels", *IABSE Conf. on New Technologies in Structural Engineering*, Lisbon, Portugal, July 3-5.
18. Triantafillou, T. C. (1997) "New Technologies for Strengthening Reinforced Concrete Members in Shear Using FRP Reinforcement", *IABSE Conf. on New Technologies in Structural Engineering*, Lisbon, Portugal, July 3-5.

17. Triantafillou, T. C. (1997) "Research Activities in the Structures Division of the Department of Civil Engineering at the University of Patras", Greek National Conference of the Departments of Civil Engineering, Thessaloniki, May 14-17 (in Greek).
16. Triantafillou, T. C. (1996) "Shear Strengthening of Reinforced Concrete Structures Using Composite Materials", *12th Greek Concrete Conference*, Limassol, Cyprus, Oct. 29-31 (in Greek).
15. Papadakis, E. G., Katsafados, H., Christou, Z. N., Triantafillou, T. C., Fardis, M. N. and Vagenas, K. G. (1996) "Development of High Durability Concrete Using Artificial Greek Pozzolans", *12th Greek Concrete Conference*, Limassol, Cyprus, Oct. 29-31 (in Greek).
14. Triantafillou, T. C. (1996) "Innovative Strengthening of Masonry Monuments with Composites", *CSCE 2nd Int. Conf. on Advanced Composite Materials in Bridges and Structures*, Montreal, Quebec, Canada, Aug. 11-14.
13. Triantafillou, T. C. (1995) "Innovative Applications of Composite Materials in Construction", *Comp'95 - High Technology Composites in Modern Applications*, Corfu, Greece, Sept. 18-22.
12. Triantafillou, T. C. and Plevris, N. (1995) "Reliability Analysis of Reinforced Concrete Beams Strengthened with CFRP Laminates", *Second International Symposium on Non-Metallic (FRP) Reinforcement for Concrete Structures*, Ghent, Belgium, Aug. 23-25.
11. Triantafillou, T. C. and Fardis, M. N. (1995) "Strengthening of Historic Masonry Structures with Fibre Reinforced Plastic Composites", *Structural Studies, Repairs and Maintenance of Historical Buildings (STREMA) 95*, Chania, Greece, May 22-24.
10. Triantafillou, T. C. (1994) "New Fiber Reinforced Plastic Structural Elements in Combination with Concrete", *1st International Conference on Composites Engineering*, New Orleans, LA, Aug. 28-31.
9. Triantafillou, T. C. (1994) "Strengthening of Concrete Structures with Fiber-Reinforced Plastic Materials", *11th Greek Concrete Conference*, Corfu, May 18-20 (in Greek).
8. Triantafillou, T. C. and Fardis, M. N. (1993) "Advanced Composites as Strengthening Materials of Historic Structures", *IABSE Symp. on Structural Preservation of the Architectural Heritage*, Rome, Italy, Sept. 15-17.
7. Phelan, R. S. and Triantafillou, T. C. (1992) "Low Cost Maglev Guideway Design Using Hybrid FRP-Reinforced Concrete", *ASCE Int. Conf. on High Speed Ground Transportation (HSGT) Systems*, Lake Buena Vista, FL, Oct. 25-28.
6. Triantafillou, T. C. and Meier, U. (1992) "Innovative Design of FRP Combined with Concrete", *CSCE 1st Int. Conf. on Advanced Composite Materials in Bridges and Structures*, Sherbrooke, Quebec, Canada, Oct. 7-9.
5. Triantafillou, T. C., Plevris, N. and Deskovic, N. (1992) "Nonprestressed and Prestressed FRP Sheets as External Reinforcement of Wood Members", *Proc. ASCE Mater. Engrg. Congr., Materials: Performance and Prevention of Deficiencies and Failures*, Atlanta, GA, Aug. 10-12.
4. Triantafillou, T. C., Deskovic, N. and Deuring, M. (1991) "Strengthening of Concrete Structures with Prestressed FRP Sheets", *ACI Convention, Tech. Session on Innovative Rehabilitation Technology for the 21st Century*, Boston, MA, March 17-21.
3. Triantafillou, T. C. and Plevris, N. (1991) "Post-strengthening of R/C Beams with Epoxy-Bonded Fiber-Composite Materials", *ASCE Spec. Conf. on Advanced Composites for Civil Engineering Structures*, Las Vegas, NV, Jan. 31 - Feb. 1.
2. Triantafillou, T. C. and Gibson, L. J. (1990) "Multiaxial Failure Criteria for Cellular Materials", *Mater. Res. Soc. Fall Meeting, Symp. I on Mechanical Properties of Porous and Cellular Materials*, Boston, MA, Nov. 26-27.
1. Triantafillou, T. C. and Gibson, L. J. (1988) "Failure Mode Maps for Sandwich Panels", *ASCE-Engrg. Mech. Div. 7th Spec. Conf.*, Blacksburg, VA, May 22-25.

**(h) Invited Workshops (nearly all with Proceedings)**

18. Triantafillou, T. C. (2022) "Innovations in the Field of Strengthening/Retrofitting Materials and Techniques", Building Materials Forum, Athens, Greece, 13 Dec.

17. Triantafillou, T. C. (2022) “Integrated Seismic and Energy Retrofitting of Existing Buildings”, Habitat for Humanity Armenia - Community of Experts Workshop, Yerevan, Armenia, 15 Nov.
16. Triantafillou, T. C. (2021) “Seismic Retrofitting of Masonry Structures using Textile Reinforced Mortar Overlays”, International Workshop on *Experimental and Analytical Techniques for Evaluating the Seismic Strengthening Measures for Masonry Structures*, Indian Institute of Technology Patna, 22-28 Oct.
15. Triantafillou, T. C. (2020) “Advanced and Novel Seismic Retrofitting Technologies”, International Workshop on *Integrated Techniques for the Seismic Strengthening and Energy Efficiency of Existing Buildings*, European Commission – JRC Ispra, 16-19 Nov.
14. Triantafillou, T. C. (2016) “Seismic Retrofitting of Concrete and Masonry Structures with Composites”, Proc. of International Workshop on *FRP Seismic Retrofitting*, French Association of Civil Engineering, Lyon, 19-20 Sept.
13. Tzoura, E. A., Laory, I., Triantafillou, T. C., Choutopoulou, E., Kollia, K. and Basheer, P. A. M. (2016) “Damage Detection of Concrete Elements Retrofitted with TRM or FRP Jackets: A Comparison Between Equivalent Strengthening Systems”, Proc. of International Workshop *Civil Structural Health Monitoring (CSHM-6)*, Queens University Belfast, 26-27 May.
12. Tzoura, E. A., Choutopoulou, E. G., Triantafillou, T. C., Providakis, C., Tsantilis, A., Papanicolaou, C. G. and Karabalis, D. L. (2015). “Damage Detection of Reinforced Concrete Elements Retrofitted with FRP by Using a Wireless Measurement System”, Proc. of 8<sup>th</sup> International Workshop *NDT Experts*, Prague, 12-14 Oct.
11. Koutas, L., Bousias, S. and Triantafillou, T. (2014) “Seismic Retrofitting Masonry-infilled RC Structures via TRM”, Proc. of International Workshop *Large-scale and On-site Structural Testing for Seismic Performance Assessment*, Istanbul, 20 Oct.
10. Triantafillou, T. (2010) “Innovative Textile-based Cementitious Composites for Retrofitting of Concrete Structures”, Proc. of International ACES Workshop *Innovative Materials and Techniques in Concrete Construction*, Corfu, 11-12 Oct.
9. Bournas, D. and Triantafillou, T. (2009) “Innovative Seismic Retrofitting of RC Columns using Advanced Composites”, Proc. of International ACES Workshop *Advances in Performance-Based Earthquake Engineering*, Corfu, 4-7 July.
8. Triantafillou, T. C. (2008) “Textile-Reinforced and Polymer-Modified Mortars: A New Generation of Composite Materials for Strengthening and Seismic Retrofitting of Structures”, Proc. of International Workshop *Polymeric and Composite Materials: A Vision for the Future*, organized by IMAST, Capri, 26-27 Sept.
7. Triantafillou, T. C. (2004) “On the Use of Advanced Composites as Strengthening Materials of Historic Masonry, Timber, Metal and Concrete Structures”, Proc. of International Workshop *Preservation of Historic Structures with Composites*, Lecce, June 9-10.
6. Triantafillou, T. C. and Matthys, S. (2001) “Flexural Strengthening with Externally Bonded FRP Reinforcement”, Proc. of International Workshop on *Composites in Construction – A Reality*, joint ASCE-ACI publication, edited by E. Cosenza, G. Manfredi and A. Nanni, Capri, July 20-21.
5. Matthys, S. and Triantafillou, T. C. (2001) “Shear and Torsion Strengthening with Externally Bonded FRP Reinforcement”, Proc. of International Workshop on *Composites in Construction – A Reality*, joint ASCE-ACI publication, edited by E. Cosenza, G. Manfredi and A. Nanni, Capri, July 20-21.
4. Triantafillou, T. C. (2001) “Strengthening of Concrete and Masonry Structures with Externally Bonded FRP Reinforcement – Design Guidelines for Flexure, Shear and Confinement”, Proc. of Workshop on *Assessment and Upgrading of Concrete and Masonry Structures*, organized by the European Council for Construction Research, Development and Innovation, Corfu, Greece, June 22-23.
3. Henrichsen, A., Triantafillou, T. C., Grumbach, M. and Poyhonen, I. (1998) “Development and Quality of Materials and Structures”, Proc. of 2<sup>nd</sup> Annual Workshop on *Environmentally Friendly Construction Technologies*, organized by the European Council for Construction Research, Development and Innovation, Brussels, Nov. 16-17.

2. Triantafillou, T. C. (1997) “Concrete Technology in Europe”, Proc. of 1<sup>st</sup> Annual Workshop on *Environmentally Friendly Construction Technologies*, organized by the European Council for Construction Research, Development and Innovation, Toulouse, France, Oct. 30-31.
1. Triantafillou, T. C. (1995) “An Innovative Application of Composite Materials in Construction”, Proc. of 1st Israeli workshop on *Composite Materials for Civil Engineering Construction*, Haifa, Israel, May 28-29, ed. by L. C. Bank and M. Ben-Bassat.

### CONFERENCE SCIENTIFIC COMMITTEES & SESSION CHAIRMAN

186. IMESEMEET2024 - 2nd International Meet on Environmental Science and Engineering, Rome, Italy, Member of International Scientific Committee, Nov. 2024.
185. WSECEI 2024 - World Summit and Expo on Civil Engineering and Infrastructure, Rome, Italy, Member of International Scientific Committee, Oct. 2024.
184. FPCC 2024 – Fibre-reinforced Polymers in Construction, Milton Keynes, UK, Member of International Scientific Committee, Sept. 2024.
183. ICCS24 – 4<sup>th</sup> International Conference on Concrete Sustainability, Guimaraes, Portugal, Member of International Scientific Committee, Sept. 2024.
182. CONSEC24 – 10<sup>th</sup> International Conference on Concrete under Severe Conditions – Environment and Loading, Chennai, India, Member of International Scientific Committee, Sept. 2024.
181. SMAR2024 – 7th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Salerno, Italy, Member of International Scientific Committee, Sept. 2024.
180. 15<sup>th</sup> International *fib* PhD Symposium in Civil Engineering, Budapest, Hungary, Member of International Scientific Committee, Aug. 2024.
179. 18<sup>th</sup> International Brick and Block Masonry Conference, Birmingham, Member of International Scientific Committee, July 2024.
178. AMCM2024 – 11<sup>th</sup> International Conference on Analytical Models and New Concepts in Concrete and Masonry Structures, Lotz, Poland, Member of International Advisory Committee, June 2024.
177. INFRASUMMIT2024 – World Summit and Expo on Infrastructure and Construction, Rome, Italy, Member of International Organizing Committee, May 2024.
176. REHABEND 2024 – 10<sup>th</sup> Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Gijon, Spain, Member of International Scientific Committee, May 2024.
175. WSECAEE2024 – World Summit and Expo on Civil, Architectural and Environmental Engineering, Edinburgh, Scotland, Member of Organizing Committee, April 2024.
174. ICEFORUM2024 – 3<sup>rd</sup> International Forum on Infrastructure and Civil Engineering, Munich, Germany, Member of International Scientific Committee, April 2024.
173. FM2024 – International Conference on Functional Materials, Paris, France, Member of International Scientific Committee, March 2024.
172. GEGAAE-2024 – 2<sup>nd</sup> Global Experts Meet on Civil, Architectural and Environmental Engineering, Rome, Italy, Member of Organizing Committee, March 2024.
171. GCCIVIL2023 - Global Congress on Civil, Infrastructure and Environmental Engineering, Dubai, UAE, Member of International Scientific Committee, October 2023.
170. CICE 2023 - 11<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Rio De Janeiro, Brazil, Member of International Scientific Committee, Chairman of Session “TRM/TRC Retrofit II”, July 2023.

169. *fib* Symposium 2023 on Building for the Future: Durable, Sustainable, Resilient, Istanbul, Turkey, Member of International Scientific Committee, Chairman of Session “Fiber/Textile Reinforcement”, June 2023.
168. 2<sup>nd</sup> International Meet on Infrastructure and Construction, INFRAMEET2023, Paris, Member of International Scientific Committee, June 2023.
167. Civil, Structural and Environmental Engineering, CIVILMEET2023, Brussels, Member of International Scientific Committee, May 2023.
166. CCE2023 – International Conference on Computational Civil Engineering, Iasi, Romania, Member of International Scientific Committee, May 2023.
165. 2<sup>nd</sup> Croatian Conference on Earthquake Engineering, Zagreb, Croatia, Member of International Scientific Committee, March 2023.
164. 3<sup>rd</sup> International Conference on Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage (TMM\_CH): Recapturing the World in Conflict through Culture, Promoting Mutual Understanding and Peace, Athens, Greece, Member of International Scientific Committee, March 2023.
163. ICEFORUM2023 - International Forum on Infrastructure and Civil Engineering, Porto, Portugal, Member of Organizing Committee, February 2023.
162. FRPRCS-15 & APFIS-2022 – 15<sup>th</sup> International Conference on Fibre-Reinforced Polymers for Reinforced Concrete Structures & 8<sup>th</sup> Asia-Pacific Conference on FRP in Structures, Shenzhen, China, Member of International Scientific Committee, December 2022.
161. ICBFC-2022 – 2<sup>nd</sup> International Conference on Basalt Fibers and Composites, Nanjing, China, Member of International Scientific Committee, Nov. 2022.
160. 5<sup>th</sup> Greek Conference on Earthquake Engineering, Athens, Greece, Member of Scientific Committee, Oct. 2022.
159. 13<sup>th</sup> HSTAM International Congress on Mechanics, Patras, Greece, Member of International Scientific Committee, August 2022.
158. *fib* Congress 2022, Oslo, Norway, Member of International Scientific Committee, June 2022.
157. ECCM20 – 20<sup>th</sup> European Conference on Composite Materials, Lausanne, Switzerland, Member of International Scientific Committee, June 2022.
156. REHABEND 2022 – 9<sup>th</sup> Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Granada, Spain, Member of International Scientific Committee, March 2022.
155. TEST&E 2022 – 3<sup>rd</sup> Conference on Testing and Experimentation in Civil Engineering, Caparica Campus, Portugal, Member of International Scientific Committee, February 2022.
154. 2<sup>nd</sup> International Conference on Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage: Rebranding the World in Crisis through Culture (TMM\_CH), Athens, Greece, Member of International Scientific Committee, Member of Panel 6 – Earthquake and Structural Rehabilitation, December 2021.
153. CICE 2020/2021 - 10<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Istanbul, Member of International Scientific Committee. Chairman of Session “Keynote Lectures”, Dec. 2021.
152. Fibre Polymer Composites in Construction (FPCC), Southampton, UK, Member of International Scientific Committee, Sept. 2021.
151. 13<sup>th</sup> International Symposium on ferrocement and Thin Fiber Reinforced Inorganic Matrices (FERRO13), Lyon, France, Member of International Scientific Committee, June 2021.
150. *fib* Symposium 2021 on Concrete Structures: New Trends for Eco-Efficiency and Performance, Lisbon, Portugal, Member of International Scientific Committee, Chairman of Session “Fibre-Reinforced Polymer Reinforcement”, June 2021.



149. CCE2021 – International Conference on Computational Civil Engineering, Iasi, Romania, Member of International Scientific Committee, May 2021.
148. 1<sup>st</sup> Croatian Conference on Earthquake Engineering, Zagreb, Croatia, Member of International Scientific Committee, March 2021.
147. *fib* International Conference on Concrete Sustainability, Prague, Czech Republic, Member of International Scientific Committee, Sept. 2020.
146. REHABEND 2020 – 8<sup>th</sup> Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Granada, Spain, Online, Member of International Scientific Committee, Sept. 2020.
145. ConMat'20 – 6<sup>th</sup> International Conference on Construction Materials, Fukuoka, Japan, Member of International Scientific Committee, Aug. 2020.
144. 17<sup>th</sup> IB2MaC – 17<sup>th</sup> International Brick and Block Masonry Conference, Cracow, Poland, Member of International Scientific Committee, July 2020.
143. ICBFC-2019 – 1<sup>st</sup> International Conference on Basalt Fibers and Composites, Nanjing, China, Member of International Scientific Committee, Nov. 2019.
142. 4<sup>th</sup> Greek Conference on Earthquake Engineering, Athens, Greece, Member of Scientific Committee, Chairman of Sessions “Energy and Seismic Design of Buildings” and “Masonry Structures: Assessment and Interventions”, Sept. 2019.
141. ACIC 2019 – 9<sup>th</sup> International Conference on Advanced Composites in Construction, Birmingham, UK, Member of International Scientific Committee, Sept. 2019.
140. HSTAM2019 – 12<sup>th</sup> Conference of the Hellenic Society of Theoretical and Applied Mechanics, Thessaloniki, Greece, Member of International Scientific Committee, Sept. 2019.
139. SMAR2019 – 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Potsdam, Germany, Member of International Scientific Committee, Aug. 2019.
138. FRPRCS-14 – 14<sup>th</sup> International Symposium on Fiber-Reinforced Polymer Reinforcement of Concrete Structures, Belfast, Member of International Scientific Committee, June 2019.
137. CONSEC 2019 - 9<sup>th</sup> International Conference on Concrete under Severe Conditions – Environment & Loading, Porto Alegre, Brazil, Member of International Scientific Committee, June 2019.
136. CCE2019 – 15<sup>th</sup> International Conference on Computational Civil Engineering, Iasi, Romania, Member of International Scientific Committee, May 2019.
135. *fib* Symposium 2019 – Innovations in Materials, Design and Structures, Cracow, Poland, Member of International Scientific Committee, May 2019.
134. RILEM Spring Convention 2019 and SMSS2019 – International Conference on Sustainable Materials, Systems and Structures, Member of International Scientific Committee for the Segment “Durability, Monitoring and Repair of Structures”, March 2019.
133. 1<sup>st</sup> SACEE 2019 – 1<sup>st</sup> South Asia Conference on Earthquake Engineering, Member of International Scientific Committee, Febr. 2019.
132. IWAMISSE 2018 - International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Seismic Practices, Istanbul, Member of International Scientific Committee, Nov. 2018.
131. NYUAD 2018 – New York University Abu Dhabi Research Conference 2018, Member of Program Committee.
130. 5<sup>th</sup> International *fib* Congress 2018, Melbourne, Australia, Member of International Scientific Committee, Oct. 2018.
129. 1<sup>st</sup> International Conference on Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Athens, Member of International Scientific Committee, Oct. 2018.

128. SAHC 2018 – 11<sup>th</sup> International Conference on Structural Analysis of Historical Constructions, Cusco, Peru, Member of International Scientific Committee, Sept. 2018.
127. CICE 2018 - 9<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Paris, Member of International Scientific Committee, July 2018.
126. FERRO12 – 12<sup>th</sup> International Symposium on Ferrocement and Thin Reinforced Composites, Belo Horizonte, Minas Gerais, Brazil, Member of International Scientific Committee, July 2018.
125. 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, Greece, Member of International Scientific Committee, Chairman of Session “Seismic Design and Analysis of Reinforced Concrete Buildings (I)”, June 2018.
124. REHABEND 2018 – Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Caceres, Spain, Member of International Scientific Committee, May 2018.
123. 18<sup>th</sup> Hellenic Concrete Conference, Athens, Member of Scientific Committee, March 2018.
122. MMS 2017 – International Conference on Mechanics and Materials Science, Guangzhou, China, Member of International Technical Program Committee, Dec. 2017.
121. CORASS 2017 – 2<sup>nd</sup> International Conference on Recent Advances in Nonlinear Models – Design and Rehabilitation of Structures, Coimbra, Portugal, Member of International Scientific Committee, Nov. 2017.
120. SMAR2017 – 4<sup>th</sup> Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zurich, Switzerland, Member of International Scientific Committee, Sept. 2017.
119. SHCC4 – Strain Hardening Cement-Based Composites, Dresden, Germany, Member of International Scientific Committee, Chairman of Session “Material Design and Mechanical Testing (TRC)”, Sept. 2017.
118. ACIC2017 – International Conference on Advanced Composites in Construction, Sheffield, UK, Member of International Scientific Committee, Sept. 2017.
117. ISERCI2017 – International Symposium for Emerging Researchers in Composites for Infrastructure, Wollongong, Australia, Member of International Scientific Committee, July 2017.
116. APFIS2017 – 7<sup>th</sup> Asia-Pacific Conference on Fiber Reinforced Polymers in Structures, Singapore, Member of International Scientific Committee, July 2017.
115. *fib* Symposium 2017 – High Tech Concrete: Where Technology and Engineering Meet, Maastricht, The Netherlands, Member of International Scientific Committee, June 2017.
114. CCE2017 – Computational Civil Engineering, Iasi, Romania, International Scientific Committee, May 2017.
113. MCEBM2017 – International Conference on Mechanics, Civil Engineering and Building Materials, Member of Technical Program Committee, Apr. 2017.
112. CICE 2016 - 8<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Hong Kong, China, Member of International Scientific Committee, Dec. 2016.
111. National Conference on Concrete Structures, Thessaloniki, Member of Scientific Committee, Chairman of Session “Composite Materials”, Nov. 2016.
110. CINPAR 2016 – XII<sup>th</sup> International Conference on Structural Repair and Rehabilitation, Porto, Portugal, Member of International Scientific Committee, Oct. 2016.
109. MCE2016 – 2<sup>nd</sup> International Conference on Mechanics and Control Engineering, Guangzhou, China, Member of Technical Program Committee, Oct. 2016.
108. CONSEC 2016 – 8<sup>th</sup> International Conference on Concrete under Severe Conditions – Environment & Loading, Lecco, Italy, Member of International Scientific Committee, Sept. 2016.

107. ACMBS-VII - 7<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Vancouver, British Columbia, Canada, Member of International Scientific Committee, Aug. 2016.
106. REHABEND 2016 – Euro-American Congress on Building Pathology, Rehabilitation Technology and Heritage Management, Burgos, Spain, Member of International Scientific Committee, Dec. 2015.
105. FRPRCS-12 & APFIS-2015 – Joint 12<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures and 5<sup>th</sup> Asia-Pacific Conference on Fiber Reinforced Polymers in Structures, Nanjing, China, Member of International Scientific Committee, Chairman of Session “Keynote Lecture 1”, Chairman of Session “Characterization of FRP / Durability”, Dec. 2015.
104. PLSE 2015 – 2<sup>nd</sup> International Conference on Performance-based and Life-cycle Structural Engineering, Brisbane, Australia, Member of International Scientific Committee, Dec. 2015.
103. ICCRRR 2015 – 4<sup>th</sup> International Conference on Concrete Repair, Rehabilitation and Retrofitting, Leipzig, Member of International Scientific Committee, Oct. 2015.
102. ACIC 2015 - Advanced Composites in Construction, Cambridge, Member of International Scientific Committee, Sept. 2015.
101. SMAR2015 – 3<sup>rd</sup> Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Antalya, Turkey, Member of International Scientific Committee, Sept. 2015.
100. ConMat’15 – 5<sup>th</sup> International Conference on Construction Materials: Performance, Innovations and Structural Implications, Whistler, BC, Canada, Member of International Technical Committee, Aug. 2015.
99. ACE2015 – 2<sup>nd</sup> International Symposium on Advances in Civil Infrastructure Engineering, Vietri sul Mare, Italy, Member of International Scientific Committee, June 2015.
98. RehabStructures 2015 – International Conference on Recent Advances in Rehabilitation and Sustainability of Structures, Ponta Delgada Azores, Portugal, Member of International Scientific Committee, June 2015.
97. Ferro 11 and 3<sup>rd</sup> ICTRC - 11<sup>th</sup> Ferrocement and 3<sup>rd</sup> International Conference on Textile Reinforced Concrete, Aachen, Germany, Member of International Scientific Committee, June 2015.
96. HPRCC7 – 7<sup>th</sup> International Workshop on High Performance Fiber Reinforced Cement Composites, Member of International Committee, June 2015.
95. ACMSM23 - 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials, Byron Bay, Australia, Member of the International Scientific Committee, Dec. 2014.
94. CICE 2014 – 7<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Vancouver, Canada, Member of International Scientific Committee, Aug. 2014.
93. ACE 2014 - 11<sup>th</sup> International Congress on Advances in Civil Engineering, Istanbul, Member of International Scientific Committee, Oct. 2014.
92. 4<sup>th</sup> International *fib* Congress 2014, Mumbai, Member of International Scientific Committee, Febr. 2014.
91. ACIC 2013 – Advanced Composites in Construction, Belfast, Member of International Scientific Committee, Sept. 2013.
90. SMAR 2013 – 2<sup>nd</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Istanbul, Member of International Scientific Committee, Sept. 2013.
89. FRPRCS-11 – 11<sup>th</sup> International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, Guimaraes, Portugal, Member of International Scientific Committee, Chairman of Session “Keynote Lecture 1”, June 2013.

88. *fib* Symposium – Engineering a Concrete Future: Technology, Modeling and Construction, Tel-Aviv, Israel, Member of International Scientific Committee, Apr. 2013.
87. 7<sup>th</sup> International Conference on Concrete under Severe Conditions, Nanjing, China, Member of International Scientific Committee, 2013.
86. PLSE 2012 – 1<sup>st</sup> International Conference on Performance-based and Life-cycle Structural Engineering, Hong Kong, Member of International Scientific Committee, Dec. 2012.
85. CECOM 2012 – Civil Engineering Infrastructure based on Polymer Composites, Krakow, Poland, Member of International Advisory Committee, Nov. 2012.
84. ICACIE 2012 – International Conference on Advances in Infrastructure Engineering, Changsha, China, Member of International Scientific Committee, Chairman of Session “Keynote and Invited Lectures –Sept. 16”, Sept. 2012.
83. ACMBS-VI – 6<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Kingston, Ontario, Canada, Member of International Scientific Committee, May 2012.
82. CICE 2012 – 6<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Rome, Italy, Member of International Scientific Committee, Chairman of Session “Bond”, June 2012.
81. ACIC 2011 – Advanced Composites in Construction, Warwick, Member of International Scientific Committee, Sept. 2011.
80. HPRCC-6 – International Workshop on High-Performance Fiber Reinforced Cement Composites, Ann Arbor, Michigan, Member of the International Committee, June 2011.
79. NDTMS-2011 – International Symposium on Nondestructive Testing of Materials and Structures, Istanbul, Member of International Scientific Committee, May 2011.
78. FRPRCS-10 - 10<sup>th</sup> International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures, Tampa, Florida, Member of International Steering Committee, Member of International Scientific Committee, Apr. 2011.
77. 1<sup>st</sup> Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Dubai, Member of International Scientific Committee, Febr. 2011.
76. CICE 2010 – 5<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Beijing, China, Member of International Scientific Committee, Chairman of Session “Flexural Strengthening of Concrete Beams and Slabs”, Sept. 2010.
75. CONSEC’10 – Sixth International Conference on Concrete under Severe Conditions - Environment and Loading, Merida, Yucatan, Mexico, Member of International Scientific Committee, June 2010.
74. 8<sup>th</sup> International Symposium on Conservation of Monuments in the Mediterranean Basin, Patras, Member of Organizing Committee, May – June 2010.
73. *fib*2010 - 3rd Congress of the International Federation for Structural Concrete (*fib*), Washington DC, Member of the Scientific Committee, Chairman of Sessions “Building Systems - Strengthening and Repair” and “Engineering and Design - Fire”, May – June 2010.
72. APFIS 2009 – Asia-Pacific Conference on FRP in Structures, Seoul, Korea, Member of International Scientific Committee, Dec. 2009.
71. 16<sup>th</sup> Hellenic Concrete Conference, Cyprus, Member of the Scientific Committee, Chairman of Session “Strengthening and Repair”, Oct. 2009.
70. ACIC 2009 – Advanced Polymer Composites for Structural Applications in Construction, Edinburgh, Member of International Scientific Committee, Sept. 2009.
69. ConMat’09 – 4<sup>th</sup> International Conference on Construction Materials: Performance, Innovations and Structural Implications, Nagoya, Japan, Member of International Advisory Board, Aug. 2009.

68. FRPRCS-9 - 9<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Sydney, Australia, Member of International Steering Committee, Member of International Scientific Committee, July 2009.
67. 11<sup>th</sup> Canadian Masonry Symposium, Toronto, Member of International Scientific Committee, May – June 2009.
66. MuRiCo3 – Mechanics of Masonry Structures Strengthened with Composite Materials, Venezia, Italy, Member of International Advisory Committee, Apr. 2009.
65. 3<sup>rd</sup> Hellenic Conference in Earthquake Engineering and Engineering Seismology, Athens, Member of the Scientific Committee, Nov. 2008.
64. ACMBS-V – 5<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Winnipeg, Canada, Member of International Scientific Committee, Sept. 2008.
63. CICE 2008 – 4<sup>th</sup> International Conference on FRP Composites in Civil Engineering, Zurich, Switzerland, Member of International Advisory Committee, Chairman of Session “Externally Bonded FRP for Confinement 3”, July 2008.
62. MESC-5 – 5<sup>th</sup> Middle East Conference on the Use of Structural Composites in Infrastructure Applications, Hurgada, Egypt, Member of International Scientific Committee, May 2008.
61. 1<sup>st</sup> Hellenic Conference on Structural Materials and Members, Athens, Member of the Scientific Committee, Co-ordinator of Round Table Session on “Development of New Materials – Advanced Structural Materials”, May 2008.
60. CCC 2008 – International Conference on Composites in Construction, Porto, Portugal, Member of International Scientific Committee, Apr. 2008.
59. APFIS 2007 – The Inaugural Asia-Pacific Conference on FRP in Structures, Hong Kong, Member of International Scientific Committee, Dec. 2007.
58. 1<sup>st</sup> National Conference on “History of Structures”, University of Thrace, Xanthi, Member of the Scientific Committee, Oct. 2007.
57. FRPRCS-8 - 8<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Patras, Chairman of Organizing Committee, Member of International Steering Committee, Member of Scientific Committee, Chairman of Session “Textile Reinforcement and Cement-Based Composites”, July 2007.
56. HPFRCC5 – High Performance Fiber Reinforced Cement Composites, International Workshop, Mainz, Germany, Member of International Committee, July 2007.
55. CONSEC’07 - 5<sup>th</sup> international Conference on Concrete under Severe Conditions of Environment and Loading, Tours, France, Member of International Advisory Committee, June 2007.
54. 3<sup>rd</sup> International Conference on Durability & Field Applications of FRP Composites for Construction, Member of International Scientific Committee, May 2007.
53. ACIC 2007 – Advanced Polymer Composites for Structural Applications in Construction, Bath, Member of International Scientific Committee, Apr. 2007.
52. CICE 2006 – 3<sup>rd</sup> International Conference on FRP Composites in Civil Engineering, Miami, Florida, USA, Member of International Scientific Committee, Dec. 2006.
51. 15<sup>th</sup> Hellenic Concrete Conference, Alexandroupolis, Member of the Scientific Committee, Chairman of Session “Concrete and the Environment”, Oct. 2006.
50. 1<sup>st</sup> ICTRC 2006 – 1<sup>st</sup> International RILEM Conference on Textile Reinforced Concrete, Chairman of Session “Existing and Future Applications I”, Sept. 2006.
49. 2<sup>nd</sup> International fib Congress, Naples, Chairman of Sessions “Modelling and Design” and “FRP Reinforcement for New and Existing Structures”, June 2006.
48. MCM-2006 – 14<sup>th</sup> International Conference on Mechanics of Composite Materials, Riga, Latvia, Member of International Scientific Committee, June 2006.

47. CEIS 2006 – International Conference on Civil Engineering Infrastructure Systems, American University of Beirut, Lebanon, Member of International Scientific Committee, June 2006.
46. International Symposium on Bond Behaviour of FRP in Structures, Hong Kong, Member of International Scientific Committee, Dec. 2005.
45. 7<sup>th</sup> International Symposium (FRPRCS-7) on Fiber Reinforced Polymers for Reinforced Concrete Structures, Kansas City, Missouri, Member of International Scientific Committee, Chairman of Session “Strengthening of Masonry Structures”, Nov. 2005.
44. ConMat’05 – 3<sup>rd</sup> International Conference on Construction Materials: Performance, Innovations and Structural Implications, Vancouver, Member of International Advisory Committee, Aug. 2005.
43. CCC 2005 – International Conference on Composites in Construction, Lyon, Member of International Scientific Committee, July 2005.
42. ERES 2005 – 5<sup>th</sup> International Conference on Earthquake Resistant Engineering Structures, Skiathos, Member of International Scientific Advisory Committee, May – June 2005.
41. MESC-4 – 4<sup>th</sup> Middle East Conference on the Use of Structural Composites in Infrastructure Applications, Alexandria, Egypt, Member of International Scientific Committee, May 2005.
40. CICE 2004 – 2<sup>nd</sup> International Conference on FRP Composites in Civil Engineering, Adelaide, Australia, Member of International Advisory Committee, Dec. 2004.
39. ACMBBS-IV – 4<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Calgary, Alberta, Canada, Member of International Scientific Committee, July 2004.
38. IMTCR-04 – International Conference on Innovative Materials and Technologies for Construction and Restoration, Lecce, Member of International Scientific Committee, June 2004.
37. MCM-2004 – 13<sup>th</sup> International Conference on Mechanics of Composite Materials, Riga, Latvia, Member of International Scientific Committee, May 2004.
36. ACIC 2004 – Advanced Polymer Composites for Structural Applications in Construction, Surrey, Member of International Scientific Committee, Chairman of Session “Strengthening of Concrete Structures 1”, Apr. 2004.
35. 14<sup>th</sup> Hellenic Concrete Conference, Kos, Member of Scientific Committee, Chairman of Session “Design”, Oct. 2003.
34. CCC 2003 – International Conference on Composites in Construction, Rende (Calabria), Member of International Scientific Committee, Sept. 2003.
33. FRPRCS-6 – 6<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Singapore, Member of International Scientific Committee, July 2003.
32. *fib* Symposium - Concrete Structures in Seismic Regions, Athens, Co-Chairman of Session “Seismic Design: Bridges”, May 2003.
31. 5<sup>th</sup> International Symposium on Advanced Composites, Corfu, Member of International Scientific Committee, May 2003.
30. JEC Composites Show – Focus Construction 2003, Paris, Chairman, Apr. 2003.
29. ICCI-03 – 3<sup>rd</sup> International Conference on Composites in Infrastructure, San Francisco, Member of International Scientific Committee, June 2002.
28. XII International Conference on Mechanics of Composite Materials – MCM 2002, Riga, Latvia, Member of International Scientific Committee, June 2002.
27. 2<sup>nd</sup> International Conference on Durability of Fiber Reinforced Polymer (FRP) Composites for Construction, Montreal, Member of International Scientific Committee, May 2002.
26. JEC Composites Show – Focus Construction 2002, Paris, Chairman, Apr. 2002.
25. ACIC 2002 – Advanced Polymer Composites for Structural Applications in Construction, Southampton, Member of International Scientific Committee, Apr. 2002.

24. CICE 2001 – 1<sup>st</sup> International Conference on FRP Composites in Civil Engineering, Hong Kong, Member of International Advisory Committee, Chairman of Session “Strengthening of Historic and Masonry Structures”, Dec. 2001.
23. 2<sup>nd</sup> Hellenic Conference on Earthquake Engineering and Engineering Seismology, Thessaloniki, Member of the Scientific Committee, Nov. 2001.
22. CCC 2001 – International Conference on Composites in Construction, Porto, Member of International Scientific Committee, Chairman of Session “Design Rules and Quality Control”, Oct. 2001.
21. 5<sup>th</sup> Annual Workshop on Environmentally Friendly Construction Technologies, Rimini, Chairman of Session “Environmentally Friendly Materials”, Oct. 2001.
20. FRPRCS-5 – 5<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Cambridge, UK, Member of International Scientific Committee, Chairman of Session “Externally Bonded Flexural Reinforcement”, July 2001.
19. 8<sup>th</sup> Euroseminar on Microscopy Applied to Building Materials, Athens, Member of International Scientific Committee, Chairman of Session “Cement and Concrete”, Sept. 2001.
18. 1<sup>st</sup> Hellenic Conference on Composite Materials in Concrete, Xanthi, Member of the Scientific Committee, Member of the Organizing Committee, Chairman of Session “Technology and Properties of Fiber Reinforced Concrete. Composite Materials in Concrete – Experimental Methods”, Nov. 2000.
17. 4<sup>th</sup> Annual Workshop on Environmentally Friendly Construction Technologies, Prague, Chairman of Session “High Performance Materials”, Oct. 2000.
16. Technology Transfer Seminar on Advanced FRP Materials for Civil Structures, Bologna, Member of International Scientific Committee, Chairman of Session “Case Studies”, Oct. 2000.
15. International Conference on Technology Watch and Innovation in the Construction Industry, Brussels, Member of International Scientific Committee, Apr. 2000.
14. FRPRCS-4 – 4<sup>th</sup> International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Baltimore, Chairman of Session “Shear Performance of FRP Reinforcement”, Oct. 1999.
13. 3<sup>rd</sup> Annual Workshop on Environmentally Friendly Construction Technologies, Brussels, Chairman of Session “Sustainable Development”, Oct. 1999.
12. 5<sup>th</sup> ASCE Materials Engineering Congress, Cincinnati, Ohio, Member of Technical Committee και Chairman of Session “Concrete Building Products”, May 1999.
11. 2<sup>nd</sup> Annual Workshop on Environmentally Friendly Construction Technologies, Brussels, Chairman of Session “High Performance Cementitious Materials in Theory and Practice”, Nov. 1998.
10. FRAMCOS-3 – 3<sup>rd</sup> International Conference on Fracture Mechanics of Concrete and Concrete Structures, Gifu, Japan, Chairman of Session “Mode II and Mixed Mode Fracture”, Oct. 1998.
9. 1<sup>st</sup> Annual Workshop on Environmentally Friendly Construction Technologies, Toulouse, Chairman of Session “Concrete Technology”, Oct. 1997.
8. US-Canada-Europe Workshop on Bridge Engineering, Zurich, International Scientific Committee, July 1997.
7. ACMBBS-II – 2<sup>nd</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Montreal, Canada, Member of Technical Committee και Chairman of Session “Strengthening and Repair - II”, Aug. 1996.
6. FRPRCS-2 – 2<sup>nd</sup> International RILEM Symposium on Non-Metallic Reinforcement for Concrete Structures, Ghent, Belgium, Chairman of Session “On-going Research and Projects”, Aug. 1995.
5. Euromech 334, Textile Composites & Textile Structures, Lyon, France, Member of International Scientific Committee, May 1995.



4. 1st International Conference on Composites Engineering, New Orleans, LA, Regional Representative, Aug. 1994.
3. ACMBBS-I – 1st International Conference on Advanced Composite Materials in Bridges and Structures, Sherbrooke, Canada, Chairman of Session “Analytical and Design Methods”, Oct. 1992.
2. ASCE Materials Engineering Congress, Atlanta, GA, Chairman of Session “Composite Material Reinforcement for Concrete”, Aug. 1992.
1. 9th Annual ACSA (Association of Collegiate Schools of Architecture) Technology Conference, Harvard University, Chairman of Session “Structures, Materials and Process”, Febr. 1991.

### **PRINCIPAL INVESTIGATOR OF RESEARCH PROJECTS**

44. *Combined Seismic and Energy Retrofitting of Structures using External Insulation Systems*  
UNISOL SA, 2024-2026
43. *Innovative System for Combined Seismic and Energy Retrofitting of Structures: Development, Mechanical Behavior and Fire Resistance*  
Hellenic Foundation for Research and Innovation, 2021-2024
42. *PhD Training Network on Durable, Reliable and Sustainable Structures with Alkali-Activated Materials*  
European Commission, H2020-ITN, 2018-2023
41. *Innovative Seismic and Energy Retrofitting of Masonry Structures with Advanced Materials*  
Hellenic State Scholarships Foundation
40. *Analysis of Technologies for Combined Upgrading of Existing Buildings*  
European Commission – JRC Ispra, 2019-2020
39. *Experimental Verification of the Effectiveness of Various Combinations of Textile-based Reinforcement with Insulation Materials in Retrofitting Masonry Infilled Walls*  
European Commission – JRC Ispra, 2019
38. *Innovative System for Combined Seismic and Energy Retrofitting of Buildings*  
EDBM, 2018-2019
37. *Analytical, Numerical and Experimental Investigation of Steel-Concrete Composites Slabs and Steel Decking*  
ELASTRON AVEE, 2017-2018
36. *European Network for Durable Reinforcement and Rehabilitation Solutions, ENDURE*  
European Commission, FP7-ITN, 2013-2017
35. *Novel Design Concepts for Energy Related Steel Structures Using Advanced Materials*  
ARISTEIA II - Investing in Knowledge Society through the European Social Fund  
2014-2015, Co-investigator
34. *Axial Enhancement of Rectangular Concrete Columns with High Aspect Ratio Using Composite Materials*  
Fyfe Co LLC, 2013-2014
33. *Development and Evaluation of Wireless Monitoring System in Real Time for the Structural Integrity of Concrete Structures using Networked Smart Piezo-electric Sensors*  
THALES – Investing in Knowledge Society through the European Social Fund, 2012-2015
32. *Eurasian University Network on International Collaboration in Earthquakes, EU-NICE*  
Erasmus Mundus, European Commission, FP7, 2011-2013
31. *Masters in Earthquake Engineering and Engineering Seismology, MEEES*  
Erasmus Mundus, European Commission, FP6, 2013-2018

30. *Development, Production and Investigation of New Materials and Structural Members using Ferrocement*  
AKTOR SA, 2011-2012
29. *Tensile Properties of Textile-reinforced Mortars*  
FYFE Europe, 2010-2011
28. *The Integrated Safe and Smart Built Concept, I-SSB*  
European Commission, FP6-IP, 2007-2010
27. *Mechanical Behavior of Anchors in Strengthening of Concrete Structures with FRP*  
FYFE Europe, 2008-2010
26. *Open and Fully Compatible Next Generation Strengthening System for the Rehabilitation of the Mediterranean Building Heritage, OPERHA*  
European Commission, FP6-STREP, 2005-2008
25. *European Network for Composite Reinforcement, EN-CORE*  
European Commission, FP6-Marie Curie RTN, 2005-2008
24. *Assessment of Seismic Vulnerability for Existing Buildings and Development of Advanced Strengthening Materials and Techniques, ARISTION*  
Hellenic General Secretariat for Research and Technology (in the framework of EPAN 2002), 2003-2006
23. *Concrete Repair Network, ConRepNet*  
European Commission, FP5-Thematic Network, 2001-2005
22. *Low Risk and Totally Recyclable Structural Buildings, SAFEFLOOR*  
European Commission, FP5, 2001-2004
21. *Development and Diffusion of Design Guidelines for Strengthening of Structures with Composite Materials*  
Earthquake Planning & Protection Organisation, 2000-2003
20. *Fiber Reinforced Polymers as Strengthening Materials of Reinforced Concrete Structures*  
Hellenic General Secretariat for Research and Technology (in the framework of PENED 1999), 2000-2001. Collaboration with the Democritus Univ. of Thrace (co-ordinator).
19. *Use of Recycled Materials as Aggregates in the Construction Industry*  
European Commission, Thematic Network, 1998-2001
18. *Systematic Study of New Strengthening Technique for Reinforced Concrete Elements Using Advanced Composite Materials*  
Research Committee of the University of Patras (within the framework of the program K. KARATHEODORIS), 1998-2001
17. *Development of Guidelines for the Design of Concrete Structures Reinforced, Prestressed or Strengthened with Advanced Composites*  
European Commission, TMR Research Network, 1997-2001
16. *Applied Research on the Mechanical Properties of Structural Timber*  
Sakelariou Panagiotis EPE, 2000
15. *Fracture Toughness of Fibre-Reinforced Concrete Beams*  
Hellenic Centre of Cement Research, 2000
14. *Analysis and Design of Reinforced Concrete Members Strengthened with Carbodur and Sikawrap*  
SIKA Hellas, 1999
13. *Development and Pilot Application of Novel Strengthening/Reinforcement Technique for Masonry Structures using Composite (FRP) Materials*  
Hellenic General Secretariat for Research and Technology, 1997-1999
12. *Development of Novel Structural System Based on Reinforced Glulam Timber*  
Hellenic General Secretariat for Research and Technology, 1997-1999
11. *Improved Design Criteria for Bolted Connections*  
INASCO Hellas (within the framework of BRITE-EURAM BE95-1780), 1997-1999

10. *Mechanical and Thermal Behaviour of Expanded Polystyrene Foam*  
UNISOL SA, 1998
9. *Mechanical Behavior of Steel-Concrete Composite Slabs*  
KONTI ABEE, 1997
8. *Strengthening of Concrete and Wood Structures in Shear Using FRP (REPLARK System)*  
SUMITOMO Corporation Hellas S.A. and Mitsubishi Chemical Corporation, 1996-1997
7. *Preservation of the Cultural Heritage of the Center and the Old City of Patras after the July 1993 Earthquake*  
Hellenic Ministry of Education and Religion, 1994-1995
6. *Innovative Strengthening Techniques with Composite Materials*  
USA National Science Foundation, 1991-1993
5. *Innovative Design of FRP Composite Members Combined with Concrete*  
EMPA (Swiss Federal Laboratories for Materials Testing and Research), 1991-1992
4. *Low Cost Guideways for Maglev* (Principal co-investigator)  
USA Department of Transportation, Federal Railroad Administration, 1991-1992
3. *Prestressing of Concrete and Wood Structures with Composite Laminates*  
EMPA (Swiss Federal Laboratories for Materials Testing and Research), 1990
1. *Use of Advanced Composites in Structural Engineering*  
Sloan Fund, 1990-1992
1. *Advanced Fiber-Reinforced Polymer Composite Materials in the Rehabilitation of Structures*  
USA Army Research Office, 1990-1992

### PRINCIPAL INVESTIGATOR OF “SERVICE” PROJECTS

2000 – today      Total volume of contracts for services provided by the Structural Materials Laboratory: >900,000 €.

### CONSULTING EXPERIENCE

1994 – today      Principal designer or member of design teams for the strengthening of more than 20 reinforced concrete and masonry structures (examples: church of Pantanassa in Patras, Greece; monastery of Francavilla, Amaliada, Greece; tunnels of new silo in Vassiliko Cement Works Public Company Ltd, Cyprus; fish farm “Tholi”, Greece; monastery of Pantokratoras in Aggelokastro, Greece; Botsaris Tower in Nafpaktos; private hospital of Gavrilakis in Chania, Greece; churches of S. Nikolaos and S. Paraskevi in Kos, Greece).

2023                Consultant to EGNATIA ODOS S.A. on «Structural Condition of the Right (or South) Branch of Axios Bridge in Egnatia Highway».

2019 – 2020      Consultant to the *European Commission – Joint Research Centre* on “Advanced and Novel Seismic and Energy Upgrading Technologies for Concrete, Masonry, Steel and Timber Buildings”.

2013 – 2014      Consultant to *FYFE EUROPE SA* on the “Development of Confinement Systems for Columns with Large Aspect Ratio Cross Sections”.

2012                Consultant to *AKTOR SA* on the “Development of Ferrocement and Testing of Ferrocement – Steel Joints for the Stavros Niarchos Foundation Cultural Center”.

2010 – 2011      Consultant to *FYFE EUROPE SA* on the “Development of Design Guidelines for Strengthening of Unreinforced Masonry with Textile-reinforced Mortars”.

- 2007 – 2010 External Evaluator of the European research project “High Performance Composites Bridges for Rapid Infrastructure Renewal” co-ordinated by *Acciona Infraestructuras, S.A.*
- 2007 – 2009 Consultant to the *Georgia Tech Research Corporation* on the “Development of Guide Specification for Externally Bonded FRP Systems for Repair and Strengthening of Concrete Bridge Elements”.
- 2009 Consultant to *Arcelor Mittal Construction Hellas AE* for the “Commentary of Research Reports on the Flammability of Sandwich Panels”.
- 2008 Consultant to *Edrasi Ch. Psallidas ATE* for the “In-Situ Testing of Masonry Tunnel at the Diakopto-Kalavryta Railway Line”.
- 2008 Consultant to *S&P* on the Software programs FRP Lamella and FRP Colonna.
- 2008 Consultant to *AKTOR SA* for the “Assessment of Damage in Reinforced Concrete Columns Subjected to Seismic Excitation Shortly after Casting”.
- 2005 – 2007 Consultant to *ENDICO* for the seismic retrofitting of four historic masonry structures in Iran.
- 2006 Consultant to *PROLAM* (in Canada) on “Development of Reinforcement System for Glulam Timber Beams using Fiber Reinforced Polymers”.
- 2004 Consultant to *Greek Association of Expanded Polystyrene Producers* on “Technical and Economic Investigation of Expanded Polystyrene for the External Thermal Insulation of Buildings”.
- 2003 Consultant to *ISOMAT ABEE* on “Investigation of the Mechanical Behaviour of MEGAWRAP and MEGAPLATE as Strengthening Materials”.
- 2002 Consultant to *West Greece Region* on “In-situ Testing of Concrete and Design of Repair Measures for the Center of Plant Protection and Quality Control”.
- 2002 Consultant to *ECOTURN ABEE* on “Behaviour of Polymeric Sandwich Panels as Moulding Materials”.
- 2001 – 2002 Consultant to *SIKA Finanz AG* on “Development of Software for the Dimensioning of RC Elements Strengthened with FRP Composites”.
- 2002 and 1997 Consultant to *AVEX* on “Investigation of Physical and Mechanical Properties of Glulam Timber within the Framework of Eurocode 5”.
- 2001 Consultant to *Halcrow* on “Strengthening of Nuclear Power Plants Using Advanced Composite Materials”.
- 1998 – 2001 Scientific Advisor to *ETANE-EFKLIDIS ATE* for the Brite/Euram research program “Monitoring of Large Civil Engineering Structures for Improved Maintenance - MILLENNIUM”.
- 2000 Consultant to *MOYSTAKIS AEE* on “Residual Material Strengths in the ‘Moustakis’ Building after fire”.
- 1999 – 2000 Scientific Advisor to *SIKA HELLAS* and *SINTECNO HELLAS* for the development of “Guidelines for the Dimensioning of Reinforced Concrete Elements Strengthened with Composite Materials”.
- 1995 – 1997 Consultant to the *Technical Chamber of Greece* on “Investigation of two Building Collapses during the Aegion Earthquake”.
- 1994 Consultant to *MIT* and *Bechtel Corporation* on “Investigation of the Deleterious Effects of Electro-Magnetic Fields (EMF) on Steel Rebars Used in Guideways for EDS MAGLEV Systems”.
- 1993 Consultant to *Eldim, Inc.* on “Analytical Models for Mechanical Properties of I Beam Honeycomb”.
- 1991 Consultant to *Norfield Corporation* on “Minimum Cost Design of Norcore Laminated Panels”.

- 1990 Consultant to *Amoco Production Co.* on “Repair Methods for Massive Concrete Foundations”.
- 1989 Consultant to *Martin Marietta* on “Development of Microballoon Reinforced Metal Matrix Composites”.

## SUPERVISION OF STUDENTS, POSTDOCS

### (a) Postdoctoral

5. Kapsalis, P. (June 2021 – today)
4. Karlos, K. (June 2023 – today)
3. Bedirhanoglou, I. (Jan. 2019 – June 2020, now Research Scientist at New York Univ. Abu Dhabi)
2. Kouris, L. (Dec. 2016 – Oct. 2017, now Research Assoc. at JRC Ispra)
1. D’Antino, T. (Sept. 2014 – Sept. 2015, now Faculty Member at Politecnico Milano)

### (b) Doctoral

#### *University of Patras*

17. Zochiou, L. “Development and characterization of TRC-based, aerogel-insulated load-bearing structural sandwich panels with balanced mechanical, thermal and fire – resistant properties”, ongoing (co-supervisor: T. Tysmans).
16. Azdejkovic, L. “Seismic Retrofitting of Concrete and Masonry Structures with Textile-Reinforced Alkali-Activated Materials”, ongoing.
15. Karakasis, I. “Durability of TRM-Jacketed Concrete”, ongoing (co-supervisor: C. Papanicolaou).
14. Arce, A. “Fire Behavior of Alkali-Activated Material (AAM) Systems with Applications in the Retrofitting of Masonry Walls and the Construction of New AAM-Based Reinforced Concrete Elements”, 2023 (now Research Associate, Getty Research Institute), (co-supervisor: C. Papanicolaou).
13. Karlos, K. “Combined Seismic and Energy Retrofitting of Masonry Structures subjected to in- and out-of-plane Loading using Textile Reinforced Mortars and Insulation Plates: Experimental and Analytical Study, 2023 (now Research Associate, University of Patras).
12. Gkournelos, P. “Experimental and Analytical Study on the In- and Out-of-Plane Interaction of Infill Walls Subject to Combined Seismic and Energy Retrofitting using Textile Reinforced Mortar and Thermal Insulation”, 2022.
11. Kapsalis, P. “Residual Performance of Fire-exposed Textile Reinforced Concrete: Experimental Investigations and Modeling Techniques”, 2021 (now Research Associate, University of Patras), (co-supervisor: T. Tysmans).
10. Tsantilis, A. “Innovative Seismic Isolation of Masonry Infills using Cellular Materials at the Interface with the Surrounding Frames: Experimental and Numerical Study”, 2016 (now Consultant, Greece).
9. Tzoura, E. “Strengthening of Reinforced Concrete Members with Advanced Composites and Structural Health Monitoring using Smart Materials”, 2016 (now Head of R&D, Highways England, UK).
8. **Koutas, L.** “New Materials and Techniques for Seismic Strengthening of Infilled Reinforced Concrete Frames: Experimental and Analytical Study”, 2015 (now Faculty Member at Univ. of Thessaly, Greece), co-supervised with S. Bousias.

7. Bournas, D. “Innovative Techniques for Strengthening of Reinforced Concrete and unreinforced Masonry Structures: Near Surface Mounted Reinforcement and Textile Reinforced Concrete Mortars”, 2008 (now Scientific Officer at JRC Ispra, Italy; formerly Faculty Member at Univ. of Nottingham, UK).
6. Krevaiakas, T. “Analytical and Experimental Study of Unreinforced Masonry Strengthened with Composite Materials”, 2005 (now Faculty Member at Xi’an Jiaotong-Liverpool Univ., China).
5. Manita, P. “Systematic Experimental Study and Optimum Mix Design of Mortars for the Restoration of Historic Structures”, 2005 (now Faculty Member at Intern. University of Greece).
4. Papanicolaou, C. “Analysis and Minimum Cost Design of Concrete Sandwich Panels made of High-Performance Concrete Faces and Lightweight Concrete Core”, 2002 (now Faculty Member at Univ. of Patras, Greece).
3. Antonopoulos, K. “Strengthening of Reinforced Concrete Beam-Column Joints with Composite Materials”, 2001 (now Faculty Member at School of Pedagogical & Technological Education, Greece).

### ***Massachusetts Institute of Technology***

2. Plevris, N. “Time-Dependent Behavior and Design of Reinforced Concrete and Wood Structures Strengthened with FRP Laminates”, 1993.
1. Deskovic, N. “Innovative Design of FRP Composite Members Combined with Concrete”, 1993.

### **(c) M.Sc.**

- 55 M.Sc. Theses at the University of Patras (2001-today).
- 6 M.Sc. Theses within the framework of the Erasmus Mundus Masters in Earthquake Engineering and Engineering Seismology (2007-2014).
- 1 M.Sc. Thesis at the ROSE School (joint supervision, 2008).
- 32 M.Sc. Theses at the Hellenic Open University (2007-2018).
- 5 M.Sc. Theses at the Massachusetts Institute of Technology (1991-1992).

### **(d) Undergraduate Diploma Theses**

192 Students / 179 Diploma Theses at the University of Patras (1994-today).

## **SELECTED SERVICES AT THE UNIVERSITY AND DEPARTMENT LEVEL**

### **(a) University Level**

- 2020 – 2024 University of Patras Senate, Member.
- & 1995 – 1996
- 2020 – 2024 University of Patras Strategic Planning and Research Development Committee, Member.
- 2017 – 2020 University of Patras Research Committee, Member.
- 2013 – 2017 University of Patras Governing Council (equivalent to Board of Trustees).
- 2010 – 2012 Executive Board (7 members) of the Univ. of Patras Research Committee, Member.
- 1997 – today Several Faculty Election/Promotion Committees in 10 Greek Universities and 5 Universities abroad, Member or Chairman.
- 1996 – 2016 Several (>20) committees in the University of Patras.

**(b) Department Level*****University of Patras – Dept. of Civil Engineering***

- 2020 – today Head of Department.
- 2002 – today Director, Structural Materials Laboratory.
- 2019 – 2020 Head of Structures Division.
- 2008 – 2016 Director of Graduate Studies Program.
- 2007 – 2011 Deputy Department Head.
- 2007 – 2011 Undergraduate Studies Program Committee, Chairman.
- 2002 – 2006 Graduate Studies Committee, Member.

***Massachusetts Institute of Technology – Dept. of Civil Engineering***

- 1993 Graduate Admissions Committee for the Structures & Materials Group, Member.

***New York University Abu Dhabi***

- 2018 – 2019 Head of Civil and Urban Engineering Program.