CURRICULUM VITAE
Prof. Natalino Gattesco

Personal Data

- Natalino Gattesco, born in Mortegliano, Udine, Italy, il 16-12-1958
- Fiscal Code: GTT NLN 58T16 F756P
- Email: gattesco@units.it

Education

- Specialization in "Earthquake Engineering", Mc Master University, Hamilton, Ontario, Canada (1989).
- Professional Engineer License, Technical University of Milan, Italy (1983).
- MSc in Civil Engineering, University of Udine, Italy (1983).

Posts, appointments, specific advices

- Member of the Council of the Professional Engineers Association of the Province of Udine, Italy (2013-2017).
- President of the Upgrading Committee of the Professional Engineers Association of the Province of Udine (2013-2017).
- President of the Structural Committee of the Federation of Professional Engineers of Friuli Venezia Giulia Region, Italy (2003-2006).
- President of the Structural Committee of the Professional Engineer Association of the Province of Udine, Italy (2002-2010).
- Member of the Technical Consulting Board of the Court of Justice in Udine, Italy (since 2000).
- Member of the Inspection Board of the Friuli Venezia Giulia Region for Engineering Structures in Seismic Areas (since 1994).
- Member of the Professional Engineer Association of the Province of Udine, Italy (since 1983).

Academic career

- Professor of Structural Engineering, Department of Engineering and Architecture, University of Trieste, Italy.
- Nominated Professor of Structural Engineering by the President of the Czech Republic through the Czech Technical University of Prague proposal (2012).
- Associate Professor of Structural Engineering, Department of Engineering and Architecture, University of Trieste (2001).
- Assistant Professor of Structural Engineering at the Department of Civil Engineering, University of Udine, Italy. (1986-2001).
- Laboratory expert supervisor; as Assistant Professor was also entrusted to supervise the development both in equipment and services of the Laboratory for Testing Materials and Structures of the Department of Civil Engineering, University of Udine, Italy (1986-2001).
- Visiting Scholar; engaged in study and research on steel-concrete composite structures at the University of Warwick, Coventry, UK, invited by Prof. R.P. Johnson (1992).
- Visiting Scholar; engaged in research on nonlinear analysis of concrete structures at the University of Waterloo, Waterloo, Ontario (Canada), invited by prof. M. Z. Cohn; fellowship CNR-NATO (1989-1990).
- Laboratory expert technician; entrusted to start and manage the activity of the Laboratory for Testing Materials and Structures of the Institute of Theoretical and Applied Mechanics. One year contract with the University of Udine, Italy (1985).
- Research fellow; Institute of Theoretical and Applied Mechanics of the University of Udine, engaged in research on the nonlinear behavior of concrete structures (1983-1985).

SCIENTIFIC ACTIVITY

Membership to National and International Scientific Associations

- RILEM- International Union of Laboratories and experts in construction materials, systems and structures (since 2015);
- International Association for Bridge Maintenance and Safety IABMAS, (since 2012).
- International Masonry Society, (since 2010).
- CTE, Collegio dei Tecnici dell'Industrializzazione Edilizia *Association of Building Industrialization Experts* (1984-2006);
- ANIDIS, Associazione Nazionale Italiana di Ingegneria Sismica *Italian Association of Earthquake Engineering* (since 2007);
- Associazione Italiana Compositi, AICO *Italian Association of Composites*. (since 2017);

Partecipation to National and International Scientific Committees

- Member of RILEM Committee TC IMC "Durability of Inorganic Matrix Composites used for Strengthening of Masonry". (since 2019).
- Member of RILEM Committee TC 250 "Composites for the Sustainable Strengthening of Masonry". (since 2015).

- Member of ACI 549 Liaison Subcommittee with TC 250 having the task to unify the Technical Recommendations on the utilization of composites FRCM/TRM in Europe and in America. (since 2016).
- Scientific Responsible, Scientific Agreement between the Department of Concrete and Masonry Structures, Czech Technical University in Prague and the Department of Engineering and Architecture, University of Trieste, Italy. (since 2012).
- Member of the Scientific Committee of the Czech Technical University in Prague for the study of intervention strategies to refurbish and preserve the masonry of Charles Bridge in Prague, Czech Republik. (2010-2012).
- Member of the UNI Committee for Timber Structures. Committee coordinated by Prof. Ezio Giuriani. (2009-2010).
- Member of the CNR Committee for the redaction and updating of the Rules for the design, construction and verification of timber constructions. Contribution to the redaction of CNR-DT 206/2007 and its updating CNR-DT 206/2018. (since 2005).
- Scientific Responsible, Scientific Agreement between the Department of Concrete and Masonry Structures, Czech Technical University in Prague and the Department of Architecture and Urban Planning Design, University of Trieste, Italy. (2004-2012).

Partecipation to Scientific Committees of National/International Conferences

- Member of the Scientific Committe of the Italian Concrete Days 2020, Giornate AICAP - Congresso CTE, Napoli, 10-12 june 2020.
- Member of the Scientific Committe of the International Symposium on Traffic Transportation and Civil Architecture, ISTTCA 2018, Hangzhou, China, 12-14 october 2018.
- Member of the Scientific Committe of the 10th International Masonry Conference, IMC 2018, Milan, Italy, 9-11 july 2018.
- Member of the Scientific Committe of the Italian Concrete Days 2018, Aicap Days –CTE Congress, Milan/Lecco, Italy, 13-15 june 2018
- Member of the Organization Committe of the International Conference on Structural and Mechanical Engineering for Security and Prevention, ICSMESP, Prague (CZ), 2017
- Member of the Scientific Committe of the Italian Concrete Days 2016, Aicap Days –CTE Congress, Rome, Italy, 27-28 october 2016
- Member of the Organization Committe of the International Conference on Building Safety and Secure 2015, Czech Technical University in Prague, Czech Republic, 2015.
- Member of the Organization Committe of the International Workshop on Building Sustainability and Building Security, Czech Technical University in Prague, Czech Republic, 2014.
- Member of the Organization Committe of the 11th World Conference on Timber Engineering WCTE Riva del Garda, Italy 2010.
- Member of the Organization Committe of the 2nd International Workshop on Urban Gaming Simulation Design on Disasters Mitigation for Urban Cultural Heritage Trieste, Italy, 2009.
- Member of the Organization Committe of the International Symposium on "Advances in Precast Construction" Milan, 2008.
- Member of the Organization Committe of the 2° Fib Congress – Naples, Italy, 2006.
- Member of the Organization Committe of the VI Workshop Italiano sulle strutture composte, Trieste, Italy, 2004.
- Scientific Coordinator, with Prof. Luigino Dezi, of the Advanced Professional Training Course, organized by CISM (International Center for Mechanical Sciences) with the title "Strutture composte: Nuove costruzioni, recupero, ponti *Composite Structures: New Buildings, Rehabilitation, Bridges*". 23-25 march 2003.
- Member of the Organization Committe of the Conference: Timber roofs for residential buildings, Udine (I), 2002. ProHolz Austria, Vienna.

Peer review of research projects and papers for journals

- Member of the Review Committee for the evaluation of the quality of the research VQR 2011-2014, for the Italian Ministry of Education, scientific disciplinary sector ICAR/09. (2016-2017).
- Member of the Research Evaluation Committee (CVR) of the University of Trieste (2015-2016).
- Member of the Committee for the evaluation of research projects subjected to grant by the Grant Agency of the Czech Republic (GACR) (since 2002).
- Member of the Committee for the evaluation of research projects subjected to grant PRIN, Italian Ministry for Education, University and Research (MIUR) (since 2002).
- Member of the Editorial Board of the Journal "American Journal of Construction and Building Materials – Science Publishing Group. (since 2017).
- Associate Editor of the Journal "International Journal of Building Sustainability and Secure", Willenberg Foundation, Prague. ISSN: 2336-2707 (print) e ISSN: 2336-4653 (on-line). (since 2014).
- Co-Editor, "Strutture composte: Nuove costruzioni, recupero, ponti", CISM International Centre for Mechanical Sciences, Udine, Italy – ISBN 88-85137-20-2. (2003-2006).
- Reviewer, Engineering Structures, Elsevier Ltd. (since 2002).
- Reviewer, Construction and Building Materials, Elsevier Ltd. (since 2015).

- Reviewer, Journal of Structural Engineering, ASCE. (since 1998).
- Reviewer, Bulletin of Earthquake Engineering, Springer International Publishing. (since 2014).
- Reviewer, Materials and Structures, RILEM, Springer International Publishing. (since 2004).
- Reviewer, Composites Part B: Engineering, Elsevier Ltd. (since 2016).
- Reviewer, Journal of Bridge Engineering, ASCE. (since 2014).
- Reviewer, International Journal of Masonry Reasearch and Innovation, Inderscience Publishers. (since 2016).
- Reviewer, Steel and Composite Structures, Techno Press. (since 2001).
- Reviewer, Structural Engineering and Mechanics, Techno Press. (since 2003).
- Reviewer, Computational Mechanics, Springer International Publishing. (since 2002).
- Reviewer, Earthquake Spectra, Earthquake Engineering Research Institute. (dal 2010).
- Reviewer, Periodica Polytechnica, Civil Engineering, Budapest University of Technology and Economics. (since 2014).
- Reviewer, Steel Construction Design and Research, Ernst and Sohn, Wiley Brand. (since 2014).
- Reviewer, Proceedings of the Institution of Civil Engineers – Structures and Buildings, Thomas Telford. (since 2014).
- Reviewer, The structural Design of Tall and Special Buildings, John Wiley and Sons, Inc. (since 2016).
- Reviewer, Journal of Vibration and Control, Sage Journals. (since 1999).
- Reviewer, Journal of Civil Engineering and Management, Taylor and Francis. (since 2017).

Other research activities and acknowledgements

- Win the selection "International Researcher Mobility" for a period of research of 6 months at the Czech Technical University Prague, Czech Republic, june 2019.
- Member of the Committee for the Comparative Evaluation of Candidates for a position of Researcher type B in Structural Engineering, at the University of Trieste (2019).
- Member of the Faculty Promotion Committee at the Faculty of Civil Engineering of the Czech Technical University in Prague for the scientific evaluation of candidates for the promotion to Associate Professor of Structural Engineering (2017).
- Member of the Committee for the Comparative Evaluation of Candidates for a position of Researcher type A in Structural Engineering, at the University of Trieste (2014).
- Member of the Committee for the Comparative Evaluation of Candidates for a position of University Researcher in Structural Engineering, at the University of Florence (1999), the University of Trento (2001), the University of Padua (2005), the Polytechnic of Milan (2007, 2008).
- Member of the Lecturer Board; PhD Program on "Engineering and Architecture", offered by the University of Trieste (2013-2016).
- Member of the Lecturer Board; PhD Program on "Civil and Environmental Engineering", offered by the University of Trieste (2011-2014).
- Member of the Lecturer Board; PhD Program on "Engineering of Civil and Mechanical Structural Systems", offered by the partnership of the Universities of Brescia, Padova, Trento, Trieste, Udine, Venezia (2007-2015).
- Member of the Lecturer Board; PhD Program on "Rehabilitation of ancient and modern buildings", offered by the partnership of the Universities of Brescia, Padova, Trento, Trieste, Udine, Venezia (2008-2015).
- Member of the Lecturer Board; PhD Program on "Structural Engineering: Modelling, Conservation and Control of Materials and Structures", offered by the partnership of the Universities of Brescia, Padova, Trento, Trieste, Udine, Venezia (2000-2009).
- Review of PhD Thesis of Giuseppe D'Arenzo, University of Enna "Kore", title "Innovative biaxial behaviour connector for Cross-Laminated Timber Structures"; supervisors Proff. Marinella Fossetti, Massimo Fragiacomo, Werner Seim (2019-2020).
- Review of PhD Thesis of Giorgia Di Gangi, University of Rome "La Sapienza", title "Structural Analysis and Design of timber light-frame shear walls"; supervisor Prof. Giorgio Monti (2019).
- Review of PhD Thesis of Sara Silvana Lucchini, University of Brescia, title "Steel fiber reinforced mortar for seismic retrofitting of unreinforced masonry buildings"; supervisors Proff. Giovanni Plizzari, Fausto Minelli (2018).
- Review of PhD Thesis of Taffarel Sabrina, University of Padova, title "Metodi speditivi per la valutazione della vulnerabilità sismica del costruito storico, approccio all'incertezza nelle forme di aggregazione complessa a diversa scala"; supervisor Prof. Claudio Modena. (2016-2017).
- Review of PhD Thesis of Romina Sisti, University of Perugia, title "Sperimentazione sull'uso di reti in fibra di vetro preformate per interventi di rinforzo di costruzioni in muratura; supervisor Prof. Antonio Borri. (2016-2017).
- Review of PhD Thesis of Massimo Melotto, University of Brescia, title "Wood-based in-plane strengthening solutions for the seismic retrofit of tradictional timber floors in masonry buildings"; supervisor Prof. Alessandra Gubana (2017).
- Member of the Examination Committee for the acceptance of the candidates to the PhD Course on Rehabilitation of ancient and modern buildings, University of Brescia (2008).
- Member of the Graduation Committee for the final examination of PhD in Materials and Structural Engineering, University "Federico II" Naples (2016)
- Member of the Graduation Committee for the final examination of PhD in Rehabilitation of ancient and modern buildings, University of Brescia (2015).

- Member of the Graduation Committee for the final examination of PhD in Transportation Engineering, University of Trieste (2004).
- Fellowship CNR-NATO annual, spent at the University of Waterloo, Ontario, Canada, to carry out research on the nonlinear behavior of the reinforced concrete structures, invited by Prof. M.Z. Cohn. (1989-1990).
- Acknowledgement by Scientific.Net Editors fot the "high-quality manuscript" of the paper: Gattesco N. and Macorini L., "Structural Performance of Old Composite Floors Made up of Wrought Iron Joists and Masonry Vaults", Applied Mechanics and Materials, Vol. 796, pp. 53-67, 2015.
- Acknowledgement by the Journal of Measurements in Engineering, JVE International, of the paper: Gattesco N., Boem I., "Masonry vaults strengthened with a GFRP reinforced mortar coating: evaluation of the resisting peak ground acceleration", Vol. 6 (4), pp. 181-189, 2018. as the best paper published in 2018, 4th issue.

Supervisor of PhD students and research fellows

- Supervisor of Dr. Ingrid Boem, PhD in "Engineering and Architecture", University of Trieste. PhD thesis title: "Enhancement of the seismic performances of historic masonry buildings through glass fiber reinforced mortar". (2013-2017).
- Supervisor of Dr. Rita Franceschinis, PhD in "Rehabilitation of ancient and modern buildings", University of Brescia. PhD thesis title: "Procedure for the assessment of seismic vulnerability of education buildings with reinforced concrete structure". (2008-2012).
- Supervisor of Dr. Manuela Buttazzi, PhD in "Modelling, Conservation and Control of Materials and Structures", University of Trento. PhD thesis title: "Glueed-in rod joints in glue-laminated timber elements: experimental tests and numerical simulations", co-supervisor Prof. Alessandra Gubana. (2005-2009).
- Scientific Responsible of research fellows engaged in research developed by the own group: Dr. Lorenzo Macorini PhD (2002-2008), Denis Bernardi (2002-2003), Fabio Urban (2004-2005), Dr. Manuela Buttazzi PhD (2005-2009), Allen Dudine MSc (2008-2011), Fabio Zorzini (2008-2013), Dr. Rita Franceschinis PhD (2008-2012), Dr. Ingrid Boem PhD (2012-2020), Laura Gratton (2014-2015), Dr. Michele Dilena PhD (2016-2020), Veronica Andretta (2017-2017).

Presentation of papers at International and Italian scientific Conferences

- Speaker of 58 presentations at international conferences and 56 presentations at national conferences whose lists are reported in the list of publications. The list refers to papers presented by the candidate by invitation and/or orally. In many conferences he was also session chairman. Many of the papers that collect the contributions presented at international conferences are indexed by Scopus and/or WOS.

RESEARCH THEMES

The research activity deals with studies concerning the following themes:

- Theoretical and numerical modeling of structural behavior;
- Non-linear analysis of structures (reinforced concrete, mixed steel and concrete, etc.);
- Fatigue in steel-concrete composite bridges;
- Viscoelastic behavior of reinforced concrete structures;
- Durability of reinforced concrete structures;
- Seismic engineering.
- Experimental techniques in civil engineering;
- Structural diagnostics;
- Seismic vulnerability of existing buildings.
- Strengthening techniques for the rehabilitation of existing masonry structures;
- Structural strengthening systems through the use of FRP fiber reinforced composites:
- Timber structures (heavy frame system, platform frame system, cross laminated timber);
- Bolted and glued-in rod joints in glue laminated timber structures;
- Strengthening of ancient wooden floors;
- Structures made with fiber-reinforced pultruded profiles;
- Bolted joints in structures made with fiber-reinforced pultruded profiles;
- Structures in molded fiber-reinforced composites.

The research is directed to the study of overall structural behavior, but frequently faces basic studies aimed at deepening knowledge on the most important local behaviors. Basic research is usually carried out through a theoretical and / or numerical modeling that allows to identify the parameters that govern the phenomena and through specific experimental investigations carried out in parallel.
The results of the research activity are documented in more than 220 articles published in the main international journals, in international and national Conferences and presented in the form of technical reports.

RESEARCH ACTIVITY

Research projects with public grants

The research activity has been carried out with the contribution of fundings provided by the European Union, the Italian Civil Protection, the Cultural Heritage Ministry, the Friuli Venezia Giulia Region, the Ministry of Education, University and Research MIUR (PRIN projects). The writer has been the scientific responsible of the following projects:

- INTERREG Italy-Slovenia 2014-2020 "CONSTRAIN – Sharing and application of innovative strategies for seismic protection of masonry buildings", Lead Partner University of Trieste (scientific coordinator), other Partners: University of Ljubljana, IGMAT d.d. - Ljubljana, Kolektor CPG d.o.o. - Nova Gorica, Fibre Net S.p.a. - Pavia di Udine (UD), Veneziana Restauri Costruzioni VRC S.r.l. - Gruaro (VE). (2019-2022).
- RELUIS 2019-2021 "WP4 – Risk maps and seismic damage scenarios", lead coordinators Sergio Lagomarsino and Angelo Masi. The Research Unit of Trieste is partecipating to Task 4.7 "Models and fragility curves for schools and other strategic buildings". (2019).
- RELUIS 2019-2021 "WP5 – Strengthening interventions of rapid execution and with low impact", lead coordinators Andrea Prota and Francesca da Porto. The Research Unit of Trieste is partecipating to Task 5.1 "Rapid interventions and with low impact". (2019).
- RELUIS 2018 "Thematic area I: Themes or General Projects, Research sector: PR1 – Masonry structures"; lead coordinators Proff. Sergio Lagomarsino, Francesca Da Porto e Guido Magenes. The Research Unit of Trieste participated to WP 1.1 "Development and calibration of analytical models", WP 3.3 – "Strengthening of buildings damaged by the earthquake and intervention strategies based on resilience". (2018).
- RELUIS 2018 "Thematic area I: Themes or General Projects, Research sector: PR4 – Timber structures", lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated to WP5 "Timber roofs". (2018).
- RELUIS 2017 "Thematic area I: Themes or General Projects, Research sector: PR1 – Masonry structures"; lead coordinators Proff. Sergio Lagomarsino, Claudio Modena e Guido Magenes. The Research Unit of Trieste participated to WP 1.1 "Development and calibration of analytical models", WP 3.3 – "Strengthening of buildings damaged by the earthquake and intervention strategies based on resilience". (2017).
- RELUIS 2017 "Thematic area I: Themes or General Projects, Research sector: PR4 – Timber structures", lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated to WP5 "Timber roofs". (2017).
- POR-FESR 2014-2020, Axis 1.3, House system supply chain, No. 1: technology linked to materials. Research Units: Firm Fibre Net srl, Pavia di Udine (coordinator Andrea Zampa), University of Trieste, University of Perugia (coordinator Prof. Antonio Borri). Theme RU of Trieste "Technical-scientific study with experimental mechanical tests on vaults and reinforced walls with innovative solutions based on the use of fiber-reinforced polymer matrix composites" (2016-2017).
- RELUIS 2016 "Line: General Themes, Research sector: Masonry constructions"; lead coordinators Proff. Sergio Lagomarsino, Claudio Modena e Guido Magenes. The Research Unit of Trieste participated to WP3 "Intervention strategies for masonry constructions, Task 3.1: Evaluation of intervention effectiveness". (2016).
- RELUIS 2016 "Line: General Themes, Research sector: Timber structures"; lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated to WP1 "Timber buildings with heavy frame system". (2016).
- RELUIS 2015 "Line: General Themes, Research sector: Masonry constructions"; lead coordinators Proff. Sergio Lagomarsino, Claudio Modena e Guido Magenes. The Research Unit of Trieste participated to WP3 "Intervention strategies for masonry constructions, Task 3.1: Evaluation of intervention effectiveness". (2015).
- RELUIS 2015 "Line: General Themes, Research sector: Timber structures"; lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated to WP1 "Timber buildings with heavy frame system". (2015).
- RELUIS 2014 "Line: General Themes, Research sector: Masonry constructions"; lead coordinators Proff. Sergio Lagomarsino, Claudio Modena e Guido Magenes. The Research Unit of Trieste participated to WP3 "Intervention strategies for masonry constructions, Task 3.1: Evaluation of intervention effectiveness". (2014).
- RELUIS 2014 "Line: General Themes, Research sector: Timber structures"; lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated to WP1 "Timber buildings with heavy frame system". (2014).
- Research Project "Verification of the seismic safety of the State Museums. Application of Ordinance PCM 3274/2003 and of Directive PCM 12.10.2007", granted by MIBACT (Ministry of Cultural Heritage), engaged 17 universities (2014-2015).
- RELUIS 2010-2013 "AT1 – Tools for assessing and managing the risk of built heritage. Line 1: New aspects in the assessment of existing structures and strengthening interventions and assessment of the seismic vulnerability of the ancient buildings on a regional scale. Task 1: Evaluation and reduction of the vulnerability of masonry buildings, historic center and cultural heritage."; lead coordinators Proff. Sergio Lagomarsino, Claudio Modena e Guido Magenes. The Research Unit of Trieste participated in the project. (2010-2013).
- RELUIS 2010-2013 "AT2 – Code and technological innovations in seismic engineering. Line 1: Aspects in the seismic design of new buildings. Task 1.4 Timber structures"; lead coordinators Proff. Paolo Zanon/Maurizio Piazza. The Research Unit of Trieste participated in the project. (2010-2013).
- ASSESS 2008-2011, financed by the Friuli Venezia Giulia Region, "Analysis of seismic scenarios related to strategic school buildings aimed at defining intervention priorities for seismic risk reduction ". Research Units: University of Udine, University of Trieste, Experimental Geophysical Observatory of Trieste. The writer has coordinated the structures group of the University of Trieste. Products of the project: 12 Technical Guidelines. (2008-2011).

- Fondo Trieste Project 2008 (Call according to Decreto Commissariale n. 15 del 2.5.2004), “Development of new intervention techniques with the use of innovative materials to provide seismic safety to existing strategic buildings in the province of Trieste", (2009-2011).
- Friuli Venezia Giulia Region Project (Call according to L.R. 3/98, art. 16), “Innovative techniques of connection for structural elements in glue-laminated timber or panels: Experimental investigation for the definition of joints characterized by effectiveness in terms of cyclic stress, speed of construction and high aesthetic appearance”. (2003-2005).
- PRIN 2006 " Study of high reversibility techniques for the consolidation of wooden floors of historic buildings"; lead coordinator Prof. Maurizio Piazza. The Research Unit of Trieste participated in the project. (2007-2008).

The writer has also collaborated in the drafting and carrying out of the following research projects:
- PRIN 2003 "Inverse problems in structural diagnostics: general aspects and applications”, coordinated by Prof. Antonino Morassi. (2003-2005).
- Research Project L.R. Friuli Venezia Giulia 3/98 (year 2000) " Implementation of integrated teaching tools for teaching the structural design disciplines according to the new university systems ", coordinated by Prof. Pier Giorgio Malerba. (2000-2001).
- PRIN 2000 " Analysis of durability and reliability of reinforced concrete structures intact and damaged"; lead coordinator Pietro Gambarova. Research Unit of Udine coordinated by Prof. Pier Giorgio Malerba. (2000-2003).
- PRIN 1997 " The safety of high-performance concrete structures "; lead coordinator Prof. Pietro Gambarova. Research Unit of Udine coordinated by Prof. Pier Giorgio Malerba. (1998-2000).
- MURST 1994-96 " Innovative techniques and calculation models in reinforced and prestressed concrete"; lead coordinator Prof. Pietro Gambarova. Research Unit of Udine coordinated by Prof. Pier Giorgio Malerba. (1995-1998).

Research projects financed by enterprises

The writer has coordinated numerous research agreements with private companies for the study of specific problems concerning the structures of new buildings or existing buildings. Some of the main projects that the writer was scientific responsible are:
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the company MM Grigliati (Industry for the construction of gratings and pultruded structures in fiber-reinforced composite), via Zanussi 300/302 ZIU, Udine. Project "Study of a system of building components that can be used for façade cladding or construction of building completion elements based on the use of resin gratings, with or without fiber reinforcement". (2017-2020).
- Agreement between the Department of Enginering and Architecture of the University of Trieste and the company Bodino Engineering S.r.l., Corso Tazzoli 235/3A, Torino. Project “Experimental study on the behavior of connections between wall and foundation of platform frame timber structures”, (2019).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the company MM Grigliati (Industry for the construction of gratings and pultruded structures in fiber-reinforced composite), via Zanussi 300/302 ZIU, Udine. Project "Study of a procedure for the design of FRP composite gratings". (2015-2016).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the Company Fibre Net s.r.l. of Pavia di Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Jacopo Stellini 3, Pavia di Udine. Project "Numerical and experimental study of the performance of structural reinforcement systems for existing masonry buildings using composite materials (FRP meshes for masonry and pultruded profiles)". (2015-2016).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the Company Fibre Net s.r.l. of Pavia di Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Jacopo Stellini 3, Pavia di Udine. Project "Study of structural reinforcement systems for existing masonry buildings with the use of composite materials (FRP meshes for masonry and pultruded profiles for floors)". (2014-2015).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the Company Fibre Net s.r.l., Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Zanussi 311, Udine. Project "Execution of an experimental campaign to verify the effectiveness of reinforced masonry with the use of a technique based on mortar coating reinforced with a GFRP mesh". (2013-2014).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the Company Fibre Net s.r.l., Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Zanussi 311, Udine. Project "Experimental campaign to verify the effectiveness of reinforced masonry with the use of GFRP (glass fiber reinforced polymers) fiber-reinforced composite material". (2012-2013).
- Agreement between the Department of Engineering and Architecture of the University of Trieste and the Company Fibre Net s.r.l., Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Zanussi 311, Udine. Project "Experimental study to quantify the effectiveness of a hybrid technique for reinforcement of walls of historical buildings". In collaboration with the University of Perugia, Prof. Antonio Borri. (2012).
- Agreement between the Department of Civil and Environmental Engineering of the University of Trieste and the Company STRATEX s.p.a. (Industry for the construction of glue-laminated timber structures), via Peschiera, 3/5, Sutrio, Udine, Italy. Project "New products in bio-architecture and development of the JIT project of finished modular walls" (2010-2012).

- Agreement between the Department of Civil and Environmental Engineering of the University of Trieste and the Company Fibre Net s.r.l., Udine (Industry for the construction of structures in fiber-reinforced composite materials), via Zanussi 311, Udine. Project "Effectiveness of a reinforcement technique for existing masonry using GFRP mesh reinforced mortar coating" (2008-2011).
- Agreement between the Department of Civil and Environmental Engineering of the University of Trieste and the company SPAV Prefabbricati s.p.a., (Prefabricated reinforced concrete building industry), via Spilimbergo, 231, Martignacco, Udine. Project "Study of the seismic response of multi-storey prefabricated buildings" (2006-2008).
- Agreement between the Department of Civil Engineering of the University of Udine and Ditta Euroholz s.r.l. (Industry for the construction of glue-laminated timber structures), via Division Julia, Villa Santina, Udine. Project "Experimental investigation on continuity joints of glue-laminated timber elements subjected to normal stress and bending moment". (2000-2001).
- Agreement between the Department of Civil Engineering of the University of Udine and Ditta Euroholz s.r.l. (Industry for the construction of glue-laminated timber structures), via Division Julia, Villa Santina, Udine. Project "Study on the typologies and static behavior of glued-in-rod joints of glue-laminated timber beams" (1999).

INTERNATIONAL RESERCH CONTACTS

- Prof. Matjia Gams, Department of Civil Engineering, University of Lubiana, Slovenia. Research collaboration on reinforcement techniques of existing masonry constructions using composite materials (since 2018). Project INTERREG Italy-Slovenia called CONSTRAIN (2020-2022).
- Prof. Daniel Oliveira, Department of Civil Engineering, University of Minho, Portugal. Research collaboration on strengthening techniques for existing masonry constructions by using composites with glass fibers and sisal natural fibers (since 2017).
- Prof. Vladimir Kristek, Prof.ssa Alena Kohoutkova, Department of Concrete and Masonry Structures, Czech Technical University in Prague. Research collaboration on the behavior of historical masonry walls (since 2009).
- Prof. Miha Tomazevic and Dr. Marjana Lutman, ZAG Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia. Collaboration concerning the research on the seismic behavior of historic masonry buildings. Also educational collaboration in the context of the Master in Earthquake Building Design (since 2007).
- Dr. Lorenzo Macorini e Prof. Bassam Izzuddin, Department of Civil and Environmental Engineering, Imperial College, London. Collaboration concerning the research on the mechanical behavior of masonry buildings (since 2001).
- Prof. R.P. Johnson, Department of Engineering, University of Warwick, Coventry, U.K. Research collaboration on the nonlinear behavior of steel and concrete composite beams (two months Visisting Scholar at the University of Warwick in 1992).
- Prof. M.Z. Cohn, Solid Mechanics Division, Department of Civil Engineering, University of Waterloo, Ontario, Canada. Research collaboration on the redistribution of moments in continuous beams of normal and high-performance reinforced concrete (15 months visiting scholar at the University of Waterloo - 1989-1990).

TEACHING ACTIVITY

Lectures

MSc in Architecture, University of Trieste

- Structural Analysis 1 (2001-2012).
- Concrete Structures (since 2012).
- Timber and Masonry Structures (2001-2007).
- Timber Constructions (since 2007). Also for Civil Engineering students.
- Structural Problems of Ancient Buildings (since 2001).
- Director of the Didactic Laboratory: Architectural Construction III, which includes the modules: Theory and Design of Steel Structures, Structural Problems of Ancient Buildings, Structural Design, Technology and Architecture (2004-2009).
- Director of the Didactic Laboratory: Architectural Construction II, which includes the modules: Concrete structures, Physics of Buildings, Technology and Architecture (since 2012).

MSc in Civil Engineering, University of Trieste

- Structural Design 2 (since 2019)

MSc in Civil Engineering, University of Udine

- Testing Materials and Structures (1990-1991).
- Structural Design (1991-1998).
- Theory of Steel Structures, part of the course of Structural Analysis (Prof. Pier Giorgio Malerba) (1991-2001).
- Computer Methods in Structural Analysis (1999-2002).

Prof Gattesco promoted the activation of the new courses of “Structural Problems of Ancient Buildings” and “Timber and Masonry Structures” in the Master Program in Architecture since a.y. 2001-2002. In a.y. 2007-2008 he promoted the activation of the new course of “Timber constructions” offered to students of architecture and civil engineering of the University of Trieste.

Supervision/Review of Theses

- Supervisor or co-supervisor of 43 theses presented at the University of Udine or at the University of Trieste in the partial fulfillment of the requirements for the MSc in Civil Engineering.
- Supervisor or co-supervisor of 36 theses presented at the University of Trieste in the partial fulfillment of the requirements for the MSC in Architecture.
- Supervisor of 2 theses presented at the Technical University of Valencia, Spain, in the partial fulfillment of the requirements for the degree in Construction Engineering (2009).
- Supervisor of 10 MSc Thesis in Earthquake Engineering at the University of Trieste.
- Supervisor of 3 PhD Theses.
- Reviewer of 6 PhD Theses presented at the Universities of Brescia, Padova, Perugia, Roma "La Sapienza" e Enna (2016-2020).
- Counter-supervision of 2 MSc theses at the Faculty of Engineering of the University of Trento and 15 MSc theses at the Faculty of Engineering of the University of Brescia.

Lectures to Specialistic Courses

- Graduate course "Seismic vulnerability of existing constructions – Part 1: Masonry buildings" (8 hours). PhD program in "Rehabilitation of ancient and modern buildings", University consortium: Brescia, Padova, Trento, Trieste, Udine, Venezia (2010-2011).
- Graduate course "Strengthening and stiffening ancient masonry buildings to improve their resistance to earthquake" (20 hours). II level Master "Earthquake Engineering", University of Trieste. (2007-2009).
- Graduate course "Structural Problems of Reinforced Concrete Devices in the Sewage Treatment Plants" (16 hours), II level Master "School of Chemical Environmental Engineering – Management and Industrial Water Treatment", Universities of Padova, Trieste, Udine, Venezia, Verona. (2005-2014).
- Lectures on special topics of Structural Engineering at numerous Advanced Professional Training Courses at the International Center of Mechanical Sciences (CISM), Udine. (1986, 1997, 1998, 1999, 2000, 2003, 2004, 2005, 2006, 2007, 2009, 2012, 2014).
- Lectures to many courses for professional engineers and architects concerning mainly the structural design in earthquake areas and the rehabilitation techniques for existing buildings, (since 2003).
- Seminars (more than 100) on the new strengthening techniques for masonries, in cooperation with Prof. Antonio Borri, University of Perugia and Prof. Maria Antonietta Aiello, Francesco Micelli, University of Salento. The seminars are given to professional associations of engineers all around Italy: (since 2011).

Lectures or seminars were also held at foreign universities: University of Waterloo, Ontario (CA), Ecole Polytechnique Federal of Lausanne (CH), Czech Technical University in Prague (CZ).

TECHNIC-ORGANIZATIONAL ACTIVITY

University

- Activation, together with some colleagues of the Faculty of Architecture and Engineering of the University of Trieste, of a Master's Course in "Anti-seismic Design of Buildings"; the teaching activity started in 2007. Direction of the "Rehabilitation of existing buildings and special structures" section.
- Coordination of the development of the Materials and Structures Testing Laboratory of the Department of Civil Engineering of the University of Udine. In particular, the updating and strengthening of the test equipment and instruments for measuring forces and displacements was directed.
- Proposed and supervised the acquisition of a cyclic testing equipment on structures, which allowed the researchers of the Department of Civil Engineering of the University of Udine to carry out interesting experimental research and attracted several agreements with companies to perform experimental studies, at the University Laboratory.
- Arranged a system for testing full scale grid vault samples made with glue-laminated timber elements. To correctly simulate the stresses present in the vault, axial actions were applied in the 4 beams that converge in the node and simultaneously perpendicular forces, to obtain the actual values of moment and shear in the joint.
- Governed the purchase of a system for monitoring the structures able to remotely control the evolution of some significant parameters of the structure from the Laboratory.
- Directed many specialized experimental activities conducted at the Laboratory of the University of Udine.
- In the last fifteen years the writer has worked for the updating of the equipment of the Laboratory for Testing Materials and Structures of the Department of Engineering and Architecture of the University of Trieste. In particular, he followed the acquisition of a system for the control and management of three 500 kN electromechanical actuators and 300 and 600 mm stroke. The purchase was possible thanks to the funding by the Friuli Venezia Giulia Region of a research project, coordinated by Prof Gattesco, concerning the study of glued-in-rod joints of laminated timber beams and the study of the behavior of different timber shear walls (platform frame system).
- Directed the monitoring of historical constructions in Gorizia and coordinated, together with Prof. Salvatore Noè, the process of controlling the production of hollow floors for the company Giuliane Solai S.p.a., Mortesins, Udine.
- Designed the experimental apparatus used for the execution of shear tests on masonry spandrel beams, simulating the real state of stress of these in the presence of horizontal cyclical stresses on the wall.

- Designed and directed numerous specialist tests on structures or parts of steel or reinforced concrete structures commissioned by the local industry.
- Designed the experimental apparatus used for the simulation tests of the progressive collapse of steel structures with solid brick masonry-filled frames. Study conducted in collaboration with Prof. Bassam Izzuddin and Dr. Lorenzo Macorini of the Department of Environmental and Civil Engineering of the Imperial College of London.
- Directed many specialized experimental activities conducted at the University of Trieste Laboratory.
- Organized seminar for the students of the Faculties of Architecture and Engineering, University of Trieste, entitled "Modern timber constructions: new products and new technologies", (Dec. 2007). Speaker Prof. Ario Ceccotti, CNR-IVALSA, Sesto Fiorentino, Florence, Italy.
- Organized seminar at the Faculty of Architecture, University of Trieste, entitled "The vertical city: from Manhattan to Kuala Lumpur, (Mar. 2007) Speaker Prof. Franco Mola, Polytechnic of Milan.
- Organized Sixth Italian Workshop on Composite Structures, Trieste, November 2004. (Organized together with Prof. Claudio Amadio and Salvatore Noè).
- Organized seminar for students at the Faculty of Architecture of the University of Trieste entitled "Initial Conceptual Design of Earthquake Resistant Reinforced Concrete and Masonry Buildings according to Eurocode 8", Speaker Prof. Vojko Kilar, University of Ljubljana, Slovenia (March 2005).
- Organized APT (Advanced Professional Training) course at the CISM (Center International des Sciences Mécaniques) of Udine entitled: "Composite Structures in New Constructions, Rehabilitation and Bridges". The lectures were held on 24, 25 and 26 March 2003. Organized and coordinated course, together with Prof. Luigino Dezi, Polytechnic University of Marche Region, Ancona.
- Organized supplementary course for students and professionals (20 hours) within the Civil Engineering course of the University of Udine (ay 2001-2002) entitled "Timber structures". The lectures of the course were given by prof. Ario Ceccotti of the Venice University Institute of Architecture (January-March 2002).
- Organized conference at the University of Udine and at the University of Trieste (March 2001), addressed to doctoral students and external professionals involved in bridge design, entitled "Excessive deflections of long span prestressed concrete bridges" from prof. Vladimir Kristek of the Czech Technical University in Prague, Czech Republic.

Professional training

As president of the Structures Committee of the Engineers Association of the Province of Udine (2002-2010) and as Member of the Council of the same Association with the responsibility for professional training (2013-2017), the writer organized numerous courses and conferences for professional engineers updating as follow:

- Evaluated over 300 courses/seminars for the professional updating of Engineers of the Province of Udine, about 240 of them were activated in the years 2014, 2015, 2016, 2017.
- Seminar CSPfea "Classification of Seismic Vulnerability: Good Practices for the Application of the Ministerial Guidelines with Structural Software", at the University of Udine, (July 2017).
- Basic course on steel structures (20 hours) in collaboration with Collegio dei Tecnici dell'Acciaio, at the Engineers Association of Udine, (10 / 25-03-2017).
- Course "Consolidation of existing buildings", in collaboration with the CISM International Center of Mechanical Sciences in Udine, 02 / 03-12-2016.
- Seminar "Guidelines for the design with composite materials in GFRP", in collaboration with Ditta MM s.r.l. of Udine, at the Engineers Association Udine, 04-02-2016).
- Seminar "Structural reinforcement techniques of existing buildings with composite materials", in collaboration with Factory FibreNet of Pavia di Udine, in the Engineers Association of Udine, 03-02-2016.
- Conference for professional engineers entitled "Seminar on Technical standards for buildings", at the Engineers Association of the Province of Udine, (Jan. 2009).
- Conference for professional engineers entitled "Technical Standards and Eurocode 2 in Structural Design", at the Association of Engineers of the Province of Udine, (Mar. 2007). Funded by AICAP.
- Conference for professional engineers entitled "Technical Seminar on the document CNR-DT 206/2007: Instructions for the design, execution and control of timber buildings", at the Engineers Association of Udine, (Feb. 2007). Supported by CNR, Federlegno Arredo Assolegno, Agemont S.p.a., Association of Enterprises of the Province of Udine.
- Conference for professional engineers entitled "Situation of national and European standards", at the Engineers Association of the Province of Udine (Feb. 2006).
- Seminar entitled: "Traditional and Innovative Methods of Anti-seismic Interventions: Applications to Reinforced Concrete Buildings in Sicily", speaker Prof. Eng. Giuseppe Oliveto of the University of Catania (01.07.2004). Seminar organized with the Engineers Association of the Province of Udine.
- Conference entitled "The engineering works of the third millennium: The Messina Bridge: Safety of the work and expected performance", speaker Prof. Ing. Remo Calzona, "La Sapienza" University of Rome (13.02.2004). Conference organized together with the Association of Engineers of the Province of Udine.
- Courses for updating on the method of limit states and on the calculation techniques presented in the seismic regulation annexed to the Ordinance of the President of the Ministers Council n. 3274 of 20.03.2003. The courses were arranged on different modules for a total of 128 hours. (2003-2004).

- Seminar for technical updating for the Engineers Association of the Province of Udine entitled: "Technical and application problems of the calculation method proposed by Ordinance 3274", speaker Prof. Giandomenico Toniolo, Polytechnic of Milan (23.05.2003).
- Conference for professional engineers entitled "Wooden roofs for single-family houses" (Feb. 2002); speakers: the writer, Prof. Gerhard Schickhofer, Technical University of Graz (Austria), Prof. Wolfgang Winter, Technical University of Vienna (Austria), Prof. Franco Laner, University Institute of Architecture of Venice, (conference organized together with ProHolz , Vienna, Austria).

SCIENTIFIC ADVISOR ACTIVITY

- Technical Advisor of a party in civil case concerning the roofing structures of the Sports Arena of Udine. Conti e Associati Professionals, Udine. (2018).
- Scientific advisor concerning the peculiarities of bolted joints of closed section pultruded profiles. Company MM Grigliati of Udine. (2018).
- Special advisor regarding the design of the structures for a mold for hydroforming - Project H2020-723030 - GASVESSEL. (2018).
- Special Advisor for the structural improvement of the Bell Tower in Tapogliano, Udine. The construction is in masonry of irregular stones and has a height of about 30 m. Parish of Tapogliano. (2017-2018).
- Special Advisor for the structural rehabilitation of the former Gorizia tram depot. The building has a volume of about 5000 cubic meters and includes solid brick perimeter walls and the roof, including the internal supports, are made of timber. The intervention provides the strengthening of the walls with a GFRP mesh reinforced mortar coating and enhancement of the timber structures. Municipality of Gorizia (2017).
- Special advisor for the strengthening of the "Sala Petrarca" of the “Trgovski dom” building, designed by Max Fabiani at the beginning of the last century, Gorizia. Horizontal structures are in iron profiles and solid brick vaults: application of research results obtained a few years ago on this type of floors. Isontina State Library. (2015-2016).
- Technical Advisor of a party in a civil case concerning the evaluation of the structural safety of fencing barriers of power plants realized with lattice structures in pultruded profiles based on the latest research results on the topic and through experimental verification on the particular type of connection at the base. Contentious between clients, designers, construction management and executives at the Saint Denis power plants in Paris (about 3000 square meters). Company MM Grigliati of Udine. (2016).
- Special Advisor in structural design and during the execution of a kindergarten at the Municipality of Ronchi dei Legionari (about 4000 cubic meters). Platform-frame type construction system: optimization by adopting the results of the specific research developed by the writer on this type of structures. (2011-2016).
- Advisor on the causes of cracking of sedimentation and oxidation tanks of the waste treatment plant of the Municipality of Lignano Sabbiadoro, UD. The tanks with a total volume of about 5000 cubic meters are made of reinforced concrete and are mostly above ground. (2015).
- Study for the re-functionalization and restoration of the former villa Sevastopulo-Castelletto (1860); former seat of the Biology course of the University of Trieste (about 6800 cubic meters). Evaluation of the seismic safety with indication of the interventions necessary for the structural strengthening. Produced for the University a volume that collects the results of the study together with those concerning historical and material analysis, the survey, the re-functional hypotheses. (2014-2015).
- Study of the state of the structures of the floors of the first basement and of the ground floor of the premises of the main building of the University of Trieste as it had occurred the detachment of a portion of the floor of over 25 square meters. The study defined the severity of the phenomenon and indicated an effective and light-type intervention technique (about 15,000 square meters). University of Trieste. (2013-2014).
- Special Advisor for the design of a chimney strengthening system in the Bomporto (MO) furnace, damaged by the 2012 earthquake. The project involved the use of a system of steel cable ties inside the chimney, obtaining a very interesting result from a static, aesthetic and economic point of view (height 21 m). Municipality of Bomporto, MO. (2012-2014).
- Special Advisor in the design of the remaking of the sacristy roof of the Basilica of San Domenico in Siena, using trusses in pultruded profiles (about 500 square meters). Experimental verification of truss beam joints. Company Fibre Net s.r.l. Udine. (2012).
- Special Advisory on the state of the structures of the building housing the Regional Directorate of Friuli Venezia Giulia of the Territory Agency and the Customs Agency located in Corso Cavour in Trieste (about 19,000 cubic meters). Analysis of the crack pattern and experimental measurement of evolution, for understanding the causes, and analysis of structural problems with indication of remedies. (2011).
- Special Advisor for diagnostics and for the concrete repair project of the Mortegliano bell tower, UD (height 113 m). The structures had detachment of the concrete cover for carbonation of the concrete and corrosion of the reinforcing bars. Parish of Mortegliano. Presentation of the study results at Italia Nostra's Architecture Meetings, "Tradition and modernity in the twentieth-century Friulian architects", Udine, 5-11-2009.
- Special Advisor for the evaluation of seismic vulnerability and the design of intervention techniques concerning the buildings of the Passenger Terminal and Goods Terminal of Friuli Venezia Giulia Airport. This is a complex of

constructions in reinforced concrete and prestressed reinforced concrete built on an area that at the time of construction was not classified as seismic. (2010-2011).

- Special Advisor for diagnostics and indication of the concrete repair technique of the condominium "Messaggerie", via Marangoni, Udine (about 70000 cubic meters). The structures of beams and pillars were degraded by the corrosion of the reinforcements that have cracked and, in some cases, undermined the concrete cover. (2004-2006).
- Static testing of the new headquarters of the Friuli Venezia Giulia Region, in the Municipality of Udine, via Volturno. Building made in reinforced concrete, prestressed reinforced concrete and steel-concrete composite structures of about 70000 cubic meters. Execution of loading tests on the floors of the mezzanine floor with fully loaded trucks, to simulate the load of the fire trucks, on the floors with a water cushion and on the attic above the auditorium, subject to great crowding (square) with series of actuators and concrete blocks from one cubic meter. Loading tests on an L-shaped prefabricated prestressed reinforced concrete beam at the University of Trieste Laboratory. (2005-2007).
- Study for the definition of a "light" reinforcement system for the wooden floor slabs of the "Lazzaretto Vecchio" condominium in Trieste (about 15,000 cubic meters). Criticality caused by the removal of partitions on the first floor with important settlement of the floors and damage to the dividing walls of the floors above. Indicated intervention with pre-stressed steel lattice structures to recover the accumulated deformation. (2004-2005).
- Advisor for the rehabilitation of an old water mill, "Mulin di Marchet" (about 3000 cubic meters) of Molaro Iginio and Cogoi Arcangela (Mereto di Tomba, UD), listed by the Superintendence for architectural heritage, with interventions respectful of the conservation and characterized by low invasiveness and high reversibility, but also able to guarantee adequate structural improvement. (2001-2002).

Trieste, 6 March 2020

Prof. Ing. Natalino Gattesco

LIST OF MOST IMPORTANT PUBLICATIONS

PAPERS ON INTERNATIONAL JOURNALS INDEXED SCOPUS OR WOS

1. BRITO de CARVALHO C., BOEM I., CECCHI A., GATTESCO N., OLIVEIRA D.V., "Experimental tests for the characterization of sisal fiber-reinforced cementitious matrix for strengthening masonry structures", Construction and Building Materials, Elsevier, Vol. 219, 2019, 44-55.
2. GATTESCO N., DILENA M., BOEM I., "Experimental and numerical study on the bending performances of glass FRP gratings: influence of restraining conditions and cover plates", Composite Structures, Elsevier, Sept. 2019, 223.
3. GATTESCO N., BOEM I., "Review of experimental tests and numerical study on masonry vaults reinforced through fiber-reinforced mortar coating", Bulletin of Earthquake Engineering, Springer, July 2019, 17 (7), 4027-4048.
4. GATTESCO N., BOEM I., Masonry vaults strengthened with a GFRP reinforced mortar coating: evaluation of the resisting peak ground acceleration, Journal of Measurements in Engineering, 6(4), 181-189, 2018.
5. GATTESCO N., BOEM I., Numerical study on the reduction of the seismic vulnerability of historical industrial buildings with wide timber roofs, Procedia Structural Integrity, 11, 298-305, 2018.
6. DE FELICE, G., AIELLO M.A., CAGGEGI C., CERONI F., DE SANTIS S., GARBIN E., GATTESCO N., HOJDYS Ł., KRAJEWSKI P., KWIECIEŃ A., LEONE M., LIGNOLA G., MAZZOTTI C., OLIVEIRA D., PAPANICOLAOU C., POGGI C., TRIANTAFILLOU T., VALLUZZI M., VISKOVIC A., Recommendation of RILEM Technical Committee 250-CSM: Test method for Textile Reinforced Mortar to substrate bond characterization, Materials and Structures, 51(4), 1-9, 2018.
7. GATTESCO N., BOEM I., ANDRETTA V., Experimental behavior of non-structural masonry vaults reinforced through fiber-reinforced mortar coating and subjected to cyclic horizontal loads, Engineering Structures, 172, 419-431, 2018.
8. GATTESCO N., BOEM I., Out-of-plane behavior of reinforced masonry walls: Experimental and numerical study, Composites Part B: Engineering, 128, 39-52, 2017.
9. LEONE M., AIELLO M.A., BALSAMO A., CAROZZI F.G., CERONI F., CORRADI M., GAMS M., GARBIN E., GATTESCO N., KRAJEWSKI P., MAZZOTTI C., OLIVEIRA D., PAPANICOLAU C., RANOCCHIAI G., ROSCINI F., SAENGER D., Glass fabric reinforced cementitious matrix: Tensile properties and bond performance on masonry substrate, Composites Part B: Engineering, Elsevier, 127, 196-214, oct. 2017.
10. GATTESCO N., GUBANA A., BUTTAZZI M., MELOTTO M., Experimental investigation on the behavior of glued-in rod joints in timber beams subjected to monotonic and cyclic loading, Engineering Structures, Elsevier, 147, 372-384, Sept. 2017.
11. GATTESCO N., BOEM I., Characterization tests of GFRM coating as a strengthening technique for masonry buildings, Composite Structures, Elsevier, 165, 209-222 2017.
12. MACORINI L., XAVIER F., IZZUDDIN B., CHISARI C., GATTESCO N., NOE' S., AMADIO C., Pushdown tests on masonry infilled frames for assessment of building robustness, Journal of Structural Engineering, ASCE, 143 (9), Sept. 2017.
13. GATTESCO N., BOEM I., Assessment of the seismic capacity increase of masonry buildings strengthened through the application of GFRM coatings on the walls, International Journal of Masonry Research and Innovation, Vol. 2, No. 4, 2017, pp. 300-320.
14. GATTESCO N., BOEM I., "Stress distribution among sheathing-to-frame nails of timber shear walls related to different base connections: experimental tests and numerical modelling.", Construction and Building Materials, Vol. 122, 2016, pp. 149-162.
15. RINALDIN G., AMADIO C., GATTESCO N., "Review of experimental cyclic tests on unreinforced and strengthened masonry spandrels and numerical modelling of their cyclic behavior", Engineering Structures, 2017, 132, 609-623.
16. GRIMAZ S., SLEJKO D., CUCCHI F., BARAZZA F., BIOLCHI S., DEL PIN E., FRANCESCHINIS R., GARCIA J., GATTESCO N., MALISAN P., MORETTI A., PIPAN M., PRIZZON S., REBEZ A., SANTULIN M., ZINI L., ZORZINI F., The ASSESS project: assessment for seimic risk reduction of school buildings in the Friuli Venezia Giulia Region (NE Italy), Bollettino di Geofisica Teorica ed Applicata, Vol. 57, n. 2, 111-128, 2016.
17. GATTESCO N., MACORINI L., DUDINE A., "Experimental Response of Brick-Masonry Spandrels under in-Plane Cyclic Loading", Journal of Structural Engineering, Vol. 142, n. 2, 2016.
18. GATTESCO N., BOEM I., "Seismic Performances and Behavior Factor of Post-and-Beam Timber Buildings Braced with Nailed Shear Walls", Engineering Structures, Vol. 100, ott. 2015, pp. 674-685.
19. GATTESCO N., BOEM I., "Experimental and Analytical Study to Evaluate the Effectiveness of an In-Plane Reinforcement for Masonry Walls Using GFRP Meshes", Construction and Building Materials, Vol. 88, lug. 2015, pp. 94-104.
20. GATTESCO N., AMADIO C., BEDON C., "Experimental and numerical study on the shear behavior of stone masonry walls strengthened with GFRP reinforced mortar coating and steel-cord reinforced repointing", Engineering Structures, Vol. 90, No. 5, 2015, pp. 143-157.
21. GATTESCO N., MACORINI L., "In-plane stiffening techniques with nail plates or CFRP strips for timber floors in historical masonry buildings", Construction and Building Materials, Vol. 58, 2014, pp. 64-76.

22. GATTESCO N., BOEM I., DUDINE A., “Diagonal compression tests on masonry walls strengthened with a GFRP mesh reinforced mortar coating”, Bulletin of Earthquake Engineering, Springer Netherlands, 13 (6), pp. 1703-1726.
23. GATTESCO N., MACORINI L., FRAGIACOMO M., “Moment Redistribution in Continuous Steel-Concrete Composite Beams with Compact Cross Section”, Journal of Structural Engineering, ASCE, Vol. 136, No. 2, Feb. 2010, pp. 193-202.
24. GATTESCO N., “Experimental study on the structural efficiency of L-shaped p.c. beams in multi-storey prefabricated buildings”, European Journal of Environmental and Civil Engineering, Vol. 13/6, 707-726, June 2009, Cachan Cedex, France.
25. GATTESCO N., TOFFOLO I., “Experimental Study on Multiple-Bolt Tension Joints”, Materials and Structures, RILEM, Vol. 37, n. 266, 2004, pp. 129-138.
26. GATTESCO N., BERNARDI D., "Influence of Reinforcement Stresses on the Durability of HPC Members Subjected to Marine Environments", Journal iiC – L’Industria Italiana del Cemento, n. 788, Jun. 2003, pp. 512-521.
27. GATTESCO N., "Analytical Modeling of the Nonlinear Behavior of Composite Beams with Deformable Connection", Journal of Constructional Steel Research, Vol. 52, No. 2, Nov. 1999, pp. 195-218.
28. GATTESCO N., "Strength and Local Deformability of the Wood beneath Bolted Connectors", Journal of Structural Engineering, ASCE, Vol. 124, No. 2, Feb. 1998, pp. 195-202.
29. FELICETTI R., GATTESCO N., GIURIANI E., "Local Phenomena around a Steel Dowel Embedded in a Stone Masonry Wall", Materials and Structures, RILEM, Vol. 30, May 1997, pp. 238-246.
30. GATTESCO N., GIURIANI E., GUBANA A., "Low-cycle Fatigue Tests on Stud Shear Connectors", Journal of Structural Engineering, ASCE, Vol. 123, No. 2, Feb. 1997, pp. 145-150.
31. GATTESCO N., GIURIANI E., "Experimental Study on Stud Shear Connection Subjected to Cyclic Loading", Journal of Constructional Steel Research, Vol. 38, No. 1, May 1996, pp. 1-21.
32. FELICETTI R., GATTESCO N., "A Penetration Test to Study the Mechanical Response of Mortar in Ancient Masonry Buildings", Materials and Structures, RILEM, Vol. 31, Jan. 1996, pp. 350-356.
33. GIURIANI E., GATTESCO N., DEL PICCOLO M., "Experimental Tests on the Shear Behavior of Dowels connecting Concrete Slabs to Stone Masonry Walls", Materials and Structures, RILEM, Vol. 26, 1993, pp. 293-301.

PAPERS ON INTERNATIONAL JOURNALS WITH “PEER REVIEW”:

1. GATTESCO N., BOEM I., “Seismic enhancement of masonry buildings strengthened through GFRP reinforced mortar coating”, Applied Mechanics and Materials, Vol. 796 (2015), pp. 53-67.
2. GATTESCO N., MACORINI L., “Structural performance of old composite floors made up of wrought iron joist and masonry vaults”, Applied Mechanics and Materials, Vol. 796 (2015), pp. 13-24.
3. GATTESCO N., BOEM I., “Seismic behavior of post-and-beam timber buildings braced by timber shear walls”, International Journal of Building Sustainability and Secure, Vol. 1, No. 2, Giu. 2014, pp. 127-139.
4. RINALDIN G., AMADIO C., GATTESCO N., “A tool for nonlinear dynamic investigation of URM structures”, International Journal of Building Sustainability and Secure, Vol. 1, No. 2, Giu. 2014, pp. 75-88.
5. GATTESCO N., FRANCESCHINIS R., ZORZINI F., “Numerical procedure for the assessment of seismic vulnerability of masonry buildings”, International Journal of Building Sustainability and Secure, Vol. 1, No. 1, Mar. 2014, pp. 35-53.
6. GATTESCO N., DEL PICCOLO M., "Shear Transfer between Concrete Members and Stone Masonry Walls Through Driven Dowels", European Earthquake Engineering, No. 3, 1997, pp. 3-17.
7. GATTESCO N., TONIOLO G., "Instabilita' di telai multipiano in cemento armato", L'Industria Italiana del Cemento, n. 615, Ott. 1987, pp. 662-666.
8. GATTESCO N., TOGNON G., TONIOLO G., "Criteri di impiego di travi in c.a. e c.a.p. confezionato con calcestruzzi ad altissima resistenza”, L'Industria Italiana del Cemento, n. 4, Apr. 1984, pp. 254-261.

PAPERS ON ITALIAN JOURNALS OR SCIENTIFIC SERIES

1. GATTESCO N., BOEM I., “Analisi diagnostica e valutazione delle criticità strutturali di edifici monumentali soggetti a sisma”, Ingenio, 30 Settembre 2019.
2. GATTESCO N., BOEM I., “Modellazione di edifici in legno a telaio pesante controventati con pareti intelaiate: un metodo semplificato”, Ingenio, 26 Luglio 2019.
3. GATTESCO N., BOEM I., “Valutazione dell'accelerazione resistente di volte in muratura rinforzate mediante intonaco armato con reti in composito”, STRUCTURAL, Vol. 219 (24), 2018.
4. GATTESCO N., BOEM I., “Rinforzo di volte in muratura. Uno studio sperimentale per la valutazione dell’efficacia di un rinforzo mediante intonaco armato con rete in GFRP”, Ingenio, Vol. 55, Luglio 2017.
5. GATTESCO N., AMADIO C., BARELLI S., BEDON C., RINALDIN G., ZORZINI F., “Studio numerico-sperimentale di pareti murarie in pietrame rinforzate mediante intonaco armato con rete in GFRP”, Ingenio, Vol. 16, 2013, pp. 1-11.
6. BORRI A., SISTI R., GATTESCO N., BOEM I., DUDINE A., “Sperimentazione su murature faccia a vista rinforzate con reticolo di trefoli metallici inseriti nei giunti e intonaco con rete in GFRP”, STRUCTURAL, Vol. 182, 2013, pp. 1-23.
7. GATTESCO N., BOEM I., DUDINE A., “Impiego di reti in GFRP per il rinforzo di murature esistenti”, STRUCTURAL, Vol. 181, 2013, pp. 1-17.

8. SLEJKO D., GRIMAZ S., CUCCHI F., BARAZZA F., BIOLCHI S., DEL PIN E., FRANCESCHINIS R., GARCIA J., GATTESCO N., MALISAN P., MORETTI A., PIPAN M., PRIZZON S., REBEZ A., SANTULIN M., ZINI L., ZORZINI F., "Il Progetto ASSESS (Analisi degli scenari sismici degli edifici scolastici per la definizione delle priorità di intervento per la riduzione del rischio sismico): un esempio di stima del rischio per edifici strategici e rilevanti esportabile ad altre realtà nazionali", Geoitalia, Vol. 39, 2012, pp. 27-35.
9. GATTESCO N., DUDINE A., "Il rinforzo di murature esistenti con intonaco e rete in GFRP", Structural, Vol. 164/2010, pp. 50-61.
10. GATTESCO N., BERNARDI D., "Attacco da Cloruri in Elementi di Calcestruzzo ad Alte Prestazioni: Influenza della Tensione nelle Armature", BUILDUP Portal (www.buildup.it), Dec. 2003.
11. GATTESCO N., "Volte in legno lamellare a nervature incrociate: studio del comportamento dei giunti di continuità ", BUILDUP Portal (www.buildup.it), Sett. 2001.
12. GATTESCO N., "Long Span Steel and Concrete Composite Beams with Partial Shear Connection", Studi e Ricerche, Corso di Perfezionamento sulle Costruzioni in Cemento Armato F.lli Pesenti, Politecnico di Milano, vol. 12, 1992.
13. GATTESCO N., COHN M.Z., "Computer-Simulated Tests on Moment Redistribution - Part II: Serviceability Limit State Considerations", Studi e Ricerche, Corso di Perfezionamento per le Costruzioni in Cemento Armato F.lli Pesenti, Politecnico di Milano, vol. 11, 1989.
14. GATTESCO N., COHN M.Z., "Computer-Simulated Tests on Moment Redistribution - Part I: Ultimate Limit State Considerations", Studi e Ricerche, Corso di Perfezionamento per le Costruzioni in Cemento Armato F.lli Pesenti, Politecnico di Milano, vol. 11, 1989.
15. GATTESCO N., GIURIANI E., "Studio sperimentale sul comportamento di travi miste in acciaio e calcestruzzo sotto carichi ripetuti", Studi e Ricerche, Corso di Perfezionamento sulle Costruzioni in Cemento Armato F.lli Pesenti, Politecnico di Milano, vol. 10, 1988.

BOOKS

1. CALDERONI B., BEDON C., BRUNETTI M., CERALDI C., FAGGIANO B., FERRACUTI B., FRAGIACOMO M., FOLLESA M., GATTESCO N., GIUBILEO C., GUBANA A., LAURIOLA M.P., MARTINELLI E., METELLI G., PIAZZA M., PIZZO B., PAMPANIN S., PODESTÀ S., SANDOLI A., ZANON P., "CNR-DT 206 R1/2018 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo delle Strutture di Legno", Consiglio Nazionale delle Ricerche, 2018.
2. FRAZIANO G., PRATALI MAFFEI S., SDEGNO A., GATTESCO N., "Rifunzionalizzazione e restauro dell'ex villa Sevastopulo – Castelletto. Linee guida", Università degli Studi di Trieste, 2014.
3. GATTESCO N., "New Materials for the Rehabilitation of Cultural Heritage", Ceske Vysoke Uceny Technicke v Praze, No. 6, 2011.
4. GATTESCO N., "Analysis of Composite Bridges", Ceske Vysoke Uceny Technicke v Praze, No. 5, 2011.
5. GATTESCO N., "Advances in the research on the seismic behavior of historical structures", Habilitation Thesis, Faculty of Civil Engineering, Czech Technical University in Prague, Prague, Nov. 2010.
6. DEZI L., GATTESCO N., (editors) "Strutture composte. Nuove costruzioni, recupero, ponti.", International Center for Mechanical Sciences Monographs, Udine, (2006).

BOOK CHAPTERS

1. GATTESCO N., "Amideria Chiozza: Riabilitazione strutturale", Volume: Studi e progetti per l'amideria Chiozza a Ruda (UD), editors R. Caltabiano, A. Marin, S. Pratali Maffei, RES edizioni di Roberta Riva, Gorizia, 2017.
2. GATTESCO N., "Tematiche e soluzioni tecniche per il recupero delle strutture nelle costruzioni esistenti", Volume "Restauro, Recupero, Riqualificazione: il progetto contemporaneo nel contesto storico", editor M. Balzani, Skira Ginevra, Milano, ISBN 978-88-57212-13-5, 2011, pp. 111-118.
3. GATTESCO N., "Experimental study on the structural efficiency of L-shaped p.c. beams in multistory precast buildings", Volume "Advances in Reinforced Concrete and Precast Constructions", editor M. Di Prisco, Starrylink Editrice, ISBN 978-88-96225-29-5, (2009), pp. 211-220.
4. GATTESCO N, MACORINI L., BENUSSI F., "Tecniche per il consolidamento dei solai lignei degli edifici storici caratterizzate da buona reversibilità", Volume "Consolidamento delle strutture in legno", editor M. PIAZZA, Hevelius Edizioni, ISBN 978-88-86977-64-7, (2009), pp. 185-220.
5. GATTESCO N., RUCCI F., "La verifica a fatica negli impalcati da ponte a sezione composta di acciaio e calcestruzzo", Book "Strutture Composte. Nuove Costruzioni, Recupero, Ponti." editors Proff. N. Gattesco e L. Dezi, International Center for Mechanical Sciences Monographs, Udine, (2006), ISBN 88-85137-20-2 CISM, pp. 209-240.
6. GATTESCO N., "Progettazione strutturale delle opere in calcestruzzo armato per il trattamento delle acque reflue", Volume "Upgrade e Collaudo di Opere per il Trattamento delle Acque Reflue: Problemi Connessi e Indirizzi di Soluzione.", editors Proff. D. Goi, F. Conti, G. Urbini, International Center for Mechanical Sciences Monographs, Udine, (2005), ISBN 88-85137-18-0 CISM, pp. 175-202.

7. GATTESCO N., “Impiego Strutturale del Legno”, Volume “Per una Progettazione Sostenibile.”, editor Prof. I. Garofolo, Edizioni Edicom, Monfalcone, Gorizia, 2004, ISBN 88-86729-52-9, pp. 165-176.
8. GATTESCO N., “Il legno come materia le da costruzione: caratteristiche e problematiche del suo impiego”, Volume “Per una Progettazione Sostenibile.”, editor Prof. I. Garofolo, Edizioni Edicom, Monfalcone, Gorizia, 2004, ISBN 88-86729-52-9, pp. 151-161.
9. GATTESCO N., “Analisi Limite di Strutture Intelaiate in Cemento Armato”, Volume “Analisi Limite e non Lineare di Strutture in Calcestruzzo Armato, Tecniche di Calcolo Manuale ed Automatico.” editor Prof. P.G. Malerba, International Center for Mechanical Sciences Monographs, Collana di Ingegneria Strutturale CISM n. 10, Udine, 1997, ISBN 88-85137-11-3 CISM, pp. 153-196.
10. GATTESCO N., “Problemi di instabilità nei pilastri di telai pluripiano”, Volume “Il Calcolo Automatico delle Strutture in Cemento Armato.” editor Prof. G. Del Piero, International Center for Mechanical Sciences Monographs, Collana di Ingegneria Strutturale n. 4, Udine, 1986, pp. 151-172.
11. GATTESCO N., “Influenza della viscosità sull’instabilità di elementi snelli in c.a.”, Volume “Il Calcolo Automatico delle Strutture in Cemento Armato.” editor Prof. G. Del Piero, International Center for Mechanical Sciences Monographs, Collana di Ingegneria Strutturale n. 4, Udine, 1986, pp. 139-149.

PAPERS PRESENTED AT INTERNATIONAL SCIENTIFIC CONFERENCES

1. GATTESCO N, BOEM I., “Interaction of multi-sloping timber roofs braced through sheathing panels with masonry walls in historical industrial buildings subjected to lateral loads”, 5th International Conference on Structural Health Assessment of Timber Structures, SHATIS 2019, 25-27 Sept. 2019, Guimaraes, Portugal.
2. GATTESCO N., BOEM I., “Numerical study on the out-of-plane performances of solid and perforated masonry walls strengthened with composite reinforced mortar”, The Sixteenth International Conference on Civil, Structural and Environmental Engineering Computing, CIVIL-COMP 2019, 16-19 Sept. 2019, Riva del Garda, Italy.
3. GATTESCO N., BOEM I., “Masonry vaults strengthened with a GFRP reinforced mortar coating: evaluation of the resisting peak ground acceleration”, XV International Symposium on Human-Induced Vibrations and Seismic Influences on Structures, 29-30 Nov. 2018, Krakow, Poland.
4. GATTESCO N., BOEM I., “Numerical study on the reduction of the seismic vulnerability of historical industrial buildings with wide timber roofs”, XIV International Conference on Building Pathology and Constructions Repair CINPAR 2018, 20 June 2018, Firenze. Pubblicato su Procedia Structural Integrity, Vol. 11, pp. 298-305.
5. GATTESCO N., BOEM I., “Parametric study on the seismic behavior of masonry vaults strengthened with composite reinforced mortar.”, 10th International Masonry Conference Proceedings, 2217-2230, 9-11 luglio 2018.
6. GATTESCO N., BOEM I., “Masonry vaults subjected to horizontal loads: Experimental and numerical investigations to evaluate the effectiveness of a GFRM reinforcement”, WMCAUS 2017, Prague 12-16 Giugno 2017. Pubblicato su IOP Conf. Series: Materials Science and Engineering, Vol. 245, pp. 1-11, 2017.
7. GATTESCO N., BOEM I., “Pushover analysis based on equivalent diagonal springs for the assessment of the seismic safety of post-and-beam timber buildings braced with nailed shear walls, Int. Conf. on Structural and Mechanical Engineering for Security and Prevention, ICSMESP, Prague 14-16 Giugno 2017. Pubblicato su Key Engineering Materials, Vol. 755, pp. 170-180, 2017.
8. GATTESCO N., BOEM I., GUBANA A., MENEGON D., BELLO N., DUDINE A., “Experimental behavior of masonry vaults strengthened with thin extradoxal or intradoxal layer of fiber reinforced lime mortar”, MURICO5, Bologna 28-30 Giugno 2017. Pubblicato su Key Engineering Materials, Vol. 747, pp. 274-281, 2017.
9. GATTESCO N., BOEM I., “Comparison of in-plane mechanical performances of masonry walls strengthened with different mortar coatings reinforced with glass or carbon fiber composite meshes“, MURICO5, Bologna 28-30 Giugno 2017. Pubblicato su Key Engineering Materials, Vol. 747, pp. 289-297, 2017.
10. GATTESCO N., GUBANA A., MELOTTO M., “Numerical Evaluation of Mechanical Parameters Role in GRFP Strengthened Cobblestone Masonry Walls”, MURICO5, Bologna 28-30 Giugno 2017. Pubblicato su Key Engineering Materials, Vol. 747, pp. 504-511, 2017.
11. GATTESCO N., BOEM I., “Strengthening of masonry vaults through a thin extradoxal layer of fiber reinforced lime mortar”, 10th International Conference on Structural Analysis of Historical Constructions, SAHC 2016, 13-15 Sept. 2016, Leuven, Belgium.
12. GATTESCO N., GUBANA A., MELOTTO M., “GFRP to strengthen masonry walls: numerical analysis and evaluation of the different mechanical parameter role”, 10th International Conference on Structural Analysis of Historical Constructions, SAHC 2016, 13-15 Sept. 2016, Leuven, Belgium.
13. GATTESCO N., BOEM I., “A strengthening technique for existing masonry based on FRP mesh reinforced mortar coating. Influence of the strength of the mortar”, 6th Science-Industry Roundtable on the use of lime mortars, EULA, 30 June 2016, Padova, Italy.
14. GATTESCO N., BOEM I., “Influence of mortar coating type on the shear resistance of a GFRP based strengthening technique for brick masonry walls”, 16th International Brick and Block Masonry Conference, IB2MAC, 26-30 June 2016, Padova, Italy.

15. GATTESCO N., BOEM I., "A numerical study on multiple bolted connections through glass pultruded members", Proc. Of the 15th International Conference on Civil, Structural and Environmental Engineering Computing, CC2015, Paper 194, 1-4 Sept. 2015, Prague, Czech Republic.
16. GATTESCO N., BOEM I., "Numerical simulation of the out-of-plane performance of masonry walls strengthened with a GFRP reinforced mortar", Proc. Of the 15th International Conference on Civil, Structural and Environmental Engineering Computing, CC2015, Paper 78, 1-4 Sept. 2015, Prague, Czech Republic.
17. GATTESCO N., BOEM I., "Out-of-plane behaviour of masonry walls strengthened with a GFRP reinforced mortar coating", Proc. of the 9th International Masonry Conference 2014, 7-9 lug. 2014, Guimaraes, Portugal.
18. RINALDIN G., AMADIO C., GATTESCO N., "Experimental and numerical characterization of the cyclic behaviour of unreinforced and reinforced masonry spandrels", Proc. of the 9th International Masonry Conference 2014, 7-9 lug. 2014, Guimaraes, Portugal.
19. SDEGNO A., FRAZIANO G., GATTESCO N., PAVONI G., JEZ M., "Acquiring, Modeling and Testing Freeform Sculptures. A Sculpture by Simon Benetton at the Campus of the University of Trieste", Proceedings of the 2013 Digital Heritage International Congress, 28 oct.-1 nov. 2013, Marseille, France, pp. 383-386.
20. GATTESCO N., BOEM I., DUDINE A., "Behaviour of Existing Masonry Strengthened with a GFRP Reinforced Mortar Coating", Proc. XIV International Conference on Civil, Structural and Environmental Engineering Computing, 3-6 Sept. 2013, Cagliari, Italy.
21. SLEJKO, D.; GRIMAZ, S.; CUCCHI, F.; BARAZZA, F.; BIOLCHI, S.; DEL PIN, E.; FRANCESCHINIS, R.; GARCIA, J.; GATTESCO, N.; MALISAN, P.; MORETTI, A.; PIPAN, M.; PRIZZON, S.; REBEZ, A.; SANTULIN, M.; ZINI, L.; ZORZINI, F., "Seismic risk of schools at a regional scale: the ASSESS project", Atti IV Conferencia Internacional 'Peligrosidad, riesgo geológico e ingeniería sísmica y de desastres', 08-12 May. 2012, Santiago de Cuba.
22. SLEJKO, D.; GRIMAZ, S.; CUCCHI, F.; BARAZZA, F.; BIOLCHI, S.; DEL PIN, E.; FRANCESCHINIS, R.; GARCIA, J.; GATTESCO, N.; MALISAN, P.; MORETTI, A.; PIPAN, M.; PRIZZON, S.; REBEZ, A.; SANTULIN, M.; ZINI, L.; ZORZINI, F., "ASSESS to reduce the risk of school buildings at regional level", Acts of 33rd General Assembly of European Seismological Commission, 19-24 Aug. 2012, Moscow, Russia.
23. AMADIO C., GATTESCO N., DUDINE A., FRANCESCHINIS R., RINALDIN G., "Structural performance of spandrels in stone masonry buildings", Proc. of the 15th World Conference on Earthquake Engineering WCEE, 24-28 Sept. 2012, Lisboa, Portugal.
24. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Analytical simplified procedure for the evaluation of the RC buildings", Proc. of the 15th World Conference on Earthquake Engineering WCEE, 24-28 Sept. 2012, Lisboa, Portugal.
25. GATTESCO N., FRANCESCHINIS R., "Numerical simulation of the seismic response of timber frame multi-storey buildings", Proc. of the World Conference on Timber Engineering WCTE, 15-19 Jul. 2012, Auckland, N.Z, pp. 386-395.
26. GATTESCO N., FRANCESCHINIS R., KRISTEK V., KRAVTSOV A., RIMAL J., "Strengthening Effectiveness of Ancient Masonry Bridges", Proc. 6th Int. Conference on Bridge Maintenance, Safety, Management, Resilience and Sustainability, 8-12 Jul. 2012, Stresa, Italy, pp. 1055-1062. CRC Press – Taylor and Francis Group, Boca Raton, FL., USA.
27. GATTESCO N., DUDINE A., FRANCESCHINIS R., "Experimental investigation on the seismic behavior of timber shear walls with particle boards", Proc. of the World Conference on Timber Engineering WCTE, 15-19 Jul. 2012, Auckland, N.Z, pp. 310-318.
28. FRANCESCHINIS R., GATTESCO N., ZORZINI F., "A Strategy for the seismic vulnerability assess of heritage architecture", Proc. of the 15th World Conference on Earthquake Engineering WCEE, 24-28 Sept. 2012, Lisboa, Portugal.
29. FRANCESCHINIS R., GATTESCO N., ZORZINI F., "Assessment of the seismic capacity of existing masonry buildings", Proc. 2nd WTA-International Ph.D. Symposium, 6-7 oct. 2011, Brno, Czech Republic, pp. 224-233.
30. GATTESCO N., DUDINE A., "A GFRP mesh strengthening technique applied to ancient masonry walls", Proc. 5th International Conference on Advanced Composites in Construction 2011 - ACIC 2011, 06-08 Sept. 2011, Coventry, U.K.
31. GATTESCO N., GUBANA A., BUTTAZZI M., "Cyclic behavior of glued-in joints under bending moments", Proc. World Conference on Timber Engineering, WCTE 2010, 20-24 June 2010, Riva del Garda, Italy.
32. GATTESCO N., GUBANA A., BUTTAZZI M., "Pull-out strength of bar glued-in joints", Proc. World Conference on Timber Engineering, WCTE 2010, 20-24 June 2010, Riva del Garda, Italy.
33. GATTESCO N., MACORINI L., CLEMENTE I., NOE' S., "Shear resistance of spandrels in brick-masonry buildings", Proc. 8th Int. Masonry Conference, 04-07 July 2010, Dresden, Germany.
34. GATTESCO N., DUDINE A., "Effectiveness of masonry strengthening technique made with a GFRP-mesh-reinforced mortar coating", Proc. 8th Int. Masonry Conference, 04-07 July 2010, Dresden, Germany.
35. GATTESCO N., "Seismic Performance of Ancient Masonry Buildings", 2nd International Workshop on Urban Gaming Simulation Design on Disaster Mitigation for Urban Cultural Heritage, 23-31 August 2009.
36. GATTESCO N., MACORINI L., "Novel Engineering Techniques to Improve the In-plane Stiffness of Wooden Floors", Proc. Int. Conf. on Protection of Historical Buildings, Prohitech 09, 21-24 June 2009, Rome, Italy. Protection of Historical Buildings – Prohitech 09, Vol. 1 and 2, 307-312, 2009, CRC Press – Taylor and Francis Group, Boca Raton, FL, USA.
37. GATTESCO N., "Experimental study on the structural efficiency of L-shaped p.c. beams in multi-storey precast buildings", in Advances in Reinforced Concrete and Precast Constructions, edited by M. Di Prisco, Starrylink Editrice, Milano, 2009, pp. 211-220.

38. GATTESCO N., NOE' S., MACORINI L., CLEMENTE I., "Experimental investigation on the behavior of spandrels in ancient masonry buildings", World Conference on Earthquake Engineering, China, 2008.
39. GATTESCO N., MACORINI L., "High reversibility technique for in-plane stiffening of wooden floors", VI Int. Conf. on Structural Analysis of Historical Constructions SACH 2008, Bath, United Kingdom. Structural Analysis of Historic Construction: Preserving Safety and Significance, Vols. 1 e 2, 1035-1042, 2008, CRC Press Taylor and Francis Group, Boca Raton, USA.
40. GATTESCO N., MACORINI L., FRAGIACOMO M., "Permissible Moment Redistribution In Steel And Concrete Composite Beams", 4th Specialty Conference on "The Conceptual Approach to Structural Design", Venice, 27-29 June 2007.
41. GATTESCO N., BELTRAME E., "Structural and Technological Conception of a Steel Cable-Stayed Footbridge", 4th Specialty Conference on "The Conceptual Approach to Structural Design", Venice, 27-29 June 2007.
42. GATTESCO N., MACORINI L., "Strengthening and stiffening ancient wooden floors with flat steel profiles", Structural Analysis of Historical Constructions (edited by P.B. Lourenco, P. Roca, C. Modena, S. Agrawal), MacMamillan India Ltd., ISBN 10: 1403-93155-0, New Delhi, India, 2006, pp. 405-412.
43. GATTESCO N., URBAN F., "Mechanical coupling system for timber joints made with glued-in bars", 9th World Conference on Timber Engineering, WCTE 2006, August 6-10, 2006, Portland, Oregon, USA.
44. GATTESCO N., GUBANA A., "Performance of glued-in joints of timber members", 9th World Conference on Timber Engineering, WCTE 2006, August 6-10, 2006, Portland, Oregon, USA.
45. GATTESCO N., PITACCO I., "Analysis of the Cyclic Behavior of Shear Connections in Steel-Concrete Composite Bridge Beams due to Moving Loads", Proc. Of the 2nd International Conference on Steel and Composite Structures, ICSCS'04, 2-4 Sept. 2004, Seoul, Korea.
46. GATTESCO N., PITACCO I., TRACANELLI A., "Numerical Simulation of Steel and Concrete Composite Beams Subjected to Moving Loads", Proc. of the 2nd International Structural Engineering and Construction Conference, 23-26 Sept. 2003, Rome, Italy. System-Based Vision For Strategic And Creative Design, Vols 1-3, 1043-1049, 2003, Balkema Publishers, Leiden, Netherlands. ISBN 90 5809 599 1.
47. GATTESCO N., GASPAROTTO S., "Moment Redistribution in Steel-Concrete Composite Beams", Proc. of the 2nd Specialty Conference on "The Conceptual Approach to Structural Design", 01-02 July 2003, Milan, Italy.
48. GATTESCO N., BERNARDI D., "Reinforcement Steel Limits to Prevent Steel Corrosion in HPC members due to Chloride Penetration", Proc. of the International Congress: Challenges of Concrete Construction, 5-11 Sept. 2002, Dundee, Scotland.
49. GATTESCO N., BERNARDI D., "Influence of Concrete Durability on Moment Redistribution in HPC Structures", Proc. of the 6th International Symposium on Utilization of High Strength/High Performance Concrete, 16-20 June 2002, Leipzig, Germany.
50. GATTESCO N., GUBANA A., "Experimental Tests on Glued Joints under Axial Forces and Bending Moments", Proc. of the Symposium on Joints in Timber Structures, 12-14 Sept. 2001, Stuttgart, Germany.
51. GATTESCO N., GIURIANI E., "A Test Proposal for Fatigue Experimental Studies on Stud Shear Connectors", Proc. of the Symposium on Connections between Steel and Concrete, 9-12 Sept. 2001, Stuttgart, Germany.
52. GATTESCO N., "Experimental Study on Different Dowel Techniques for Shear Transfer in Wood-Concrete Composite Beams", Proceedings ISEC-01, First International Structural Engineering and Construction Conference, Honolulu, Hawaii, Jan. 24-26, 2001.
53. GATTESCO N., "Influence of Transversal Section Shape on the Rotation Capacity of HPC Members", PCI/FHWA/FIB Symposium on High Performance Concrete, 25-27 Sept. 2000, Orlando, USA.
54. GATTESCO N., "Rotation Capacity of HPC Members", FIB Symposium, 12-15 Oct. 1999, Prague, Czech Republic.
55. GATTESCO N., SIGNORATO A., "Effectiveness of Bolts in Multiple Connections", RILEM Symposium on Timber Engineering, 13-15 Sept. 1999, Stockholm, Sweden.
56. GATTESCO N., "Fatigue in Stud Shear Connectors", Composite Construction – Conventional and Innovative, Conference Report, Innsbruck, Austria, Sept. 16-18, 1997, pp. 139-144.
57. BIOLZI L., GATTESCO N., "Mechanical Behavior of Dowels Embedded in Concrete", ASCE Structures Congress XII, Atlanta, Georgia, USA, April 24-28, 1994, pp. 630-635.
58. GATTESCO N., " Long Span Steel and Concrete Composite Beams with Partial Shear Connection", International Workshop on Advances in Structural Mechanics: Problems and Ideas, Brescia, 26-27 sep. 1991.

PAPERS PRESENTED AT ITALIAN SCIENTIFIC CONFERNCES

1. GATTESCO N., BOEM I., "Classificazione degli edifici scolastici in muratura in Friuli-Venezia Giulia, finalizzata alla costruzione di modelli di rischio", XVIII convegno ANIDIS – L'ingegneria Sismica in Italia, 15-19 Set. 2019, Ascoli Piceno, Italy.
2. GATTESCO N., BOEM I., "Strategie di rapido intervento per la riduzione della vulnerabilità sismica di strutture a torre in muratura: I casi studio di un campanile e di una ciminiera", XVIII convegno ANIDIS – L'ingegneria Sismica in Italia, 15-19 Set. 2019, Ascoli Piceno, Italy.

3. CALDERONI B., BEDON C., CERALDI C., FAGGIANO B., FOLLESA M., FRAGIACOMO M., GATTESCO N., GIUBILEO C., GUBANA A., IOVANE G., LAURIOLA M.P.. MARTINELLI E., PIZZO B., PODESTA' S., SANDOLI A., "The instructions for the design, execution and control of timber construction (CNR-DT 206 R1/2018), XVIII convegno ANIDIS – L'ingegneria Sismica in Italia, 15-19 Set. 2019, Ascoli Piceno, Italy.
4. GATTESCO N., BOEM I., "Strategie di intervento e metodi di modellazione per la riduzione della vulnerabilità sismica DI Coperture lignee tradizionali a falde inclinate", XVII convegno ANIDIS - L'ingegneria Sismica in Italia, 18-21 Set. 2017, Pistoia, Italy.
5. GATTESCO N., BOEM I., GRATTON L., "Analisi diagnostica e valutazione delle criticità strutturali di edifici monumentali soggetti ad eccitazione sismica", XVII convegno ANIDIS - L'ingegneria Sismica in Italia, 18-21 Set. 2017, Pistoia, Italy.
6. GATTESCO N., BOEM I., "Valutazione della sicurezza sismica di edifici in legno a pareti intelaiate: analisi pushover basate su molle diagonali equivalenti", XVII convegno ANIDIS - L'ingegneria Sismica in Italia, 18-21 Set. 2017, Pistoia, Italy.
7. GATTESCO N., BOEM I., "Studio sperimentale e numerico sul comportamento di volte in muratura soggette a carichi orizzontali: valutazione dell'efficacia di un rinforzo con intonaco armato mediante rete in GFRP", XVII convegno ANIDIS - L'ingegneria Sismica in Italia, 18-21 Set. 2017, Pistoia, Italy.
8. GATTESCO N., BOEM I., "Studio numerico sulla resistenza a flessione fuori piano di murature rinforzate mediante intonaco armato con rete in GFRP", XVI convegno ANIDIS - L'ingegneria Sismica in Italia, 13-17 Set. 2015, L'Aquila, Italy.
9. GATTESCO N., BOEM I., DUDINE A., "Seismic performance of existing masonry buildings strengthened by applying GFRP fiber reinforced lime mortar on both faces of the walls", XVI convegno ANIDIS - L'ingegneria Sismica in Italia, 13-17 Set. 2015, L'Aquila, Italy.
10. GATTESCO N., BOEM I., GRATTON L., "Analysis of the behavior of nailed timber frame shear walls through experimental tests and numerical simulations", XVI convegno ANIDIS - L'ingegneria Sismica in Italia, 13-17 Set. 2015, L'Aquila, Italy.
11. BORRI A., SISTI R., GATTESCO N., DUDINE A., "Indagini sperimentali su sistemi di rinforzo di murature con intonaco, rete in GFRP e trefoli metallici inseriti nei giunti di malta", XV convegno ANIDIS - L'Ingegneria Sismica in Italia, 30 giu.-4 lug. 2013, Padova, Italy.
12. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Stima della vulnerabilità sismica delle strutture in c.a. mediante procedura semplificata", XV convegno ANIDIS - L'Ingegneria Sismica in Italia, 30 giu.-4 lug. 2013, Padova, Italy.
13. GATTESCO N., AMADIO C., BARELLI S., BEDON C., RINALDIN G., ZORZINI F., "Cyclic analysis of stone masonry wall strengthened with a GFRP grid-reinforced mortar coating", XV convegno ANIDIS - L'Ingegneria Sismica in Italia, 30 giu.-4 lug. 2013, Padova, Italy.
14. GRIMAZ, S.; SLEJKO, D.; CUCCHI, F.; BARAZZA, F.; BIOLCHI, S.; DEL PIN, E.; FRANCESCHINIS, R.; GARCIA, J.; GATTESCO, N.; MALISAN, P.; MORETTI, A.; PIPAN, M.; PRIZZON, S.; REBEZ, A.; SANTULIN, M.; ZINI, L.; ZORZINI, F., "The ASSESS project: an example of a holistic multi-level study for seismic risk reduction", Atti del 31° Convegno Nazionale - Gruppo Nazionale di Geofisica della Terra Solida, Tema 2: Caratterizzazione sismica del territorio, 20-22 nov. 2012, Potenza, Italy.
15. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Metodologia per la stima della resistenza sismica degli edifici esistenti in muratura", XIV convegno ANIDIS - L'Ingegneria Sismica in Italia, 18-22 set. 2011, Bari, Italy.
16. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Procedura per la valutazione della vulnerabilità sismica degli edifici scolastici in c.a.", XIV convegno ANIDIS - L'Ingegneria Sismica in Italia, 18-22 set. 2011, Bari, Italy.
17. AMADIO C., GATTESCO N., DUDINE A., RINALDIN G., "Effectiveness of a strengthening technique for masonry spandrels based on CFRP strips", XIV convegno ANIDIS - L'Ingegneria Sismica in Italia, 18-22 sept. 2011, Bari, Italy.
18. GATTESCO N., GRIMAZ S., BARAZZA F., FRANCESCHINIS R., LEITA P., MALISAN P., ZORZINI F.," Soglie di priorità per l'adeguamento sismico di edifici scolastici costruiti o ristrutturati prima dell'entrata in vigore delle NTC 2008", XIV convegno ANIDIS - L'Ingegneria Sismica in Italia, 18-22 set. 2011, Bari, Italy.
19. GATTESCO N., GRIMAZ S., BARAZZA F., FRANCESCHINIS R., LEITA P., MALISAN P., ZORZINI F., "Criteri per la definizione delle priorità di intervento su edifici scolastici costruiti o adeguati prima dell'entrata in vigore delle NTC 2008", GNGTS 2010, 29th Convegno Nazionale, Prato, 26-28 Ott. 2010.
20. GATTESCO N., DUDINE A., "Efficacia di una tecnica di rinforzo per murature con intonaco e rete in GFRP", Convegno "Sicurezza e conservazione nel recupero dei beni culturalicolpiti dal sisma",Venezia, 8-9 apr 2010.
21. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Strategia per la stima della sicurezza sismica degli edifici scolastici in muratura", GNGTS 2009, 28th Convegno Nazionale, Trieste, 16-19 Nov. 2009.
22. GATTESCO N., FRANCESCHINIS R., ZORZINI F., "Procedura per la valutazione della vulnerabilità sismica degli edifici scolastici in muratura", ANIDIS 2009, XIII Convegno Nazionale "L'Ingegneria Sismica in Italia, Bologna, 28 giu/2 lug 2009.
23. GATTESCO N., BENUSSI F., MACORINI L., "Tecniche di irrigidimento in piano di solai lignei caratterizzate da elevata reversibilità", ANIDIS 2009, XIII Convegno Nazionale "L'Ingegneria Sismica in Italia, Bologna, 28 giu/2 lug 2009.
24. GATTESCO N., MACORINI L., CLEMENTE I., NOE' S., "Shear Resistance of Spandrels in Ancient Brick Masonry Buildings", ANIDIS 2009, XIII Convegno Nazionale "L'Ingegneria Sismica in Italia, Bologna, 28 giu/2 lug 2009.

25. GATTESCO N., MACORINI L., FRAGIACOMO M. “Moment redistribution limits for steel-concrete composite beams accounting for ULS and SLS requirements”, VII Workshop Italiano sulle Strutture Composte, Università degli Studi del Sannio, Benevento, 23-24 Ott 2008.
26. GATTESCO N., MACORINI L., “Flexural strengthening and stiffening of ancient wooden floors: a new technique”, VII Workshop Italiano sulle Strutture Composte, Università degli Studi del Sannio, Benevento, 23-24 Ott 2008.
27. AMADIO C., GATTESCO N., URBAN F., “Experimental study of timber shear walls made with OSB or wood fiber-reinforced gypsum panels.”, ANIDIS 2007, XII Convegno Nazionale “L’Ingegneria Sismica in Italia, Pisa, 10-14 Giu. 2007.
28. GATTESCO N., MACORINI L., BENUSSI F., “High reversibility technique for stiffening wooden floors to improve the seismic resistance of historical buildings.”, ANIDIS 2007, XII Convegno Nazionale “L’Ingegneria Sismica in Italia, Pisa, 10-14 Giu. 2007.
29. GATTESCO N., URBAN F., “Indagine sperimentale su pareti di controvento in pannelli di legno.”, Atti Convegno Nazionale “Sperimentazione su materiali e strutture”, 6-7 Dec. 2006, Venice, pp. 849-859.
30. AMADIO C., GATTESCO N., URBAN F., “Un sistema di assemblaggio rapido per unioni di elementi in legno realizzate con barre incollate.”, Atti Convegno Nazionale “Sperimentazione su materiali e strutture”, 6-7 Dec. 2006, Venice, pp. 299-307.
31. FELICETTI R., GATTESCO N., “Le prove penetrometriche per la stima della risposta meccanica delle malte nelle murature degli edifici.”, Atti Convegno Nazionale “Sperimentazione su materiali e strutture”, 6-7 Dec. 2006, Venice, pp. 224-233.
32. GATTESCO N., PICCOLI G., “Verifiche sperimentali su travi in c.a.p. di sostegno di solai realizzati con copponi nervati.”, Atti 16° Congresso C.T.E. (Collegio dei Tecnici dell’industrializzazione Edilizia), Parma, 9-11 Nov. 2007.
33. GATTESCO N., MACORINI L., “Rinforzo di solai in legno con piatti di acciaio per interventi su edifici in muratura.”, Workshop on design of rehabilitation of masonry structures, WONDERmasonry, Firenze, 6 aprile 2006.
34. BENUSSI F., GATTESCO N., MACORINI L., “Comportamento strutturale di solai di edifici storici formati con travi composte in acciaio e voltine in mattoni”, Workshop on design of rehabilitation of masonry structures, WONDERmasonry, Firenze, 6 aprile 2006.
35. GATTESCO N., FRAGIACOMO M., MACORINI L., BINCOLETTO G., “Ridistribuzione dei Momenti nelle Travi Miste di Acciaio e Calcestruzzo, VI Workshop Italiano sulle Strutture Composte, 22-23 nov. 2004, Trieste, Italy.
36. GATTESCO N., PITACCO I., “Travi da Ponte Composte Acciaio-Calcestruzzo Soggette a Carichi Viaggianti – Comportamento Ciclico della Connessione, VI Workshop Italiano sulle Strutture Composte, 22-23 nov. 2004, Trieste, Italy.
37. GATTESCO N., DILENA M., MORASSI A., “Prove Dinamiche e Modellazione di Travi Composte di Acciaio e Calcestruzzo con Connessione Parzialmente Danneggiata, VI Workshop Italiano sulle Strutture Composte, 22-23 nov. 2004, Trieste, Italy.
38. GATTESCO N., MACORINI L., FRAGIACOMO M., “Sperimentazione Numerica per la Valutazione della Possibile Ridistribuzione dei Momenti nelle Travi Miste di Acciaio e Calcestruzzo.”, 15° Congresso C.T.E., Bari (Italy), 4-6 Nov. 2004.
39. GATTESCO N., PITACCO I., TRACANELLI A., “Analisi non Lineare di Travi da Ponte a Struttura Mista di Acciaio e Calcestruzzo Sottoposte a Carichi Viaggianti.”, V Workshop Italiano sulle Strutture Composte, 28-29 nov. 2002, Fisciano (Salerno).
40. GATTESCO N., MORASSI A., “Identificazione Dinamica di un Danno nella Connessione di Travi Miste di Acciaio e Calcestruzzo.”, V Workshop Italiano sulle Strutture Composte, 28-29 nov. 2002, Fisciano (Salerno).
41. GATTESCO N., GUBANA A., “Giunti di Continuità di Elementi in Legno Lamellare Realizzati con Barre Resinate.”, 14° Congresso C.T.E., Mantova, 7-9 nov. 2002, pp. 709-716.
42. GATTESCO N., BERNARDI D., “Attacco da Cloruri in Elementi di Calcestruzzo ad Alte Prestazioni: Influenza della Tensione nelle Armature”, 14° Congresso C.T.E., Mantova, 7-9 nov. 2002, pp. 211-218.
43. ANGELI P., GATTESCO N., “Indagine Sperimentale sul Comportamento di Giunti di Continuità di Volte in Legno Lamellare a Nervature Incrociate”, 13° Congresso C.T.E., Pisa, 9-11 nov. 2000, pp. 635-644.
44. ANGELI P., GATTESCO N., “Modello Sperimentale per lo Studio del Comportamento di Giunti di Continuità di Volte in Legno Lamellare a Nervature Incrociate”, 13° Congresso C.T.E., Pisa, 9-11 nov. 2000, pp. 627-634.
45. GATTESCO N., GUBANA A., “Studio Sperimentale sulle Unioni Incollate di Elementi in Legno Lamellare.”, 13° Congresso C.T.E., Pisa, 9-11 nov. 2000, pp. 403-411.
46. GATTESCO N., “Fatigue Tests on Stud Shear Connectors”, Proc. XVII Congresso C.T.A., Napoli, 3-5 Oct. 1999.
47. GATTESCO N., RIVA P., "La Ridistribuzione dei Momenti nelle Travi in Calcestruzzo ad Alte Prestazioni", La Sicurezza delle Strutture in Calcestruzzo ad Alte Prestazioni, Giornata di Studio, 11-12 marzo 1999, Venezia (Italy).
48. GATTESCO N., “Indagine Sperimentale sul Comportamento dei Giunti di Continuità nelle travi in Legno Lamellare”, 12° Congresso C.T.E., Padova (Italy), 5-7 nov. 1998, pp. 545-554.
49. GATTESCO N., MORASSI A., “Structural Diagnostics of Steel and Concrete Composite Beams Through Dynamic Methods”, III Workshop Italiano sulle Strutture Composte, 29-30 ott. 1998, Ancona (Italy).
50. GATTESCO N., GIURIANI E., “The Problem of Low-Cycle Fatigue in Stud Shear Connections: Damage Cumulativeness Considerations”, III Workshop Italiano sulle Strutture Composte, 29-30 ott. 1998, Ancona (Italy).

51. GATTESCO N., RIVA P., "Ridistribuzione dei Momenti nelle Travi Continue in Calcestruzzo ad Alta Resistenza Armato e Precompresso", Tecniche Innovative e Modelli di Calcolo nel Calcestruzzo Armato e Precompresso, Giornata di Studio, 8 mar. 1996, Venezia (Italy), pp. 151-152.
52. GATTESCO N., GIURIANI E., "Le Travi Miste di Acciaio e Calcestruzzo Sottoposte a Carichi Ripetuti: Comportamento della Connessione a Piolo", II Workshop Italiano sulle Costruzioni Composte, Napoli, 22-23 giu. 1995, pp. 231-244.
53. GATTESCO N., GIURIANI E., "Behavior of Steel and Concrete Composite Beams Subjected to Repeated Loads", I Workshop Italiano sulle Strutture Composte, 17-18 giu. 1993, Trento (Italy), pp. 65-84.
54. GATTESCO N., TONIOLO G., "Considerazioni sui calcoli di instabilita' dei pilastri in cemento ", 8° Congresso C.T.E., Bologna(Italy), nov. 1990, Sez. B, pp. 23-33.
55. FORTE A., GATTESCO N., TONIOLO G., MOLA F., "Tipologia prefabbricata per edifici industriali pluripiano: problemi di instabilita' dei pilastri in relazione alla contemporaneita' delle azioni orizzontali", 5° Congresso C.T.E., Firenze (Italy), nov. 1984, Sez. B, pp. 187-196.
56. GATTESCO N., "Le deformazioni differite nell'instabilita' di elementi snelli in cemento armato", VII Congresso Nazionale AIMETA, Trieste (Italy), ott. 1984, Sez. V, pp. 113-122.

Trieste, 6 Marzo 2020

Prof. Ing. Natalino Gattesco