

CURRICULUM VITAE

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Visiting Global Distinguished Professor of Civil and Urban Engineering

New York University Abu Dhabi, PO 129188, Abu Dhabi, UAE

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.

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.
 2018 – 2019 Professor and Head, Civil and Urban Engineering, New York University Abu Dhabi.
 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 of 1991 and 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 of concrete, masonry and timber structures.
- Cement-based and polymer-based composites.
- Steel-concrete composite structures, prefabricated structural sandwich panels.
- Lightweight materials (concrete, cellular 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	<i>fib</i> , Head of the Greek Delegation and member of the Technical Council.
2016 – Present	<i>fib</i> (International Federation for Structural Concrete) Task Group 10.1 “Model Code 2020”, Member.
2021 – Present	International Society for Basalt Fibers and Composites, Member of the Council of Experts.
2018 – Present	Expert Panel on Science and Technology of Constructions and the Built Environment - Fellowships, Flanders Fund for Scientific Research (FWO), Chairman.
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.
2016 – Present	<i>fib</i> Task Group 3.4 “Selection and Implementation of Interventions”, Member.
2016 – Present	American Concrete Institute Committee 549 “Thin Reinforced Cementitious Products and Ferrocement”, Member.
2014 – Present	ELOT/TC67 “Eurocodes”, Member.

- 2020 – Present Joint TCG-EPPO Working Group “Harmonization and Normalization of Clauses for the Seismic Evaluation of Buildings”, 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.
- 2010 – 2019 International Institute for FRP in Construction (IIFC), Member of the Honours Committee.
- 2009 – Present *fib* Special Activity Group 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.
- 2018 – 2020 Scientific Council of Engineering Sciences, Greek General Secretariat for Research and Technology, Member.
- 2010 – 2019 International Institute for FRP in Construction (IIFC), Member of the International Advisory Committee.
- 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.
- 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-MSM “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: 13593 (Google Scholar, 14/5/2021).
- h-index: 52 (Google Scholar, 14/5/2021).

AWARDS

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).
- *Structural Concrete* (Journal of the fib), Editorial Advisory Board (2018 – today).
- *Earthquakes and Structures*, International Editorial Board (2014 – today).
- *Journal of Rehabilitation in Civil Engineering*, 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).
- *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.
- Invited Expert by the European Commission on “Advanced and Novel Seismic and Energy Upgrading Technologies for Concrete, Masonry, Steel and Timber Buildings”, 2019-2020.
- 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, 6th Framework Programme of the European Commission, “Specific measures and actions regarding the 1st 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 research projects funded by the European Commission within the framework of FP7 and H2020.
- Invited expert for the evaluation of research proposals in the European Commission (Horizon 2020, Eurostars-Eureka, EIT RawMAterials, FP7, FP6, Growth, Brite/Euram), 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), Cyprus (Research Foundation), 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 1st *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 725 papers in 102 International Journals [*in () the number of reviews*]:

ACI Materials Journal	(8)	International J. of Structural Engineering	(1)
ACI Special Publication	(7)	International Journal of Structural Integrity	(2)
ACI Structural Journal	(43)	International Journal of Technology	(1)
Advanced Composites Letters	(19)	International Journal of Thermal Sciences	(1)

Advances in Civil Engineering	(3)	Iranian Journal of Science and technology	(1)
Advances in Concrete Construction	(1)	Journal of Applied Mathematics	(1)
Advances in Materials Science and Engineering	(1)	Journal of Advanced Concrete Technology	(5)
Advances in Structural Engineering	(7)	Journal of Bridge Engineering (ASCE)	(4)
Ain Shams Engineering Journal	(1)	Journal of Building Engineering	(3)
Applied Composite Materials	(1)	J. of Civil Engineering & Construction Technology	(1)
Applied Sciences	(1)	J. of Composites for Construction (ASCE)	(129)
Arabian J. for Science and Engineering	(1)	Journal of Composite Materials	(6)
Bridge Engineering	(2)	Journal of Composites Science	(2)
Buildings	(2)	Journal of Composites Tech. and Research	(1)
Bulletin of Earthquake Engineering	(7)	J. of Cultural Heritage	(5)
Canadian Journal of Civil Engineering	(6)	Journal of Earthquake Engineering	(9)
Cement and Concrete Composites	(5)	Journal of Engineered Fibers and Fabrics	(1)
Composites Engineering	(1)	Journal of Engineering Mechanics (ASCE)	(5)
Composites Part A: Appl. Sc. & Manufact.	(3)	Journal of Engineering Research	(1)
Composites Part B: Engineering	(21)	Journal of Marine Science and Engineering	(1)
Composites Science & Technology	(5)	J. of Materials in Civil Engineering (ASCE)	(23)
Composite Structures	(17)	Journal of Materials Science	(1)
Computer-Aided Civil and Infrastructure Engineering	(1)	J. of Mechanics of Materials and Structures	(1)
Computers and Concrete	(1)	J. of Sandwich Structures and Materials	(1)
Computers and Structures	(2)	J. of Seismology and Earthquake Engineering	(1)
Concrete International	(1)	Journal of Structural Engineering (ASCE)	(32)
Construction and Building Materials	(47)	Journal of Textile Science and Engineering	(1)
Construction Materials (ICE)	(2)	Journal of Zhejiang University – Science A	(1)
Earthquake Engineering & Engineering Vibration	(2)	Korean Society of Civil Engineering Journal	(5)
Earthquake Engineering & Structural Dynamics	(1)	Kuwait Journal of Science and Engineering	(1)
Earthquake Spectra	(1)	Materials	(2)
Earthquakes and Structures	(13)	Materials and Structures (RILEM)	(43)
Engineering & Computational Mechanics	(2)	Mathematical Problems in Engineering	(1)
Engineering Failure Analysis	(1)	Nanomaterials	(2)
Engineering Journals	(1)	Ned University Journal of Research – Materials	(1)
Engineering Science and Technology	(1)	Philosophical Magazine A	(1)
Engineering Structures	(68)	Polymers	(1)
European J. of Environmental and Civil Engineering	(1)	Pract. Period. on Str. Des. and Constr. (ASCE)	(3)
European Journal of Mechanics – A/Solids	(1)	Research Letters in Materials Science	(1)
Experimental Mechanics	(1)	Smart Structures and Systems	(1)
Fibers	(3)	Soil Dynamics and Earthquake Engineering	(5)
Finite Elements in Analysis and Design	(1)	Steel and Composite Structures	(2)
Frattura ed Integrita Strutturale	(1)	Structural Concrete (<i>fib</i>)	(43)
Ingenieria e Investigacion	(2)	Structural Engineering and Mechanics	(7)
Int. J. of Concrete Struct. and Materials	(3)	Structural Engineering International (IABSE)	(5)
International J. of Engineering	(1)	Structure and Infrastructure Engineering	(3)
Intern. J. of Forensic Engineering	(1)	Structures and Buildings	(4)
International Journal of Fracture	(1)	Structures	(1)
Int. J. of Masonry Research and Innovation	(1)	Sustainability	(1)
Int. J. of Mater. and Product Technology	(1)	Technika Chronika	(15)
International Journal of Polymer Science	(1)	The Arabian J. for Science and Engineering	(1)
International J. of Solids and Structures	(8)	The Scientific World Journal – Civil Engineering	(2)

- 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) |
| • 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) |
| • Design of Concrete Structures | (New York U. Abu Dhabi) |

(b) Graduate

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| • 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

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| • 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 | (<i>fib</i> Courses) |

PUBLICATIONS

(a) Books

- 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 8th 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

- 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. Secondary author of Chapter 5 of the *fib* Bulletin 90 “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 5 – *Bond* (29 p.), 2019.
- C33. Secondary 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. Secondary 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. Secondary author of Chapter 9 of the *fib* Bulletin 90 “Externally Applied FRP Reinforcement for Concrete Structures” titled: Ch. 9 – *Detailing* (17 p.), 2019.
- C30. Secondary 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 150th 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. Secondary 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. Secondary author of Chapter 6 of the *fib* Bulletin 14 “Externally Bonded FRP Reinforcement for RC Structures” Ch. 6 – *Confinement* (15 p.), 2001.
- C8. Secondary 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).
- C1. Chapter 6 of the book “State-of-the-Art Review on Design, Testing, Analysis and Applications of Polymeric Composite Connections”. Title: *FRP Connections with Other Materials*, European Commission EUR 18172 EN, 1998, Edited by J. T. Mottram and G. J. Turvey.

(c) Course Notes, Classnotes

- CN4. Course notes: *FRP for Shear Strengthening and Confinement of Reinforced Concrete*, within the framework of the ERASMUS 12-day Intensive Programme “FRP Reinforcement for Concrete”, University of Gent, 2002.
- CN3. Course notes: *Mechanical Behavior of Construction Materials*, University of Patras, 2000, 75 pages (in Greek).
- CN2. Course notes: *Innovative Design of FRP Sections for Bridges*, University of Cambridge Program for Industry 3-day Short Course, Sept. 1995, 45 pages.
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(e) Articles in Non-Refereed Journals (Invited)

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(f) Keynote Papers

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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”, *1st 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”, *4th 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”, *5th 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”, *18th Greek Concrete Conference*, Athens, March 29-31.
15. Triantafillou, T. C. (2017) “Textile-reinforced cementitious materials in structural and energy retrofitting of concrete structures”, *9th 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.
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130. Karakasis, I., Papanicolaou, C. and Triantafillou, T. (2021) “Durability of Textile Reinforced Mortars under Harsh Environments”, 13th 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”, 12th 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”, 74th 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”, 7th 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”, 4th Greek Conference of Earthquake Engineering and Engineering Seismology, Athens, September 5-7 (in Greek).
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120. Karlos, K. and Triantafillou, T. C. (2018) “An Innovative System for Combined Seismic and Energy Retrofitting of Buildings”, 18th 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^o Greek Concrete Conference, Athens, March 29-31 (in Greek).
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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”, *6th 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”, *8th 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”, *1st fib Congress: Concrete Structures in the 21st 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”, *12th 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”, *3rd International Conference on Composites in Infrastructure*, San Francisco, 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", *1st 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", *1st 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 5th 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)

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 8th 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. Henriksen, A., Triantafillou, T. C., Grumbach, M. and Poyhonen, I. (1998) “Development and Quality of Materials and Structures”, Proc. of 2nd 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 1st 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

156. ECCM20 – 20th European Conference on Composite Materials, Lausanne, Switzerland, Member of International Scientific Committee, June 2022.
155. REHABEND 2022 – 9th Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Granada, Spain, Member of International Scientific Committee, March 2022.
154. 2nd 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, December 2021.

153. Fibre Polymer Composites in Construction (FPCC), Southampton, UK, Member of International Scientific Committee, Sept. 2021.
152. 13th International Symposium on ferrocement and Thin Fiber Reinforced Inorganic Matrices (FERRO13), Lyon, France, Member of International Scientific Committee, June 2021.
151. *fib* Symposium 2021 on Concrete Structures: New Trends for Eco-Efficiency and Performance, Lisbon, Portugal, Member of International Scientific Committee, June 2021.
150. CCE2021 – International Conference on Computational Civil Engineering, Iasi, Romania, Member of International Scientific Committee, May 2021.
149. 1st Croatian Conference on Earthquake Engineering, Zagreb, Croatia, Member of International Scientific Committee, March 2021.
148. *fib* International Conference on Concrete Sustainability, Prague, Czech Republic, Member of International Scientific Committee, Sept. 2020.
147. REHABEND 2020 – 8th Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Granada, Spain, Online, Member of International Scientific Committee, Sept. 2020.
146. ConMat'20 – 6th International Conference on Construction Materials, Fukuoka, Japan, Member of International Scientific Committee, Aug. 2020.
145. 17th IB2MaC – 17th International Brick and Block Masonry Conference, Cracow, Poland, Member of International Scientific Committee, July 2020.
144. CICE 2020 - 10th International Conference on FRP Composites in Civil Engineering, Istanbul, Member of International Scientific Committee, July 2020.
143. ICBFC-2019 – 1st International Conference on Basalt Fibers and Composites, Nanjing, China, Member of International Scientific Committee, Nov. 2019.
142. 4th 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 – 9th International Conference on Advanced Composites in Construction, Birmingham, UK, Member of International Scientific Committee, Sept. 2019.
140. HSTAM2019 – 12th Conference of the Hellenic Society of Theoretical and Applied Mechanics, Thessaloniki, Greece, Member of International Scientific Committee, Sept. 2019.
139. SMAR2019 – 5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Potsdam, Germany, Member of International Scientific Committee, Aug. 2019.
138. FRPRCS-14 – 14th International Symposium on Fiber-Reinforced Polymer Reinforcement of Concrete Structures, Belfast, Member of International Scientific Committee, June 2019.
137. CONSEC 2019 - 9th International Conference on Concrete under Severe Conditions – Environment & Loading, Porto Alegre, Brazil, Member of International Scientific Committee, June 2019.
136. CCE2019 – 15th 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. 1st SACEE 2019 – 1st 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. 5th International *fib* Congress 2018, Melbourne, Australia, Member of International Scientific Committee, Oct. 2018.
129. 1st 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 – 11th International Conference on Structural Analysis of Historical Constructions, Cusco, Peru, Member of International Scientific Committee, Sept. 2018.
127. CICE 2018 - 9th International Conference on FRP Composites in Civil Engineering, Paris, Member of International Scientific Committee, July 2018.
126. FERRO12 – 12th International Symposium on Ferrocement and Thin Reinforced Composites, Belo Horizonte, Minas Gerais, Brazil, Member of International Scientific Committee, July 2018.
125. 16th 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. 18th 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 – 2nd International Conference on Recent Advances in Nonlinear Models – Design and Rehabilitation of Structures, Coimbra, Portugal, Member of International Scientific Committee, Nov. 2017.
120. SMAR2017 – 4th 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 – 7th 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 - 8th 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 – XIIth International Conference on Structural Repair and Rehabilitation, Porto, Portugal, Member of International Scientific Committee, Oct. 2016.
109. MCE2016 – 2nd International Conference on Mechanics and Control Engineering, Guangzhou, China, Member of Technical Program Committee, Oct. 2016.
108. CONSEC 2016 – 8th International Conference on Concrete under Severe Conditions – Environment & Loading, Lecco, Italy, Member of International Scientific Committee, Sept. 2016.
107. ACMBS-VII - 7th 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 12th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures and 5th 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 – 2nd International Conference on Performance-based and Life-cycle Structural Engineering, Brisbane, Australia, Member of International Scientific Committee, Dec. 2015.
103. ICCRRR 2015 – 4th 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 – 3rd Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Antalya, Turkey, Member of International Scientific Committee, Sept. 2015.
100. ConMat’15 – 5th International Conference on Construction Materials: Performance, Innovations and Structural Implications, Whistler, BC, Canada, Member of International Technical Committee, Aug. 2015.
99. ACE2015 – 2nd 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 3rd ICTRC - 11th Ferrocement and 3rd International Conference on Textile Reinforced Concrete, Aachen, Germany, Member of International Scientific Committee, June 2015.
96. HPRCC7 – 7th International Workshop on High Performance Fiber Reinforced Cement Composites, Member of International Committee, June 2015.
95. ACMSM23 - 23rd Australasian Conference on the Mechanics of Structures and Materials, Byron Bay, Australia, Member of the International Scientific Committee, Dec. 2014.
94. CICE 2014 – 7th International Conference on FRP Composites in Civil Engineering, Vancouver, Canada, Member of International Scientific Committee, Aug. 2014.
93. ACE 2014 - 11th International Congress on Advances in Civil Engineering, Istanbul, Member of International Scientific Committee, Oct. 2014.
92. 4th 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 – 2nd International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Istanbul, Member of International Scientific Committee, Sept. 2013.
89. FRPRCS-11 – 11th 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. 7th International Conference on Concrete under Severe Conditions, Nanjing, China, Member of International Scientific Committee, 2013.
86. PLSE 2012 – 1st 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 – 6th International Conference on Advanced Composite Materials in Bridges and Structures, Kingston, Ontario, Canada, Member of International Scientific Committee, May 2012.
82. CICE 2012 – 6th 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. HPFRCC-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 - 10th 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. 1st Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Dubai, Member of International Scientific Committee, Febr. 2011.
76. CICE 2010 – 5th 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. 8th 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. 16th 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 – 4th International Conference on Construction Materials: Performance, Innovations and Structural Implications, Nagoya, Japan, Member of International Advisory Board, Aug. 2009.
68. FRPRCS-9 - 9th 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. 11th 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. 3rd Hellenic Conference in Earthquake Engineering and Engineering Seismology, Athens, Member of the Scientific Committee, Nov. 2008.
64. ACMBS-V – 5th International Conference on Advanced Composite Materials in Bridges and Structures, Winnipeg, Canada, Member of International Scientific Committee, Sept. 2008.
63. CICE 2008 – 4th 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 – 5th Middle East Conference on the Use of Structural Composites in Infrastructure Applications, Hurgada, Egypt, Member of International Scientific Committee, May 2008.
61. 1st 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. 1st National Conference on “History of Structures”, University of Thrace, Xanthi, Member of the Scientific Committee, Oct. 2007.
57. FRPRCS-8 - 8th 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. HPRCC5 – High Performance Fiber Reinforced Cement Composites, International Workshop, Mainz, Germany, Member of International Committee, July 2007.
55. CONSEC’07 - 5th international Conference on Concrete under Severe Conditions of Environment and Loading, Tours, France, Member of International Advisory Committee, June 2007.
54. 3rd 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 – 3rd International Conference on FRP Composites in Civil Engineering, Miami, Florida, USA, Member of International Scientific Committee, Dec. 2006.
51. 15th Hellenic Concrete Conference, Alexandroupolis, Member of the Scientific Committee, Chairman of Session “Concrete and the Environment”, Oct. 2006.

50. 1st ICTRC 2006 – 1st International RILEM Conference on Textile Reinforced Concrete, Chairman of Session “Existing and Future Applications I”, Sept. 2006.
49. 2nd International fib Congress, Naples, Chairman of Sessions “Modelling and Design” and “FRP Reinforcement for New and Existing Structures”, June 2006.
48. MCM-2006 – 14th 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. 7th 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 – 3rd 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 – 5th International Conference on Earthquake Resistant Engineering Structures, Skiathos, Member of International Scientific Advisory Committee, May – June 2005.
41. MESC-4 – 4th Middle East Conference on the Use of Structural Composites in Infrastructure Applications, Alexandria, Egypt, Member of International Scientific Committee, May 2005.
40. CICE 2004 – 2nd International Conference on FRP Composites in Civil Engineering, Adelaide, Australia, Member of International Advisory Committee, Dec. 2004.
39. ACMBS-IV – 4th 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 – 13th 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. 14th 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 – 6th 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. 5th 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 – 3rd 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. 2nd 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 – 1st 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. 2nd 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. 5th Annual Workshop on Environmentally Friendly Construction Technologies, Rimini, Chairman of Session “Environmentally Friendly Materials”, Oct. 2001.
20. FRPRCS-5 – 5th 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. 8th Euroseminar on Microscopy Applied to Building Materials, Athens, Member of International Scientific Committee, Chairman of Session “Cement and Concrete”, Sept. 2001.
18. 1st 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. 4th 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 – 4th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, Baltimore, Chairman of Session “Shear Performance of FRP Reinforcement”, Oct. 1999.
13. 3rd Annual Workshop on Environmentally Friendly Construction Technologies, Brussels, Chairman of Session “Sustainable Development”, Oct. 1999.
12. 5th ASCE Materials Engineering Congress, Cincinnati, Ohio, Member of Technical Committee και Chairman of Session “Concrete Building Products”, May 1999.
11. 2nd Annual Workshop on Environmentally Friendly Construction Technologies, Brussels, Chairman of Session “High Performance Cementitious Materials in Theory and Practice”, Nov. 1998.
10. FRAMCOS-3 – 3rd International Conference on Fracture Mechanics of Concrete and Concrete Structures, Gifu, Japan, Chairman of Session “Mode II and Mixed Mode Fracture”, Oct. 1998.
9. 1st 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. ACMBS-II – 2nd 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 – 2nd 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

42. *Innovative System for Combined Seismic and Energy Retrofitting of Structures: Development, Mechanical Behavior and Fire Resistance*
Hellenic Foundation for Research and Innovation, 2021-2024
41. *PhD Training Network on Durable, Reliable and Sustainable Structures with Alkali-Activated Materials*
European Commission, H2020-ITN, 2018-2022
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
2. *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: >700,000 €.

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; private hospital of Gavrilakis in Chania, Greece; churches of S. Nikolaos and S. Paraskevi in Kos, Greece).

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

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. Azdejkovic, L. “Seismic Retrofitting of Concrete and Masonry Structures with Textile-Reinforced Alkali-Activated Materials”, ongoing (co-supervised with C. Papanicolaou).
16. Andres, A. “Fire Behavior of High-Performance Concrete made with Alkali-Activated Materials”, ongoing (co-supervised with C. Papanicolaou).
15. Kapsalis, P. “Thermomechanical Behavior of Textile Reinforced Concrete”, ongoing (co-supervised with T. Tysmans).
14. Gkournelos, P. “Interaction of Out-of-Plane and In-Plane Actions in Seismically and Energy Retrofitted Masonry Infilled RC Structures”, ongoing.
13. Karakasis, I. “Durability of TRM-Jacketed Concrete”, ongoing (co-supervised with C. Papanicolaou).
12. Karlos, K. “Combined Seismic and Energy Retrofitting of Masonry Structures”, ongoing.
11. 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).
10. 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).
9. 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.
8. 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).
7. Krevaikas, T. “Analytical and Experimental Study of Unreinforced Masonry Strengthened with Composite Materials”, 2005 (now Faculty Member at Xi’an Jiaotong-Liverpool Univ., China).
6. Manita, P. “Systematic Experimental Study and Optimum Mix Design of Mortars for the Restoration of Historic Structures”, 2005 (now Faculty Member Intern. University of Greece).
5. 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).
4. Antonopoulos, K. “Strengthening of Reinforced Concrete Beam-Column Joints with Composite Materials”, 2001 (now Faculty Member at School of Pedagogical & Technological Education, Greece).

University of Ghent

3. Krajnovic, I. “Innovative Mix Design and Strengthening of Concrete with Alkali-Activated Textile-Reinforced Mortars”, ongoing (co-supervised with S. Matthys).

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.

- 51 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

170 Students / 157 Diploma Theses at the University of Patras (1994-today).

SELECTED SERVICES AT THE UNIVERSITY AND DEPARTMENT LEVEL**(a) University Level**

- 2020 – today University of Patras Senate, Member.
- & 1995 – 1996
- 2020 – today 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 8 Greek Universities and 3 Universities abroad, Member or Chairman.
- 1996 – 2016 Several (>20) committees in the Division of Technical Services (equivalent to Physical Plant) at the University of Patras, responsible for new constructions, reconstructions, maintenance, equipment etc, Member.

(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.