

Prof. Giovanni Plizzari is Full Professor of Structural Engineering (since November 2001) and is in service at the DICATAM Department of the University of Brescia (since November 2005).

From October 1991 to October 1992 he was Visiting Assistant Professor at the University of Colorado at Boulder.

From November 2010 to October 2020 was Chair of the Department of Civil Engineering, Architecture, Land, Environment and Mathematics of the University of Brescia.

From November 2012 to October 2020 was a member of the Academic Senate of the University of Brescia.

TEACHING ACTIVITY

Prof. Plizzari gave courses in the field of structural engineering (structural design, structural rehabilitation, reinforced concrete structures).

He has been supervisor or co-supervisor of more than 350 Master theses and several PhD theses.

Since 2016, Prof. Plizzari has been the referent for the "Conservation of historic and contemporary buildings" curriculum in the DICACIM Ph.D. program at the University of Brescia.

MEMBER OF COMMISSIONS

Prof. Plizzari has participated in many commissions for selecting Assistant Professors (University of Bergamo, University of Bologna, University of Padua, University of Messina, University of Parma), Associate Professors (Polytechnic of Turin, University of Salento, University of Pavia, University of Bergamo, University of Bologna, University of Brescia) and Full Professors (University of Padua, University of Naples Federico II, University of Palermo, University of Calabria, University of Parma, University of Bergamo, South Africa's National Research Foundation (NRF), Loughborough University (UK)).

In 2019 he was a member of the National Scientific Abilitation Commission (ASN).

Also member of numerous commissions for the final doctoral exam in Italian and foreign universities (including Universitat Politècnica de València (Spain), EPFL (Switzerland), Chalmers university (Sweden), Denmark Technical University (Denmark), Universitat Politècnica de Catalunya (Spain), Katolic University at Leuven (Belgium)).

SCIENTIFIC ACTIVITY

Prof. Plizzari's research mainly concerns the study of the behavior of structures and special materials for structural applications. The activity carried out also wanted to investigate the durability of reinforced concrete structures with particular reference to the problems of corrosion of the reinforcement which is also affected by the cracking of the concrete.

In particular, for about 25 years, the activity has mainly concerned the structural applications of fiber-reinforced concrete (FRC), with particular reference to shear in beams, industrial flooring; in more recent years he has studied the possibility of using fibers in tunnel linings in addition to cracking phenomena (including those related to shrinkage) and the durability of fiber-reinforced structures. The research also dealt with the issue of the structural rehabilitation of masonry and concrete structures. Finally, he studied the possibility of recycling materials for replacing the aggregates of the structural concrete.

The researches were mainly directed to the study of the overall structural behavior but they frequently faced basic aspects aimed at deepening the knowledge on the most important local behaviors.

PUBLICATIONS AND LIBRARY INDEXES

Prof. Plizzari is the author of more than 350 scientific publications, more than 160 of which in international journals or proceedings of international conferences.

The bibliometric indices provided by Scopus (as of 23 January 2021) are listed below:

Publication range: 1991 - 2021; H index: 27; Documents: 167; Citations: 2902; Co-authors: 135

AWARDS AND ACKNOWLEDGMENTS

Since 2012 he has been a Fellow of the American Concrete Institute "in recognition of your contributions to the work of ACI".

Since 2013 he has been a Fellow of the International Association of Fracture Mechanics of Concrete and Concrete Structures (FraMCoS).

In October 2015, the paper "Influence of the relative Rib Area on Bond behavior" (co-authored by Eng. Giovanni Metelli) received from the Institution of Civil Engineers (ICE) the MCR Award for best paper in the journal Magazine of Concrete Research.

REVIEW ACTIVITY

Prof. Plizzari is reviewer of international scientific journals. Since 2012 he has been Associate Editor and since 2018 Deputy Editor in Chief of the RILEM Materials and Structures magazine.

He has been a reviewer of national and international research projects.

CONFERENCES AND SEMINARS

He actively participates in the most important International Conferences where he has also frequently been a member of the scientific committee, has chaired work sessions or held various invited talks.

He has organized the following national or international conferences:

- with Eng. Stefano Cangiano a national conference on steel fiber reinforced concrete which was held in Venice on 15 December 2000.
- with Prof. Di Prisco the IGF study day on "The mechanics of fracture in high performance concrete" which was held in Brescia on 16 November 2001;
- with Prof. Alberto Franchi the national conference "New horizons in the protection of reinforced concrete armor. with zinc plating ", IUAV, Venice, 24 October 2003;
- with Prof. Marco di Prisco the international conference on fiber-reinforced concrete "BEFIB 2004", Varenna (LC), 20-22 September 2004;
- with Prof. Marco Di Prisco the international workshop "Fiber Reinforced Concrete: From theory to practice", Bergamo, 24-25 September 2004;
- with Professors Alberto Carpinteri, Pietro Gambarova and Giuseppe Ferro the FraMCoS6 International Conference "Fracture Mechanics of Concrete and Concrete Structures", Catania, 17-22 June 2007;
- with Professor Fausto Minelli the International Workshop "Recent developments on shear and punching shear in RC and FRC elements", Salò (BS), October 15-16, 2010;
- with Professors Roberto Realfonzo, Antonio Grimaldi, Emidio Nigro and Eng. Michele Valente organized the 1st Workshop of New Boundaries for Structural Concrete, Salerno, April 22-23, 2010.
- with Dr John Cairns and Eng. Giovanni Metelli the International Conference "Bond in Concrete", Brescia, June 17-20, 2012;
- with Professors Bruno Massicotte, Jean-Philippe Charron and Barzin Mobasher the fib-ACI International Workshop "FRC, from Design to Structural applications", Montreal, 24-25 July 2014.
- with Professors Bruno Massicotte, Fausto Minelli and Barzin Mobasher the fib-ACI International Workshop "FRC, from Design to Structural applications", Desenzano del Garda (Italy), 27- 30 June 2018.

He was invited to various national and international universities to hold seminars.

PARTICIPATION COMMISSIONS FOR CODES AND STANDARDS

Prof. Plizzari was a member of the following normative or pre-normative commissions:

- Unicemento which prepared the UNI 11039 standard for the classification of concrete reinforced with steel fibers;
- WG 11 of CEN TC 104 for the European standard EN 14651 on the classification of steel and polymeric fibers for concrete;
- UNI Structural Engineering (UNI-CIS / SC4) which prepared the standard "Design, Execution and Control of Structural Elements in Steel Fiber Reinforced Concrete" (UNI 11188).

- TG7 of WG3 of TC 229 of CEN for the regulation on "Metallic Fiber Concrete";
- CNR (co-coordinator) who prepared the CNR Instructions "Instructions for the Design, Execution and Control of Fiber-reinforced Concrete Structures" (CNR-DT 204).
- CNR (co-coordinator) who prepared the CNR Instructions "Instructions for the Design, Execution and Control of Concrete Floors" (CNR-DT 211).

He is currently a member of the following commissions:

- fib TG 4.1 (formerly TG 8.3) - Fiber Reinforced Concrete;
- fib WP 1.4.1 - Tunnels in Fiber Reinforced Concrete;
- fib 10.1 - Model Code 2020 (referent of Chapter 18 on anchors)
- ACI 544 - Fiber Reinforced Concrete;
- CEN TC 250 / SC2 / WG1 / TG2 - Fiber Reinforced Concrete;
- Unicemento - Test methods for concrete.

It is also Convenor to:

- Task Group 2.5 of the fib "Bond and material models";
- Task Group 1.8 of the fib "Concrete industrial floors"
- Cluster C "Structural Performance and Design" of the RILEM Technical Activity Committee.

Prof. Plizzari collaborates with the Higher Council of Public Works as an expert.

ASSOCIATIONS

From 2008 to 2013 he was President of the national association CTE (College of Building Industrialization Technicians). He is now Vice President of the same association.

He is a member of ASCE, ACI, RILEM, fib, IABSE, AICAP and SIG.

COORDINATION OF RESEARCH PROJECTS

He has been and is currently coordinator of numerous research projects with private companies on the structural applications of high-performance concrete.

- He was Principal Investigator of the Research Unit of the University of Bergamo of PRIN 2004 "Fiber-reinforced concrete for Resistant, Durable and Economic Structures and Infrastructures" (National Principal Investigator Prof. Marco di Prisco).
- He was National Principal Investigator of the PRIN 2006 Project "Optimization of structural, technological and functional performance, of construction methods and materials in tunnel coatings".

- He was Coordinator of the Working Group and of the CIS-E Research Group - Assoprem which is preparing recommendations for the design, construction and control of PREM beams (steel to concrete composite).

- He was Coordinator of the Conpaviper working group for the preparation of "Instructions for the design of fiber-reinforced concrete floors".

From 2017 to 2019 he is responsible for the project funded by the Region Lombardia "Energy, Life Styled and Seismic Innovation For Regenerated Buildings (Business Models and Punctual Innovations for Urban Regeneration in the Digitalization of the Built Environment; acronym ELISIR)". Smart Living).

Since 2020 he has been in charge of the project "Infrastructures and services for Sustainable and Resilient Mobility - MoSoRe @ Unibs", financed by the Region Lombardia with the call for "Call Hub research and innovation".