CURRICULUM VITA OF RAVINDRA GETTU

Current Position and Address
V.S. Raju Chair Professor, Department of Civil Engineering.
Centre of Excellence on Technologies for Low-carbon and Lean Construction, and
Building Technology, Construction Materials and Management Group.
Indian Institute of Technology Madras.
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Qualifications
Bachelor of Civil Engineering (Honours), University of Madras (India), 1984
Master of Science in Civil Engineering, Marquette University (USA), 1986
Ph.D. in Structural Engineering, Northwestern University (USA), 1992
Doctor Ingeniero de Caminos, Canales y Puertos, *Degree equivalence awarded by the Spanish Ministry of Education*, 1998

Work Experience and Previous Positions
V.S. Raju Institute Chair Professor, IIT Madras, 2018-
Dean, Industrial Consultancy and Sponsored Research, IIT Madras, March 2018 – June 2022
Associate Dean, Industrial Consultancy and Sponsored Research, IIT Madras, May 2016 – March 2018
Head, Building Tech. and Constr. Management Div., Dept. of Civil Engng., IIT Madras, 2009-12
Chairman, Stores and Purchases, IIT Madras, 2023-
Chairman, Engineering Unit, IIT Madras, 2006-09
Professor of Civil Engineering, IIT Madras, since December 2004
Director, Structural Technology Laboratory, Universitat Politècnica de Catalunya, 1993-2004
Research Faculty Member, Universitat Politècnica de Catalunya, 2003-04
Visiting Scientist/Senior Researcher, Universitat Politècnica de Catalunya, 1990-2002
Visiting Professor, Dept. of Constr. Engineering, Universitat Politècnica de Catalunya, 1994-96
Research Assistant, Northwestern University (USA), 1987-90
Walter P. Murphy Graduate Fellow, Northwestern University (USA), 1986-87
Teaching Assistant, Marquette University (USA), 1984-86

Current Participation in Committees and Boards
Immediate Past President, RILEM, The International Union of Laboratories and Experts in Construction Materials, Systems and Structures (Paris, France), 2021-24
Director, IITM Pravartak Technologies Foundation, 2022-
Chairman, Board for the Master Trainer Training Programme on Advanced Concrete Technology and Construction Technology, Viswesvaraya National Training Facility for Skills for All (BMVNTFSA), Karnataka.
Associate Editor, Revista ALCONPAT, 2021-
Member, Steering Committee, Innovandi Global Cement and Concrete Research Network, 2023-26

Member, Subject Expert Committee (Engineering Sciences) for 'Fund for Improvement of S&T Infrastructure in Universities and other Higher Education Institutions (FIST)' Scheme, 2024-

Member, Monitoring Committee (MC) of CSIR Fast Track Translation (FTT) and Fast Track Commercialization (FTC) projects under Civil Infrastructure and Engineering (CIE) Theme, 2023-

Member, Consultative Committee for the Establishment of Science Parks in Kerala, 2023-

Member, Panel for IS 456 and IS 1343, CED 2:2/P5, Bureau of Indian Standards

Member, Editorial Boards of Transactions of the Indian National Academy of Engineering, Journal of Asian Concrete Federation, Materiales de Construcción, and Indian Concrete Institute Journal

Past Participation in National and International Activities

President (2018-21), and Vice-President (2015-18), RILEM, The International Union of Laboratories and Experts in Construction Materials, Systems and Structures (Paris, France)

Associate Editor, Materials and Structures Journal, 2010-17

Chairman, Indian Concrete Institute Tamil Nadu Chennai Chapter, 2013-15

Chairman, Technical Activities Committee of RILEM, the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (Bagneux, France), 2010-14

Director *ex officio*, IIT Madras Research Park and IITM Incubation Cell, 2018-2022

Co-Chair *ex officio*, Governing Board, Advanced Manufacturing Technology Development Centre, 2018-2022

Director *ex officio*, IITM Pravartak Technologies Foundation, 2020-2022

Member (co-opted), General Committee of the Madras Chamber of Commerce & Industry, 2020-23

Member, Sectional Committee – I (Civil Engng.), Indian National Academy of Engineering, 2020-22

Member *ex officio*, Governing Board, IITM Rural Technology & Business Incubator, 2018-2022; Healthcare Technology Innovation Centre-IIT Madras, 2018-2022; International Centre for Clean Water (ICCW), 2018-2022; Center for Excellence in Energy and Telecommunication, 2019-2022; Centre for Advanced Automotive Research, 2020-2022

Member *ex officio*, Advisory Board, Aqua MAP Center for Water Management & Policy at IIT Madras, 2020-2022

Vice-Chair, Gordon Research Conference on Advanced Materials for Sustainable Infrastructure Development Cement Based Materials: Reaching Net Zero, July 31 – Aug. 5, 2022, Barga, Italy.

Associate Editor, ASCE Journal of Materials in Civil Engineering

External Examiner, Degree in Structural Engineering, Dublin Institute of Technology, 2003-05.

Secretary, International Assoc. for Fracture Mechanics of Concrete and Concrete Structures (1995-2001)

Secretary, RILEM Committees TC QFS "Size Effect and Scaling of Quasibrittle Fracture" and TC 187-SOC "Strain-softening of Concrete in Tension"

Editor, Korea Concrete Institute Journal

Member, Subject Expert Committee on Engineering Sciences, Fund for Improvement of S & T Infrastructure in Universities and Other Higher Educational Institutions (FIST), Ministry of Science and Technology, Govt. of India, 2016-20

Member, American Concrete Institute Committee 446 Fracture Mechanics (1990-2001)

Member, European Committee for Standardization Task group CEN/TC229/WG3/TG7 Metallic fibre concrete

Member, European Permanent Committee for Experimental Mechanics (1997-98)

Member, Permanent Committee, European Association for Experimental Mechanics (Eurasem)

Member, RILEM Technical Committees TC 148 "Strain-softening of Concrete", TC 162 "Test and Design Methods for Steel Fibre Reinforced Concrete", TC 261-CCF: Creep Behavior in Cracked Sections of Fiber Reinforced Concrete, and TC 263-EEC: Environmental evaluation of concrete structures toward sustainable construction

Member, Spanish Working Group GEHO GT 1/2 on High Strength Concrete
Coordinator, Spanish Working Group ACHE GT 2/3 on Chemical Admixtures
Member, Editorial Board, IBRACON Structures Journal (Brazil)
Member, Research Council of CSIR - Structural Engineering Research Centre, Chennai, 2010-17
Chairman, Campus Master Plan Advisory Committee, IIT Tirupati
Member, Committees for the Selection of Consultants for Master Planning and Project Management for the new campuses of IIT Bhubaneshwar, IISER Trivandrum, and IIITDM, Kancheepuram.
Member, Building and Works Committee of the Indian Institute of Technology Hyderabad.
Member, Bureau and Technical Activities Committee, RILEM, 2006-14.
Member, Committee for the Selection of the Architect for Master Planning and for Review of the Construction of the New Campus, and Architect/Design Consultant Selection Committee for Phase-II Construction and Development of Main Campus of IIT Mandi, Kamand.
Member, FIB Task Group 6.7 "Affordable Housing"; ASCE Properties of Materials Committee.
Member, FIB Task Group 8.3 "Fibre Reinforced Concrete"
Member, Building and Works Committees of the Indian Institute of Science, Education and Research, Trivandrum; and the Indian Institute of Technology Mandi
Member, Board of Studies in Civil and Structural Engineering, Annamalai University
Member, Board of Studies in Civil Engineering (UG), Amrita Vishwa Vidyapeetham University; Department Advisory Committee, Dept. of Civil Engineering, KCG College of Technology
Member, Academic Advisory Committee, School of Infrastructure, IIT Bhubaneswar
Chairman, Indian Concrete Institute Technical Committee on Flooring
Secretary, Indian Concrete Institute Technical Committees on Fibre reinforced concrete, and Chemical admixtures
Member, Expert Committee on the "Innovation in Science Pursuit for Inspired Research (INSPIRE)" Fellowships, Dept. of Science and Technology, Govt. of India, 2017
Core member of the UN Environment Network: Low-Carbon Cementitious Materials (LCCI), part of UNE 10-Year Framework Programme on Sustainable Building and Construction
Co-Chair, Working Group on Attracting Investment for Medium and Large Industries, 14th Five-Year Plan, Govt. of Kerala

AWARDS AND HONOURS RECEIVED

- Fellow of the Indian National Academy of Engineering, 2018.
- Honorary title of RILEM Fellow, 2012.
- Elected Foreign Member of the Russian Academy of Engineering, 2019.
- Co-Chair of the 2024 Gordon Research Conference on Advanced Materials for Sustainable Infrastructure Development Cement Based Materials, Ventura Beach, California, USA, 2024.
- Outstanding Concrete Engineer of Tamil Nadu Award of the Indian Concrete Institute Chennai Centre, 2015.
- Outstanding Concrete Technologist Award of the Indian Concrete Institute, 2010.
- School of Civil Engineering (Barcelona) Award for Outstanding Achievements, 2003.
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- Honoured for Lifetime Achievements at the 1st Interdisciplinary Symposium on Smart & Sustainable Infrastructures with 8 Special Sessions during 5-8 September 2023 in Vancouver, B.C., Canada.
- Co-dedication (along with Prof. Venkatesh Kodur) of a Special Issue of the *Revista ALCONPAT, Latin American Journal of Quality Control, Pathology and Construction Recovery*, eISSN: 2007-6835, Vol. 10, Issue 2, May-Aug. 2020, DOI: 10.21041/ra.v10i1.

- Co-honoree at the Gettu-Kodur Symposium on Advances in Science & Technology of Concrete, organized by the India Chapter of the American Concrete Institute, Mumbai, 2018.
- Honorary Chairman, International RILEM Workshop on Creep Behaviour in Cracked Sections of Fibre Reinforced Concrete, 9-10 March 2016, Valencia, Spain.
- Honoured for outstanding contributions at the Third International Conference on Sustainable Construction Materials and Technologies (Kyoto, Japan) organized by the Japan Concrete Institute, Coventry University (UK) and UWM Center for By-products Utilization (USA), 2013. Three conference sessions and a book volume were dedicated to him as part of the proceedings of the conference: *Proc. Professor Ravindra Gettu Sessions on The Role of Concrete Properties in Sustainable Construction*, Eds. K. Sakata and T.R. Naik, 139 p.
- International Workshop on R+D+*i* in Technology of Concrete Structures held in his honour in Barcelona, Spain, on 5th October 2004, by the Universitat Politècnica de Catalunya; proceedings edited by A. Aguado, L. Agulló, B. Barragán and G. Ramos, 266 p., ISBN 84-89691-31-5.

- Advisor of Rohit Prajapati who received the Surendra Shah Award for Technologies for Low-Carbon and Lean Construction in 2023.
- Advisor of Someen S. Khute who received the ICI – Ultratech Outstanding Masters Thesis Award in 2023.
- Advisor of Anusha S. Basavaraj who received the Outstanding Doctoral Thesis award from the Indian Concrete Institute Chennai Centre in 2022.
- Advisor of Stefie J. Stephen who received the Innovative Student Project Award at the Doctoral Level by the Indian National Academy of Engineering, 2020.
- Advisor of M. Sirajuddin whose thesis was given the Outstanding Masters Thesis award for Tamil Nadu by the Indian Concrete Institute Chennai Centre in 2016.
- Advisor of S. K. Nayar who was given an Innovative Student Project Award at the Doctoral Level by the Indian National Academy of Engineering, and the Outstanding Doctoral Thesis award for Tamil Nadu by the Indian Concrete Institute Chennai Centre in 2016.
- Advisor of Vandana Padmanabhan whose MTech thesis received the Best Masters Thesis in Concrete award from the Indian Concrete Institute Chennai Centre in 2015.
- Advisor of Ajay Krishnan whose MS thesis received the Best Masters Thesis in Concrete award from the Indian Concrete Institute Tamil Nadu Chennai Chapter in 2014.
- Advisor of S. Bhaskar whose doctoral thesis received the Best PhD Thesis in Concrete awards from the Indian Concrete Institute and the ICI Tamil Nadu Chennai Chapter in 2013.
- Faculty Guide of the Bhagyalakshmi and Krishna Iyengar Awardee S. Vinayak (B.Tech), for the best student project in the field of solar and alternative energy application/energy efficiency/pollution abatement / infrastructure improvements at IIT Madras in 2011.
- Advisor of Bryan Erick Barragán whose doctoral thesis received the award of Outstanding Doctoral Thesis in Civil Engineering from the Universitat Politècnica de Catalunya, Spain, 2002.

- Best Paper Award in the Symposium on Reinforced Concrete at CORCON 2013 (New Delhi) by NACE International, Gateway India Section, 2013.
- Indian Concrete Institute Award for best paper published in the ICI Journal, 2011-12.
- Corps of Engineers Prize awarded by The Institution of Engineers (India) for paper published in the Institution Journal during 2010-11.
- Japan Concrete Institute JCI-OWICS (Our World in Concrete & Structures) Award, 2002.
- José Torán Award of the Spanish National Committee on Large Dams, 2002.

- Gaspar de Portolà Fellowship awarded by the Generalitat de Catalunya in collaboration with the University of California, 2004.

- Member, Thematic Network on the Mechanical Properties of Materials funded by the Generalitat de Catalunya (Spain), 1994-2002 (XT94-37, D.G.R.-G.C.); and Consolidated Research group on the Structural Technology funded by the Generalitat de Catalunya (Spain), GRQ94-3010, D.G.R.-G.C., 1994-2005.
- Scientific coordinator, European community grants for the organization of international conferences (ConCreep5 1993 through Brite-EuRam, ConTech 1994 through Brite-EuRam and the HCM Euroconference action).
- Coordinator of Generalitat de Catalunya (Spain) grants for contracting research personnel, 1994 & 1995 (Ayudas D.G.R.-G.C., PTS94-305, 1994; PTS, 1995).
- Fellowship of the Spanish Ministry of Education and Science, Program for Foreign Scientists and Technologists, ETSECCPB-UPC (1990-91).
- Walter P. Murphy Graduate Fellowship, Northwestern University, USA, 1986-87.
- Gold medallist, Bachelor of Engineering (Civil), University of Madras, India, 1984.

PARTICIPATION IN RESEARCH PROJECTS FUNDED BY GRANTS (PUBLIC FUNDING)

Framework for Optimizing and Enhancing the Performance of Concrete Pavements using Natural Coir Fibres (CoirCon), Funded by the Coir Board, Govt. of India, through the Centre of Excellence (CoE) for Application of Coir Exclusively or in Combination with other Natural Fibres (SP21221170CECBOA008952), 2020-23.

Technologies for Low Carbon, Lean Construction, Funded by IIT Madras as an Institute of Eminence Research Initiative from the IoE grant of the Ministry of Education, Govt. of India (SB20210809CEMHRD008100), 2021-26.

Modular Lightweight Wastewater Treatment Units made with TRC for Rural and Periurban Dwellings (CleanWater), Funded by the Indo-German Science and Technology Centre, under IGSTC 2+2 Scheme as R&D Project IGSTC/Call 2017/CleanWater/IITM/18/2018-19 (CE19201089IGST008190), 2020-23.

Study of the Deterioration Mechanisms in Glass Textile Reinforced Concrete and Improvement of its Durability, Funded by the Science and Engineering Research Board, Govt. of India, as Core Research Grant CRG/2019/004267 (CE19201055SERB008190), 2020-23.

A New Framework of High Value Added Zero-waste Recycling of Concrete from Construction and Demolition Waste, in collaboration with Brunel University London, an Indo-UK joint project, Ministry of Science and Technology, Govt. of India, DST/INT/UK/P-172/2017 (CE1920355DSTX008190), 2019-22.

Towards Durability Specifications with Recycled Aggregate Concrete, in collaboration with the University of Cape Town and the University of the Witwatersrand (South Africa), Funded by the Scheme for Promotion of Academic and Research Collaboration, Ministry of Human Resource Development, Govt. of India (CIE/19-20/295/SPAR/MANU), 2019-23.

Sustainability of Novel Cementitious Binders Derived from Industrial By-Products, in collaboration with the Massachusetts Institute of Technology (USA), Funded by the Scheme for Promotion of Academic and Research Collaboration, Ministry of Human Resource Development, Govt. of India (CIE/18-19/291/SPAR/PIYS), 2019-23.

3D Printing and Construction Automation for Affordable Housing, Funded by the Science and Engineering Research Board, Govt. of India, under the scheme for Impacting Research Innovation and Technology (IMPRINT-2), Sustainable Habitat, IMP/2018/000224 (CIE/18-19/286/MIMP/BENN), 2019-22.

Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic Solutions for Water, Subproject on Water Distribution and Sewer Networks, Funded by the Dept. of Science and Technology, Govt. of India (CHE/18-19/167/DSTX/SRID), 2018-23.

Development of Pre-packaged, High Performance Grout (HPG) for commercialization in Indian Post-tensioned Concrete industry, IMPRINT project, Funded by Ministry of Human Resources Development, Ministry of Housing and Urban Poverty Alleviation, Govt. of India, and Ultratech Cements Ltd. (CIE/16-17/250/MIMP/RADH), 2017-19.

Institutional strengthening on analysis of dams, foundations, retrofitting, flood forecasting and related issues, Funded by the Central Water Commission, Government of India (CIE/16-17/248/CWCX/ KRAG), 2017-21.

Development of low carbon cement, Funded by the Swiss Agency for Development and Cooperation, through École Polytechnique Fédérale de Lausanne, 2014-20.

Investigation of compatibility issues between Indian cements and water-reducing admixtures, Funded by the Department of Science and Technology, Government of India (CIE/06-07/128/DSTX/MANU), 2007-10.

Development of Clean-Crete – A self-cleaning concrete, Funded by IIT Madras (ISP/06-07/011/ICSR/RAVG), 2006-07.

Integrated systems for sustainable housing, Funded by Universidad Politecnica de Madrid, Spain (CIE/06-07/119/UPMX/RAVG), 2006-07.

Improvement of the crack resistance of Athangudi tiles, Funded by Rural Technology Action Group Cell, IIT Madras (CIE/06-07/115/RuTG/RAVG), 2006-07.

Housing and rehabilitation for tsunami victims: Post-habitation study, Funded by "Socially Relevant Projects", IIT Madras (HSS/06-07/020/SRPX/PREA), 2006-07.

Characterization of structural wall concrete used in fast reactors for structural/shielding purposes, Funded by the Indira Gandhi Centre for Atomic Research (CIE/06-07/112/IGCA/MANU), 2006-07.

Mud blocks for low cost housing, Funded by Rural Technology Action Group Cell, IIT Madras (CIE/05-06/099/RuTG/MANU), 2005-06.

Study of the interaction between chemical admixtures and the other components in a cement-based material, and its technological implications, Funded by IIT Madras (CIE/04-05/122/ NFSC/RAVG), 2005-08.

Diseño, caracterización y minimización del impacto medioambiental del hormigón autocompactable para elementos estructurales reforzados con armadura convencional y con fibras (Design, characterization and minimization of the environmental impact of structural elements of self compacting concrete reinforced with conventional reinforcement and with fibers), Funded by the Ministry of Science and Technology, Spain (MAT 2003-5530), 2002-06.

Estudio teórico-experimental de la transferencia de cortante en vigas de dovelas de hormigón reforzado con fibras, con pretensado exterior y junta seca (Theoretical and experimental study of the shear transfer in segmental girders of fiber reinforced concrete, with external prestressing and dry joints, Funded by the Ministry for Development, Spain, 2002-05.

Estudio a escala nanométrica de procesos reactivos y evolutivos de pastas de cemento y su relación con el comportamiento macroscópico (Nanometric study of reactive and evolutive proceses in cement pastes and their relationship with the macroscopic behavior), Funded by CICYT, Ministry of Science and Technology, Spain (MAT2002-00077), 2002-05.

Industrialised Solutions for Construction of Reinforced Brick Masonry Shell Roofs (ISO-BRICK), Funded by the European Commission, CRAFT Research Project (Contract G5ST-CT-2001-50095), 2001-03.

Refuerzo de estructuras de hormigón con "Composites" CFRP (Strengthening of concrete structures with CFRP composites), Joint Spain-Portugal project (UPC, Universidade de Porto), Funded by DGI, Ministry of Science and Technology, Spain, Acción Integrada (HP2000-0043), 2001-02.

Valorització i gestió integrada d'escòries i altres residus inorgànics de processos tèrmics per la seva aplicació en la construcció (Evaluation and integrated management of slag and other inorganic waste from thermal processes for their application in construction), Funded by CIRIT, Generalitat de Catalunya, Spain, 1999-2002.

Diseño integrado de hormigones de altas prestaciones dirigido al usuario (Integrated design of high performance concretes oriented to the user), Funded by the Plan Nacional I+D, CICYT, Spain, and the European Community (Feder 2FD97-1973-C02-02), 2000-01.

Estructuras inteligentes. Desarrollo de un sistema integrado de monitorización y control: Aplicación a los puentes. (Intelligent Structures. Development of an integrated system for monitoring and control: Application to bridges), Funded by the Programa Nacional de Tecnologias Avanzadas de la Producción, CICYT, Spain (DGESIC TAP1999-1079-C03-01), 1999-2002.

Estudio experimental y numérico de la fractura de materiales pseudo-dúctiles con base cemento de alta integridad mecánica (Experimental and numerical study of fracture in pseudo-ductile cement-based materials with high mechanical integrity), Funded by the Programa Sectorial de Promoción General del Conocimiento, CICYT, Spain (DGESIC PB98-0928), 1999-2002.

Métodos de caracterización y cálculo de hormigón reforzado con fibras de acero (Methods for the characterization and testing of fiber reinforced concrete), Funded by the Plan Nacional I+D, CICYT, Spain and the European Commission (DGESIC MAT99-1370-CE), 1999-2002.

Test and design methods for steel fibre reinforced concrete, Funded by the Commission of the European Communities, DG XII-BRPR, Specific RTD Programme (BRPR.CT98.0813), 1999-2002.

Determinación del comportamiento del hormigón de presas de más de 20 años para su aplicación en estudios de mantenimiento y seguridad (Characterization of the behavior of the concrete in dams older than 20 years and its application in the study of the maintenance and safety), Funded by DGESIC, Spain, FEDER and Plan Nacional I+D (2FD97-0324-C02-02), 1999-2001.

Comportamiento post-fisuración de hormigones de altas prestaciones reforzado con fibras. Implicaciones para la caracterización y base de cálculo (Post-cracking behavior of high-performance concretes reinforced with fibers - Implications for characterization and design criteria), Joint Spain-Italy project (UPC, Politecnico di Milano, Università degli Studi di Genova), Funded by DGES, Spain, Acción Integrada (HI1997-0219), 1997-99.

Desarrollo de hormigones de altas prestaciones con fibras de acero para aplicaciones estructurales (Development of high performance concretes with steel fibers for structural applications), Joint Spain-Argentina project (UPC, Universidad Nacional de La Plata), Funded by MEC, Spain, Programa de Cooperación con Iberoamérica (PIC), 1996-98, 1999-2000.

Sistemas integrados para el estudio experimental de la características micro y macro estructurales de materiales avanzados con base cemento (Integrated systems for the experimental analysis of micro- and macro-structural characteristics of advanced cement-based materials), Equipment grant from CICYT, Spain (MAT96-2568-E), 1997.

Compuestos pseudo-dúctiles de alta integridad mecánica con base cemento (Pseudo-ductile cement-based composites with high mechanical integrity), Funded by CICYT, Spain (MAT96-0967), 1996-99.

Caracterización microestructural y modelización numérica de fenómenos expansivos en presas de hormigón (Microstructural characterization and numerical modeling of expansive phenomena en concrete dams), Funded by CICYT, Spain (95-0004-OP), 1995-97.

EUROCRETE, Producción de hormigón de alta resistencia utilizando nuevas adiciones minerales (Production of high strength concrete utilizing new mineral admixtures), Funded by CICYT, Spain (MAT95-1906-CE), 1995-96.
Comportamiento mecánico de fisuras e interfases en hormigón y roca (Mechanical behavior of cracks and interphases in concrete and rock), Funded by DGICYT, Spain (PB93-0955), 1994-97.

EUROCRETE, An innovative working up process to produce high strength concrete on any construction site using a new admixture, Funded by the Commission of the European Communities, DG XII, CRAFT programme (BRE2.CT93.0883), 1994-96.

Rotura multiaxial de hormigones ordinarios y especiales (Multiaxial failure of normal and special concretes), Funded by Programa de Acción Integrada, DGICYT, Spain, and the British Council (HB-251), 1993-94.
Definición de criterios estructurales del cemento para alcanzar hormigones de alta resistencia y en la propuesta de metodologias de trabajo para fabricar industrialmente en centrales de hormigón preparado para este tipo de hormigones (Structural criteria for cement for high strength concretes and the proposal of methodology for fabricating these concretes in readymix plants), Funded by CICYT, Spain (PTR92-0078), 1993-95.

Estudio experimental y numérico de procesos de fractura en materiales cuasi-frágiles bajo condiciones de confinamiento multiaxial (Experimental and numerical study of the fracture processes in quasibrittle materials under multiaxial confinement), Funded by DGICYT, Spain (PB90-0598), 1992-95.

Dam Construction for the Long Term Sealing of HLW Repositories in Salt Formations, Funded by the Commission of the European Communities (RAD-WAS F12W-CT90-0033), 1991-94.

MAJOR INDUSTRY-FUNDED PROJECTS

Carbonation and Carbonation Induced Corrosion in Concretes with Various Supplementary Cementitious Materials, Funded by Holcim Innovation Center, RB22230068CEHOIC008459, 2022-26.

LCCA/LCA for the Comparison of Different Methods of Recycling Concrete, Funded by Global Cement and Concrete Association, RB21221551CEGCCA008190, 2021-25.

Optimization of E-Glass Reinforcement for Cementitious Matrices, Funded by Saint Gobain India, RB21221315CESAIN008190, 2021-23.

Development of Binders for E-Glass Reinforcement, Funded by Holcim Centre de Recherche, Innovation Center of Holcim Group, RB/20-21/0893/CE/LAFA/008190, 2021-25.

Good Practices for Construction, Maintenance and Repair of Concrete Bridges, Funded by Kerala Highway Research Institute, IC/19-20/CE/1099/KHRI/008459, 2020.

Fabrication and Characterization of Textile Reinforced Mortar, Funded by Saint-Gobain Research India, RB/17-18/CIE/029/SAIO/RAVG, 2017-19.

Characterization of Fibre Concretes for Possible Use in the Tunnel Lining of the Mumbai Metro, Funded by Bekaert Industries, RB/17-18/CIE/016/BEKA/RAVG, 2017.

Characterization of the Response of Self Compacting Concretes with Different Admixtures and Raw Materials from Various Regions in India, Funded by Chryso, France, RB/15-16/CIE/016/CHRY/ RAVG, 2016-19.

Development of Glass Fibre Reinforced Concretes for Flooring and Pavements, Funded by Owens-Corning, India, RB/12-13/CIE/017/OCVR/RAVG, 2012-14.

Study of Cracking and Creep Response of Fibre Reinforced Concrete Under Uniaxial and Biaxial Bending, Funded by Bekaert Industries, India, RB/11/12/CIE/005/BEKA/RAVG, 2011-13.

Third party testing of materials used in the civil works of the Chennai Metro Rail, Funded by CMRL, India, IC/11-12/CIE/134/CMRL/RAVG, 2011-12.

Performance evaluation of ultrafine slag, Funded by Ambuja Cement, India, RB/11-12/CIE/001/AMBU/RAVG, 2011-2012.

Long term performance of concrete, Funded by Lafarge Research Centre, France, CIE/10-11/177/LCDR/RAVG & CIE/10-11/176/LACI/RAVG, 2010-2014.

Technical consultancy for the India Tower Project (Mumbai), Funded by Larsen & Toubro ECC, India, IC/10-11/CIE/120/LXTL/RAVG, 2010-2011.

Technical consultancy for the concrete to be used in affordable housing projects, Funded by Value and Budget Housing, India, IC/10-11/CIE/005/VALB/RAVG, 2010-2011.

Advice on materials, quality and productivity issues for construction of telecommunication towers, Funded by GTL Ltd., India, IC/07-08/CIE/090/GTLL/KNSA, 2007-2008.

Technical consultancy for Oxfam supported tsunami rehabilitation projects, Funded by Oxfam (India) Trust, IC/05-06/CIE/158/OXFA/RAVG, 2006.

Technical consultancy for evaluating Coimbatore Airport culvert, Funded by Airport Authority of India, IC/05-06/CIE/148/IAAI/AMEH, 2006-07.

Development of low cost self compacting concrete, Funded by BASF Construction Chemicals (Italy), RB/05-06/CIE/001/DEGU/RAVG & RB/06-07/CIE/002/BCCX/RAVG, 2005-2008.

Evaluation of the variability of the results of the Marsh cone and mini-slump tests of cement paste, and the slump flow test of concrete, Funded by Univ. Poli. de Catalunya (Spain), RB/04-05/CIE/006/UPDC/RAVG, 2005.

Fabricación y utilización de hormigón autocompactable en la obra de los refuerzos de los revestimientos de los túneles de Can Magre y Puigcabrer (LAV) (Fabrication and use of self-compacting concrete in the strengthening of the linings in the Can Magre and Puigcabrer tunnels of the high speed train line, Funded by Corsan-Corviam (Spain), 2004-2005.

Utilización del hormigón autocompactable en la construcción de pilotes y muros pantalla (Utilization of self-compacting concrete en the construction of piles and retaining walls), Funded by Degussa (Spain), 2003-2004.

Optimización del proceso de fabricación y uso de hormigones con microsílice (Optimization of the fabrication process and use of silica fume concretes), Funded by Obrascón Huarte Lain, S.A. (Spain), 2002-2004.

Utilización de hormigón reforzado con fibras en dovelas de túneles (Use of fiber reinforced concrete in tunnel segments), Funded by UTE Línia 9 (Spain), 2002-2003.

Proyecto de mejora e innovación de productos Pamodin (Project for the improvement and innovation of Pamodin construction products), Funded by PAMODIN (Spain), 2002-2003.

Desarrollo de especificaciones pre-normativas de ensayos para la caracterización de las propiedades del estado fresco del hormigón autocompactable (Development of pre-standard specifications for the characterization of the properties of fresh self-compacting concrete, Funded by IECA (Spain), 2002-2003.

Optimizar la dosificación de cemento en periodos climáticos extremos (Optimization of cement dosage during extreme climatic conditions), Funded by Cementos Molins Industrial (Spain), 2002-2003.

Caracterización mecánica de hormigones neonatos (Characterization of very young concretes), Funded by NECSO (Spain), 2001-2003.

Caracterización del hormigón con un aditivo reductor de retracción (Characterization of concrete with a shrinkage reducing admixture), Funded by SIKA (Spain), 2001-2003.

Estudio de la reducción de la retracción del hormigón debido a la incorporación de nuevos aditivos químicos (Study of the reduction in the shrinkage of concrete due to the incorporation of new chemical admixtures), Funded by Bettor MBT (Spain), 2000-2002.

Study of concretes with shrinkage reducing admixtures, Funded by GRACE (Spain), 2000-2002.

Aplicación en el ámbito de la construcción de fibras metálicas de alambre trefilado y de recuperación (Application of cold drawn and scrap metal fibers in construction), Funded by RIMSA (Spain), 2000-2001.

Estudio relativo al diseño y proceso constructivo de paneles prefabricados de hormigón (Study of the design and construction processes related to prefabricated concrete panels), Funded by Eurosteel Technologies, S.A. (Spain), 1999-2000.

Estudio de un nuevo aditivo para reducir la retracción del hormigón (Study of a new admixture for reducing the shrinkage of concrete), Funded by GRACE, S.A. (Spain), 1998-99.

Caracterización experimental del comportamiento instantaneo y diferido de hormigones de altas prestaciones (Characterization of the short- and long-term behavior of high performance concretes), Funded by PAYMA, S.A. and FCC Construcción, S.A. (Spain), 1997-98.

Investigación y desarrollo sobre los hormigones de altas prestaciones con fibras metálicas (Research and development of high performance concretes with steel fibers), Funded by BEKAERT (Belgium), 1997-98.

Investigación sobre la compresión máxima en bielas por esfuerzo cortante en piezas prefabricadas de hormigón pretensado con armadura pretesas (Study of shear failure in prefabricated prestressed concrete beams), Funded by FEDECE (Spain), 1997-98.

El estudio del seguimiento en el comportamiento de las presas de Graus y Tabescán (Study of the current behavior of the Graus and Tabescan dams), Funded by Fuerzas Eléctricas de Cataluña, S.A. (Spain), 1995-98.

Hormigón de alta resistencia en edificios de altura (High strength concrete in high-rise buildings), Funded by Inmobiliaria Espacio, S.A. (Spain), 1995-96.

Proyecto de optimización de hormigones (Optimization of concrete), Funded by Fomento de Construcciones y Contratas, S.A. (Spain), 1995-97.

The above list does not include work related to retainer consultancy, product testing and certification.

KEYNOTE/INVITED LECTURES IN INTERNATIONAL CONFERENCES/WORKSHOPS

- "Towards viable structural use of textile reinforced cement-based elements in India", International Conference on Condition Assessment, Repair and Rehabilitation of Structures (CARRS 2023), IIT Hyderabad, 2023.
- "Technology Implementation as The Key Impact of Research: IIT Madras approach in the past two decades", 1st Interdisciplinary Symposium on Smart & Sustainable Infrastructures, Vancouver, B.C., Canada, 2023.
- "Development of Modular Textile Reinforced Concrete Elements", 4th International Congress on Materials & Structural Stability, Rabat, Morocco, 2023.
- "Evaluation of the Sustainability of Concrete: Implications for projects, decisions and policy", 37th Colombian National Congress of Engineering, Barranquilla, Colombia, 2023.
- "Design of Textile Reinforced Concrete for Sustainability", Second International Conference on Construction Materials and Structures (ICCMS-2022), NIT Calicut (online), 2022.
- "Low Carbon Construction with Concrete", Golden Jubilee Brazilian Congress on Concrete IBRACON, Brasilia, 2022.
- "Sustainability Assessment of Concrete with Blended Cementitious Binders", 3rd International Congress on Materials & Structural Stability (CMSS), Eco-Friendly Sustainable and Energy Efficient Materials & Constructions, Rabat, Morocco (online), 2021.
- "On The Structural Design of Textile Reinforced Concrete", International Conference on Cement-Based Materials Tailored for a Sustainable Future, Istanbul, Turkey (online), 2021.
- "Blended Cements for Sustainable Concrete", 3rd International Conference on Engineering Challenges in Gulf Countries, Kuwait (online), 2021.
- "Evaluation of concrete with composite cements in terms of their sustainability and durability", IX International Congress of the Argentine Association of Concrete Technology (AATH), La Plata, Argentina (online), 2020.
- "Sustainability through Durability: Assessment of Concretes with Blended Cements", 15th International Conference on Durability of Building Materials and Components, Barcelona, Spain (online), 2020.
- "Sustainability Assessment Framework Based on Durability and Life Cycle Assessment", Gordon Research Conference, Advanced Materials for Sustainable Infrastructure Development: Cutting-Edge Developments and Characterization of Cement-Based Materials, Ventura, CA, USA, 2020.
- "Life Cycle Assessment of LC3: Parameters and Prognoses", 3rd International Conference on Calcined Clays for Sustainable Concrete, Delhi, 2019.
- "Blended cements for sustainable concrete", XV Congreso Latino-americano de Patología de Construcción & XVII Congreso de Control de Calidad en la Construcción (CONPAT 2019), Tuxtla Gutiérrez, Chiapas, Mexico, 2019.
- "Fatigue Response of Cracked Fibre Reinforced Concrete", International Conference on Innovative Materials for Sustainable Civil Engineering, Nanjing, China, 2019.
- "Revisiting the Benefits and Limitations of Supplementary Cementitious Materials in Concrete", 3rd R.N. Raikar Memorial International Conference on Advances in Science & Technology of Concrete, Mumbai, 2018.
- "Service Life and Life-Cycle Assessment of Reinforced Concrete with Fly ash and Limestone Calcined Clay Cement", Sixth International Conference on Durability of Concrete Structures, Leeds, United Kingdom, 2018.
- "Considerations of Sustainability in the Mixture Proportioning of Concrete for Strength and Durability", 2nd International Workshop on Durability and Sustainability of Concrete Structures, Moscow, Russia, 2018.

- "Concrete with Limestone Calcined Clay Cement and Other Admixtures", RILEM Intnl. Seminar on Advances in Durability and New Materials for Construction, Barcelona, Spain, 2018.
- "Overview of Mechanical and Durability Properties of Concretes with LC3", 2nd Intnl. Conf. on Calcined Clays for Sustainable Concrete, Havana, Cuba, 2017.
- "Recientes Avances en la Investigación sobre Cementos con Arcilla Calcinada y Caliza, y su Uso" (Recent advances in the research on LC3 and its usage), XIV Congreso Latino-americano de Patología de Construcción & XVI Congreso de Control de Calidad en la Construcción (CONPAT 2017), Asunción, Paraguay, 2017.
- "Recent Research on Limestone Calcined Clay Cement in India", through video-conference, 7th Intnl. Congress of the Argentinian Association of Concrete Technology, Salta, Argentina, 2016.
- "Factors Influencing Creep of Cracked Fibre Reinforced Concrete: What we think we know & what we do not know", International RILEM Workshop on Creep Behaviour in Cracked Sections of Fibre Reinforced Concrete, Valencia, Spain, 2016.
- "Performance and Application of Concrete with Combinations of Amorphous Metallic and Conventional Steel Fibres", Fourth Asian Conference on Ecstasy in Concrete, Kolkata, India, 2015.
- "Effective Use of Admixtures for More Sustainable Concrete Technology", 55th Brazilian Concrete Congress, Gramado, Rio Grande do Sul, Brazil, 2013.
- "Effect of Fly Ash Based Portland Pozzolana Cement on Chloride Induced Corrosion of Reinforcement in Concrete", Intnl. Conf. on Innovations in Concrete, Hyderabad, India, 2013.
- "More Sustainable Concrete Technology Through the Effective Use of Superplasticizers", Third International Conference on Sustainable Construction Materials and Technologies, Kyoto, Japan, 2013.
- "Effective Use of Superplasticizers for Sustainable Concrete Technology", Concrete 2011: Building a Sustainable Future, Perth, Australia, 2011.
- "On the Rheological Characterization of Superplasticized Cement Paste", Intnl. Conf. on Advances in Concrete, Structures and Geotechnical Engineering, Pilani, Rajasthan, India, 2009.
- "Cement-Superplasticizer Interaction and Its Effect on the Flow Behaviour of Superplasticized Paste and Concrete", 3rd Symp. on Chemical Admixtures for Concrete, Ankara, Turkey, 2009.
- "Evaluation of the Robustness of Self Compacting Concrete", 1st Spanish Conf. on Self Compacting Concrete, Valencia, Spain, 2008.
- "Application of Self-Compacting Concrete: Recent experience and challenges that remain", 2nd Intnl. Conf. on Advances in Concrete and Construction, Hyderabad, India, 2008.
- "Self-Compacting Concrete", Structural Engineers World Congress, Bangalore, India, 2007.
- "On the Utilization of Self-Compacting Concrete", Intnl. Conf. on Advances in Concrete and Construction, Hyderabad, India, 2004.
- "Steel Fiber Reinforced Concrete for the Barcelona Metro Line 9 Tunnel Lining", Sixth Intnl. RILEM Symp. on Fibre-Reinforced Concretes, Varenna, Italy, 2004
- "Recent Trends in Concrete Technology", Intnl. Conf. on Recent Trends in Concrete Technology and Structures, Coimbatore, India, 2003.
- "High-Strength Self-Compacting Concrete with Fly Ash - Possibilities for Street Furniture", 2nd Intnl. Symposium & Exhibition on Street Furniture, Istanbul, Turkey, 2003.
- "New Chemical Admixtures for Concrete: Effectiveness and practical implications", Intnl. Conf. on Civil Engineering, Indian Institute of Science, Bangalore, India, 2001.
- "Use of Advanced Chemical Admixtures in Concrete: Optimization, Characterization and Utilization of the Concrete", IV EPUSP Symposium on Concrete Structures, São Paulo, Brazil, 2000.
- "Utilization of New Chemical Admixtures in Concrete: Implications for Construction Practice", 42nd Brazilian Congress on Concrete (IBRACON), Fortaleza, Brazil, 2000.
- "Creep and Shrinkage of High-Performance Concretes", Fifth Intnl. RILEM Symp. on Creep and Shrinkage of Concrete, Barcelona, Spain, 1993.

PATENTS & OTHER REGISTERED INTELLECTUAL PROPERTY

Mortar with rubber (mortar/concrete with aggregates totally/partially substituted by rubber, and having low density and elastic modulus), Patent no. ES 2217930 B1 granted in Spain on 24th January 2006, date of filing: 18th June 2002, Inventors: A. Aguado, T. Garcia, L. Agulló and R. Gettu.

An apparatus for cast-in-place strengthening of structural members using textile reinforced concrete and method thereof, Patent no. 432169, Application no. 2339/DEL/2015, date of filing: 30/07/2015, granted in India on 18/05/2023, Inventors: S. Gopinath, N.R. Iyer and R. Gettu.

Flowable, pre-blended cementitious grout with resistance to bleeding and the formation of softgrout for structural and geotechnical applications, Patent no. 493697, Application no. 201941021719, IITM IDF 1845, date of filing: 31/05/2019, granted in India on 03/01/2024, Inventors: R.G. Pillai, M. Santhanam, R. Gettu and M.K. Mohan.

sigw-Concrete© (Software), IITM IDF 1957, copyright registered in India under No. SW-13538/2020, date of filing: 22/11/2019, Registry diary No. 18581/2019-CO/SW, Authors: S.J. Stephen, R. Gettu and B. Raphael.

Vacuum system, IITM IDF 2381, patent filed in India, date of filing: 27/06/2022, Application with ref. no. 202241036811 and application no. E-137/5372/2022/CHE awaiting examination, Inventors: T.M. Muruganandam, S.R. Chakravarthy, R. Gettu, S.S. Patole, L. Kabdal, C. Anish, A. Bansal, V. Jain, A. Patil, and R. Sasisekaran.

SPADIF (Software), IITM IDF 2397, copyright filed, Authors: R. Gettu, S.K. Nayar and G. Chaudhari.

ONLINE CONFERENCES/WORKSHOPS/COURSES ORGANIZED

OC03. *Materials and Value Chains for Sustainable, Inclusive, and Resilient Urbanisation in Africa*, Virtual Workshop organized by BAM, IIT Madras, University of Lagos and RILEM, January 23rd 2021.

OC02. *Resilience of Concrete Construction*, Online One-day Workshop organized by IIT Madras, May 23rd 2020.

OC01. *Recent Advances in the Science and Technology of Concrete*, Online Workshop organized by IIT Madras, May 2nd 2020.

PUBLICATIONS

Researcher IDs

ORCID iD: orcid.org/0000-0002-1670-637X
Scopus Author ID: 7004531840
Web of Science ResearcherID: C-7785-2012

Refereed Journal Papers

RJ133. A.S. Basavaraj and R. Gettu, "Primary Life Cycle Inventory Data for Cement Production, with Relevance to Sustainability Assessment - Indian Cases", *Data in Brief*, 110258, DOI: 10.1016/j.dib.2024.110258, 5 p. (2024).

RJ132. X. Liu, V. Asghari, C.M. Lam, S.-C. Hsu, D. Xuan, S.C. Angulo, V.M. John, A.S. Basavaraj, R. Gettu, J. Xiao and C.S. Poon, "Discrepancies in Life Cycle Assessment (LCA) Applied to Concrete Waste Recycling: A Structured Review", *J. Cleaner Production*, 140155, DOI: 10.1016/j.jclepro.2023.140155, 35 p. (2024).

RJ131. S. Paul and R. Gettu, "Engineering the Tensile Response of Glass Textile-Reinforced Concrete for Thin Elements", *Sustainability*, 15(19), 14502, https://doi.org/10.3390/su151914502, Special Issue "Circular Economy in the Construction Sector" (ISSN 20711050), 16 p. (2023).

RJ130. R. Prajapati, S.J. Stephen, R. Gettu and S. Singh, "Effect of Thermomechanically-Beneficiated Recycled Aggregates on the Mechanical and Durability Characteristics of Concrete", *The Indian Concr. J.*, Vol. 97, No. 10, pp. 9-19 (2023).

RJ129. S. Paul, R. Gettu, D.N. Arnepalli and R. Samanthula, "Experimental Evaluation of the Durability of Glass Textile-Reinforced Concrete", *Construction and Building Materials*, 406 133390, 14 p. (2023).

RJ128. S. Paul, K. Murugan, R. Samanthula, A.S. Basavaraj, S.J. Stephen, R. Gettu and R.L. Zerbino, "Development of Structural Forms Using Textile Reinforced Concrete", *The Indian Concr. J.*, Vol. 97, No. 8, pp. 43-54 (2023).

RJ127. A.S. Basavaraj, H. Muni, Y. Dhandapani, R. Gettu and M. Santhanam, "Limestone-Calcined Clay (LC2) as a Supplementary Cementitious Material for Concrete", *RILEM Technical Letters*, 8: 12-22, DOI: 10.21809/rilemtechlett.2023.172 (2023)

RJ126. S. Rengaraju, R.G Pillai, and R. Gettu, "Input parameters and nomograms for service life-based design of reinforced concrete structures exposed to chlorides", *Structures*, 56 104847, 14 p. (2023).

RJ125. A. Sharma, A.S. Basavaraj, P. Chaunsali and R. Gettu, "Calcium Sulfoaluminate Cement Manufacturing in India – Prospects and Prognosis of Environmental Impacts", *ACI Materials J.*, V. 120, No. 1, pp. 17-28 (2022).

RJ124. M.K. Mohan, S. Manohar, R.G. Pillai, M. Santhanam and R. Gettu, "High-performance Cementitious Grouts for Post-Tensioned Concrete Systems – Performance specifications and prototype testing", *Construction and Building Materials* 368 130345, DOI: 10.1016/j.conbuildmat.2023.130345, 12 p. (2023).

RJ123. S. Khute, S. Singh, R. Zerbino and R. Gettu, "Fresh-State Behaviour of Paving Concrete Reinforced with Discarded Coconut Coir Fibres", *The Indian Concr. J.*, Vol. 96, No. 12, pp. 5-13 (2022).

RJ122. R. Prajapati, R. Gettu, S. Singh, and B.K.J. Rathod, "A Novel Beneficiation Process for Producing High-Quality Recycled Concrete Aggregates Using Concentrated Solar Energy", *Materials and Structures*, 55:233, DOI: 10.1617/s11527-022-02065-w, 11 p. (2022).

RJ121. S. Gunthe and R. Gettu, "A New Index for Assessing Faculty Research Performance in Higher Educational Institutions of Emerging Economies such as India", *Scientometrics*, DOI: 10.1007/s11192-022-04460-0, 18 p. (2022).

RJ120. S.K. Nayar, A. Premavathy, M. Santhanam, R. Gettu, and P. Boustingorry, "Assessment of a Methodology for Design of SCC Mixes by Robustness Studies", *The Indian Concr. J.*, Vol. 96, No. 4, pp. 49-58 (2022).

RJ119. A.S. Basavaraj, and R. Gettu, "Life Cycle Assessment as a Tool in Sustainability Assessment of Concrete Systems: Why and How?", *The Indian Concr. J.*, Vol. 96, No. 4, pp. 8-27 (2022).

RJ118. T. Sakthivel, R. Gettu, and R.G. Pillai, "Adjustment of RILEM B4 model parameters for better prediction of the shrinkage response of blended cement concrete", *The Indian Concr. J.*, Vol. 95, No. 10, pp. 51-57 (2021).

RJ117. T. Sakthivel, R. Gettu, and R.G. Pillai, "Drying Shrinkage of Concrete with Blended Cementitious Binders: Experimental Study and Application of Models", *The Indian Concr. J.*, Vol. 95, No. 10, pp. 34-50 (2021).

RJ116. S. Rathnarajan, B. S. Dhanya, R.G. Pillai, R. Gettu and M. Santhanam, "Carbonation Model for Concretes with Fly Ash, Slag, and Limestone Calcined Clay - Using Accelerated and Five - Year Natural Exposure Data", *Cement and Concrete Composites*, 126 104329, DOI: 10.1016/j.cemconcomp.2021.104329, 13 p. (2022); online 2021.

RJ115. R. Prajapati, R. Gettu and S. Singh, "Thermomechanical Beneficiation of Recycled Concrete Aggregates (RCA)", *Construction and Building Materials*, 310 125200, DOI: 10.1016/j.conbuildmat.2021.125200, 10 p. (2021).

RJ114. S. Gopinath, N.R. Iyer and R. Gettu, "Non-Iterative Model for Analysis of RC Beams Strengthened with Textile Reinforced Concrete", *Australian J. of Structural Engineering*, AJSE 1962618, DOI: 10.1080/13287982.2021.1962618, 12 p. (2021).

RJ113. S.J. Stephen, E. Zangelmi Júnior, R. Gettu, A. Aguado and S. Vaishnav Kumar, "Determination of the Complete Stress-Strain Response of Concrete Under Uniaxial Compression", *The Indian Concr. J.*, Vol. 95, No. 9, pp. 1-13 (2021).

RJ112. S. Bhattacherjee, A.S. Basavaraj, A.V. Rahul, M. Santhanam, R. Gettu, B. Panda, E. Schlangen, Y. Chen, O. Copuroglu, G. Ma, L. Wang, M.A.B. Beigh and V. Mechtcherine, "Sustainable Materials for 3D Concrete Printing", *Cement and Concrete Composites*, 122, 104156; DOI: 10.1016/j.cemconcomp.2021.104156, 14 p. (2021).

RJ111. P. Mohandoss, R.G. Pillai and R. Gettu, "Determining Bond Strength of Seven-Wire Strands in Prestressed Concrete Structures", *Structures*, Vol. 33, pp. 2413-2423 (2021).

RJ110. M.K. Mohan, R.G. Pillai, M. Santhanam and R. Gettu, "High-Performance Cementitious Grout with Fly Ash for Corrosion Protection of Post-Tensioned Concrete Structures", *Construction and Building Materials*, 281, 122612 (2021).

RJ109. S. Rengaraju, R. Pillai, R. Gettu and L. Neelakantan, "Effect of Test Methods on Corrosion Phenomena of Steel in Highly Resistive Concrete Systems and Data Interpretations", *CORROSION*, 77 (4), pp. 445–459, DOI: 10.5006/3705 (2021).

RJ108. R.G. Pillai, R. Gettu and M. Santhanam, "Use of Supplementary Cementitious Materials (SCMs) in Reinforced Concrete Systems – Benefits and limitations", *Rev. ALCONPAT*, 10(2), DOI: 10.21041/ra.v10i2.477, pp. 147-164 (2020).

RJ107. S.J. Stephen and R. Gettu, "Fatigue Fracture of Fibre Reinforced Concrete in Flexure", *Mater. Struct.*, 53, 56, DOI: 10.1617/s11527-020-01488-7, 26 p. (2020).

RJ106. K. Nithya Nair, M. Haneefa, M. Santhanam and R. Gettu, "A Study on Fresh Properties of Limestone Calcined Clay Blended Cementitious Systems", *Construction and Building Materials*, 254 119326, 12 p. (2020).

RJ105. Y. Dhandapani, M. Santhanam, R. Gettu and R.G. Pillai, "Perspectives on Blended Cementitious Systems with Calcined Clay-Limestone Combination for Sustainable Low Carbon Cement Transition", *The Indian Concr. J.*, V. 94, No. 2, pp. 31-45 (2020).

RJ104. S.K. Nayar and R. Gettu, "Mechanistic–Empirical Design of Fibre Reinforced Concrete (FRC) Pavements Using Inelastic Analysis", *Sādhanā*, 45: 19, DOI: 10.1007/s12046-019-1255-1, 7 p. (2020).

RJ103. S. Prakasan, S. Palaniappan and R. Gettu, "Study of Energy Use and CO_2 Emissions in the Manufacturing of Clinker and Cement", *Journal of The Institution of Engineers (India): Series A (IEIA)*, DOI: 10.1007/s40030-019-00409-4, 12 p. (2019).

RJ102. S.J. Stephen and R. Gettu, "Rate-Dependence of the Tensile Behaviour of Fibre Reinforced Concrete in the Quasi-Static Regime", *Materials and Structures*, 52: 107, DOI: 10.1617/s11527-019-1405-2, 9 p.; with Supplementary Material published online, 6 p. (2019).

RJ101. Q.H. Vu, G. Pham, A. Chonier, E. Brouard, S. Rathnarajan, R. Pillai, R. Gettu, M. Santhanam, F. Aguayo, K.J. Folliard, M.D. Thomas, T. Moffat, C. Shi and A. Sarnot, "Impact of Different Climates on the Resistance of Concrete to Natural Carbonation", *Construction and Building Materials*, V. 216, pp. 450-467 (2019).

RJ100. B.S. Dhanya, S. Rathnarajan, M. Santhanam, R.G. Pillai and R. Gettu, "Carbonation and Its Effect on Microstructure of Concrete with Fly Ash and Ground Granulated Blast Furnace Slag", *The Indian Concr. J.*, V. 93, No. 4, pp. 10-21 (2019).

RJ99. T. Sakthivel, R. Gettu and R.G. Pillai, "Compressive Strength and Elastic Modulus of Concretes with Fly Ash and Slag", *J. Institution of Engineers (India): Series A*, DOI: 10.1007/s40030-019-00376-w, 10 p. (2019).

RJ98. S. Jose and R. Gettu, "Comparison of Flexural Toughness Parameters for Fibre Reinforced Concrete from Notched and Unnotched Beam Tests", *The Indian Concr. J.*, V. 93, No. 2, pp. 23-30 (2019).

RJ97. R. Gettu, A. Patel, V. Rathi, S. Prakasan, A.S. Basavaraj, S. Palaniappan and S. Maity, "Influence of Supplementary Cementitious Materials on the Sustainability Parameters of Cements and Concretes in the Indian Context", *Materials and Structures*, DOI: 10.1617/s11527-019-1321-5, 52:10, 11 p. (2019).

RJ96. R.G. Pillai, R. Gettu, M. Santhanam, S. Rengaraju, Y. Dhandapani, S. Rathnarajan and A.S. Basavaraj, "Service Life and Life Cycle Assessment of Reinforced Concrete Systems with Limestone Calcined Clay Cement (LC3)", *Cement and Concrete Research*, DOI: 10.1016/j.cemconres.2018.11.019, V. 118, pp. 111-119 (2019).

RJ95. R. Gettu, R.G. Pillai, M. Santhanam, A.S. Basavaraj, S. Rathnarajan and B.S. Dhanya, "Sustainability-Based Decision Support Framework for Choosing Concrete Mixture Proportions", *Mater. Struct.*, DOI: 10.1617/s11527-018-1291-z, 51:165, 16 p. (2018).

RJ94. S.J. Stephen, B. Raphael, R. Gettu and S. Jose, "Determination of the Tensile Constitutive Relations of Fiber Reinforced Concrete Using Inverse Analysis", *Construction and Building Materials*, DOI: 10.1016/j.conbuildmat.2018.11.014, available online in 2018, V. 195, pp. 405-414 (2019).

RJ93. B.S. Dhanya, M. Santhanam, R. Gettu and R.G. Pillai, "Performance Evaluation of Concretes Having Different Supplementary Cementitious Material Dosages Belonging to Different Strength Ranges", *Construction and Building Materials*, DOI: 10.1016/j.conbuildmat. 2018.07.185, V. 187, pp. 984-995 (2018).

RJ92. S. Gopinath, R. Gettu and N.R. Iyer, "Influence of Prestressing the Textile on the Tensile Behaviour of Textile Reinforced Concrete", *Mater. Struct.*, DOI: 10.1617/s11527-018-1194-z, 51:64, 12 p. (2018).

RJ91. S.J. Stephen, R. Gettu, L.E.T. Ferreira and S. Jose, "Assessment of the Toughness of Fibre-Reinforced Concrete Using the R-Curve Approach", *Sādhanā*, DOI: 10.1007/s12046-018-0838-6, 43:46, 6 p. (2018).

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RJ86. B. Sangoju, R. Gettu and B.H. Bharatkumar, "Study of the Parameters Governing the Chloride Induced Corrosion of Reinforcement Steel in Cracked Concrete", *The Indian Concr. J.*, V. 91, No. 3, pp. 37-48 (2017).

RJ85. S.K. Nayar and R. Gettu, "Design Methodology for Fibre Reinforced Concrete Slabs-on-Grade Based on Inelastic Analysis", *The Indian Concr. J.*, V. 91, No. 3, pp. 26-36 (2017).

RJ84. G. Ramesh, R. Gettu and B.H. Bharatkumar, "Modified Split Disk Test for Characterization of FRP Composites", *J. of Struct. Engng.*, V. 43, No. 5, pp. 477-487 (2017).

RJ83. S. Gopinath, N.R. Iyer and R. Gettu, "Finite Element Analysis of RC Beams Strengthened with Textile Reinforced Concrete", *J. of Struct. Engng.*, V. 43, No. 5, pp. 454-460 (2017).

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CN06. R. Gettu and A. Pacios, "Mix Design, Characterization and Utilization of Self-Compacting concrete: Practical implications", *Corso avanzato sul tema Il Calcestruzzo Autocompactante* (Milan), Politecnico di Milano & Università degli Studi di Bergamo, Italy, 11 p. (2003).

CN05. R. Gettu and L. Agulló, "Desarrollo de hormigones autocompactables de alta resistencia", *Jornada sobre Formigó Autocompactable* (Barcelona), Institut del Ciment (IECA), Barcelona, pp. 41-53 (2003).

CN04. A. Pacios and R. Gettu, "Métodos y ensayos de caracterización de los hormigones autocompactables", *Jornada sobre Formigó Autocompactable* (Barcelona), Institut del Ciment (IECA), Barcelona, pp. 27-40 (2003).

CN03. R. Gettu, P.C.C. Gomes, L. Agulló and C. Bernad, "Desarrollo de hormigones autocompactables de alta resistencia", *Jornada Técnica: Hormigón autocompactable, un hormigón para el siglo XXI* (Murcia), IECA Levante, Valencia, pp. 25-36 (2003).

CN02. R. Gettu, P.C.C. Gomes, L. Agulló and C. Bernad, "Desarrollo de hormigones autocompactables de alta resistencia", *Jornada Técnica: Hormigón autocompactable, un hormigón para el siglo XXI* (Valencia), IECA Levante, Valencia, pp. 15-26 (2003).

CN01. R. Gettu, L. Agulló, B. Barragán, P.C.C. Gomes, M.A. Martín and J. Mora, "Avances recientes en la caracterización de hormigones", *XV Curso de Estudios Mayores en la Construcción. Nuevas Tendencias en el Campo de los Hormigones*, Instituto de Ciencias de la Construcción Eduardo Torroja, Madrid (2001).

Own Theses

Concrete and Rock Fracture, and the Influence of Loading Rate, Ph.D. Thesis, Northwestern University, Evanston, Illinois, USA, defended in 1990, degree awarded in 1992 (Advisor: Professor Zdeněk P. Bažant).

Study of Stress Concentration and Stress Interference in a Transversely Isotropic Body Under Uniaxial Tension - A Finite Element Approach, M.S. Thesis, Marquette University, Milwaukee, Wisconsin, USA, 1986 (Advisor: Professor Stephen M. Heinrich).

DOCTORAL THESES ADVISED TO COMPLETION

Indian Institute of Technology Madras (Chennai, India)

Sujatha JOSE, Thesis: Study of Long-Term Performance of Fibre Reinforced Concrete, 2023.
Rohit PRAJAPATI, Thesis: Thermomechanical beneficiation of waste concrete for recycling in structural grade concrete, 2023.
Anusha S. BASAVARAJ, Thesis: Assessment of sustainability parameters for concrete systems, 2022.
Stefie J. STEPHEN, Thesis: Incorporation of time-dependent fracture behaviour in the structural design of fibre reinforced concrete elements, 2019.
T. SAKTHIVEL, Thesis: Effect of the incorporation of slag, fly ash and limestone calcined clay on the compressive strength, elastic modulus and shrinkage of concrete, 2019.
Smitha GOPINATH, Thesis: Development of fabric reinforced concrete for flexural strengthening of RC beams, 2017.
Sunitha K. NAYAR, Thesis: Design of fibre reinforced concrete slabs-on-grade and pavements, 2016.
Elson JOHN, Thesis: Effect of temperature and cement characteristics on cement-superplasticizer interaction, 2014.
Sangoju BHASKAR, Thesis: Study of chloride induced corrosion of reinforcement steel in cracked concrete, 2013.
V. PONMALAR, Thesis: Effect of strengthening of concrete structures using glass fiber reinforced polymer, 2010.
C. JAYASREE, Thesis: Study of cement-superplasticizer interaction and its implications for concrete performance, 2009.
K. NARASIMHULU, Thesis: Characterization and evaluation of natural and calcined zeolite for their use in high performance concrete, 2007.

Universitat Politècnica de Catalunya (Barcelona, Spain)

Claudia Jenny DE LA CRUZ, Thesis: Development and application of medium strength self compacting concrete, 2007.
Paulo Cesar C. GOMES, Thesis: Optimization and characterization of high-strength self-compacting concrete, 2002.
Carlos AIRE, Thesis: Estudio experimental del comportamiento del hormigón confinado sometido a compresión (Experimental study of behavior of confined concrete subjected to compression), 2002.
José MORA, Thesis: Study of restrained plastic shrinkage cracking in conventional and high performance concretes, 2002.
Bryan E. BARRAGÁN, Thesis: Failure and toughness of steel fiber reinforced concrete under tension and shear, 2002.
Joana RONCERO, Thesis: Effect of superplasticizers on the behavior of concrete in the fresh and hardened states: Implications for high performance concretes, 2000.
Ernesto ZANGELMI, Thesis: Caracterización del comportamiento de hormigones de altas prestaciones con y sin fibras metálicas a compresión uniaxial (Characterization of the behavior of high performance concretes with and without steel fibers under uniaxial compression), 1999.
Héctor SALDÍVAR, Thesis: Flexural toughness characterization of steel fiber reinforced concrete - Study of experimental methodologies and size effects, 1999.

Víctor O. GARCÍA-ÁLVAREZ, Thesis: Estudio de la fractura en modo mixto de los materiales cuasifrágiles: Aplicación al hormigón convencional y al hormigón de alta resistencia (Study of mixed mode fracture in quasi-brittle materials: Application to conventional and high strength concrete), 1997.

Sergio CARMONA, Thesis: Caracterización de la fractura del hormigón y de vigas de hormigón armado (Characterization of the fracture of concrete and reinforced concrete beams), 1997.

Gilberto CARBONARI, Thesis: Comportamiento mecánico instantáneo y diferido del hormigón de alta resistencia (Short- and long-term mechanical behavior of high strength concrete), 1996.

Berenice M. TORALLES-CARBONARI, Thesis: Estudio paramétrico de variables y componentes relativos a la dosificación y producción de hormigones de altas prestaciones (Parametric study of the variables and components related to the mix design and production of high strength concretes), 1996.

MASTERS-LEVEL THESES/PROJECTS ADVISED TO COMPLETION

***Indian Institute of Technology Madras* (Chennai, India)**

M.S.: Someen Khute, 2023; S. Prakasan, 2019; Nithya Nair V.G., Aswathy Rajendran, 2018; G. Ramesh, 2017; Moghul Sirajuddin, 2016; Ajay Krishnan, 2014; G. Rakesh, 2010.

M.Tech.: Sruthi Sreeram, 2024; Jestin Baby P., Yogesh Kumar, 2023; Pravin Sudhir Patil, Suraj Meena, Surendra Babu, 2022; Chaitanya P., 2019; S.R. Srikar Srivatsav, G. Purandhar Sai, 2018; Krishna R. Sivakumar, K. Gopakumar, Jyotiprakash Meena, Saurabh Verma, Soumen Sen, 2017; Dilpreet Singh, S. Vaishnav Kumar, Sri Devi Satya Priya Adapa, Aanchal Patel, Gokul Dev, 2016; Devarsh Kumar, Ravi Shankar, 2015; Prithin Kuruvila, Madhubanti Deb, 2014; S.P. Balaji, Vandana Padmanabhan, Harkeerat Singh, 2013; K. Srinath, Amit Patnaik, Poornima Kurup, U. Kadambari, Ashwin Georgy, Megha Waikar, 2012; Griffith D'costa, Prashant Choudhary, Angad Sahni, Sriram M., Prem Anand, 2011; R. Manikanth, P.M. Naseela, M. Palanisamy, 2010; Betiglu Eshete, Sivaprakasam M., 2009; Muhammad Salman, Thejas, Varun Agrawal, 2008; Aloke Chandra Das, Arun V. Kunnel, Manogya Pothapragada, Sushant Shirsat, 2007; Ashwini Mahisbadwe, Sheik Nawaz Shareef, J. Vijay Kumar, Balwant K. Singraul, 2006.

***Politecnico di Milano* (Milan, Italy)**

I. Albertini, 2014.

***Universitat Politècnica de Catalunya* (Barcelona, Spain)**

M. Bravo, 2004; C. Ferrer, 2003; X. González, 2002; J. Izquierdo, 2002; R. Fernández, 2002; D. Domingo, 2002; X. Arbués, 1999; A. Margalef, 1998; M. Mateos, 1998; V. Aceña, 1996; E. Zabala, 1995; F. Ullod, 1994.

***University of Sheffield* (United Kingdom)**

H. Collie, 2003; O. Hoffman, 2002; W. Preston, 2001; I. Burnett, 2001.

***Università degli Studi di Brescia* (Brescia, Italy)**

F. Passini, 2003.