

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
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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

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.
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, Research Advisory Board, Hindustan Institute of Technology & Science, 2025-
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
Associate Editor, Revista ALCONPAT, 2021-
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 Bhubaneswar, 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.
- Highest award of Honorary Member by RILEM, 2024; Fellow since 2012.
- Elected Foreign Member of the Russian Academy of Engineering, 2019.
- Co-Chair of the Gordon Research Conference on Advanced Materials for Sustainable Infrastructure Development Cement Based Materials, Ventura Beach, California, USA, 2024.
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- Lifetime Achievement Award 2024 from the Indian Cement Review during the Cement Expo 2025 in Hyderabad on 6th March 2025 (<https://indiancementreview.com/2025/04/21/indian-cement-review-awards-2024-25/>).
- 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.

- 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., 2013.
- Honorary Chairman, International RILEM Workshop on Creep Behaviour in Cracked Sections of Fibre Reinforced Concrete, 9-10 March 2016, Valencia, Spain.
- 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.
- 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.
- School of Civil Engineering (Barcelona) Award for Outstanding Achievements, 2003.
- 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)

Sustainable Concrete Pavements Using High Volumes of Construction, Demolition, and Industrial Wastes as Constituent Replacements (ECOPAVE), Funded by the Indo-German Science and Technology Centre, under IGSTC 2+2 Scheme as R&D Project IGSTC/2+2 Call 2023/ECOPAVE/56/2024-25/150 (SP24250841CEIGST008100), 2024-27.

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 Tecnologías 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 in 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 metodologías 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

Development of Glass Fibre Reinforced Polymer (GFRP) Structural Sections, Funded by Indus Towers, CR24251689CEINDT008190, 2025-26.

Design of E-Glass Textile Reinforced Panels with Cementitious Matrices, Funded by Saint Gobain India, RB24250695CESAIN008190, 2024-26.

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 in the construction of piles and retaining walls), Funded by Degussa (Spain), 2003-2004.

Optimización del proceso de fabricación y uso de hormigones con microsílíce (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 Línía 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 treñado 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 instantáneo 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

- "Development of robust design and quality assurance procedures for precast tunnel lining segments of fibre reinforced concrete", International Symposium - Innovative World of Concrete (IWC-24) on Concrete Construction: Present and Future, Kolkata, 2024.
- "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 Intl. Seminar on Advances in Durability and New Materials for Construction, Barcelona, Spain, 2018.
- "Overview of Mechanical and Durability Properties of Concretes with LC3", 2nd Intl. 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 Intl. 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", Intl. 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", Intl. 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 Intl. 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", Intl. Conf. on Advances in Concrete and Construction, Hyderabad, India, 2004.
- "Steel Fiber Reinforced Concrete for the Barcelona Metro Line 9 Tunnel Lining", Sixth Intl. RILEM Symp. on Fibre-Reinforced Concretes, Varenna, Italy, 2004
- "Recent Trends in Concrete Technology", Intl. 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 Intl. Symposium & Exhibition on Street Furniture, Istanbul, Turkey, 2003.
- "New Chemical Admixtures for Concrete: Effectiveness and practical implications", Intl. 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 Intl. 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 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 for High-Speed Transportation, IITM IDF 2381, patent filed in India, date of filing: 27/06/2022, Application with ref. no. 202241036811 in Amended 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 registered in India under SW-19208/2024, date of filing: 7/02/2024, Registry diary No. 4336/2024-CO/SW, Authors: R. Gettu, S.K. Nayar and G. Chaudhari.

Fine-grained, carbonatable cementitious matrices with alternative binders and locally-sourced aggregates for durable glass-reinforced concrete, IITM IDF 3031, patent filed in India, date of filing: 16/09/2024, Application with ref. no. 202441070021 awaiting examination, Authors: R. Gettu, S.K. Nayar and V.C.S.S. Kusumanchi.

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

- RJ137. R. Samanthula, R. Gettu and S. Paul, "Experimental evaluation of size effect on fracture response of glass textile reinforced concrete", *Materials and Structures*, 58:54 DOI: 10.1617/s11527-025-02584-2, 15 p. (2025).
- RJ136. U. Hule, S. Rathnarajan, R.G. Pillai, R. Gettu and M. Santhanam, "10-year natural carbonation data of concretes with limestone, fly ash, volcanic ash, and slag and exposed to tropical climate in India", *Data in Brief*, V. 57, 111006, DOI: 10.1016/j.dib.2024.111006, 6 p. (2024).
- RJ135. V. Haripan, R. Gettu and M. Santhanam, "Assessment of the CO₂ sequestration potential of waste concrete fines", *Materials and Structures*, 57:244, DOI: 10.1617/s11527-024-02531-7, 13 p. (2024).
- RJ134. R. Samanthula, R. Gettu and S. Paul, "Effect of the End Conditions on the Response of Glass Textile Reinforced Cementitious Composites under Uniaxial Tension", *Materials and Structures*, 57:140, DOI: 10.1617/s11527-024-02413-y, 16 p. (2024).

- 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*, V. 54, 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); also, chapter in *Circular Economy in the Construction Sector*, Guest Editors: A.C. Maury-Ramirez and N. De Belie, DOI: 10.3390/books978-3-7258-3961-2, pp. 201-2016 (2025).
- 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. Bhattacharjee, 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 CO₂ 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", *Sādhana*, DOI: 10.1007/s12046-018-0838-6, 43:46, 6 p. (2018).
- RJ90. Y. Dhandapani, T. Sakthivel, M. Santhanam, R. Gettu and R.G. Pillai, "Mechanical Properties and Durability Performance of Concretes with Limestone Calcined Clay Cement (LC3)", *Cem. Concr. Res.*, DOI: 10.1016/j.cemconres.2018.02.005, V. 107, pp. 136-151 (2018).
- RJ89. M. Sirajuddin and R. Gettu, "Plastic Shrinkage Cracking of Concrete Incorporating Mineral Admixtures and its Mitigation", *Mater. Struct.*, DOI: 10.1617/s11527-018-1173-4, 51:48, 10 p. (2018).

- RJ88. S. Jose, R. Gettu and S. Indhuja, "Flexural Toughness Characterization of Steel, Polymer and Glass Fibre Reinforced Concrete Based on the Notched Beam Test", *The Indian Concr. J.*, V. 92, No. 2, pp. 35-50 (2018).
- RJ87. V.O. García-Álvarez, R. Gettu and I. Carol, "Determination of the Energy Release Rate Function for an Eccentrically Notched Centre-loaded Beam Using Linear Fracture Analysis", *J. Struct. Engng.*, Vol. 44, No. 1, pp. 88-94 (2017).
- 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).
- RJ82. S.K. Nayar and R. Gettu, "Benefits of Using Amorphous Metallic Fibres in Concrete Slabs-on-Grade", *RILEM Technical Letters*, pp. 122-128, <http://dx.doi.org/10.21809/rilemtechlett.2016.20> (2016).
- RJ81. P.S. Nair and R. Gettu, "Commercially Available Waterproofing Agents in India - A review", *Indian Concrete J.*, V. 90, Issue 2, pp. 36-53 (2016).
- RJ80. V.C. Padmanabhan and R. Gettu, "Study of the Efficiency of Spray-on Curing Compounds", *Indian Concrete J.*, V. 90, Issue 2, pp. 64-69 (2016).
- RJ79. S.K. Nayar and R. Gettu, "Synergy in Toughness by Incorporating Amorphous Metal and Steel Fibers", *ACI Mater. J.*, V. 112, No. 6, pp. 821-827, doi: 10.14359/51687857 (2015).
- RJ78. B. Sangoju, R.G. Pillai, R. Gettu, B.H. Bharatkumar and N.R. Iyer, "Use of Portland Pozzolana Cement to Enhance the Service Life of Reinforced Concrete Exposed to Chloride Attack", *J. Materials in Civil Engng.*, V. 27, Issue 11:04015031, 8 p.; doi: 10.1061/(ASCE) MT.1943-5533.0001293, published online Mar. 20th (2015).
- RJ77. B. Sangoju, B.H. Bharatkumar, R. Gettu, P. Srinivasan, K. Ramanjaneyulu and N.R. Iyer, "Influence of PCE-SP and Calcium Nitrite Inhibitor on Mechanical and Durability Parameters of Concrete", *J. of Scientific & Industrial Research*, V. 74, pp. 82-87 (2015).
- RJ76. V. Ponmalar and R. Gettu, "Durability Studies on Confined Concrete using Fiber Reinforced Polymer", *J. Inst. Eng. India Ser. A*, V. 95, No. 2 pp. 91-96 (2014).
- RJ75. V. Ponmalar, K. Ganesh Babu and R. Gettu, "Theoretical Modelling of the Confinement Effect on Concrete with Fibre Reinforced Polymer", *J. Struct. Engng.*, V. 40, No. 6, pp. 521-529 (2014).
- RJ74. S.K. Nayar, R. Gettu and C. Sree Krishnan, "Characterisation of the Toughness of Fibre Reinforced Concrete – Revisited in the Indian Context", *The Indian Concr. J.*, V. 88, No. 2, pp. 8-23 (2014).
- RJ73. E. John and R. Gettu, "Effect of Temperature on Flow Properties of Superplasticized Cement Paste", *ACI Mater. J.*, V. 111, No. 1, pp. 67-76 (2014).
- RJ72. C. Aire, R. Gettu, J.R. Casas, S. Marques and D. Marques, "Concrete laterally confined with fibre-reinforced polymers (FRP): Experimental study and theoretical model" (in English and Spanish), *Materiales de Construcción*, ISSN: 0465-2746, eISSN: 1988-3226, doi: 10.3989/mc.2010.45608, V. 60, No. 297, pp. 19-31 (2010).
- RJ71. K. Narasimhulu, R. Gettu and K. Ganesh Babu, "Beneficiation of Natural Zeolite through Flash Calcination for Its Use as a Mineral Admixture in Concrete", DOI: 10.1061/(ASCE)MT.1943-5533.0000800, *J. Materials in Civil Engng.*, V. 26, No. 1, pp. 24-33 (2014).

- RJ70. A. Krishnan, R. Gettu, R. Dhamodharan and P.S. Nair, "Exploratory Use of a Fluoropolymer to Modify Cement Mortar for Waterproofing", *Intl. J. of 3R's, Trans. on Repair, Rehabilitation, Renewal of Built Environment*, V. 4, No. 3, pp. 595-601 (2013).
- RJ69. M. Sivaprakasam, R. Gettu, K. Varghese and T. Vijaykumar, "Study of Possible Productivity Improvement in the Fabrication of Tunnel Lining Segments for a Hydropower Project", *The Indian Concr. J.*, V. 87, No. 6, pp. 27-30 & 35-38 (2013).
- RJ68. B. Sangoju, R. Gettu and B.H. Bharatkumar, "Accelerated Corrosion Test on Cracked Reinforced Concrete with & without PCE Superplasticizer", *Intl. J. of 3R's, Trans. on Repair, Rehabilitation, Renewal of Built Environment*, V. 3, No. 1, pp. 358-367 (2012).
- RJ67. V.O. García-Álvarez, R. Gettu and I. Carol, "Analysis of Mixed-Mode Fracture in Concrete Using Interface Elements and a Cohesive Crack Model", *Sādhanā*, V. 37, Issue 1, pp. 187-205 (2012); doi:10.1007/s12046-012-0076-2.
- RJ66. C. Jayasree and R. Gettu, "Choice of Compatible Cement-Superplasticizer Combinations", *ICI J. (Indian Concrete Institute)*, V. 12, No. 4, pp. 14-31 (2012).
- RJ65. S. Bhaskar, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Strength, Bond and Durability Related Properties of Concretes with Mineral Admixtures", *Indian Concr. J.*, V. 86, No. 2, pp. 9-16 (2012).
- RJ64. S. Bhaskar, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Studies on Chloride Induced Corrosion of Reinforcement Steel in Cracked Concrete", *SHDM Structural Durability and Health Monitoring*, V. 7, No. 4, pp. 231-251 (2011).
- RJ63. Bhaskar Sangoju, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Chloride-Induced Corrosion of Steel in Cracked OPC and PPC Concretes: Experimental Study", *J. Materials in Civil Engineering (ASCE)*, V. 23, No. 7, pp. 1057-66 (2011).
- RJ62. S. Bhaskar, R. Gettu and B.H. Bharatkumar, "Corrosion of Rebars in Reinforced Concrete – A review of the mechanisms, assessment techniques and control measures", *ICI J. (Indian Concrete Institute)*, V. 12, No. 3, pp. 35-54 (2011).
- RJ61. C. Jayasree, Manu Santhanam and R. Gettu, "Cement-Superplasticizer Compatibility – Issues and challenges", *The Indian Concr. J.*, V. 85, No. 7, pp. 48-60 (2011).
- RJ60. C. Jayasree, J. Murali Krishnan and R. Gettu, "Influence of Superplasticizer on the Non-Newtonian Characteristics of Cement Paste", *Mater. Struct.*, V. 44, No. 5, pp. 929-943 (2011).
- RJ59. S. Bhaskar, B.H. Bharatkumar, R. Gettu and M. Neelamegam, "Effect of Corrosion on the Bond Behaviour of OPC and PPC Concretes", *Journal of Structural Engineering*, V. 37, No. 01, pp. 37-42 (2010).
- RJ58. C. Jayasree and R. Gettu, "Correlating Properties of Superplasticized Paste, Mortar and Concrete", *Indian Concr. J.*, V. 84, No. 7, pp. 7-18 (2010).
- RJ57. M. Santhanam, V. Venkatachalapathy, C. Sivathanupillai and R. Gettu, "Mechanical Properties of High Density Concrete Used in Fast Reactors for Structural and Shielding Purposes", *Journal of the Institution of Engineers (India)*, V. 91, pp. 15-22 (2010).
- RJ56. J. Turmo, N. Banthia, R. Gettu and B. Barragán, "Study of the Shear Behaviour of Fibre Reinforced Concrete Beams" (in English and Spanish), *Materiales de Construcción (Spain)*, V. 58, No. 292, pp. 5-13 (2008).
- RJ55. R. Zerbino, B. Barragán, T. Garcia, L. Agulló and R. Gettu, "Workability Tests and Rheological Parameters in Self-Compacting Concrete", *Mater. Struct.*, V. 42, pp. 947-960 (2009).
- RJ54. R. Gettu, S.N. Shareef and K.J.D. Ernest, "Evaluation of the robustness of SCC", *Indian Concr. J.*, V. 83, No. 6, pp. 13-19 (2009).
- RJ55. J. Mora-Ruacho, R. Gettu and A. Aguado, "Influence of Shrinkage-Reducing Admixtures on the Reduction of Plastic Shrinkage Cracking in Concrete", *Cem. Concr. Res.*, V. 39, 141-146 (2009).
- RJ52. C. Jayasree and R. Gettu, "Experimental Study of the Flow Behaviour of Superplasticized Cement Paste", *Mater. Struct.*, V. 41, pp. 1581-1593 (2008).

- RJ51. S. Carmona, R. Fernández, A. Aguado and R. Gettu, "Simplified Calculation of the Splitting-Tensile Strength of Concrete Using the Strut-and-Tie Method" (in Spanish), *Hormigón y Acero*, No. 242, pp. 65-74 (2006).
- RJ50. J.M. Sena Cruz, J.A.O. Barros, R. Gettu and A.F.M. Azevedo, "Bond Behavior of Near-Surface Mounted CFRP Laminate Strips under Monotonic and Cyclic Loading", *J. Composites for Construction (ASCE)*, V. 10, No. 4, pp. 295-303 (2006).
- RJ49. R. Gettu, B. Barragán, T. Garcia, J. Ortiz and R. Justa, "Fiber concrete tunnel lining", *Concrete International (ACI)*, V. 28, No. 8, pp. 63-69 (2006).
- RJ48. B. Barragán, R. Gettu, L. Agulló and L. Zerbino, "Shear Failure of Steel Fiber-Reinforced Concrete Based on Push-Off Tests", *ACI Materials J.*, V. 103, No. 4, pp. 251-257 (2006).
- RJ47. R.L. Zerbino, G. Giaccio and R. Gettu, "Pseudo-ductile Behaviour of Steel Fibre Reinforced High-Strength Concretes", *Indian Concrete J.*, V. 80, No. 2, pp. 37-43 (2006).
- RJ46. J.L.A.O. Sousa and R. Gettu, "Determining the Tensile Stress-Crack Opening Curve of Concrete by Inverse Analysis", *J. Engng. Mech.*, V. 132, No. 2, pp. 141-148 (2006).
- RJ45. B.E. Barragán, R. Gettu, R.L. Zerbino, M. Bravo, C.J. de la Cruz and L. Agulló, "Fabricación de elementos de hormigón autocompactable con árido visto", *Cemento-Hormigón* (Madrid, Spain), No. 880, pp. 38-45 (2005).
- RJ44. R. Gettu, T. Garcia, C. Bernad and H. Collie, "Utilización de hormigón autocompactable en elementos prefabricados", *Cemento-Hormigón* (Madrid, Spain), No. 874, pp. 58-67 (2005).
- RJ43. R. Gettu, D.R. Gardner, H. Saldívar and B.E. Barragán, "Study of the Distribution and Orientation of Fibers in SFRC Specimens", *Mater. Struct.*, V. 38, pp. 31-37 (2005).
- RJ42. C. Aire, R. Gettu and J.T. Casas, "Comportamiento del hormigón bajo compresión triaxial", *Cemento-Hormigón*, No. 868, pp. 52-63 (2004).
- RJ41. R. Gettu, G. Ramos, T. García, B. Barragán, C. Fernández and R. Oliver, "Estudio experimental del hormigón reforzado con fibras para uno de los tramos del túnel de la Línea 9 del Metro de Barcelona", *Cemento-Hormigón*, No. 866, pp. 52-67 (2004).
- RJ40. R. Gettu, B.E. Barragán, G. Ramos and F. Capilla, "Recientes avances en la caracterización del hormigón reforzado con fibras de acero", *Hormigón y Acero*, No. 233, pp. 129-143 (2004).
- RJ39. J.R. Casas and R. Gettu, "Estudio experimental sobre la monitorización continua y a largo plazo de estructuras", *Hormigón y Acero* (Madrid, Spain), No. 233, pp. 37-45 (2004).
- RJ38. R. Gettu and L. Agulló, "Estado del arte del hormigón autocompactable y su caracterización. (Parte II)", *Cemento-Hormigón* (Madrid, Spain), No. 862, pp. 32-55 (2004).
- RJ37. R. Gettu and L. Agulló, "Estado del arte del hormigón autocompactable y su caracterización. (Parte I)", *Cemento-Hormigón* (Madrid, Spain), No. 861, pp. 50-67 (2004).
- RJ36. V.O. García-Alvarez, G. Giaccio, R. Zerbino and R. Gettu, "Influencia del tipo de árido grueso sobre el mecanismo de fractura en hormigones normales y de alta resistencia", *Cemento-Hormigón* (Madrid, Spain), No. 857, pp. 40-54 (2003).
- RJ35.
- RJ34. B.I.G. Barr, M.K. Lee, B. Barragán, D. Dupont, R. Gettu, J.F. Olesen, H. Stang and L. Vandewalle, "Round-Robin Analysis of the RILEM TC 162-TDF Uni-Axial Tensile Test: Part 2, Fibre Distribution", *Mater. Struct.*, V. 36, pp. 275-280 (2003).
- RJ33. B.I.G. Barr, M.K. Lee, B. Barragán, D. Dupont, R. Gettu, J.F. Olesen, H. Stang and L. Vandewalle, "Round-Robin Analysis of the RILEM TC 162-TDF Uni-Axial Tensile Test: Part 1, Test Method Evaluation", *Mater. Struct.*, V. 36, pp. 265-274 (2003).
- RJ32. J. Mora, A. Aguado and R. Gettu, "The Influence of Shrinkage Reducing Admixtures on Plastic Shrinkage", *Materiales de Construcción* (Madrid, Spain), V. 53, No. 271-272, pp. 71-80 (2003).
- RJ31. B.E. Barragán, R. Gettu, M.A. Martín and R.L. Zerbino, "Uniaxial Tension Test for Steel Fibre Reinforced Concrete - A parametric study", *Cem. Concr. Composites*, V. 25, No. 7, pp. 767-777 (2003).

- RJ30. R.L. Zerbino, R. Gettu, L. Agulló and A. Aguado, "Criterios y alternativas para la evaluación de la tenacidad en hormigones con fibras de acero", *Revista de Obras Públicas* (Madrid, Spain), No. 3435, pp. 23-30 (2003).
- RJ29. B.E. Barragán, R. Gettu, R.L. Zerbino and M.A. Martín, "The Uniaxial Tensile Test for Steel Fibre Reinforced Concrete" (in Spanish), *Hormigón y Acero* (Madrid, Spain), No. 221-222, pp. 125-134 (2003).
- RJ28. P.C.C. Gomes, R. Gettu and L. Agulló, "Self-Compacting Concrete: Properties and methods of characterization" (in Spanish), *Hormigón y Acero* (Madrid, Spain), No. 221-222, pp. 27-37 (2003).
- RJ27. R. Gettu, J. Roncero and M.A. Martín, "Long-Term Behaviour of Concrete Incorporating a Shrinkage-Reducing Admixture", *Indian Concrete J.*, V. 76, No. 9, pp. 586-592 (2002).
- RJ26. L.E.T. Ferreira, T.N. Bittencourt, J.L.A.O. Sousa and R. Gettu, "R-curve Behavior in Notched Beam Tests of Rocks", *Engng. Fract. Mech.*, V. 69, pp. 1845-1852 (2002).
- RJ25. J. Ferreira Fernandes, R. Gettu and P.A.O. Almeida, "Estudo do critério de projeto para pilares mistos", *Revista IBRACON* (Sao Paulo, Brazil), No. 29, pp.19-25 (2002).
- RJ24. A.C. dos Santos, T.N. Bittencourt and R. Gettu, "Determinação experimental da carga de colapso na interface entre o concreto e polímero reforçado com fibra (PRF)", *Revista IBRACON* (Sao Paulo, Brazil), No. 29, pp. 3-17 (2002).
- RJ23. Z.P. Bazant, Y.D.S. Rajapakse, D.H. Allen, R. Ballarini, H.D. Espinosa, H. Gao, R. Gettu, M. Jirasek, G. Pijaudier-Cabot, J. Planas and F.J. Ulm, "Report on ONR Workshop on Fracture Scaling", *Intl. J. of Fracture*, V. 113, pp. 345- 366 (2002).
- RJ22. J. Roncero, R. Gettu, L. Agulló and E. Vázquez, "Flow Behaviour of Superplasticised Cement Pastes: Influence of Silica Fume", *Indian Concrete J.*, V. 76, No. 1, pp. 31-35 (2002).
- RJ21. J. Roncero and R. Gettu, "Influencia de los superplastificantes en la microestructura de la pasta hidratada y en el comportamiento diferido de morteros de cemento", *Cemento-Hormigón* (Barcelona), No. 832, pp. 12-28 (2002).
- RJ20. D. Sfer, I. Carol, R. Gettu and G. Etse, "Study of the Behaviour of Concrete Under Triaxial Compression", *J. of Engng. Mech.*, V. 128, No. 2, pp. 156-163 (2002).
- RJ19. J. Roncero, S. Valls and R. Gettu, "Study of the Influence of Superplasticizers on the Hydration of Cement Paste Using Nuclear Magnetic Resonance and X-ray Diffraction Techniques", *Cem. Concr. Res.*, V. 32, pp. 103-108 (2002).
- RJ18. V.O. García-Álvarez, R. Gettu and I. Carol, "Empleo de elementos junta en el análisis lineal de fractura. Aplicación al estudio de la fractura en modo mixto", *Rev. Int. de Métodos Numéricos para Cálculo y Diseño en Ingeniería* (Barcelona), V. 17, No. 1, pp. 99-112 (2001).
- RJ17. G. Giaccio, R. Zerbino and R. Gettu, "Hormigones de alta performance con fibras de acero para aplicaciones estructurales", *Revista Hormigón* (La Plata, Argentina), No. 33, pp. 53-63 (1999).
- RJ16. L. Agulló, B. Toralles-Carbonari, R. Gettu and A. Aguado, "Fluidity of Cement Pastes with Mineral Admixtures and Superplasticizer - A study based on the Marsh cone test", *Materials and Structures*, V. 32, pp. 479-485 (1999).
- RJ15. J.M. Torrents, J.R. oncero and R. Gettu, "Utilization of Impedance Spectroscopy for Studying the Retarding Effect of a Superplasticizer on the Setting of Cement", *Cement and Concrete Research*, V. 28, No. 9, pp. 1325-1333 (1998).
- RJ14. G. Carbonari, A. Aguado and R. Gettu, "Estimación del comportamiento en el tiempo de vigas de hormigón de alta resistencia a partir de ensayos en probetas", *Hormigón y Acero* (Madrid, Spain), No. 208, pp. 31-48 (1998).
- RJ13. B. Toralles Carbonari, L. Agulló and R. Gettu, "Procedimiento para la optimización de hormigones de altas prestaciones", *Hormigón y Acero* (Madrid, Spain), No. 208, pp. 19-30 (1998).

- RJ12. R. Gettu, H. Saldívar and M.T. Kazemi, "Implications of the Size Effect Method for Analyzing the Fracture of Concrete", *Int. J. Solids Structures*, V. 35, No. 31-32, pp. 4121-32 (1998).
- RJ11. R. Gettu, V.O. García-Álvarez and A. Aguado, "Effect of Aging on the Fracture Characteristics and Brittleness of a High-Strength Concrete" (Communicated paper), *Cement and Concrete Research*, V. 28, No. 3, pp. 349-355 (1998).
- RJ10. J. Vilardell, A. Aguado, L. Agulló and R. Gettu, "Estimation of the Modulus of Elasticity for Dam Concrete", *Cement and Concrete Research*, V. 28, No. 1, pp. 93-101 (1998).
- RJ9. R. Gettu, A. Aguado and M.O.F. Oliveira, "Damage in High-Strength Concrete Due to Monotonic and Cyclic Compression, A Study Based on the Splitting-Tensile Strength", *ACI Materials J.*, Vol. 93, No. 6, pp. 519-523 (1996).
- RJ8. B. Barr, R. Gettu, S.K.A. Al-Oraimi and L.S. Bryars, "Toughness Measurement - The Need to Think Again", *Cement & Concrete Composites*, Vol. 18, pp. 281-297 (1996).
- RJ7. R. Gettu, B. Mobasher, S. Carmona and D.C. Jansen, "Testing of Concrete Under Closed-Loop Control", *Advanced Cement Based Materials* (Incorporated in Cem. Concr. Res. in 1998), Vol. 3, No.2, pp. 54-71 (1996).
- RJ6. V.S. Gopalaratnam and R. Gettu, "On the Characterization of Flexural Toughness in Fibre Reinforced Concretes", *Cement & Concrete Composites*, Vol. 17, pp. 239-254 (1995).
- RJ5. A. Aguado, R. Gettu, M.O.F. Oliveira and J.M. López Sáiz, "Caracterización mecánica de un hormigón de alta resistencia", *Hormigón y acero* (Madrid, Spain), No. 191, pp. 137-148 (1994).
- RJ4. Z.P. Bazant, S.-P. Bai and R. Gettu, "Fracture of Rock, Effect of Loading Rate", *Engng. Fracture Mechanics*, Vol. 45, No. 3, pp 393-398 (1993).
- RJ3. Z.P. Bazant and R. Gettu, "Rate Effects and Relaxation in Static Fracture of Concrete", *ACI Materials J.*, Vol. 89, No. 5, pp. 456-468 (1992).
- RJ2. Z.P. Bazant, R. Gettu and M.T. Kazemi, "Identification of Nonlinear Fracture Properties from Size Effect Tests and Structural Analysis Based on Geometry-Dependent R-Curves", *Int. J. Rock Mech. and Mining Sci.*, Vol. 28, No. 1, pp. 43-51 (1991); Corrigenda, Vol. 28, No. 2/3, p. 233 (1991).
- RJ1. R. Gettu, Z.P. Bazant and M.E. Karr, "Fracture Properties and Brittleness of High Strength Concrete", *ACI Materials J.*, Vol. 87, No. 6, pp. 608-618 (1990).

Invited Journal Papers and Discussions

- IJ28. R.G. Pillai, R. Gettu and M. Santhanam, "Use of Supplementary Cementitious Materials (SCMs) in Reinforced Concrete Systems – Benefits and Limitations", *Revista ALCONPAT*, eISSN: 2007-6835, V. 10, Issue 2, pp. 147-164, DOI: 10.21041/ra.v10i1 (2020).
- IJ27. R. Gettu, M. Santhanam and R.G. Pillai, "Benefits and Limitations Related to the Incorporation of Mineral Admixtures in Concrete" (in Spanish), *Revista Hormigón*, ISSN-0325-8947, V. 58, pp. 9-17 (2019).
- IJ26. S. Gopinath, N.R. Iyer, R. Gettu, G.S. Palani and A.R. Murthy, "Confinement Effect of Glass Fabrics Bonded with Cementitious and Organic Binders", *Procedia Engineering*, V. 14, pp. 535-542 (2011); doi:10.1016/j.proeng.2011.07.067.
- IJ25. R. Zerbino, B. Barragán, T. García, L. Agulló and R. Gettu, "Effect of temperature, time and waiting conditions on the rheology of SCC", *CPI – Concrete Plant International* (Germany), V. 6, pp. 48-55 (2009)
- IJ24. C.J. de la Cruz, J. Turmo, R. Gettu, B. Barragán and G. Ramos, "Beam Shear Test of Structural Self Compacting Concrete" (in Spanish), *Dyna* (Colombia), V. 76, No. 159, pp. 35-41 (2009).
- IJ23. R. Zerbino, B. Barragán, L. Agulló, T. García and R. Gettu, "Reología de hormigones autocompactables", *Ciencia y Tecnología del Hormigón*, No. 13, pp. 51-64 (2006).

- IJ22. R. Gettu, Discussion of "Repeating a Classic Set of Experiments on Size Effect in Shear of Members without Stirrups", *ACI Structural J.*, V. 103, No. 5, pp. 760-761 (2006).
- IJ21. J. Mora, R. Gettu, C. Olazábal, M.A. Martín and A. Aguado, "Effect of the Incorporation of Fibers on the Plastic Shrinkage of Concrete", *Sendero* (Chihuahua, Mexico), No. 2, pp. 22-34 (2002).
- IJ20. M.O.F. Oliveira, R. Gettu, A. Aguado and I. Carol, "Damage in High-Strength Concrete due to Monotonic and Cyclic Compression", *Revista Engenharia, Ciência y Tecnologia* (Vitória, Brazil), V. 5, No. 6, pp. 39-42 (2002).
- IJ19. A. Josa, A. Aguado, R. Gettu and J.L.A. Vilella, "Construcción y medio ambiente. 20 parte: Comportamiento medioambiental de productos con base cemento. Aplicación a pavimentos de hormigón", *Cemento Hormigón*, No. 828, pp. 985-1004 (2001).
- IJ18. A. Josa, A. Aguado, R. Gettu and J.L.A. Vilella, "Construcción y medio ambiente. 10 parte: Evaluación ambiental", *Cemento Hormigón*, No. 827, pp. 877- 894 (2001).
- IJ17. J. Mora, M.A. Martín, R. Gettu and A. Aguado, "Study of Plastic Shrinkage Cracking in Concrete and the Influence of Fibers and a Shrinkage Reducing Admixture", *L'industria Italiana del Cemento*, No. 770, pp. 828-837 (2001).
- IJ16. A. Aguado, L. Agulló and R. Gettu, "Tendencias en los hormigones de altas prestaciones. Reflexión sobre el papel del calculista", *Quaderns d'Estructures*, No. 9, pp. 43-55 (2001).
- IJ15. A. Barragán, R. Gettu, G. Giaccio and R. Zerbino, "Resistencia y tenacidad frente a sollicitaciones de corte en hormigones reforzados con fibras", *Hormigón*, No. 37, pp. 25-43 (2001).
- IJ14. J. Mora, R. Gettu and A. Aguado, "Estudio del agrietamiento por contracción plástica en el concreto sujeto a altos índices de evaporación", *Construcción y Tecnología* (Mexico), V. 15, No. 159, pp. 12-18 (2001).
- IJ13. P.C.C. Gomes, R. Gettu, J. Roncero and L. Agulló, "Estudo dos fatores que divergem a dosagem de saturação do superplastificante da argamassa e do concreto a do sistema pasta", *Revista Engenharia, Ciência y Tecnologia* (Vitória, Brazil), V. 16, pp. 3-16 (2000).
- IJ12. R. Gettu, A. Aguado, M.A. Martín and J. Roncero, "El uso de aditivos reductores de retracción en el hormigón y sus implicaciones", *Cemento-Hormigón* (Barcelona), No. 813, pp. 754-768 (2000).
- IJ11. A. Aguado, L. Agulló, R. Gettu and A. Josa, "Los hormigones de altas prestaciones en las infraestructuras viarias", *Cemento-Hormigón* (Barcelona), No. 813, pp. 742-754 (2000).
- IJ10. L. Agulló, A. Aguado, A. Josa and R. Gettu, "Tendencias del hormigón proyectado en la construcción de túneles", *Cemento-Hormigón* (Barcelona), No. 800, pp. 839-857 (1999).
- IJ9. G. Giaccio, R. Zerbino and R. Gettu, "Hormigones de alta performance con fibras de acero: Evaluación de su comportamiento mecánico", *Ciencia y Tecnología del Hormigón* (LEMIT, Argentina), No. 7, pp. 3-25 (1999).
- IJ8. R. Gettu, S. Carmona and A. Aguado, "Control de ensayos por lazo cerrado. Aplicaciones al estudio del comportamiento mecánico del hormigón", *OP, Revista del Colegio de Ingenieros de Caminos, Canales y Puertos* (Barcelona), No. 44 "La informática en ingeniería civil", pp. 94-103 (1998).
- IJ7. A. Toralles-Carbonari, R. Gettu, L. Agulló and A. Aguado, "Incidencia del superplastificante en la fluidez de la pasta de un hormigón de altas prestaciones", *Cemento-Hormigón* (Barcelona), No. 774, pp. 932-949 (1997).
- IJ6. A. Josa, R. Gettu and A. Aguado, "Evaluación ambiental de productos de la construcción derivados del cemento" *CIC Información* (Barcelona), Parte I, No. 299, pp. 30-35 (1997); Parte II, No. 300, pp. 49-55 (1997).
- IJ5. A. Aguado, L. Agulló and R. Gettu, "La incidencia del hormigón de alta resistencia en la construcción de puentes", *Cemento-Hormigón* (Barcelona, Spain), No. 748, pp. 820-839 (1995).

- IJ4. R. Gettu, A. Ariño and M.T. Kazemi, Discussion of "Fracture Mechanics and Size Effect of Concrete in Tension", *J. Struct. Engng.*, V.12, No.1, pp. 151-153 (1995).
- IJ3. A. Aguado, R. Gettu and M.O.F. Oliveira, "Bases de cálculo para el proyecto de edificios de altura en hormigón de alta resistencia", *Tribuna de la Construcción* (Valencia, Spain), No. 15, pp. 10-23 (1993).
- IJ2. A. Pacios, R. Gettu and S.P. Shah, "Utilización del hormigón de alta resistencia en EE.UU.", *Cemento-Hormigón* (Barcelona), No. 709, pp. 1118-35 (1992).
- IJ1. A. Aguado, M.O.F. Oliveira and R. Gettu, "Bases de cálculo para el proyecto de estructuras de hormigón de alta resistencia", *Cemento-Hormigón* (Barcelona), No. 709, pp. 991-1005 (1992).

Participation in Technical Committee Reports and Standards

- TR24. RILEM TC 261-CCF (R. Gettu, Member), "Recommendation: test method to determine the flexural creep of fibre reinforced concrete in the cracked state", *Materials and Structures* 54:124, 20 p. (2021), <https://doi.org/10.1617/s11527-021-01675-0>.
- TR23. Indian Standard, IS 17161: 2020, *Flexural Strength and Toughness Parameters of Fibre Reinforced Concrete — Method of Test*, 8 p. (R. Gettu, Principal Author and Member of the Panel for Revision of Indian Standards on Test Methods for Concrete, CED 2: 2/P7).
- TR22. Indian Concrete Institute Technical Committee TC/09 (R.Gettu, Chairman), *Guidelines on Ground Supported Concrete Slabs for Industrial Flooring Applications*, ICI Bulletin 05/01 (2019) 84 p.
- TR21. Indian Concrete Institute Technical Committee TC/01 (R.Gettu, Vice-Chairman), *Definitions, Specifications and Conformity Requirements for Polymeric Fibres to be Used as Concrete Reinforcement*, ICI Recommendation TC/01-4, ICI Bulletin 03/04 (2017) 7 p.
- TR20. Indian Concrete Institute Technical Committee TC/01 (R.Gettu, Vice-Chairman), *Definitions, Specifications and Conformity Requirements for Steel Fibres to be Used as Concrete Reinforcement*, ICI Recommendation TC/01-3, ICI Bulletin 03/03 (2017) 7 p.
- TR19. Indian Concrete Institute Technical Committee TC/01 (R.Gettu, Vice-Chairman), *Specifications for Reference Concretes to be Used for Evaluating Fibres for Concrete Reinforcement*, ICI Recommendation TC/01-2, ICI Bulletin 03/02 (2017) 3 p.
- TR18. Indian Concrete Institute Technical Committee TC/01 (R.Gettu, Vice-Chairman), *Test Method for the Flexural Strength and Toughness Parameters of Fibre Reinforced Concrete*, ICI Recommendation TC/01-1, ICI Bulletin 03/01 (2017) 5 p.; Draft published in ICI Journal, V. 15, No. 2, pp. 39-43 (2014).
- TR17. *Guidelines for Design and Construction of Fibre Reinforced Concrete Pavements*, First Revision, IRC:SP:46-2013, Indian Roads Congress, New Delhi, 47 p. (Sub-group of H3 Committee, R. Gettu, Invited Member).
- TR16. RILEM Technical Committee TC 187-SOC (R.Gettu, Secretary), *Experimental Determination of the Stress-Crack Opening Curve for Concrete in Tension*, RILEM Report 39, Ed. J. Planas, RILEM Publications, Bagneux, France, 41 p. (2007).
- TR15. European Standard EN 14721 (2005), *Test Method for Metallic Fibre Concrete – Measuring the Fibre Content in Fresh and Hardened Concrete*, 7 p. (Task group on Metallic fibre concrete CEN/TC229/WG3/TG7, R.Gettu, Member) (2005).
- TR14. European Standard EN 14651 (2005), *Test Method for Metallic Fibered Concrete – Measuring the Flexural Tensile Strength (limit of proportionality (LOP), residual)*, 17 p. (Task group on Metallic fibre concrete CEN/TC229/WG3/TG7, R.Gettu, Member) (2005).

- TR13. European Standard EN 14650 (2005), *Precast Concrete Products – General Rules for Factory Production Control of Metallic Fibered Concrete*, 6 p. (Task group on Metallic fibre concrete CEN/TC229/WG3/TG7, R.Gettu, Member) (2005).
- TR12. RILEM Technical Committee QFS Quasibrittle Fracture Scaling (R.Gettu, Secretary), "Quasibrittle fracture scaling and size effect – Final Report", *Mater. Struct.*, V. 37, pp. 547-568 (2004).
- TR11. ACI Committee 446 (R.Gettu, Member), *Report on Dynamic Fracture of Concrete*, ACI 446-4R-04, American Concrete Institute, Farmington Hills, Mich., USA, 29 p. (2004).
- TR10. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), " σ - ε Design Method: Final Recommendation", *Mater. Struct.*, V. 36, pp. 560-567 (2003).
- TR9. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), "Bending Test: Final Recommendation", *Mater. Struct.*, V. 35, pp. 579-582 (2002).
- TR8. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), "Design of Steel Fibre Reinforced Concrete Using the σ -w Method: Principles and Applications", *Mater. Struct.*, V. 35, pp. 262-278 (2002).
- TR7. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), "Recommendations: Uni-axial Tension Test for Steel Fibre Reinforced Concrete", *Mater. Struct.*, V. 34, pp. 3-6 (2001).
- TR6. RILEM Technical Committee 148-SCC: Strain softening of concrete - Test methods for compressive softening (R.Gettu, Member), "Recommendations: Test Method for Measurement of the Strain-Softening Behaviour of Concrete Under Uniaxial Compression", *Mater. Struct.*, V. 33, pp. 347-351 (2000).
- TR5. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), "Recommendations: sigma-epsilon Design Method", *Mater. Struct.*, V. 33, pp. 75-81 (2000).
- TR4. RILEM Technical Committee 162-TDF: Test and design methods for steel fibre reinforced concrete (R.Gettu, Member), "Recommendations: Bending Test", *Mater. Struct.*, V. 33, pp. 3-5 (2000).
- TR3. ACI Committee 446 (R.Gettu, Committee member), *Finite Element Analysis of Fracture in Concrete Structures: State-of-the-Art*, ACI Report 446.3R-97, American Concrete Institute, Farmington Hills, Mich., USA, 33 p. (1998).
- TR2. Grupo de Trabajo GTI/2, GEHO (R.Gettu, Working group member), *Hormigones de alta resistencia. Fabricación y puesta en obra*, Boletín 20, Grupo Español del Hormigón, Madrid (1997).
- TR1. ACI Committee 446 (R.Gettu, Contributing Co-Author), *Fracture Mechanics of Concrete, Concepts, Models and Determination of Material Properties*, ACI Report 446.1R-91, American Concrete Institute, Detroit, 146 p. (1991).

Books Edited and Monographs

- BE19. R. Gettu and R.G. Pillai, Guest Editors, *Special Issue on Low-Carbon and Sustainable Construction*, The Indian Concrete Journal, V. 97, No. 9 (2023).

- BE18. R. Prajapati, I. Amadi, M. Kosuri, N.S. Kahabi, V.G. Ram, A.S. Basavaraj, Y. Dhandapani, J. Kanjee, M. Selvam, M. Santhanam, M. Alexander, Y. Ballim, R. Gettu and H. Beushausen, *Recycled Concrete Aggregates and Their Influence on Concrete Properties*, Research Monograph, Dept. of Civil Engineering, IIT Madras, 46 p., DOI: 10.13140/RG.2.2.36843.41764 (2023).
- BE17. R. Gettu and A.S. Basavaraj, Guest Editors, *Special Issue on Sustainability of Concrete through Blended Binders*, *The Indian Concrete Journal*, V. 94, No. 2 (2020).
- BE16. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, Editors, *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 1-4, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-190-2 (set), e-ISBN: 978-2-35158-191-9, Vol. 1, ISBN: 978-2-35158-193-3, 192 p., Vol. 2, ISBN: 978-2-35158-194-0, 662 p., Vol. 3, ISBN: 978-2-35158-195-7, 644 p., Vol. 4, ISBN: 978-2-35158-196-4, 744 p. (2017).
- BE15. M. Santhanam and R. Gettu, Guest Editors, *Special Issue, International Journal of 3R's, Trans. on Repair, Rehabilitation, Renewal of Built Environment*, ISSN: 0975-8968, V. 4, No. 3 (2013).
- BE14. R. Gettu and M. Santhanam, Guest Editors, *Special Issue, International Journal of 3R's, Trans. on Repair, Rehabilitation, Renewal of Built Environment*, ISSN: 0975-8968, V. 4, No. 2 (2013).
- BE13. R. Gettu, M. Santhanam, A. Menon and R.G. Pillai, Editors, *Rehabilitation and Restoration of Structures*, IIT Madras, Chennai, India, ISBN: 978-93-80689-10-4, 657 p. (2013).
- BE12. R. Gettu, Guest Editor, *Special Issue on Construction Chemicals*, *Indian Concrete Institute Journal*, V. 12, No. 4 (2012).
- BE11. R. Gettu, K. Jayasankar and K.P. Pradeep, Guest Editors, *Special Issue, Indian Concrete Institute Journal*, V. 11, No. 3 (2010).
- BE10. R. Gettu, K. Jayasankar and K.P. Pradeep, Editors, *Advances in Concrete: An Asian Perspective* (Proc. ACECON 2010), IIT Madras, Chennai, India, ISBN: 978-93-80689-02-9, 860 p. (2010).
- BE9. R. Gettu and C. Jayasree, Editors, *Proc. of the RILEM – Indian Concrete Institute Workshop on Innovations in Construction Materials and Structures*, IIT Madras, Chennai, India, 139 p. (2008).
- BE8. R. Gettu, Editor, *Fibre Reinforced Concrete: Design and Applications*, RILEM Publications S.A.R.L., Bagnueux, France, ISBN: 978-2-35158-064-6, 1153 p. (2008).
- BE7. R. Zerbino, L. Agulló, B. Barragán, T. Garcia and R. Gettu, *Caracterización reológica de hormigones autocompactables*, Dept. of Construction Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain, ISBN: 84-87691-40-4, 83 p. (2006).
- BE6. D.L. Venkatesh Babu, R. Gettu and R. Krishnamoorthy, Editors, *Proc. Intl. Conf. on Recent Trends in Concrete Technology and Structures*, Volumes I and II, Kumaraguru College of Technology, Coimbatore, India, ISBN: 81-7296-081-6 (2003).
- BE5. R. Gettu, Editor, *Desarrollo sostenible del cemento y del hormigón*, CIMNE, Barcelona, ISBN 84-95999-14-5 (2002).
- BE4. R. Gettu and N. Mailvaganam, Guest Editors, *Effective Use of Chemical Admixtures, Special Issue, Indian Concrete Journal*, V. 76, No. 9 (2002).
- BE3. L. Agulló, R. Gettu, A. Aguado and H. Saldívar, *La Tenacidad de Hormigones Reforzados con Fibras de Acero*, CIMNE, Barcelona, ISBN: 84-89925-63-1 (2000).
- BE2. R. Gettu, A. Aguado and S.P. Shah, Editors, *Technology Transfer of the New Trends in Concrete*, CIMNE, Barcelona, ISBN 84-87867-65-0 (1995).
- BE1. A. Aguado, R. Gettu and S.P. Shah, Editors, *Concrete Technology - New Trends, Industrial Applications*, E & FN SPON, London, ISBN 0 419 20150 5 (1995).

Book Chapters

- BC35. R. Prajapati, S.J. Stephen, R. Gettu and S. Singh, "Properties of Concrete with Thermo-mechanically Beneficiated Fine Recycled Aggregates", *Proc. of the 75th RILEM Annual Week 2021, Advances in Sustainable Construction Materials and Structures*, Eds. J. I. Escalante-Garcia, P. Castro Borges and A. Duran-Herrera, RILEM Bookseries 40, pp. 916–922, DOI: 10.1007/978-3-031-21735-7 (2023).
- BC34. K. Heins, G. Dittel, K. Murugan, M. Raina, S. Gopinath, O. Hentzschel, S. Paul, R. Gettu and T. Gries, "Modular Lightweight Wastewater Treatment Plants Made of Textile Reinforced Concrete — Means to reliable wastewater treatment in rural areas", *Proc. of the 75th RILEM Annual Week 2021, Advances in Sustainable Construction Materials and Structures*, Eds. J. I. Escalante-Garcia, P. Castro Borges and A. Duran-Herrera, RILEM Bookseries 40, pp. 888-896, DOI: 10.1007/978-3-031-21735-7 (2023).
- BC33. J. Jayasuriya, A.S. Basavaraj, S. Singh and R. Gettu, "Sustainability Assessment of Concrete Pavements with Recycled Concrete Aggregate", *Proc. of the 75th RILEM Annual Week 2021, Advances in Sustainable Construction Materials and Structures*, Eds. J. I. Escalante-Garcia, P. Castro Borges and A. Duran-Herrera, RILEM Bookseries 40, pp. 363-371, DOI: 10.1007/978-3-031-21735-7 (2023).
- BC32. A. Sharma, A.S. Basavaraj, P. Chaunsali and R. Gettu, "Environmental Impact of Calcium Sulfoaluminate Cement Manufacturing: An Indian case study", *Proc. of the 75th RILEM Annual Week 2021, Advances in Sustainable Construction Materials and Structures*, Eds. J. I. Escalante-Garcia, P. Castro Borges and A. Duran-Herrera, RILEM Bookseries 40, pp. 353-362, DOI: 10.1007/978-3-031-21735-7 (2023).
- BC31. A. Llano-Torre, S.H.P. Cavalaro, W. Kusterle, S. Moro, R.L. Zerbino, R. Gettu, H. Pauwels, T. Nishiwaki, B. Parmentier, N. Buratti, R.D. Toledo Filho, J.-P. Charron, C. Larive, W.P. Boshoff, E.S. Bernad, and M. Kompatscher, "Equipment and Procedure Description", Chapter 5, *Round-Robin Test on Creep Behaviour in Cracked Sections of FRC: Experimental Program, Results and Database Analysis*, State-of-the-Art Report of the RILEM TC 261-CCF, RILEM State-of-the-Art Reports, Vol 34, Eds. A. Llano-Torre and P. Serna, Springer, DOI: 10.1007/978-3-030-72736-9, ISBN 978-3-030-72735-2, pp. 47-117 (2021).
- BC30. S. Gopinath, N.R. Iyer and R. Gettu, "Design Parameter for Textile Reinforced Concrete – A Point of View", *Technical Textile and its Applications*, Annual Technical Volume of Textile Engineering Division Board, Vol. 3, The Institution of Engineers (India), pp. 19-25, <https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume> (2020).
- BC29. S.K. Nayar and R. Gettu, "Diseño de losas de HRF para pisos y pavimentos" (Design of FRC slabs-on-grade and pavements), Chapter 9, *Hormigón Reforzado con Fibras*, Ed. R. Zerbino, Asociación Argentina de Tecnología del Hormigón, Buenos Aires, ISBN 978-987-47035-1-4, pp. 157-184 (2020).
- BC28. S.J. Stephen and R. Gettu, "Relación constitutiva en tracción y diseño estructural" (Constitutive Relation in Tension and Structural Design), Chapter 7, *Hormigón Reforzado con Fibras*, Ed. R. Zerbino, Asociación Argentina de Tecnología del Hormigón, Buenos Aires, ISBN 978-987-47035-1-4, pp. 127-144 (2020).
- BC27. S. Jose and R. Gettu, "On the Toughness Characterization of Fibre- Reinforced Concrete Using Notched Beam Tests", *Recent Advances in Structural Engineering*, Volume 1, Eds. A. Rao and K. Ramanjaneyulu, Lecture Notes in Civil Engineering, Vol 11, Springer, Singapore, DOI: 10.1007/978-981-13-0362-3_75, ISBN 978-981-13-0361-6, pp. 947-959 (2019).
- BC26. G. Ramesh, R. Gettu and B.H. Bharatkumar, "Bond Behaviour of Externally Bonded FRP Under Cyclic Loading", *Recent Advances in Structural Engineering*, Volume 2, Eds. A. Rao and K. Ramanjaneyulu, Lecture Notes in Civil Engineering, Vol 12, Springer, Singapore, DOI: 10.1007/978-981-13-0365-4_67, ISBN 978-981-13-0364-7, pp. 783-795 (2019).

- BC25. P. Kurup and R. Gettu, "Value Addition to Athangudi Tiles", *Recent Advances in Materials, Mechanics and Management*, Eds. S. Evangeline, M.R. Rajkumar and S.G. Parambath, CRC Press, Taylor & Francis Group, London, ISBN 978-0-8153-7889-1, pp. 372-378 (2019).
- BC24. R. Gettu, R. Zerbino and S. Jose, "Factors Influencing Creep of Cracked Fibre Reinforced Concrete: What We Think We Know & What We Do Not Know", *Creep Behaviour in Cracked Sections of Fibre Reinforced Concrete*, Eds. P. Serna, A. Llano-Torre, S. Cavalaro. RILEM Bookseries, Vol 14. Springer, Dordrecht, pp. 3-12 (2017).
- BC23. S.K. Nayar and R. Gettu, "A Comprehensive Methodology for Design of Fibre Reinforced Concrete Pavements", *fib Bulletin 79, Fibre-reinforced concrete: From design to structural applications- FRC 2014: ACI-fib International Workshop*, The International Federation for Structural Concrete, Lausanne, Switzerland, ISBN: 978-2-88394-119-9, also American Concrete Institute Special Publication SP-310, pp 321-330 (2016).
- BC22. M. Santhanam and R. Gettu, "Early-age Properties of Concrete", Chapter 13, *ICE Manual of Construction Materials*, Ed. M. Forde, Thomas Telford Ltd., London, UK, Vol. I, pp. 135-144; www.icemanuals.com (2009).
- BC21. R. Gettu and M. Santhanam, "Condition Assessment of Buildings", Chapter 4, *Handbook on Seismic Retrofitting of Buildings*, Eds. A. Chakrabarti, D. Menon and A. Sengupta, Narosa Publishing House, New Delhi, India, 27 p. (2008).
- BC20. J.L.A.O. Sousa, R. Gettu and Y. Kitsutaka, "Inverse Analysis Procedures for Determining the Tensile Stress-Crack Opening Curve of Concrete", Chapter 4, *Experimental Determination of the Stress-Crack Opening Curve for Concrete in Tension*, RILEM TC 187-SOC Final Report, Ed. J. Planas, RILEM Publications S.A.R.L., Bagneux, France, pp. 31-39 (2007).
- BC19. R. Gettu, B. Barragán, L. Agulló, R. Zerbino, C. Cruz and M. Bravo, "Repetibilidad y reproducibilidad de los ensayos para el hormigón autocompactable", *Hormigones Autocompactantes*, Eds. M. Olivares Santiago et al., Editorial Roldan, Mairena del Aljarafe, Sevilla, Spain, pp. 119-140 (2004).
- BC18. R. Gettu, B. Barragán and L. Agulló, "Desarrollo y aplicación de hormigones autocompactables de alta resistencia", *Hormigones Autocompactantes*, Eds. M. Olivares Santiago et al., Editorial Roldan, Mairena del Aljarafe, Sevilla, Spain, pp. 87-97 (2004).
- BC17. A. Palacios, A. Pacios and R. Gettu, "Control de calidad y procedimientos de ensayo de los hormigones autocompactables", *Hormigones Autocompactantes*, Eds. M. Olivares Santiago et al., Editorial Roldan, Mairena del Aljarafe, Sevilla, Spain, pp. 47-58 (2004).
- BC16. R. Gettu and J. Roncero, "Behavior of Concretes with Shrinkage Reducing Admixtures", *Advances in Concrete and Structures*, Eds. Y. Yuan, S.P. Shah and H.-L. Lü, RILEM Publications, Bagneux, France, pp. 11-20 (2003).
- BC15. G. Etse, D. Sfer, I. Carol, R. Gettu and K. Willam, "Dilatational Response of Concrete Materials: Facts and Fiction", *Finite Element Analysis of Reinforced Concrete Structures*, ACI SP-205, Eds. K. Willam and T. Tanabe, American Concrete Institute, Farmington Hills, Michigan, USA, pp. 367-393 (2001).
- BC14. R. Gettu, A. Josa, L. Agulló, P.C.C. Gomes and J. Izquierdo, "Desarrollo de hormigones autocompactables de alta resistencia con cenizas volantes: Hacia una tecnología del hormigón más sostenible", *Desarrollo sostenible del cemento y del hormigón*, Ed. R. Gettu, CIMNE, Barcelona, pp. 27-42 (2002).
- BC13. B.E. Barragán, R. Gettu and R. Zerbino, "Tensile Behavior of Steel Fiber Reinforced Concrete - Evaluation of a test methodology", *High-Performance Concrete: Performance and quality of concrete structures*, Proc. Third Intl. Conf. (Recife, Brazil), ACI SP-207, Eds. V.M. Malhotra, P. Helene, E.P. Figueiredo and A. Carneiro, American Concrete Institute, Farmington Hills, Michigan, USA, pp. 91-110 (2002).

- BC12. R. Gettu, J. Roncero and M.A. Martín, "Study of the Behavior of Concrete with Shrinkage Reducing Admixtures Subjected to Long-Term Drying", *Concrete: Material Science to Application*, SP-206, American Concrete Institute, Farmington Hills, USA, pp. 157-166 (2002).
- BC11. C. Cots, A. Godes, R. Gettu and C. Aire, "Utilización de materiales compuestos en la reparación y el refuerzo", *Evaluación y rehabilitación estructural de edificios. Posibilidades de las técnicas numéricas y experimentales*, Eds. P. Roca et al., CIMNE, Barcelona, pp. 179-192 (2002).
- BC10. R. Gettu and A. Josa, "Ingeniería Civil", *Ciència, Tecnologia i Ambient, Anuari 2000*, Enciclopèdia Catalana (Barcelona), pp. 343-348 (1999).
- BC9. B. Barragán, R. Zalochi, R. Gettu and M.A. Martín, "Improvements of the Ductility of Concrete Due to the Incorporation of Steel Fibers and Its Relation with the Material Toughness", *Materials for Buildings and Structures*, Wiley-VCH, Weinheim, Germany, Vol. 6, pp. 72-77 (2000).
- BC8. R. Gettu, J. Roncero, I. Carol and M.A. Martín, "Influence of Chemical Admixtures on the Drying Shrinkage of Concrete", *Materials for Buildings and Structures*, Wiley-VCH, Weinheim, Germany, Vol. 6, pp. 48-53 (2000).
- BC7. J.R. Casas, R. Gettu, L. Agulló and B. Toralles-Carbonari, "Strength of High-Performance Concrete in Columns - Factors and effect of placing method", *High-Performance Concrete: Research to practice*, American Concrete Institute, USA, pp. 451-462 (1999).
- BC6. J. Roncero, R. Gettu, P.C.C. Gomes and L. Agulló, "Study of flow behavior of superplasticized cement paste systems and its influence on properties of fresh concrete", *High-Performance Concrete: Research to practice*, American Concrete Institute, USA, pp. 273-284 (1999).
- BC5. R. Gettu and A. Josa, "Ingeniería Civil", *Ciència, Tecnologia i Ambient, Anuari 1998*, Enciclopèdia Catalana (Barcelona), pp. 343-348 (1999).
- BC4. D. Jamet, R. Gettu, V.S. Gopalaratnam and A. Aguado, "Toughness of Fiber-Reinforced High-Strength Concrete from Notched Beam Tests", *Testing of Fiber Reinforced Concrete*, SP-155, Eds. D.J. Stevens et al., American Concrete Institute, Detroit, USA, pp. 23-39 (1995).
- BC3. R. Gettu and S.P. Shah, "Fracture Mechanics", *High Performance Concretes and Applications*, Eds. S.P. Shah and S.H. Ahmad, Edward Arnold Publishers, London, pp. 161-212 (1994).
- BC2. A. Carol, P.C. Prat and R. Gettu, "Numerical Analysis of Mixed-Mode Fracture of Quasi-Brittle Materials using a Multicrack Constitutive Model", *Mixed-Mode Fatigue and Fracture*, ESIS 14, Eds. H.P. Rossmanith and K.J. Miller, Mechanical Engineering Publications, London, pp. 319-331 (1993).
- BC1. Z.P. Bazant, L. Cedolin and R. Gettu, "Stable Paths and States of Irreversible Structural Systems, Thermodynamic Analysis and Implications for Composites", *Recent Advances in the Macro- and Micro-Mechanics of Composite Materials Structures*, AD-Vol.13, Eds. D. Hui and J.R. Vinson, The American Society of Mechanical Engineers, New York, pp. 219-23 (1988).

Conference Proceedings

- CP286. P. Tenepalli, M.P. Reji, C. Wable, S. Paul, C. El-Khoury, R. Gettu and P. Chaunsali, "Assessment of Parameters Affecting the Degradation of PVC-Coated Glass Textiles", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 8 p. (2023).
- CP285. M. Santhanam, R. Pillai, P. Chaunsali and R. Gettu, "Enhancement of Concrete Durability With Sustainable Binder Systems", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 6 p. (2023).

- CP284.S.K. Nayar, S.S. Kusumanchi, V.S. Athira and R. Gettu, "Engineering of Low-Carbon Matrices For Glass Reinforced Cementitious Composites", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 6 p. (2023).
- CP283.S. Paul and R. Gettu, Influence of Short Glass Fibers on the Tensile Behavior of Textile-Reinforced Concrete", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 6 p. (2023).
- CP282.R. Samanthula, R.L. Zerbino and R. Gettu, "Characterization of the Uniaxial Tensile Response of Textile Reinforced Concrete Using Digital Image Correlation", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 7 p. (2023).
- CP281.M. Harihar, A. Basavaraj and R. Gettu, "Recycling of Concrete Aggregates - Assessing the Environmental Impacts", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 6 p. (2023).
- CP280.R. Gettu, "Technology Implementation as The Key Impact of Research: IIT Madras Approach In The Past Two Decades", *Proc. First Interdisciplinary Symposium on Smart and Sustainable Infrastructures* (Vancouver), Eds. N. Banthia, S. Solemani-Dashtaki and S. Mindess, The University of British Columbia, Vancouver, Canada, ISBN: 978-0-88865-491-5, 3 p. (2023).
- CP279.R. Gettu, A.S. Basavaraj and R. Prajapati, "On Sustainable Concretes", *Proc. National Seminar on Emerging Trends in Smart and Sustainable Infrastructure* (Coimbatore), Association of Consulting Civil Engineers (India), Coimbatore Centre, pp. 72-91 (2022).
- CP278.S.K. Nayar and R. Gettu, "Assessment of a Design Methodology for FRC Slabs-on-grade", *Proc. Ninth RILEM Intl. Conf. on Fibre Reinforced Concrete, BEFIB 2016* (Vancouver, Canada), Eds. N. Banthia, M. di Prisco and S. Soleimani-Dashtak, pp 1369-1384 (2016).
- CP277.S. Paul and R. Gettu, "On the Structural Design of Textile Reinforced Concrete", *Proc. Intl. Conf. on Cement-Based Materials Tailored for a Sustainable Future* (online, Istanbul, Turkey), Eds. N. Özyurt Zihnioğlu, H. Nuri Atahan, Z. Başaran Bundur, Ö. Şengül and A. Özbora Tarhan, Boğaziçi University, Istanbul, pp. 45-54 (2021).
- CP276.S.J. Stephen and R. Gettu, "Incorporation of Rate-Dependent Fracture Properties in the Design of Precast Concrete Tunnel Segment with Hybrid Reinforcement", *Fibre Reinforced Concrete: Improvements and Innovations*, *Proc. RILEM-fib International Symposium on FRC (BEFIB)* (online, Valencia, Spain, 2020), Eds. P. Serna, A. Llano-Torre, J.R. Martí-Vargas and J. Navarro-Gregori, RILEM Bookseries 30, doi: 10.1007/978-3-030-58482-5_68, pp. 770-775 (2021).
- CP275.E. Menéndez, K. Imamoto, R. Gettu, T. Noguchi, and H. Recino, "Analysis of Change of Physical Properties of Organic Repair Products due to Fire Exposition", *Proc. XV Intl. Conf. on Durability of Building Materials and Components* (online; Barcelona), Eds. C. Serrat, J.R. Casas and V. Gibert, Intl Center for Numerical Methods in Engineering (CIMNE), Barcelona, Spain, pp. 39-40 (2020).
- CP274.R. Gettu, A.S. Basavaraj, H. Muni, Y. Dhandapani and M. Santhanam, "Sustainability Through Durability: Assessment of Concretes with Blended Cements", *Proc. XV Intl. Conf. on Durability of Building Materials and Components* (online; Barcelona), Eds. C. Serrat, J.R. Casas and V. Gibert, Intl Center for Numerical Methods in Engineering (CIMNE), Barcelona, Spain, pp. 11-12 (2020).

- CP273.K. Murugan, S.J. Stephen and R. Gettu, "Influence of Fibre Geometry on Fracture Performance of Steel Fibre Reinforced Concrete", *Proc. Intl. Conf. on Materials, Mechanics and Structures* (online; NIT Calicut, Kozhikode, India) *IOP Conf. Ser.: Mater. Sci. Eng.*, 936, 012025, doi:10.1088/1757-899X/936/1/012025, IOP Publishing, 6 p. (2020).
- CP272.S. Rengaraju, R.G. Pillai, L. Neelakantan, R. Gettu and M. Santhanam, "Chloride-induced Corrosion Resistance of Steel Embedded in Limestone Calcined Clay Cement Systems", *Proc. 3rd Intl. Conf. on Calcined Clays for Sustainable Concrete* (Delhi), Vol. III, Eds. S. Bishnoi, S. Medepalli and A. Menon, pp. 31-37 (2019); Ed. S. Bishnoi, *Calcined Clays for Sustainable Concrete*, RILEM Bookseries 25, doi: 10.1007/978-981-15-2806-4_68, pp. 613-619 (2020).
- CP271.M. Santhanam, Y. Dhandapani, R. Gettu and R. Pillai, "Perspectives on Durability of Blended Systems with Calcined Clay and Limestone", *Proc. 3rd Intl. Conf. on Calcined Clays for Sustainable Concrete* (Delhi), Vol. III, Eds. S. Bishnoi, S. Medepalli and A. Menon, pp. 1-12 (2019); Ed. S. Bishnoi, *Calcined Clays for Sustainable Concrete*, RILEM Bookseries 25, doi: 10.1007/978-981-15-2806-4_65, pp. 581-593 (2020).
- CP270.R. Gettu and A.S. Basavaraj, "Life Cycle Assessment of LC3: Parameters and Prognoses", *Proc. 3rd Intl. Conf. on Calcined Clays for Sustainable Concrete* (Delhi), Vol. I, Eds. A. Parashar, L. Singh and Gopala Rao D., pp. 261-265 (2019); Ed. S. Bishnoi, *Calcined Clays for Sustainable Concrete*, RILEM Bookseries 25, doi: 10.1007/978-981-15-2806-4_32, pp. 277-281 (2020).
- CP269.S.J. Stephen and R. Gettu, "Fatigue Response of Cracked Fibre Reinforced Concrete", *Proc. Intl. Conf. on Innovative Materials for Sustainable Civil Engineering* (Nanjing, China), p. 6 (2019).
- CP268.R. Pillai, M. Santhanam, R. Gettu, Y. Dhandapani, S. Rengaraju, S. Rathnarajan, and A. Basavaraj, "Service Life Estimation and Life Cycle Assessment for Portland Cement, Fly Ash, and LC3 Systems", *Service-Life Prediction of Concrete, Proc. 3rd Meeting: The Corvallis Workshops* (Corvallis, Oregon, USA), Eds. K.S.T. Chopperla, T.J. Deboodt and J.H. Ideker, 5 p. (2017).
- CP267.R. Gettu, M. Santhanam, R.G. Pillai, Y. Dhandapani, T. Sakthivel, S. Rengaraju, S. Rathnarajan, M. Fathima Suma, A.S. Basavaraj, S. Prakasan and V.G. Nithya Nair, "Summary of 4 years of Research at IIT Madras on Concrete with Limestone Calcined Clay Cement (LC3)", *Proc. Intl. Conf. on Sustainable Materials, Systems and Structures (SMSS 2019). Vol. 1. New Generation of Construction Materials* (Rovinj, Croatia), Eds. M. Serdar, N. Štirmer and J. Provis, ISBN: 978-2-35158-223-7, PRO 128, RILEM Publications S.A.R.L., Paris, pp. 449-456 (2019).
- CP266.P. Mohandoss, R.G. Pillai and R. Gettu, "On the Determination of the Bond Strength of Pretensioned Strands in Concrete", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-30-7, India Chapter of American Concrete Institute, Vol. 3, pp. 94-98 (2018).
- CP265.T. Sakthivel, S. Shantharaju, R. Gettu and R.G. Pillai, "Assessment of Shrinkage Prediction Models for Fly Ash Concrete", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-29-1, India Chapter of American Concrete Institute, Vol. 2, pp. 300-304 (2018).
- CP264.M.K. Mohan, R.G. Pillai, M. Santhanam and R. Gettu, "Performance Specifications for the Pre-blended Cementitious Grouts for Use in Post-tensioned Concrete Systems", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-29-1, India Chapter of American Concrete Institute, Vol. 2, pp. 163-167 (2018).
- CP263.S. Jose and R. Gettu, "Implications of Using Amorphous Metallic and Steef Fibre Hybrid Mixtures in the Design of Pile Supported Slabs", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-28-4, India Chapter of American Concrete Institute, Vol. 1, pp. 483-487 (2018).

- CP262.A. Premavathy, S.K. Nayar, R. Jeyanthi, R. Gettu, M. Santhanam, P. Boustingorry and G. Shyam Sundar, "Assessment of a Methodology for Formulation of Robust Self-compacting Concrete Mixes", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-28-4, India Chapter of American Concrete Institute, Vol. 1, pp. 337-345 (2018).
- CP261.R. Gettu, M. Santhanam and R.G. Pillai, "Revisiting the Benefits and Limitations of Supplementary Cementitious Materials (SCMs) in Concrete", *Proc. 3rd R.N. Raikar Memorial Intl. Conf. on Advances in Science & Technology of Concrete* (Mumbai), ISBN: 978-93-88237-28-4, India Chapter of American Concrete Institute, Vol. 1, pp. 57-65 (2018).
- CP260.M.K. Mohan, R.G. Pillai, M. Santhanam and R. Gettu, "Fresh properties of the Cementitious Grouts for Post-Tensioning Applications", *Intl. RILEM Workshop on Rheological Measurements of Cement Based Materials (IRWRMC)*, University of Artois, Arras, France, 5 p. (2018).
- CP259.M.K. Mohan, R.G. Pillai, M. Santhanam and R. Gettu, "Performance Specifications for Prepackaged Cementitious Grouts for Post-Tensioning Applications", *Proc. 4th Intl. Conf. on Service Life Design for Infrastructures (SLD4)* (Delft, Netherlands), Eds. G. Ye, Y. Yuan, C.R. Rodriguez, H. Zhang and B. Šavija, PRO 125, RILEM Publications S.A.R.L., Paris, pp. 34-44 (2018).
- CP258.R. Gettu, M. Santhanam, R.G. Pillai, Y. Dhandapani, T. Sakthivel, S. Rengaraju, M.F. Suma, S. Prakasan, S. Rathnarajan and A.S. Basavaraj, "Recent Research on Limestone Calcined Clay Cement (LC³) at IIT Madras", *Book of Abstracts - Conf. in Honor of Centennial of Laboratory of Construction Materials and 60th Birthday of Prof. Karen Scrivener* (Lausanne), Ecole Polytechnique Federale de Lausanne, Switzerland, pp. 76-79 (2018).
- CP257.R. Gettu, R.G. Pillai, M. Santhanam, S. Rathnarajan, A.S. Basavaraj, S. Rengaraju and D. Yuvaraj, "Service Life and Life-Cycle Assessment of Reinforced Concrete with Fly Ash and Limestone Calcined Clay Cement", *Proc. Sixth International Conference on Durability of Concrete Structures* (Leeds), United Kingdom, pp. 27-35 (2018); <https://docs.lib.purdue.edu/icdcs/2018/keynote/1/>
- CP256.R. Gettu, R.G. Pillai, J. Meena, A.S. Basavaraj, M. Santhanam and B.S. Dhanya, "Considerations of Sustainability in the Mixture Proportioning of Concrete for Strength and Durability", 2nd Intl. Workshop on Durability and Sustainability of Concrete Structures (Moscow, Russia), 11 p. (2018); also in *Durability and Sustainability of Concrete Structures (DSCS-2018)*, *Proc. 2nd Intl. Workshop*, Eds. V. Falikman, R. Realfonzo, L. Coppola, P. Hájek and P. Riva, SP-326, ISBN: 9781641950220, American Concrete Institute, pp. 5.1-5.10 (2018).
- CP255.T. Sakthivel, R. Gettu and R.G. Pillai, "Influence of the Incorporation of Fly Ash and Slag on the Shrinkage Response of Common Concretes", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 4, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-196-4, pp. 299-303 (2017).
- CP254.S. Rathnarajan, N.P. Vaddey, R.G. Pillai, R. Gettu and M. Santhanam, "Modelling Carbonation Rates in Concretes with Similar Strength and With and Without Slag", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 4, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-196-4, pp. 253-259 (2017).
- CP253.S. Jose and R. Gettu, "Comparison of Flexural Toughness Parameters from Notched and Unnotched Beam Tests for Fibre Reinforced Concrete", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 4, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-196-4, pp. 143-151 (2017).

- CP252.G. Ramesh, R. Gettu and B.H. Bharatkumar, "Ductility of Concrete Confined with FRP under Cyclic Loading", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 4, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-196-4, pp. 119-128 (2017).
- CP251.S. Gopinath, N.R. Iyer and R. Gettu, "Repair and Retrofitting of Structural Components using Textile Reinforced Concrete", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 4, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-196-4, pp. 73-79 (2017).
- CP250.E. Menéndez, E. Puerto, R. Gettu, M.E. Maciá and A. Castillo, "Assessment of the Behavior of Polymer Cement Mortars for Repair at High Temperatures", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 3, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-195-7, pp. 469-477 (2017).
- CP249.K.P. Ramaswamy, R. Sivakumar, M. Santhanam and R. Gettu, "Micro-Analytical Characterization of Concrete Deterioration due to Acid Attack in a Sewage Treatment Plant", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 2, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-194-0, pp. 647-656 (2017).
- CP248.B. Sangoju, B.H. Bharatkumar and R. Gettu, "Effect of Calcium Nitrite Inhibitor on Mechanical and Durability Parameters of Concrete", *Advances in Construction Materials and Systems* (Proc. Intl. Conf., Chennai, India), Vol. 2, Eds. M. Santhanam, R. Gettu, R.G. Pillai and S.K. Nayar, PRO 118, RILEM Publications S.A.R.L., Paris, ISBN: 978-2-35158-194-0, pp. 427-435 (2017).
- CP247.A. Rajendran and R. Gettu, "Performance Evaluation of Polymer Modified Cement Mortars at Elevated Temperatures", *Proc. XIV DBMX - 14th Intl. Conf. on Durability of Building Materials and Components* (Ghent, Belgium), Eds. G. De Schutter, N. De Belie, A. Janssens and N. Van Den Bossche, RILEM Publications, Paris, Abstract, pp. 167-168 (2017); full paper to be made available online.
- CP246.R. Gettu, R. Zerbino and S. Jose, "Factors Influencing Creep of Cracked Fibre Reinforced Concrete: What We Think We Know & What We Do Not Know", *Intl. RILEM Workshop Creep Behaviour in Cracked Sections of Fibre Reinforced Concrete, FRC-CREEP* (2016); proceedings published as RILEM Bookseries Vol. 14 (2017).
- CP245.S.J. Stephen, B. Raphael and R. Gettu, "Obtaining Fracture Properties of FRC by Inverse Analysis Using the PGSL Optimization Algorithm", *Proc. Sixth Intl. Congress on Computational Mechanics and Simulation (ICCMS 2016)*, Eds. S. Pendhari, P. Nanthagopalan, V. Deshmukh, A. Bambole and Y. Desai, IIT Bombay, Mumbai, www.iccms2016.org/Docs/ICCMS_Proceeding.pdf, pp. 480-483 (2016).
- CP244.R. Gettu, A. Patel, V. Rathi, S. Prakasan, A.S. Basavaraj and S. Maity, "Sustainability Assessment of Cements and Concretes in the Indian Context: Influence of Supplementary Cementitious Materials", *Proc. Fourth Intl. Conf. on Sustainable Construction Materials and Technologies (SCMT4)* (Las Vegas, USA), Eds. N. Ghafoori, P. Claisse, E. Ganjian and T.R. Naik, paper S299, pp. 1142-1150 (2016).
- CP243.R. Gettu, "Teaching Concrete Technology to Undergraduates: An Inductive Approach", *Proc. Intl. RILEM Conf. on Materials, Systems and Structures in Civil Engineering, Conference Segment on Innovation of Teaching in Materials and Structures* (Lyngby, Denmark), Ed. P. Goltermann, RILEM Pro 108, e-ISBN: 978-2-35158-179-7, RILEM Publications, Paris, France, pp. 21-28 (2016).

- CP242.R. Gettu, S. Prakasan, A. Patel, V. Rath, K. Nagrath, S. Palaniappan and S. Maity, "Process Mapping and Preliminary Assessment of Energy Consumption in Indian Cement Plants", *Expanding Boundaries: Systems Thinking in the Built Environment, Proc. Sustainable Built Environment (SBE) Regional Conference Zurich 2016*, Eds. G. Habert and A. Schlueter, vdf Hochschulverlag AG an der ETH Zürich, Switzerland, ISBN: 978-3-7281-3774-6 (ebook), Open Access Online Publication, DOI: 10.3218/3774-6, pp. 430-435 (2016).
- CP241.R. Gettu, S. Bishnoi, S. Maity, M. Santhanam and R.G. Pillai, "Recent Progress in Introduction of Low Carbon Cement LC³ in India" (in Spanish), *Proc. Intl. Symp. of Chemistry & 1st Intl. Symp. on Calcined Clays as Supplementary Cementitious Materials* (Cayo Santa María, Cuba), abstract in proceedings CD, ISBN 978-959-312-169-9, IVA.PO.12, p. 7 (2016).
- CP240.S.J. Stephen, R. Gettu and B. Raphael, "Effect of Loading Rate on the Fracture Behaviour of Fibre Reinforced Concrete", *Proc. 9th International Conference on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS-9* (Berkeley, USA), Eds. V. Saouma, J. Bolander and E. Landis, <http://framcos.org/FraMCoS-9/Full-Papers/71.pdf>, DOI 10.21012/FC9.071, 6 p. (2016).
- CP239.M. Santhanam, S. Kumar, R. Gettu and R.G. Pillai, "Evolving Acceptance Criteria for Concrete Durability Tests in Construction Projects", *Advances in Science & Technology of Concrete, Proc. 2nd R.N. Raikar Memorial Intl. Conf.* (Mumbai), India Chapter of ACI, pp. 334-341 (2015).
- CP238.S. Jose, S.J. Stephen and R. Gettu, "Study of the Post-Cracking Behaviour of Steel and Polymer Fibre Reinforced Concretes", *Advances in Science & Technology of Concrete, Proc. 2nd R.N. Raikar Memorial Intl. Conf.* (Mumbai), India Chapter of ACI, pp. 258-263 (2015).
- CP237.V.C. Padmanabhan and R. Gettu, "Study of the Efficiency of Spray-on Curing Compounds", *Proc. 14th NCB, Intl. Seminar on Cement and Building Materials* (New Delhi), National Council for Cement and Building Materials, India, pp. 697-700 (2015).
- CP236.S.K. Nayar and R. Gettu, "Performance of Concrete Reinforced with Combinations of Amorphous Metallic and Conventional Steel Fibres", *Proc. 4th Asian Conf. on Ecstasy in Concrete, ICI-ACECON 2015* (Kolkata), Indian Concrete Institute, Vol. II, pp. 21-28 (2015).
- CP235.M. Sirajuddin and R. Gettu, "Effect of the Incorporation of Mineral Admixtures and Shrinkage-Mitigating Ingredients on the Plastic Shrinkage of Concrete", *Mechanics and Physics of Creep, Shrinkage, and Durability of Concrete and Concrete Structures, CONCREEP-10* (Vienna, Austria), American Society of Civil Engineering, pp. 1082-1089 (2015).
- CP234.L. Ferrara, I. Albertini, R. Gettu, V. Krelani, S. Moscato, F. Pirritano, M. Roig Flores, P. Serna Ros and S.M. Theeda, "Self Healing of Cement Based Materials Engineered Through Crystalline Admixtures: Experimental results from a multinational university network", *Durability and Sustainability of Concrete Structures - Workshop Proceedings* (Bologna, Italy), ACI SP-305, Eds. M.A. Chiorino, L. Coppola, C. Mazzotti, R. Rialfonzo and P. Riva, pp. 13.1-10 (2015).
- CP233.R. Gettu and S.K. Nayar, "A Design Methodology for Fibre Reinforced Concrete Slabs-on-Grade", *Construction Innovations: Research into practice*, Proc. 27th National Conf. of the Concrete Institute of Australia in conjunction with the 69th Rilem Week (Melbourne), pp. 443-452 (2015).
- CP232.P.S. Nair, T. Bonda and R. Gettu, "Polymers as Waterproofing Materials to Improve the Service Life of Concrete Structures", *Proc. National School on Sustainable Polymers & First Symp. on Advances in Sustainable Polymers*, Dept. of Chemical Engng., IIT Guwahati, Abstract in p. OP-27; paper in file OP 15, 6 p. (2014).
- CP231.P.S. Nair, A. Krishnan and R. Gettu, "Evaluation of Waterproofing Agents Used for Improving the Durability of Concrete Structures", *Proc. Intl. Congress on Durability of Concrete* (Trondheim, Norway), Eds. H. Justnes and S. Jacobsen, Norwegian Concrete Association, Abstract in p. 62 of book; Soft copy of full paper in USB drive, A11-3, 8 p. (2012).

- CP230.A. Krishnan, P.S. Nair and R. Gettu, "Evaluation of Polymer Based Additions to Cement Mortar Used in Waterproofing", *Proc. 7th Asian Symp. on Polymers in Concrete (ASPIC)*, Eds. M.H. Özkul, H.N. Atahan, Ü.A. Doğan, B.Y. Pekmezci and Ö. Şengül, Istanbul Technical University, Turkey, pp. 353-360 (2012).
- CP229.A. Krishnan, P.S. Nair and R. Gettu, "Evaluation Criteria for Cement-Based Water-Proofing Materials", *Proc. Intl. Conf. on Sustainability Challenges & Advances in Concrete Technology* (Coimbatore), Eds. V. Ramakrishnan, S. Rajasekaran, J.V. Ramasamy and G. Sankarasubramanian, PSG College of Technology, Coimbatore, Excel India Publishers, New Delhi, pp. 311-317 (2013).
- CP228.G. Ramesh, R. Gettu and B.H. Bharatkumar, "Evaluation of Bond Behaviour of Externally Bonded FRP", *Proc. UKIERI Concrete Congress - Innovations in Concrete Construction* (Jalandhar), pp. 1563-1570 (2013).
- CP227.R. Gettu, R.G. Pillai, M. Santhanam and B.S. Dhanya, "Improving the Sustainability of Concrete Technology through the Effective Use of Admixtures", *Advances in Science & Technology of Concrete, Proc. 1st R.N. Raikar Memorial Intl. Conf.* (Mumbai), India Chapter of American Concrete Institute, Vol. II, pp. 387-397 (2013).
- CP226.R. Gettu, R.G. Pillai, M. Santhanam and B.S. Dhanya, "Ways of Improving the Sustainability of Concrete Technology through the Effective Use of Admixtures", *Creative Concrete Technologies for Sustainable Future, Proc. 10th Intl. Symp. on Advancement of Cement and Concrete Industries* (Seoul), KCI-C-13-003, Korea Concrete Institute, pp. 107-126 (2013).
- CP225.R. Gettu, Bhaskar Sangoju and B.H. Bharatkumar, "Effect of Fly Ash Based Portland Pozzolana Cement on Chloride Induced Corrosion of Reinforcement in Concrete", *Innovations in Concrete for Meeting Infrastructure Challenge, Proc. Intl. Conf.* (Hyderabad), Indian Concrete Institute, pp. 81-91 (2013).
- CP224.Bhaskar Sangoju, B.H. Bharatkumar and R. Gettu, "Assessment of Chloride Induced Corrosion of Steel in Concrete using Half-Cell Potential and Resistivity Methods", *Proc. Symposium on Reinforced Concrete, CORCON 2013* (New Delhi), NACE International, Gateway India Section, 6 p. (2013).
- CP223.A. Krishnan, P.S. Nair, R. Gettu and R. Dhamodharan, "Preliminary Studies with a Fluoropolymer for Use in Modified Cement Mortar for Waterproofing", *Proc. Workshop on Structural Rehabilitation and Retrofitting Using Construction Chemicals* (Mumbai), Eds. G.R. Reddy, P. Nanthagopalan, P. Kumar, S.M. Takekar and Y.S. Indolia, Assoc. of Structural Rehabilitation, Mumbai, pp. 101-108 (2013).
- CP222.B. Sangoju, R.G. Pillai, R. Gettu, B.H. Bharatkumar and N.R. Iyer, "Influence of portland pozzolana cement on the service life of reinforced concrete under chloride attack", *Proc. 3rd International Conference on Sustainable Construction Materials and Technologies* (Kyoto, Japan), Ed. T. Miyagawa, Japan Concrete Institute, abstract in p. 128 of proceedings book and paper in CD, e434.pdf, 10 p. (2013).
- CP221.R. Gettu, C. Jayasree, E. John, S. Bhaskar, B. Eshete and S. Vinayak, "More Sustainable Concrete Technology Through the Effective Use of Superplasticizers", *The Role of Concrete Properties in Sustainable Construction, Proc. Third International Conference on Sustainable Construction Materials and Technologies* (Kyoto, Japan), Eds. K. Sakata and T.R. Naik, Japan Concrete Institute, pp. 1-18 (2013).
- CP220.G. Ramesh, R. Gettu and B.H. Bharatkumar, "An Improved Methodology for Tensile Tests on Fibre Reinforced Polymer Wraps", *Proc. 11th Intl. Symp. on Fiber Reinforced Polymer for Reinforced Concrete Structures* (Guimarães, Portugal), Eds. J. Barros and J. Sena-Cruz, University of Minho, Portugal, abstract in pp. 33-34 of proceedings book and paper in CD 7 p. (2013).

- CP219.B. Sangoju, R. Gettu, B.H. Bharatkumar, K. Ramanjaneyulu and N.R. Iyer, "Effect of Cracking on Chloride Induced Corrosion of Reinforcement Bars in Concrete", *Rehabilitation and Restoration of Structures, Proc. Intl. Conf.* (Chennai), Eds. R. Gettu, M. Santhanam, A. Menon and R.G. Pillai, IIT Madras, Chennai, India, pp. 555-562 (2013).
- CP218.S. Gopinath, N.R. Iyer and R. Gettu, "Flexural Strengthening of RC Beams Using Fabric Reinforced Concrete", *Rehabilitation and Restoration of Structures, Proc. Intl. Conf.* (Chennai), Eds. R. Gettu, M. Santhanam, A. Menon and R.G. Pillai, IIT Madras, Chennai, India, pp. 449-456 (2013).
- CP217.A. Krishnan, P.S. Nair, R. Gettu and R. Dhamodharan, "Fluoropolymer - Possible use in modified cement mortar for waterproofing", *Rehabilitation and Restoration of Structures, Proc. Intl. Conf.* (Chennai), Eds. R. Gettu, M. Santhanam, A. Menon and R.G. Pillai, IIT Madras, Chennai, India, pp. 435-442 (2013).
- CP216.R. Gettu, "Special Concretes Used in India, Their Future and Way Forward", *Proc. fib-days 2012, Intl. Conf.* (Chennai, India), Institution of Engineers (India), paper in CD, 4 p. (2013).
- CP215.R. Gettu, C. Jayasree, E. John, S. Bhaskar, B. Eshete and S. Vinayak, "Effective Use of Superplasticizers for Sustainable Concrete", *Proc. 5th Intl. Conf. on Special Concretes SINCO* (Fortaleza, Brazil), 22 p. (2012).
- CP214.S.K. Nayar and R. Gettu, "On the Design of Steel Fibre Reinforced Concrete Pavements and Slabs-on-Grade", *Fibre Reinforced Concrete: Challenges and opportunities, Proc. Eighth RILEM Intl. Symp.* (Guimarães, Portugal), Eds. J.A.O. Barros et al., RILEM Publications, Bagneux, France, abstract in pp. 239-240 of book, full paper in CD, 11 p. (2012).
- CP213.A. Krishnan, P.S. Nair and R. Gettu, "Effect of Weathering on Polymer Modified Cement Mortars Used for the Repair and Waterproofing of Concrete", *Concrete Repair, Rehabilitation and Retrofitting III, Proc. Intl. Conf.* (Cape Town, South Africa), Eds. M. G. Alexander, H.-D. Beushausen, F. Dehn and P. Moyo, CRC Press, Taylor Francis Group, London, abstract in pp. 335-336 of proceedings book and paper in pp. 928-931, file 148 of proceedings CD (2012).
- CP212.Bhaskar Sangoju, R. Gettu and B.H. Bharatkumar, "Influence of Chemical Admixtures on the Corrosion of Rebars in Cracked Concrete", *Proc. Second Intl. Conf. on Microstructural-related Durability of Cementitious Composites* (Amsterdam, The Netherlands), Eds. G. Ye, K. van Breugel, W. Sun and C. Miao, RILEM Publications, Bagneux, France, abstract in p. 140 of printed conference proceedings & paper in CD in Theme 8, paper 9, 8 p. (2012).
- CP211.S.K. Nayar and R. Gettu, "On the Design of Fibre Reinforced Concrete Slabs-on-Grade and Pavements", *Proc. Conf. on Fiber Reinforced Concrete – Global Developments*, Indian Concrete Institute, Nagpur Centre, abstract in p. 120 of printed conference proceedings & paper in CD pp. 85-92 in Fibcon 7.pdf (2012).
- CP210.S.K. Nayar and R. Gettu, "Characterization of Fibre Reinforced Concrete", *Proc. Conf. on Fiber Reinforced Concrete – Global Developments*, Indian Concrete Institute, Nagpur Centre, pp. 30-47 & in CD in Fibcon 2.pdf (2012); also in *Proc. National Seminar on Recent Developments in Concrete Science and Technology*, Siddaganga Institute of Technology, Tumkur, Karnataka, India, pp. 1-13.
- CP209.S.K. Nayar and R. Gettu, "On the Toughness-Based Design of Steel Fibre Reinforced Concrete Pavements", *Proc. 1st Conf. of Transportation Research Group of India* (Bangalore), paper in CD 12 p., ID 34 (2011).
- CP208.G. D'Costa, S.K. Nayar and R. Gettu, "Sustainability Assessment of Steel Fiber Reinforced Concrete Pavements", *Proc. Intl. Conf. on Structural Engineering, Construction and Management* (Kandy, Sri Lanka), Eds. R. Dissanayake, M.T.R. Jayasinghe, P.A. Mendis and S. Fernando, abstract in p. 63 of printed conference proceedings & paper in CD 15 p. (2011).

- CP207.C. Jayasree and R. Gettu, "Influence of Superplasticizers on the Hydration and Microstructure of Cement Paste", *Proc. Intl. Conf. Advances in Materials and Techniques for Infrastructure Development*, NIT Calicut, India, 10 p. (2011).
- CP206.A. Krishnan, P.S. Nair and R. Gettu, "Polymer Modified Cement Mortars for the Repair of Concrete Structures", *Proc. Intl. RILEM Conf. on Advances in Construction Materials through Science and Engineering* (Hong Kong), Eds. C. Leung and K.T. Wan, RILEM Publ., Bagneux, France, abstract p. 130 & paper in CD 7 p. (2011).
- CP205.C. Jayasree, R. Gettu and J. Murali Krishnan, "On the Rheological Behaviour of Superplasticized Cement Paste", *Proc. Intl. RILEM Conf. on Advances in Construction Materials through Science and Engineering* (Hong Kong), Eds. C. Leung and K.T. Wan, RILEM Publ., Bagneux, France, abstract p. 74 & paper in CD 8 p. (2011).
- CP204.D. Naveena, J. Maganti and R. Gettu, "Compatibility Studies of Blended Superplasticizers on Ordinary Portland Cements Partially Replaced with Fly Ash", *Advances in Materials and Structures* (Proc. Conf., Pondicherry), Eds. G. Ramakrishna, K. Pandurangan and S. Kothandaraman, Indian Concrete Institute, Chennai, India, pp. 296-302 (2011).
- CP203.S. Gopinath, N.R. Iyer, R. Gettu, G.S. Palani and A. Ramachandra Murthy, "Confinement Effect of Glass Fabrics Bonded with Cementitious and Organic Binders", Extended Abstract, *Proc. Twelfth East Asia-Pacific Conf. on Structural Engineering and Construction* (Hong Kong), Eds. S. Kitipornchai, C.M. Tam, H.F. Lam and Y.T. Lo, pp. 227-228; paper in CD, 8 p. (2011); also *Procedia Engg.*, V. 14, pp. 533-542 (2011).
- CP202.S. Bhaskar, B.H. Bharatkumar, R. Gettu, and M. Neelamegam, "Influence of Water to Cement Ratio on Corrosion of Steel in OPC Concretes", *Proc. East Asian & Pacific Area Corrosion Conference & Expo* (Goa, India), 7 p. (2010).
- CP201.S.K. Nayar, R. Gettu, T. Aravind, A.H. Frederick and B. Satheesh, "Flexural Toughness Testing of Steel Fibre Reinforced Concrete", *Proc. Fourth CUSAT National Conf. on Recent Advances in Civil Engineering*, Cochin Univ. of Sci. and Tech., Kochi, India, pp. 105-110 (2010).
- CP200.R. Gopinath and R. Gettu, "Shrinkage Reduction in Concrete Using Chemical Admixtures", *Advances in Concrete: An Asian Perspective* (Proc. ACECON 2010), Eds. R. Gettu, K. Jayasankar and K.P. Pradeep, IIT Madras, Chennai, India, pp. 757-768 (2010).
- CP199.M. Santhanam, V. Venkatachalapathy, C. Sivathanu Pillai and R. Gettu, "Design and Development of High Density Concrete for Radiation Shielding and Structural Purposes", *Advances in Concrete: An Asian Perspective* (Proc. ACECON 2010), Eds. R. Gettu, K. Jayasankar and K.P. Pradeep, IIT Madras, Chennai, India, pp. 485-493 (2010).
- CP198.S. Bhaskar, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Benefits of Portland Pozzolana Cement in Chloride-Induced Corrosion Protection in Concrete", *Advances in Concrete: An Asian Perspective* (Proc. ACECON 2010), Eds. R. Gettu, K. Jayasankar and K.P. Pradeep, IIT Madras, Chennai, India, pp. 363-371 (2010).
- CP197.C. Jayasree and R. Gettu, "Cement-Superplasticizer Compatibility and Its Effect on Superplasticized Paste and Concrete", *Advances in Concrete: An Asian Perspective* (Proc. ACECON 2010), Eds. R. Gettu, K. Jayasankar and K.P. Pradeep, IIT Madras, Chennai, India, pp. 287-296 (2010).
- CP196.Elson John and R. Gettu, "Effect of Temperature on Fluidity and Setting Time of Cement Paste with a Naphthalene Based Superplasticizer", *Proc. National Conf. on Contemporary Challenges and Pioneering Technologies in Civil Engineering*, K.S.R. College of Engineering, Trichengode, Tamil Nadu, India, pp. 558-563 (2010).
- CP195.R. Gettu, A. Krishnan, N.R. Vineetha and R. Arumugam, "Rehabilitation of a Lecture Theatre at IIT Madras", *Proc. Workshop on Rehabilitation and Retrofitting of Structures*, Eds. G.R. Reddy, B.N. Pandya, A.N. Bambole and Gopal L. Rai, IIT Bombay, Mumbai, India, pp. 42-45 (2009).

- CP194.S. Bhaskar, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Comparison of Corrosion in Reinforced Precracked Members of OPC and PPC Concretes", *Proc. National Seminar on Advances in Construction Engineering Practice*, Dept. of Civil and Structural Engineering, Annamalai University, Annamalainagar, Tamil Nadu, India, pp. 71-78 (2010).
- CP193.R. Gopinath and R. Gettu, "Influence of Shrinkage Reducing Admixtures on Restrained Shrinkage Cracking", *Proc. International Conf. on Advances in Materials and Techniques in Civil Engineering*, V.L.B. Janakiammal College of Engng. and Tech., Coimbatore, India, pp. 181-187 (2010).
- CP192.V. Ponmalar, K. Ganesh Babu and R. Gettu, "Strengthening of Structural Elements with Fiber Reinforced Polymer Laminates", *Proc. International Conf. on Advances in Concrete, Structures and Geotechnical Engineering*, Birla Institute of Technology & Science, Pilani, Rajasthan, India, 6 p. (2009).
- CP191.Rakesh Gopinath and R. Gettu, "Effects of Chemical Admixtures on the Shrinkage of Cement Mortar", *Proc. International Conf. on Advances in Concrete, Structures and Geotechnical Engineering*, Birla Institute of Technology & Science, Pilani, Rajasthan, India, 7 p. (2009).
- CP190.C. Jayasree, J. Murali Krishnan and R. Gettu, "On The Rheological Characterisation of Superplasticized Cement Paste", *Proc. International Conf. on Advances in Concrete, Structures and Geotechnical Engineering*, Birla Institute of Technology & Science, Pilani, Rajasthan, India, 12 p. (2009).
- CP189.V.V. Rambabu, Maganti Janardhana and R. Gettu, "Study of the Compatibility between a Superplasticizer and Portland Pozzolona Cements", *Proc. International Conf. on Advances in Concrete, Structures and Geotechnical Engineering*, Birla Institute of Technology & Science, Pilani, Rajasthan, India, 7 p. (2009).
- CP188.B. Eshete and R. Gettu, "Development of Economical Self-Compacting Concrete", *Proc. National Conf. on Advances in Steel, Concrete and Composite Structures*, Dept. of Civil Engng., Government College of Technology, Coimbatore, India, pp. B-38 – B-42 (2009).
- CP187.C. Jayasree and R. Gettu, "Study of the Flow Behaviour of Superplasticized Paste and Concrete", *Proc. National Conf. on Advances in Steel, Concrete and Composite Structures*, Dept. of Civil Engng., Government College of Technology, Coimbatore, India, pp. A-9 – A-13 (2009).
- CP186.M. Sivaprakasam, R. Gettu and K. Varghese, "Productivity Improvement in the Fabrication of Tunnel Lining Segments for the Tapovan Vishnugad Hydropower Project", *Proc. National Conf. on Advances in Steel, Concrete and Composite Structures*, Dept. of Civil Engng., Government College of Technology, Coimbatore, India, pp. A-4 – A-8 (2009).
- CP185.R. Gettu, "Application of Self-Compacting Concrete", *Proc. National Conf. on Advances in Steel, Concrete and Composite Structures*, Dept. of Civil Engng., Government College of Technology, Coimbatore, India, pp. 1-6 (2009).
- CP184.C. Jayasree and R. Gettu, "Cement-Superplasticizer Interaction and Its Effect on the Flow Behaviour of Superplasticized Paste and Concrete", *Proc. 3rd Symp. on Chemical Admixtures for Concrete* (Ankara), Chamber of Civil Engineers, Ankara, Turkey, pp. 179-200 (2009).
- CP183.C. Jayasree and R. Gettu, "Mix Design of Self Compacting Concrete with Viscosity Modifying Admixtures", *Proc. ICI – Innovative World of Concrete '08 (4th Intl. Conf.) "Concrete for New Age Structures"* (Noida, Delhi), Indian Concrete Institute, New Delhi, 9 p. (2008).
- CP182.J. Mora Ruacho, R. Gettu and A. Aguado de Cea, "Influencia de los aditivos reductores de retracción y las fibras sobre la retracción plástica en concreto lanzado", *Proc. 3er Congreso Nacional ALCONPAT 2008* (Chihuahua), México, 9 p. (2008).
- CP181.V. Ponmalar, K.G. Babu and R. Gettu, "Experimental and Analytical Study on Confinement Effect of GFRP", *Proc. Sixth Structural Engng. Convention* (Chennai), Eds. Nagesh R. Iyer, A. Meher Prasad, G.M. Samuel Knight and K. Ramanjaneyulu, CBA Publishers, Chennai, India, pp. 1245-1252 (2008).

- CP180.S. Bhaskar, R. Gettu, B.H. Bharatkumar and M. Neelamegam, "Bond Behaviour of Rebars in Flyash Based High Performance Concrete", *Proc. Sixth Structural Engng. Convention (Chennai)*, Eds. Nagesh R. Iyer, A. Meher Prasad, G.M. Samuel Knight and K. Ramanjaneyulu, CBA Publishers, Chennai, India, pp. 1189-1196 (2008).
- CP179.C.J. de la Cruz, J. Turmo, R. Gettu, B. Barragán and G. Ramos, "Ensayos a cortante de vigas de hormigón estructural autocompactante", *Hormigón Autocompactante (HAC)*, *Proc. 1st Spanish Congress on Self-Compacting Concrete*, Eds. B.E. Barragán, A. Pacios and P. Serna, Valencia, Spain, pp. 417-425 (2008).
- CP178.C.J. de la Cruz, G. Ramos and R. Gettu, "Estudio de la adherencia del hormigón autocompactable de resistencia media", *Hormigón Autocompactante (HAC)*, *Proc. 1st Spanish Congress on Self-Compacting Concrete*, Eds. B.E. Barragán, A. Pacios and P. Serna, Valencia, Spain, pp. 395-405 (2008).
- CP177.R. Zerbino, B. Barragán, T. Garcia, L. Agullo and R. Gettu, "Efectos de la temperatura sobre los parámetros reológicos y propiedades ingenieriles del hormigón autocompactante", *Hormigón Autocompactante (HAC)*, *Proc. 1st Spanish Congress on Self-Compacting Concrete*, Eds. B.E. Barragán, A. Pacios and P. Serna, Valencia, Spain, pp. 317-326 (2008).
- CP176.R. Gettu, S. Nawaz Shareef and K.J.D. Ernest, "Evaluation of the Robustness of Self Compacting Concrete", *Hormigón Autocompactante (HAC)*, *Proc. 1st Spanish Congress on Self-Compacting Concrete*, Eds. B.E. Barragán, A. Pacios and P. Serna, Valencia, Spain, pp. 59-66 (2008).
- CP175.Rakesh Gopinath and R. Gettu, "Influence of Shrinkage Reducing Admixtures on Early Age Shrinkage", *Proc. 2nd Intl. Conf. on Advances in Concrete and Construction (ICACC-2008)* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan, V.S. Parameswaran and I. Patnaikuni, Vasavi College of Engineering, Hyderabad, pp. 1132-1142 (2008).
- CP174.C. Jayasree and R. Gettu, "Optimization of Superplasticized Cement Paste and its Correlation with Fresh Concrete Behaviour", *Proc. 2nd Intl. Conf. on Advances in Concrete and Construction (ICACC-2008)* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan, V.S. Parameswaran and I. Patnaikuni, Vasavi College of Engineering, Hyderabad, pp. 1042-1052 (2008).
- CP173.V. Ponmalar, Ganesh Babu and R. Gettu, "Confinement effect of FRP: Experimental and Model Calculations, Comparison of existing design guidelines", *Proc. 2nd Intl. Conf. on Advances in Concrete and Construction (ICACC-2008)* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan, V.S. Parameswaran and I. Patnaikuni, Vasavi College of Engineering, Hyderabad, pp. 891-899 (2008).
- CP172.R. Gettu, "Application of Self-Compacting Concrete: Recent experience and challenges that remain", *Proc. 2nd Intl. Conf. on Advances in Concrete and Construction (ICACC-2008)* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan, V.S. Parameswaran and I. Patnaikuni, Vasavi College of Engineering, Hyderabad, pp. 58-71 (2008).
- CP171.A. Pacios Álvarez, R. Gettu, S. Paz Zuleta, M. Pothapragada, "Modelos de intervención en la reconstrucción de viviendas afectadas por el tsunami en el estado de Tamil Nadu, India", *Proc. XI Congreso Internacional de Ingenieria de proyectos* (Lugo, Spain), pp. 1811-1822 (2007); <http://aeipro.com/index.php/en/repository/func-startdown/303/>.
- CP170.R. Gettu, "Special Concretes: Need and development", *Proc. National Seminar & Exhibition on Recent Developments in Design & Construction Technologies* (Bangalore), Association of Consulting Civil Engineers (India), Bangalore, p. 76 (2007).
- CP169.K. Narasimhulu, R. Gettu and K. Ganesh Babu, "Behaviour of Mortars and Concretes Incorporating Calcined Zeolites", *Proc. Second National Conf. on Recent Advances in Civil Engineering*, Cochin University of Science and Technology, Kochi, pp. 17-20 (2006).

- CP168.K. Narasimhulu, R. Gettu and K. Ganesh Babu, "Use of Beneficiated Zeolite in the Production of High Performance Concrete", *Proc. Intl. Seminar on Mineral Business Development: Beneficiation and value added mineral products*, Mineral Information & Development Centre (MIDC), Nagpur, pp. 128-132 (2006).
- CP167.J. Turmo, N. Banthia, R. Gettu and B. Barragán, "Study of the Shear Behaviour of Steel and Polypropylene Fibre Reinforced Concrete Beams", *Proc. 5th Asian Symp. on Polymers in Concrete* (Chennai), Eds. N. Lakshmanan, C.V. Vaidyanathan, Y. Ohama and M. Neelamegam, Allied Publishers, New Delhi, pp. 731-739, Vol. II (2006).
- CP166.J. Vijay Kumar, R. Gettu and K.J.D. Ernest, "Study of Cement-Superplasticizer Compatibility in Concrete", *Proc. 5th Asian Symp. on Polymers in Concrete* (Chennai), Eds. N. Lakshmanan, C.V. Vaidyanathan, Y. Ohama and M. Neelamegam, Allied Publishers, New Delhi, pp. 681-688, Vol. II (2006).
- CP165.C. Jayasree and R. Gettu, "Influence of Mixing Method on the Fluidity of Superplasticized Cement Paste", *Proc. 5th Asian Symp. on Polymers in Concrete* (Chennai), Eds. N. Lakshmanan, C.V. Vaidyanathan, Y. Ohama and M. Neelamegam, Allied Publishers, New Delhi, pp. 665-670, Vol II (2006).
- CP164.B. Barragán, R. Gettu, X. Pintado and M. Bravo, "Design of High Strength Self-Compacting Concrete for Tunnel Linings", *Measuring, Monitoring and Modeling Concrete Properties* (Proc. Intl. Symp., Alexandroupolis, Greece), Ed. M.S. Konsta-Gdoutos, Springer, The Netherlands, pp. 485-491 (2006).
- CP163.B. Barragán, R. Gettu, X. Pintado, M. Bravo, R. Rodriguez and J. Garcia-German, "Hormigón autocompactable de alta resistencia para el refuerzo de tuneles", *Proc. III Congreso ACHE de Puentes y Estructuras* (Zaragoza), ACHE, Madrid, Spain, Vol. 1, pp. 599-611 (2005).
- CP162.B. Barragán, R. Zerbino, R. Gettu, C. de la Cruz and M. Bravo, "Propiedades de durabilidad de muros delgados de hormigón autocompactable", *Proc. fib Symposium on Structural Concrete and Time* (La Plata, Argentina), Eds. A.A. Di Maio and C.J. Zega, LEMIT, La Plata, Argentina, Vol. 2, pp. 897-904 (2005).
- CP161.C. Aire, R. Gettu and J.R. Casas, "Tubos de acero rellenos de hormigón cargados axialmente", *Proc. fib Symposium on Structural Concrete and Time* (La Plata, Argentina), Eds. A.A. Di Maio and C.J. Zega, LEMIT, La Plata, Argentina, Vol. 2, pp. 777-784 (2005).
- CP160.L. Agulló, A. Aguado, T. Garcia and R. Gettu, "Diseño y caracterización de morteros de caucho. Aplicación en paneles ligeros de cerramiento", *Proc. 8th Latin-American Congress on Pathology of Construction (CONPAT 2005) and 10th Congress on Control of Quality in Construction* (Asuncion, Paraguay), Vol. I, pp. IV.9-IV.16 (2005).
- CP159.J.L.A.O. Sousa and R. Gettu, "Obtaining the Constitutive Tensile Relation of Concrete Through the Inverse Analysis of Notched Beam Test Data", *Proc. Structural Engineering Convention* (Bangalore), Eds. J.M. Chandra Kishen and D. Roy, Dept. of Civil Engineering, Indian Institute of Science, Bangalore, pp. 381-389 (2005).
- CP158.R. Gettu, B. Barragán and R.L. Zerbino, "On the Development of Fibre-Reinforced Self-Compacting Concrete", *Symp. on Developments in High Performance Cement and Fiber Reinforced Composites*, Dept. of Civil Engineering, Indian Institute of Science, Bangalore, 10 p. (2005).
- CP157.X. Pintado, B. Barragán, M. Bravo, R. Gettu, R. Rodríguez and J. García, "Development and Application of High-Strength Self-Compacting Concrete in Tunnel Lining", *Proc. Fourth Intl. RILEM Symp. on Self-Compacting Concrete & Second North American Conf. on the Design and Use of Self-Consolidating Concrete* (Chicago, Ill., USA), Ed. S.P. Shah, Hanley Wood, Addison, Ill., USA, pp. 1155-1160 (2005).

- CP156.T. Garcia, L. Agulló, A. Aguado and R. Gettu, "Diseño y caracterización de morteros con productos reciclados", *Proc. VI Congreso Nacional de Materiales Compuestos* (Valencia, Spain), Spanish Association for Composite Materials (AEMAC), Universidad Politécnica de Valencia, pp. 909-916 (2005).
- CP155.B.R.M. Reddy, A.L. Gain, M.L. Kiranmayi, M.N. Kumar, N.T. Narayan, T.N.D. Prasanth, T. Sumala, T. Geetla, Aishwarya, R. Gettu, J.M. Krishnan and M. Santhanam, "Fabrication of Cement-Grouted Asphalt Concrete for Semi-Flexible Pavements", *Proc. 2nd National Conf. on Advances in Materials and Mechanics of Concrete Structures* (Chennai), Ed. G. Appa Rao, Allied Publishers, New Delhi, pp. 191-195 (2005).
- CP154.F. Pasini, R. Gettu, T. Garcia and L. Agulló, "Study of the Rheological Properties of Fibre Reinforced Shotcretes", *Proc. 2nd National Conf. on Advances in Materials and Mechanics of Concrete Structures* (Chennai), Ed. G. Appa Rao, Allied Publishers, New Delhi, pp. 119-125 (2005).
- CP153.R. Gettu, B. Barragán and A. Pacios, "Possibilities and Limitations of Self-Compacting Concrete", *Proc. 2nd National Conf. on Advances in Materials and Mechanics of Concrete Structures* (Chennai), Ed. G. Appa Rao, Allied Publishers, New Delhi, pp. 28-41 (2005).
- CP152.J. Turmo, G. Ramos, R. Gettu and A.C. Aparicio, "Towards the Use of Steel Fibres as Shear Reinforcement", *Proc. 2nd National Conf. on Advances in Materials and Mechanics of Concrete Structures* (Chennai), Ed. G. Appa Rao, Allied Publishers, New Delhi, pp. 18-27 (2005).
- CP151.B. Barragán, R. Gettu, C. de la Cruz, M. Bravo and R. Zerbino, "Development and Application of Fibre-Reinforced Self-Compacting Concrete", *Young Researchers' Forum* (Proc. Intl. Conf., Dundee, UK), Eds. R.K. Dhir, J.E. Halliday and E. Csetenyi, Thomas Telford, London, pp. 165-172 (2005).
- CP150.A. Josa, R. Gettu and A. Aguado, "Environmental Assessment of Cement Based Products: Life cycle assessment and the Ecoconcrete software tool", *Achieving Sustainability in Construction* (Proc. Intl. Conf., Dundee, UK), Eds. R.K. Dhir, T.D. Dyer and M.D. Newlands, Thomas Telford, London, pp. 281-290 (2005).
- CP149.R. Gettu, B. Barragán, R.L. Zerbino, C. Bernad, M. Bravo and C. Cruz, "Development of Self-Compacting Concrete for Prefabricated Street Furniture", *Achieving Sustainability in Construction* (Proc. Intl. Conf., Dundee, UK), Eds. R.K. Dhir, T.D. Dyer and M.D. Newlands, Thomas Telford, London, pp. 151-158 (2005).
- CP148.R. Gettu and J. Roncero, "On the Long-Term Response of Concrete with a Shrinkage Reducing Admixture", *Admixtures – Enhancing concrete performance* (Proc. Intl. Conf., Dundee, UK), Eds. R.K. Dhir, P.C. Hewlett and M.D. Newlands, Thomas Telford, London, pp. 209-216 (2005).
- CP147.C. Aire, R. Gettu, J.R. Casas, S. Marques and D. Marques, "Compressive Behavior of Concrete Confined with Fibre Reinforced Polymer Wraps", *Proc. Intl. Conf. on Advances in Concrete Composites and Structures* (Chennai), Eds. N. Lakshmanan, S. Gopalakrishnan and H.G. Sreenath, Allied Publishers, New Delhi, pp. 825-832 (2005).
- CP146.B. Barragán, R. Gettu, G. Ramos, T. Garcia, C. Fernández and R. Oliver, "Potential Use of Steel Fiber Reinforced Concrete for the Barcelona Metro Tunnel Lining", *Proc. Intl. Conf. on Concrete and Construction* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan and V.S. Parameswaran, Allied Publishers, New Delhi, Vol. II, pp. 603-614 (2004).
- CP145.R. Gettu, B. Barragán, T. Garcia and A. Pacios, "On the Utilization of Self-Compacting Concrete", *Proc. Intl. Conf. on Concrete and Construction* (Hyderabad), Eds. P. Jagannadha Rao, V. Ramakrishnan and V.S. Parameswaran, Allied Publishers, New Delhi, Vol. I, pp. 161-178 (2004).

- CP144.R. Gettu, G. Ramos, B. Barragán, T. Garcia and C. Fernández, "Experimental Study of the Steel Fiber Reinforced Concrete for the Segmental Tunnel Lining of a Subway Line in Barcelona", *Proc. fib Symp. on Segmental Construction in Concrete (New Delhi)*, Institution of Engineers (India), abstract in Summary Volume, pp. 131-133; full paper in CD-Rom, 10 p., (2004).
- CP143.C. Aire, R. Gettu, R. Casas, J. Marques and D. Marques, "Modelo del comportamiento tensión-deformación de concreto confinado con FRP", *Proc. XIV Congreso Nacional de Ingeniería Estructural*, Acapulco-Guerrero, México, 10 p. (2004).
- CP142.C. Aire and R. Gettu, "Influencia de la dilatación del concreto en la respuesta tensión-deformación de concretos confinados con FRP", *Proc. II Congreso Internacional de la Construction*, Lima, Perú, 10 p. (2004).
- CP141.J.L.A.O. Sousa and R. Gettu, "Influência da taxa de carregamento sobre o comportamento pós-pico de concreto em tração determinado em ensaios de vigas ranhuradas", *Proc. Encontro Nacional Betão Estrutural 2004* (Porto, Portugal), Ed. J.A. Figueiras, Faculdade de Engenharia da Universidade do Porto, Portugal, pp. 317-324 (2004).
- CP140.J.L.A.O. Sousa and R. Gettu, "Inverse Analysis of Notched-Beam Test Data for Obtaining Tensile Stress-Crack Opening Relation of Fiber Reinforced Concrete", *Fibre-Reinforced Concretes* (Proc. 6th Intl. RILEM Symp., Varenna, Italy), Eds. M.di Prisco, R.Fellicetti and G.A.Plizzari, RILEM Publications, Bagneux, France, pp. 809-818 (2004).
- CP139.J. Barros, R. Gettu and B. Barragán, "Material Nonlinear Analysis of Steel Fibre Reinforced Concrete Beams Failing in Shear", *Fibre-Reinforced Concretes* (Proc. 6th Intl. RILEM Symp., Varenna, Italy), Eds. M. di Prisco, R. Fellicetti and G.A. Plizzari, RILEM Publications, Bagneux, France, pp. 711-720 (2004).
- CP138.B. Barragán, R. Zerbino, R. Gettu, M. Soriano, C. de la Cruz, G. Giaccio and M. Bravo, "Development and Application of Steel Fiber Reinforced Self-Compacting Concrete, *Fibre-Reinforced Concretes* (Proc. 6th Intl. RILEM Symp., Varenna, Italy), Eds. M.di Prisco, R.Fellicetti and G.A.Plizzari, RILEM Publications, Bagneux, France, pp. 455-464 (2004).
- CP137.F. Pasini, T. Garcia, R. Gettu and L. Agulló, "Experimental Study of the Properties of Flowable Fiber Reinforced Concretes", *Fibre-Reinforced Concretes* (Proc. 6th Intl. RILEM Symp., Varenna, Italy), Eds. M. di Prisco, R. Fellicetti and G.A. Plizzari, RILEM Publications, Bagneux, France, pp. 279-288 (2004).
- CP136.R. Gettu, B. Barragán, T. García, G. Ramos, C. Fernández and R. Oliver, "Steel Fiber Reinforced Concrete for the Barcelona Metro Line 9 Tunnel Lining", *Fibre-Reinforced Concretes* (Proc. 6th Intl. RILEM Symp., Varenna, Italy), Eds. M. di Prisco, R. Fellicetti and G.A. Plizzari, RILEM Publications, Bagneux, France, pp. 141-156 (2004).
- CP135.R. Gettu, G. Ramos, T. García, B. Barragán, C. Fernández and M. Cordero, "Estudio experimental del hormigón reforzado con fibras para uno de los tramos del túnel de la Línea 9 del Metro de Barcelona", *Proc. XXXI Jornadas Sud-Americanas de Ingeniería Estructural* (Mendoza, Argentina), ISBN: 1806-3985, 17 p. (2004).
- CP134.A.C. dos Santos, T.N. Bittencourt and R. Gettu, "Experimental Analysis of Interface between CFRP and Concrete Using Cylindrical Specimens", *Fibre-Reinforced Polymer Reinforcement for Concrete Structures* (Proc. Sixth Intl. Conf., Singapore), Ed. K.H. Tan, World Scientific, Singapore, pp. 173-182 (2003).
- CP133.R. Gettu, P.C.C. Gomes, L. Agulló and A. Josa, "High-Strength Self-Compacting Concrete with Fly Ash: Development and Utilization", *Proc. Eighth CANMET/ACI Intl. Conf. on Fly Ash, Silica Fume, Slag, and Natural Pozzolans in Concrete* (Las Vegas, USA), ACI SP-221, Ed. V.M.Malhotra, American Concrete Institute, Farmington Hills, USA, pp. 507-522 (2004).

- CP132.R. Gettu, J.M. Sena-Cruz, J.A.O. Barros, A.C. dos Santos and T.Bittencourt, "On the Experimental Study of the Interface between a Fiber Composite Lamina and Concrete", *Proc. NSF Workshop on Interface Modeling* (Vail, Colorado, USA), Eds. K. Willam and Y. Xi, Dept. of Civil Engng., University of Colorado, Boulder, USA, pp. 8-11 (2004).
- CP131.J. Sena-Cruz, J. Barros and R. Gettu, "Comportamento da ligação de laminados de CFRP inseridos no betão sob acções cíclicas", *Sísmica 2004* (Proc. 6º Congresso Nacional de Sismologia e Engenharia Sísmica, Portugal), Eds. P.B. Lourenço, J.O. Barros and D.V. Oliveira, Dept. of Civil Engng., School of Engineering, University of Minho, Guimarães, Portugal, pp. 591-600 (2004).
- CP130.J.L.A.O. Sousa and R. Gettu, "Inverse Analysis for Obtaining Softening Curves for Plain and Fiber Reinforced Concretes", *Recent Developments in the Modelling of Rupture in Solids* (Proc. Intl. Symp., Foz de Iguaçu, Brazil), Eds. A. Benallal and S.P.B. Proença, pp. 37-42 (2003).
- CP129.G. Ramos, R. Gettu, A. Aguado, T. García, C. Fernández and R. Oliver, "Utilización de fibras de acero en la nueva Línea 9 del Metro de Barcelona", *Design of Steel Fiber Reinforced Concrete Structures*, Eds. J. Barros, P. Rossi and B. Massicotte, Universidade do Minho, Guimaraes, Portugal, pp. 10.1-10.42 (2003).
- CP128.R. Gettu, G. Ramos, T. García and B.E. Barragán, "On the Quality Control of Fiber Reinforced Concrete in the Context of Prefabricated Underground Tunnel Lining Segments", *Design of Steel Fiber Reinforced Concrete Structures*, Eds. J. Barros, P. Rossi and B. Massicotte, Universidade do Minho, Guimarães, Portugal, pp. 9.1-9.7 (2003).
- CP127.C. Aire, R. Gettu, J.R. Casas and C. Cots, "Los materiales compuestos en la construcción", *Proc. XIV Congreso Nacional de Ingeniería Civil*, Iquitos, Peru, 10 p. (2003).
- CP126.C. Aire, R. Gettu and J.R. Casas, "Estudio experimental del comportamiento del concreto confinado con polímeros reforzados con fibra", *Proc. XIV Congreso Nacional de Ingeniería Civil*, Iquitos, Peru, 10 p. (2003).
- CP125.J. Ortiz, A. Aguado, L. Agulló, R. Gettu and T. García, "Influencia de altas temperaturas en el comportamiento del hormigón: Simulación de las condiciones de verano", *Proc. VII Congreso Latinoamericano de Patología de la Construcción y IX Congreso de Control de la Calidad en la Construcción, CONPAT 2003* (Mérida, Mexico), CD Rom, ISBN: 968-464-134-6, Eds. P.Castro and E.Moreno, pp. XII.17-XII.24 (2003).
- CP124.J. Mora, A. Aguado and R. Gettu, "Influencia de los aditivos reductores de retracción sobre la retracción plástica", *Proc. VII Congreso Latinoamericano de Patología de la Construcción y IX Congreso de Control de la Calidad en la Construcción, CONPAT 2003* (Mérida, Mexico), CD Rom, ISBN: 968-464-134-6, Eds. P. Castro and E. Moreno, pp. II.65-II.72 (2003).
- CP123.J. Roncero, R. Gettu and M.A. Martín, "Evaluation of the Influence of a Shrinkage Reducing Admixture on the Microstructure and Long-Term Behavior of Concrete", *Proc. Seventh CANMET/ACI Intl. Conf. on Superplasticizers and Other Chemical Admixtures in Concrete* (Berlin), Supplementary papers, pp. 207-226 (2003).
- CP122.A. Josa, A. Aguado and R. Gettu, "Life Cycle Assessment of Concrete Products", *Proc. 5th National Congress on Concrete*, Istanbul, Turkey, ISBN: 975-395-639-8, Maya Basin Yayin, Istanbul, pp. 279-292 (2003).
- CP121.R. Gettu, H. Collie, C. Bernad, T. Garcia and C. Robin, "Use of High-Strength Self-Compacting Concrete in Prefabricated Architectural Elements", *Proc. Intl. Conf. on Recent Trends in Concrete Technology and Structures*, Vol. II, Eds. D.L. Venkatesh Babu, R. Gettu and R. Krishnamoorthy, Kumaraguru College of Technology, Coimbatore, India, pp. 355-363 (2003).

- CP120.M. Soriano, R. Zerbino, G. Giaccio, B. Barragán and R. Gettu, "Development and Characterization of Steel Fiber Reinforced Self-compacting Concrete", *Proc. Intl. Conf. on Recent Trends in Concrete Technology and Structures*, Vol. II, Eds. D.L. Venkatesh Babu, R. Gettu and R. Krishnamoorthy, Kumaraguru College of Technology, Coimbatore, India, pp. 316-322 (2003).
- CP119.R. Gettu, "Recent Trends in Concrete Technology", *Proc. Intl. Conf. on Recent Trends in Concrete Technology and Structures*, Vol. I, Eds. D.L. Venkatesh Babu, R. Gettu and R. Krishnamoorthy, Kumaraguru College of Technology, Coimbatore, India, pp. 1-12 (2003).
- CP118.P.C.C. Gomes, R. Gettu and L. Agulló, "Uma nova metodologia para obtenção de concreto auto-adensável de alta resistência com aditivos minerais", *Proc. V Simp. EPUSP sobre Estruturas de Concreto*, São Paulo, Brazil, 14 p. (2003).
- CP117.J.L.A.O. Sousa, R. Gettu and B.E. Barragán, "On the Inverse Analysis for Determining Softening Parameters for Fiber Reinforced Concrete Subject to Tensile Stresses", *Proc. V Simp. EPUSP sobre Estruturas de Concreto*, São Paulo, Brazil, 9 p. (2003).
- CP116.A.C. dos Santos, T.N. Bittencourt and R. Gettu, "Ensaio com corpo-de-prova cilíndrico para análise da interfase entre concreto e polímero reforçado com fibra", *Proc. V Simp. EPUSP sobre Estruturas de Concreto*, São Paulo, Brazil, 25 p. (2003).
- CP115.L.E.T. Ferreira, T.N. Bittencourt, R. Gettu and J.L.A.O. Sousa, "Análise do colapso estrutural do concreto de alta resistência e do concreto reforçado com fibras do aço, através do uso das curvas de resistência ao fraturamento", *Proc. V Simp. EPUSP sobre Estruturas de Concreto*, São Paulo, Brazil, 14 p. (2003).
- CP114.A. Josa, A. Aguado, A. Cardim and R. Gettu, "Construcción y medio ambiente. Evaluación ambiental de productos derivados del cemento. Aplicación a pavimentos de hormigón", *Proc. 2nd Inter-American Concrete Pavements Congress*, Cartagena, Colombia, 26 p. (2000).
- CP113.A. Pacios, R. Gettu and V. López, "Concrete Used in Street Furniture and Architectural Elements in Spain. Where is the Limit?", abstract in *Proc. 2nd Intl. Symposium & Exhibition on Street Furniture*, Istanbul, Turkey, p. 72 (2003); A. Pacios, R. Gettu and V. López, "Concrete Used in Street Furniture and Architectural Elements in Spain. Where is the Limit?" (in Turkish and English), *Post-conference publication*, pp. 483-503 (2003).
- CP112.R. Gettu, A. Pacios and L. Agulló, "High-Strength Self-Compacting Concrete with Fly Ash - Possibilities for Street Furniture", abstract in *Proc. 2nd Intl. Symposium & Exhibition on Street Furniture*, Istanbul, Turkey, p. 57 (2003); R. Gettu, H. Collie, R. Garcia, C. Bernad and C. Robin, "High-Strength Self-Compacting Concrete with Fly Ash - Possibilities for Street Furniture" (in Turkish and English), *Post-conference publication*, pp. 361-375 (2003).
- CP111.V.O. Garcia-Álvarez, R. Gettu and I. Carol, "Study of the Evolution of the Fracture Process Zone in a Quasi-Brittle Material Using a Cohesive Crack Model", *Computational Plasticity VII: Fundamentals and Applications* (Proc. Seventh Intl. Conf.), Eds. D.R.J.Owen, E. Oñate and S.Suárez, CIMNE, Barcelona, Spain, p. 228 (2003); Complas VII CD Rom, Eds. E.Oñate and D.R.J.Owen, 15 p. (2003).
- CP110.F. Capilla, R. Gettu and G. Ramos, "Prestressed Bridge Elements", *Test and Design Methods for Steel Fibre Reinforced Concrete: Background and experiences* (Proc. RILEM TC 162-TDF Workshop), Eds. B.Schnütgen and L.Vandewalle, RILEM Publications, Bagneux, France, pp. 189-199 (2003).
- CP109.R. Gettu and B.E. Barragán, "Direct Tension Test and Interpretation", *Test and Design Methods for Steel Fibre Reinforced Concrete: Background and experiences* (Proc. RILEM TC 162-TDF Workshop), Eds. B.Schnütgen and L.Vandewalle, RILEM Publications, Bagneux, France, pp. 15-30 (2003).

- CP108. J. Mora, A. Aguado and R. Gettu, "Estudio de la fisuración por retracción plástica en hormigones sujetos a altos índices de evaporación", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 675-684 (2002).
- CP107. B.E. Barragán and R. Gettu, "Cálculo a cortante de vigas de hormigón reforzado con fibras de acero basado en la respuesta a tracción uniaxial", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 609-618 (2002).
- CP106. J. Turmo, N. Banthia, R. Gettu and B. Barragán, "Estudio del comportamiento a cortante de vigas de hormigón reforzado con fibras", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 539-548 (2002).
- CP105. J. Piernagorda, J. Turmo, G. Ramos, R. Gettu and A.C. Aparicio, "Ensayos a rotura por cortante de vigas de dovelas de hormigón con pretensado exterior y junta seca", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 391-398 (2002).
- CP104. S. Llopart, T. Polo, J. Turmo, G. Ramos, R. Gettu and A.C. Aparicio, "Ensayos sobre paneles de juntas de dovelas a cortante. Hormigón convencional frente a hormigón con fibras de acero", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 381-390 (2002).
- CP103. J. Roncero, R. Gettu and M.A. Martín, "Influencia de un aditivo reductor de retracción en el comportamiento diferido de hormigones estructurales", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 179-188 (2002).
- CP102. R. Gettu, P.C.C. Gomes and L. Agulló, "Diseño de hormigones autocompactables de alta resistencia. Dosificación y métodos de caracterización", *Comunicaciones II Congreso ACHE, 2002, Puentes y Estructuras de Edificación*, Asociación Científica-Técnica de Hormigón Estructural, Madrid, pp. 13-22 (2002).
- CP101. P.C.C. Gomes, R. Gettu, L. Agulló and C. Bernad, "Mixture Proportioning of High-Strength Self-Compacting Concrete Using Simple Test Methods", *High-Performance Concrete: Performance and Quality of Concrete Structures*, Proc. Third CANMET/ACI Intl. Conf. (Recife, Brazil), Supplementary CD, ACI International, Farmington Hills, Michigan, USA, 12 p. (2002).
- CP100. R. Gettu, B.E. Barragán, J.L.A.O. Sousa, M.A. Martín and I. Burnett, "Experimental and Numerical Study of Shear Failure of Fiber Reinforced Concrete Beams", *High-Performance Concrete: Performance and Quality of Concrete Structures*, Proc. Third CANMET/ACI Intl. Conf. (Recife, Brazil), Supplementary CD, ACI International, Farmington Hills, Michigan, USA, 10 p. (2002).
- CP99. J. Roncero, M.A. Martín, R. Gettu, F. Servós and A. Godes, "Study of the Effect of Shrinkage Reducing and Internal Curing Admixtures on the Microstructure and Drying Shrinkage of Concrete", *High-Performance Concrete: Performance and Quality of Concrete Structures*, Proc. Third CANMET/ACI Intl. Conf. (Recife, Brazil), Supplementary CD, ACI International, Farmington Hills, Michigan, USA, 11 p. (2002).
- CP98. B.I.G. Barr, B.E. Barragán, D. Dupont, E. Erdem, R. Gettu, M.K. Lee, J.F. Olesen, S. Schaerlaekens, B. Schnutgen, H. Stang and L. Vandewalle, "Test Methods for Steel Fibre Reinforced Concrete", *Proc. 27th Conf. on Our World in Concrete & Structures*, CI-Premier Pte. Ltd., Singapore, pp. 25-32 (2002).
- CP97. R. Gettu, J. Izquierdo, P.C.C. Gomes and A. Josa, "Development of High-Strength Self-Compacting Concrete with Fly Ash: A four-step experimental methodology", *Proc. 27th Conf. on Our World in Concrete & Structures*, CI-Premier Pte. Ltd., Singapore, pp. 217-224 (2002).

- CP96. R. Gettu, J. Roncero and M.A. Martín, "New Chemical Admixtures for Concrete: Superplasticizers and Shrinkage Reducing Admixtures", *Role of Chemical Admixtures in Concrete Construction*, Kumaraguru College of Technology, Coimbatore, India, pp. 1-13 (2002).
- CP95. A. Aguado, L. Agulló, R. Gettu and J. Vilardell, "Determinación simplificada del módulo de deformación del hormigón de presas", *VII Jornadas Españolas de Presas* (Zaragoza), Vol. III, pp. 345-353 (2002).
- CP94. R. Fernández, R. Gettu and A. Aguado, "Análisis numérico de la fractura en el ensayo de tracción indirecta", *Anales de Mecánica de Fractura*, Proc. XIX Encuentro del Grupo Español de Fractura (Girona), Vol. 19, pp. 423-427 (2002).
- CP93. J.L.A.O. Sousa, R. Gettu and B.E. Barragán, "Inverse Analysis of the Notched Beam Response for Determining the sigma-w Curve for Plain and Fiber Reinforced Concretes", *Anales de Mecánica de Fractura*, Proc. XIX Encuentro del Grupo Español de Fractura (Girona), Vol. 19, pp. 393-398 (2002).
- CP92. V.O. García-Álvarez, R. Gettu and I. Carol, "Analysis of Mixed Mode Fracture in Quasi-brittle Materials using the Discrete Crack Method", *Anales de Mecánica de Fractura*, Proc. XIX Encuentro del Grupo Español de Fractura (Girona), Vol. 19, pp. 361-366 (2002).
- CP91. J.L.A.O. Sousa, B.E. Barragán and R. Gettu, "Inverse Analysis to Obtain Constitutive Relations for Concrete from Tests on Notched Beams", *Proc. 22nd Iberian Latin-American Congress on Computational Methods in Engineering* (Campinas, Brazil), 10 p. (2001).
- CP90. P.C.C. Gomes, R. Gettu, L. Agulló and C. Bernad, "Experimental Optimization of High-Strength Self-Compacting Concrete", *Proc. Second Intl. Symp. on Self-Compacting Concrete* (Tokyo), Eds. K.Ozawa and M.Ouchi, COMS Engng. Corp., Kochi, Japan, pp. 377-386 (2001).
- CP89. R. Gettu, P.C.C. Gomes, L. Agulló and C. Bernad, "Hormigones autocompactables. Desarrollo y caracterización", *Aditivos, Adiciones y Tratamientos especiales para hormigón y mortero* (V Simposio ANFAH, Madrid), 15 p. (2001).
- CP88. J. Roncero, R. Gettu and M.A. Martín, "Influencia de los superfluidificantes y aditivos reductores de retracción en el comportamiento diferido del hormigón estructural", *Aditivos, Adiciones y Tratamientos especiales para hormigón y mortero* (V Simposio ANFAH, Madrid), 23 p. (2001).
- CP87. J.F. Fernandes, C.M.U. Aire, R. Gettu and P.A.O. Almeida, "An Experimental Study of Confined Concrete for the Design of Composite Columns", *Composites in Construction* (Porto, Portugal), Eds. J.Figueiras et al., A.A.Balkema Publishers, Lisse, The Netherlands, pp. 251-256 (2001).
- CP86. C. Aire, R. Gettu and J.R. Casas, "Study of the Compressive Behavior of Concrete Confined by Fiber Reinforced Composites", *Composites in Construction* (Porto, Portugal), Eds. J.Figueiras et al., A.A.Balkema Publishers, Lisse, The Netherlands, pp. 239-243 (2001).
- CP85. A.C. dos Santos, R. Gettu and T. Bittencourt, "Study of the Bond Failure Between Carbon Fibers and Concrete Under Shear", *Composites in Construction* (Porto, Portugal), Eds. J.Figueiras et al., A.A.Balkema Publishers, Lisse, The Netherlands, pp. 223-226 (2001).
- CP84. J.F. Fernandes, R. Gettu and P.A.O. Almeida, "Estudo comparativo dos confinamentos ativo e passivo para o concreto", *Proc. 43rd Brazilian Congress on Concrete* (IBRACON, Foz do Iguaçu, Brazil), 11 p., Instituto Brasileiro do Concreto (2001).
- CP83. J. Roncero and R. Gettu, "Scanning Electron Microscopy Applied to the Study of Cement Pastes Incorporating Chemical Admixtures", *Microscopy, Barcelona 2001*, Universitat de Barcelona, Spain, pp. 519-520 (2001).
- CP82. A. Josa, A. Cardim, A. Aguado and R. Gettu, "Considerations in the Life Cycle Assessment of Precast Concrete Products", *Prefabricating on the Eve of the Third Millennium* (16th Intl. Congress of the Precast Concrete Industry, Venice, Italy), pp. 45-51 (1999).

- CP81. B. Toralles-Carbonari, R. Gettu and L. Agulló, "Produção e controle de concretos de alto desempenho e de alta resistência: Alguns aspectos relevantes", VII Encontro Nac. de Tecnologia do Ambiente Construído (Florianópolis, Brazil), Univ. Fed. de Santa Catarina, Brazil, pp. 57-62 (1998).
- CP80. J. Roncero, R. Gettu and I. Carol, "Effect of Superplasticizers on Shrinkage and Weight Loss of Cement Mortars Subjected to Drying", *Creep, Shrinkage and Durability Mechanics of Concrete and Other Quasi-brittle Materials* (Sixth Intl. Conf., Cambridge, USA), Eds. F.-J. Ulm, Z.P. Bazant and F.H. Wittmann, Elsevier, Amsterdam, pp. 691-696 (2001).
- CP79. R. Gettu, J. Roncero and M.A. Martín, "Evaluation of the Performance of Concretes Incorporating a Shrinkage Reducing Chemical Admixture", *Creep, Shrinkage and Durability Mechanics of Concrete and Other Quasi-brittle Materials* (Sixth Intl. Conf., Cambridge, USA), Eds. F.-J. Ulm, Z.P. Bazant and F.H. Wittmann, Elsevier, Amsterdam, pp. 679-684 (2001).
- CP78. R. Gettu, J. Roncero and M.A. Martín, "New Chemical Admixtures for Concrete: Effectiveness and practical implications", *Proc. Intl. Conf. on Civil Engineering* (Bangalore, India), Interline Publishing, Bangalore, India, Vol. 1 - Invited Keynote Papers, pp. 111-122 (2001).
- CP77. J. Mora, R. Gettu, C. Olazábal and M.A. Martín, "Study of Plastic Shrinkage Cracking in Concrete due to High Rates of Evaporation", *Concrete Under Severe Conditions: Environment and loading* (Intl. Conf., Vancouver), Eds. N. Banthia, K. Sakai and O.E. Gjörv, University of British Columbia, Vancouver, Canada, pp. 1425-32 (2001).
- CP76. L. Ferrara and R. Gettu, "Size Effect in Splitting Tests on Plain and Steel Fiber-Reinforced Concrete: A Non-local Damage Analysis", *Fracture Mechanics of Concrete Structures, Proc. Fourth International Conference on Fracture Mechanics of Concrete and Concrete Structures* (Cachan, France), Eds. R. de Borst, J. Mazars, G. Pijaudier-Cabot and J. van Mier, A.A.Balkema, pp. 677-684 (2001).
- CP75. M. di Prisco, R. Fellicetti, F. Iorio and R. Gettu, "On the Identification of SFRC Tensile Constitutive Behaviour", *Fracture Mechanics of Concrete Structures, Proc. Fourth International Conference on Fracture Mechanics of Concrete and Concrete Structures* (Cachan, France), Eds. R. de Borst, J. Mazars, G. Pijaudier-Cabot and J. van Mier, A.A.Balkema, pp. 541-548 (2001).
- CP74. J. Roncero, R. Gettu and S. Valls, "Influence of the Type of Superplasticizer on the Microstructure of Hardened Cement", *Fifth CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete* (Nice, France), Supplementary Papers, Ed. V.M.Malhotra, CANMET/ACI, pp. 121-136 (2000).
- CP73. J. Mora, R. Gettu, C. Olazábal, M.A. Martín and A. Aguado, "Effect of the Incorporation of Fibers on the Plastic Shrinkage of Concrete", *Fibre-Reinforced Concretes (FRC)*, BEFIB'2000 (Lyon, France), Eds. P.Rossi and G.Chanvillard, RILEM Publications S.A.R.L., Cachan, France, pp. 705-714 (2000).
- CP72. B. Barragán, R. Gettu, R.F. Zalochi, M.A. Martín and L. Agulló, "A Comparative Study of the Toughness of Steel Fiber Reinforced Concrete in Tension, Flexure and Shear", *Fibre-Reinforced Concretes (FRC)*, BEFIB'2000 (Lyon, France), Eds. P. Rossi and G. Chanvillard, RILEM Publications S.A.R.L., Cachan, France, pp. 441-450 (2000).
- CP71. L. Ferrara and R. Gettu, "Non-local damage analysis of three-point-bending tests on SFRC", *Fibre-Reinforced Concretes (FRC)*, BEFIB'2000 (Lyon, France), Eds. P.Rossi and G.Chanvillard, RILEM Publications S.A.R.L., Cachan, France, pp. 357-367 (2000).
- CP70. L.E.T. Ferreira, T. Bittencourt and R. Gettu, "Determinação computacional das equações da mecânica de fraturamento elástico linear ", *Proc. IV Symposium EPUSP on Concrete Structures*, São Paulo, Brazil, 17 p. (2000).
- CP69. R.F. Zalochi, B.E. Barragán, R. Gettu, L. Agulló and P.A.O. Almeida, "Estudo experimental de apoios de altura reduzida em vigas com incorporação de fibras de aço", *Proc. IV Symposium EPUSP on Concrete Structures*, São Paulo, Brazil, 14 p. (2000).

- CP68. J.F. Fernandes, C.M. Aire, R. Gettu, L. Agulló and P.A.O. Almeida, "Comportamento do concreto de alta resistência submetido a tensões de confinamento", *Proc. IV Symposium EPUSP on Concrete Structures*, São Paulo, Brazil, 16 p. (2000).
- CP67. R. Gettu, "Use of Advanced Chemical Admixtures in Concrete: Optimization, Characterization and Utilization of the Concrete", abstract in *Proc. IV Symposium EPUSP on Concrete Structures*, São Paulo, Brazil (2000).
- CP66. G. Etse, D. Sfer, I. Carol and R. Gettu, "Failure Analysis of Concrete Under Multiaxial Stress State", *Proc. European Congress on Computational Methods in Applied Sciences and Engineering* (ECCOMAS 2000, Barcelona), 19 p., CIMNE, Barcelona (2000).
- CP65. V.O. García-Álvarez, R. Gettu and I. Carol, "Numerical Analysis of Mixed Mode Fracture in Concrete using Interface Elements", *Proc. European Congress on Computational Methods in Applied Sciences and Engineering* (ECCOMAS 2000, Barcelona), 20 p., CIMNE, Barcelona (2000).
- CP64. B.E. Barragán, D. Gardner, R. Gettu and L.E.T. Ferreira, "Estudo da distribuição das fibras metálicas em corpos-de-prova cilíndricos de concreto", *Proc. 42nd Brazilian Congress on Concrete* (IBRACON, Fortaleza, Brazil), 12 p., Instituto Brasileiro do Concreto (2000).
- CP63. R.F. Zalochi, B.E. Barragán, R. Gettu and P.A.O. Almeida, "Estudo da ductilidade de apoios de altura reduzida em vigas com incorporação de fibras de aço", *Proc. 42nd Brazilian Congress on Concrete* (IBRACON, Fortaleza, Brazil), 16 p., Instituto Brasileiro do Concreto (2000).
- CP62. J.F. Fernandes, C.M. Aire, R. Gettu and L. Agulló, "Concreto de alta resistencia e normal submetido ao estado triaxial", *Proc. 42nd Brazilian Congress on Concrete* (IBRACON, Fortaleza, Brazil), 13 p., Instituto Brasileiro do Concreto (2000).
- CP61. R. Gettu, J. Roncero and P.C.C. Gomes, "Utilization of New Chemical Admixtures in Concrete: Implications for Construction Practice", *Proc. 42nd Brazilian Congress on Concrete* (IBRACON, Fortaleza, Brazil), 26 p., Instituto Brasileiro do Concreto (2000).
- CP60. J. Mora, M.A. Martín, R. Gettu and A. Aguado, "Study of Plastic Shrinkage Cracking, and the Influence of Fibers and a Shrinkage Reducing Admixture", *Proc. Fifth CANMET/ACI Intl. Conf. on Durability of Concrete* (Barcelona), Supplementary papers, pp. 469-483, American Concrete Institute (2000).
- CP59. J. Roncero, R. Gettu and I. Carol, "Effect of Chemical Admixtures on the Shrinkage of Cement Mortars", *Proc. 14th Engineering Mechanics Conference*, American Society of Civil Engineers, EM2000, CD-ROM (2000).
- CP58. D. Sfer, G. Etse, I. Carol and R. Gettu, "Análisis numérico experimental de procesos de localización de hormigón en régimen de alto confinamiento", *Proc. 61 Congreso Argentino de Mecánica Computacional* (Mendoza, Argentina), MECCOM 99, CD-ROM, ISBN: 987-96707-2-8 (1999).
- CP57. B. Toralles-Carbonari, L. Agulló and R. Gettu, "Study of the Flow Behavior of Cement Pastes with Mineral Admixtures and Superplasticizers", *Proc. II International Conference on High-Performance Concrete, and Performance and Quality of Concrete Structures* (Gramado, Brazil), Supplementary papers, CD-ROM, ISBN: 33.06.05.99, ACI/CANMET (1999).
- CP56. G. Carbonari, R. Gettu and A. Aguado, "Evaluation of Material Models for the Shrinkage and Creep of High Strength Concretes and the Use of Experimental Data for Predicting the Long-term Structural Response", *Proc. II International Conference on High-Performance Concrete, and Performance and Quality of Concrete Structures* (Gramado, Brazil), Supplementary papers, CD-ROM, ISBN: 33.06.05.99, ACI/CANMET (1999).
- CP55. A. Aguado, L. Agulló and R. Gettu, "Reflexiones sobre el incremento del valor añadido en las estructuras de hormigón", *Proc. 1er. Congreso de la Asociación Científico-Técnica del Hormigón Estructural* (Sevilla), pp. 403-412 (1999).

- CP54. J. Roncero and R. Gettu, "Estudio de la influencia de aditivos superfluidificantes sobre las características y comportamiento del hormigón", *La Ingeniería Civil del Siglo XXI (Proc. III Congreso Nacional de la Ingeniería Civil, Barcelona)*, Ed. L. Berga, Col. Ing. de Caminos, Canales y Puertos, Madrid, pp. 1015-1020 (1999).
- CP53. R. Gettu, A. Aguado, L. Agulló and M.A. Martín, "Avances en la caracterización del comportamiento mecánico del hormigón y sus implicaciones para hormigones de altas prestaciones", *La Ingeniería Civil del Siglo XXI (Proc. III Congreso Nacional de la Ingeniería Civil, Barcelona)*, Ed. L. Berga, Col. Ing. de Caminos, Canales y Puertos, Madrid, pp. 1009-1014 (1999).
- CP52. J. Roncero, R. Gettu, E. Vázquez and J.M. Torrents, "Effect of superplasticizer content and temperature on the fluidity and setting of cement pastes", *The Role of Admixtures in High Performance Concrete (Proc. Intl. Symp., Monterrey, Mexico)*, Eds. J.G.Cabrera and R.Rivera-Villarreal, RILEM, Cachan, France, pp. 343-356 (1999).
- CP51. R. Gettu, A. Aguado and M.A. Martín, "Retracción del hormigón y el uso de aditivos reductores de retracción", *Especialidades químicas para la construcción. El mundo de los aditivos para hormigón a las puertas del Siglo XXI (Proc. IV Simposio ANFAH, Madrid)*, 12 p. (1998).
- CP50. J. Roncero and R. Gettu, "Aditivos superfluidificantes para hormigones de altas prestaciones", *Especialidades químicas para la construcción. El mundo de los aditivos para hormigón a las puertas del Siglo XXI (Proc. IV Simposio ANFAH, Madrid)*, 20 p. (1998).
- CP49. V.O. García-Álvarez, R. Gettu and I. Carol, "On Non-Planar Fracture in Concrete", *Fracture Mechanics of Concrete Structures (Proc. Third Intl. Conf., Gifu, Japan)*, Vol. 1, Eds. H.Mihashi and K.Rokugo, AEDIFICATIO Publishers, Freiburg, Germany, pp. 749-759 (1998).
- CP48. S. Carmona, R. Gettu and A. Aguado, "Study of the Post-Peak Behavior of Concrete in the Splitting-Tension Test", *Fracture Mechanics of Concrete Structures (Proc. Third Intl. Conf., Gifu, Japan)*, Vol. 1, Eds. H. Mihashi and K. Rokugo, AEDIFICATIO Publishers, Freiburg, Germany, pp. 111-120 (1998).
- CP47. R. Massabò, A. Carpinteri and R. Gettu, "Characterizing Bridged Cracks in Fibrous High-Strength Concrete", *Engineering Mechanics: A Force for the 21st century (Proc. 12th Engineering Mechanics Conf., La Jolla, California, USA)*, Eds. H. Murakami and J.E. Luco, American Society of Civil Engineers, Reston, Virginia, USA, pp. 1195-98 (1998).
- CP46. G. Carbonari, R. Gettu and A. Aguado, "Experimental Determination of the Creep and Shrinkage of Silica Fume High-Strength Concretes", *Proc. 1st Int. Congress of Concrete Technology (Buenos Aires)*, Asociación Argentina de Tecnología del Hormigón, Buenos Aires, Argentina, pp. 159-171 (1998).
- CP45. B. Toralles-Carbonari, R. Gettu and L. Agulló, "On the Production and Placing of High Performance Silica Fume Concrete", *Proc. 1st Int. Congress of Concrete Technology (Buenos Aires)*, Asociación Argentina de Tecnología del Hormigón, Buenos Aires, Argentina, pp. 149-157 (1998).
- CP44. R. Gettu, H. Saldívar, R.L. Zerbino and M. Mateos, "On the Characterization of the Toughness of Steel Fiber Reinforced Concretes", *Proc. 1st Int. Congress of Concrete Technology (Buenos Aires)*, Asociación Argentina de Tecnología del Hormigón, Buenos Aires, Argentina, pp. 47-60 (1998).
- CP43. A. Carpinteri, R. Massabò and R. Gettu, "Bridging Mechanisms in High-Strength Fiber Reinforced Concrete", *Computational Modelling of Concrete Structures (Proc. Euro-C 1998 Conf., Badgastein, Austria)*, eds. R. de Borst, N. Bicanic, H. Mang and G. Meschke, A.A.Balkema Publishers, Rotterdam, The Netherlands, pp. 23-31 (1998).
- CP42. A. Aguado, R. Gettu and L. Agulló, "Enseñanzas de obras de hormigones de alta resistencia", *Proc. 1er Symp. Nacional de Hormigón de Altas Prestaciones (Madrid)*, ETSICCP, Univ. Poli. de Madrid, pp. 459-468 (1998).

- CP41. L. Agulló, B. Toralles-Carbonari and R. Gettu, "Procedimiento experimental para la optimización de hormigones de altas prestaciones", *Proc. 1er Symp. Nacional de Hormigón de Altas Prestaciones (Madrid)*, ETSICCP, Univ. Poli. de Madrid, pp. 183-192 (1998).
- CP40. J. Roncero, R. Gettu and E. Vázquez, "Influencia de la dosificación del superplastificante y temperatura sobre la fluidez de pastas de cemento. Aplicación a hormigones de altas prestaciones", *Proc. 1er Symp. Nacional de Hormigón de Altas Prestaciones (Madrid)*, ETSICCP, Univ. Poli. de Madrid, pp. 173-182 (1998).
- CP39. H. Saldívar, R. Gettu, R. Zerbino and J. Rossi, "Efectos de la incorporación de fibras metálicas en hormigones de altas resistencias", *Proc. 1er Symp. Nacional de Hormigón de Altas Prestaciones (Madrid)*, ETSICCP, Univ. Poli. de Madrid, pp. 65-73 (1998).
- CP38. R. Gettu, A. Aguado, E. Zangelmi, S. Carmona and G. Carbonari, "Recientes avances en la caracterización del comportamiento mecánico de hormigones de altas prestaciones", *Proc. 1er Symp. Nacional de Hormigón de Altas Prestaciones (Madrid)*, ETSICCP, Univ. Poli. de Madrid, pp. 41-51 (1998).
- CP37. A. Cardim, A. Josa, A. Aguado and R. Gettu, "Avaliação do impacto ao meio ambiente causados pelos produtos e materiais da construção civil a base de cimento", *Proc. IV Congresso Iberoamericano de Patologia das Construções (Porto Alegre, Brazil)*, Vol. 2, pp. 449-506 (1997).
- CP36. B. Toralles-Carbonari, R. Gettu and L. Agulló, "Técnicas não destrutivas e destrutivas - Um estudo comparativo em elementos verticais executados de concreto normal e concreto de alto desempenho", *Proc. IV Congresso Iberoamericano de Patologia das Construções (Porto Alegre, Brazil)*, Vol.1, pp. 717-724 (1997).
- CP35. G. Carbonari, A. Aguado and R. Gettu, "Redução das deformações de longa duração utilizando C.A.D. e proteção de secagem", *Proc. IV Congresso Iberoamericano de Patologia das Construções (Porto Alegre, Brazil)*, Vol. 1, pp. 497-504 (1997).
- CP34. R. Gettu, A. Aguado, L. Agulló, B. Toralles-Carbonari and J. Roncero, "Characterization of Cement Pastes with Silica Fume and Superplasticizer as Components of High-Performance Concretes", *Proc. Mario Collepardi Symposium on Advances in Concrete Science and Technology (Fifth CANMET/ACI Intl. Conf. on Superplasticizers and Other Chemical Admixtures, Rome)*, Ed. P.K.Mehta, CANMET/ACI, pp. 331-344 (1997).
- CP33. A. Aguado, G. Carbonari and R. Gettu, "Proposta de uma Metodologia para a Obtenção do Comportamento de Longa Duração de Estruturas de Concreto: Estudo de Caso para Vigas com $FC = 65 \text{ MPa}$ ", *Proc. XXVIII Jornadas Sul-Americanas de Engenharia Estrutural (São Carlos, Brazil)*, Ed. H.M.C.C.Antunes, pp. 2209-2218 (1997).
- CP32. B.T. Carbonari, L. Agulló and R. Gettu, "Procedimento Experimental para Otimização de Concretos de Alto Desempenho", *Proc. XXVIII Jornadas Sul-Americanas de Engenharia Estrutural (São Carlos, Brazil)*, Ed. H.M.C.C. Antunes, pp. 2199-2208 (1997).
- CP31. V.O. García-Álvarez and R. Gettu, "Application of Joint Elements in Fracture Analysis", *Proc. I Rencontre Transfrontalière sur la Mécanique et la Physique des Matériaux Biphases (Barcelona)*, Eds. A.Mateo, L.Llanes and M.Anglada, pp. 159-164 (1997).
- CP30. H. Saldívar, R. Gettu and A. Aguado, "Fracture of High-Strength Fiber-Reinforced Concrete", *Proc. I Rencontre Transfrontalière sur la Mécanique et la Physique des Matériaux Biphases (Barcelona)*, Eds. A. Mateo, L. Llanes and M. Anglada, pp. 121-127 (1997).
- CP29. S.M. Carmona, R. Gettu and A. Aguado, "Evaluation of the Fracture Behavior of High Performance Concrete", *Proc. Intl. Conf. on Engineering Materials (Ottawa, Canada)*, Vol. II, Eds. A. Al-Manaseer, S. Nagataki and R.C. Joshi, CSCE, JSCE, pp. 11-21 (1997).
- CP28. B. Toralles-Carbonari, R. Gettu, L. Agulló, A. Aguado and V. Aceña, "A Synthetic Approach for the Experimental Optimization of High Strength Concrete", *Proc. Fourth Intl. Symp. on Utilization of High Strength/High Performance Concrete (Paris)*, Vol. 2, Eds. F. de Larrard and R. Lacroix, Presses de l'Ecole Nationale des Ponts et Chaussées, Paris, pp. 161-168 (1996).

- CP27. G. Carbonari, A. Aguado, R. Gettu and L. Agulló, "Time-Dependent Mechanical Behavior of High Performance Concretes, Creep and Shrinkage", *Proc. Intl. Congress on High-Performance, and Performance and Quality of Concrete Structures (Florianópolis)*, Eds. L.R. Prudencio, P.R.L. Helene and D.C.C. Dal Molin, Univ. Federal de Santa Catarina, Florianópolis, Brazil, pp. 39-51 (1996).
- CP26. A. Aguado, R. Gettu and L. Agulló, "Presente y futuro del hormigón de alta resistencia en España", *Proc. Intl. Congress on High-Performance, and Performance and Quality of Concrete Structures (Florianópolis)*, Eds. L.R. Prudencio, P.R.L. Helene and D.C.C. Dal Molin, Univ. Federal de Santa Catarina, Florianópolis, Brazil, pp. 106-117 (1996).
- CP25. R. Gettu, I. Carol and P.C. Prat, "Some Phenomenological Aspects of High Performance Concretes, and their Consequences for Numerical Analysis", *Worldwide Advances in Structural Concrete and Masonry (Proc. CCMS Symp., Structures Congress, Chicago)*, Eds. A.E. Schultz and S.L. McCabe, American Society of Civil Engineers, New York, pp. 506-517 (1996).
- CP24. V.S. Gopalaratnam, R. Gettu, S. Carmona and D. Jamet, "Characterization of the Toughness of Fiber Reinforced Concretes Using the Load-CMOD Response", *Fracture Mechanics of Concrete Structures (Proc. Second Intl. Conf., Zürich)*, Ed. F.H. Wittmann, AEDIFICATIO Publishers, Freiburg, Germany, pp. 769-782 (1995).
- CP23. S. Carmona, R. Gettu, C. Hurtado and M.A. Martín, "Use of the Splitting-Tension Test to Characterize the Toughness of Fiber-Reinforced Concrete", *Anales de Mecánica de la Fractura (Proc. XII Encuentro del Grupo Español de Fractura, La Coruña, Spain)*, Vol. 12, pp. 233-238 (1995).
- CP22. A. Aguado and R. Gettu, "Technology Transfer in the Field of Concrete: The Barcelona Experience", *Concrete Technology, New Trends, Industrial Applications (Proc. Intl. RILEM Workshop, Barcelona)*, Eds. A. Aguado, R. Gettu and S.P. Shah, E & FN Spon, London, pp. 347-357 (1995).
- CP21. D. Jamet, R. Gettu, V.S. Gopalaratnam and A. Aguado, "Propagación de fisuras en hormigones de alta resistencia con incorporación de fibras metálicas", *Proc. X Jornadas Chilenas del Hormigón*, IDEAM - Universidad de Chile y Centro Tecnológico del Hormigón, pp. 259-268 (1994).
- CP20. L. Bryars, R. Gettu, B. Barr and A. Ariño, "Size Effect in the Fracture of Fiber-Reinforced High-Strength Concrete", *Fracture and Damage in Quasibrittle Structures (Proc. US-Europe Workshop, Prague, Czech Republic)*, Eds. Z.P. Bazant, Z. Bittnar, M. Jirásek and J. Mazars, E&FN Spon, London, pp. 319-326 (1994).
- CP19. V.S. Gopalaratnam and R. Gettu, "On the Characterization of Flexural Toughness in FRC", *Proc. Workshop on Fibre Reinforced Cement and Concrete (Sheffield)*, Eds. R.N. Swamy and V. Ramakrishnan, Structural Integrity Research Institute, Sheffield, UK, pp. 161-180 (1994).
- CP18. V.O. García-Álvarez, I. Carol and R. Gettu, "Numerical Simulation of Fracture in Concrete Using Joint Elements", *Anales de Mecánica de la Fractura (Proc. XI Encuentro del Grupo Español de Fractura, San Sebastián)*, No. 11, C.E.I.T., San Sebastián, Spain, pp. 75-80 (1994).
- CP17. L. Bryars, R. Gettu, B. Barr and A. Aguado, "Influence of a Low Volume Fraction of Steel Fibers on the Fracture of Silica Fume Concrete", *Anales de Mecánica de la Fractura (Proc. XI Encuentro del Grupo Español de Fractura, San Sebastián)*, No. 11, C.E.I.T., San Sebastián, Spain, pp. 318-325 (1994).
- CP16. R. Gettu, A. Aguado and A. Pacios, "Need for Application-Oriented High-Performance Concretes", *Proc. Intl. Symp. on Innovative World of Concrete (Bangalore, India)*, Vol. II, Oxford & IBH Publ. Co., New Delhi, India, Part 3, pp. 299-303 (1993).
- CP15. R. Gettu and V.O. García-Álvarez, "Interaction of Creep and Fracture in Concrete", *Creep and Shrinkage of Concrete (Proc. Fifth Intl. RILEM Symp. Barcelona)*, Eds. Z.P. Bazant and I. Carol, E&FN Spon, London, pp. 413-420 (1993).

- CP14. A. Aguado and R. Gettu, "Creep and Shrinkage of High-Performance Concretes", *Creep and Shrinkage of Concrete (Proc. Fifth Intl. RILEM Symp. Barcelona)*, Eds. Z.P. Bazant and I. Carol, E&FN Spon, London, pp. 481-492 (1993).
- CP13. R. Gettu, A. Aguado, M.O.F. Oliveira and I. Carol, "Damage in High-Strength Concrete Due to Monotonic and Cyclic Compression", *Utilization of High Strength Concrete (Proc. Third Intl. Symp., Lillehammer, Norway)*, pp. 1070-75 (1993).
- CP12. V.O. García-Álvarez, R. Gettu, A. Aguado and I. Carol, "A Fracture Mechanics Study of Aging in High-Strength Concrete", *Anales de Mecánica de la Fractura (Proc. X Encuentro del Grupo Español de Fractura y II Encuentro Hispano-Luso de Fractura, Mérida, Spain)*, Vol. 10, pp. 133-140 (1993).
- CP11. P.C. Prat, I. Carol and R. Gettu, "Numerical Analysis of Mixed-Mode Fracture Processes", *Anales de Mecánica de la Fractura (Proc. IX Encuentro del Grupo Español de Fractura y I Encuentro Hispano-Frances de Fractura, Aiguablava, Spain)*, Vol. 9, pp. 75-80 (1992).
- CP10. R. Gettu, P.C. Prat and M.T. Kazemi, "Material Brittleness from Nonlinear Fracture Mechanics", *Fracture Mechanics of Concrete Structures (Proc. First Intl. Conf., Breckenridge, Colorado, USA)*, Ed. Z.P. Bazant, Elsevier Applied Science, London, pp. 430-436 (1992).
- CP9. R. Gettu, M.O.F. Oliveira, I. Carol and A. Aguado, "Influence of Transverse Compression on Mode I Fracture of Concrete", *Fracture Mechanics of Concrete Structures (Proc. First Intl. Conf., Breckenridge, Colorado, USA)*, Ed. Z.P. Bazant, Elsevier Applied Science, London, pp. 193-197 (1992).
- CP8. R. Gettu, C. Ouyang and S.P. Shah, "Fracture Mechanics of Concrete - A Review", *Proc. Intl. Symp. on Fatigue and Fracture in Steel and Concrete Structures (Madras, India)*, Eds. A.G. Madhava Rao and T.V.S.R. Appa Rao, Oxford & IBH Publishing, New Delhi, India, pp. 341-364 (1991).
- CP7. Z.P. Bazant, S. He, M.E. Plesha, R. Gettu and R.E. Rowlands, "Rate and Size Effects in Concrete Fracture: Implications for Dams", *Proc. Intl. Conf. on Dam Fracture (Denver, USA)*, Eds. V. Saouma, R. Dungan and D. Morris, Electric Power Research Institute, Palo Alto, California, USA, pp. 413-425 (1991).
- CP6. Z.P. Bazant and R. Gettu, "Size Effect in Fracture of Quasi-Brittle Materials", *Cold Regions Engineering (Proc. Sixth Intl. Specialty Conf., West Lebanon, New Hampshire, USA)*, Ed. D.S. Sodhi, American Society of Civil Engineers, New York, pp. 595-604 (1991).
- CP5. Z.P. Bazant and R. Gettu, "Size Effect in Concrete Structures and Influence of Loading Rate", *Serviceability and Durability of Construction Materials (Proc. First Materials Engineering Conference, Denver, USA)*, Vol. 2, Ed. B.A. Suprenant, American Society of Civil Engineers, New York, pp. 1113-23 (1990).
- CP4. R. Gettu, Z.P. Bazant and M.E. Karr, "Brittleness of High Strength Concrete", *Serviceability and Durability of Construction Materials (Proc. First Materials Engineering Conference, Denver, USA)*, Vol. 2, Ed. B.A. Suprenant, American Society of Civil Engineers, New York, pp. 976-985 (1990).
- CP3. Z.P. Bazant, M.T. Kazemi and R. Gettu, "Recent Studies of Size Effect in Concrete", *Structural Mechanics in Reactor Technology (Transactions of the 10th Intl. Conf. on SMiRT, Anaheim, California, USA)*, Vol. H: Concrete Structures, Ed. A.H. Hadjian, American Association for Structural Mechanics in Reactor Technology, Los Angeles, USA, pp. 85-93 (1989).
- CP2. Z.P. Bazant and R. Gettu, "Determination of Nonlinear Fracture Characteristics and Time Dependence from Size Effect", *Fracture of Concrete and Rock: Recent Developments*, Eds. S.P. Shah, S.E. Swartz and B. Barr, Elsevier Applied Science, London, pp. 549-565 (1989).
- CP1. Z.P. Bazant, L. Cedolin, R. Gettu, M. Kazemi and F.-B. Lin, "Recent Advances in Stability of Structures with Plasticity, Damage or Fracture", *Proc. I Pan American Congress of Applied Mechanics, Rio de Janeiro, Brazil*, pp. 504-507 (1989).

Online Video Content

- OL09. R. Gettu, *Evaluation of the Sustainability of Concrete: Implications for projects, decisions and policy* (in Spanish), 37th National Congress of Engineering, Barranquilla, Colombia, https://www.youtube.com/watch?v=zZQoE_WITQA, uploaded Apr. 2023.
- OL08. R. Gettu, R.G. Pillai, M. Santhanam et al., *Sustainable concretes with composite cements* (in Spanish), RILEM Webinar, https://www.youtube.com/watch?v=_3SW8efGYcQ, uploaded 1st Apr. 2022.
- OL07. R. Gettu, R.G. Pillai, M. Santhanam et al., *Sustainable concretes with composite cements* (in Spanish), Alconpat Senior Webinar, <https://www.facebook.com/alconpatinternacional/videos/728898384397024/>, uploaded 4th Dec. 2020.
- OL06. R. Gettu and A.S. Basavaraj, *Sustainability Potential of Slab Based Concrete Systems*, <http://icikbc.org/webinar/icikbc-webinar-20200917-jsw-1.mp4>, uploaded 17th Sep. 2020.
- OL05. R. Gettu and A.S. Basavaraj, *Will Concrete Continue to be Sustainable in the Future?*, <https://youtu.be/eJmgeOhAkHg>, uploaded 10th Aug. 2020.
- OL04. R. Gettu and S.J. Stephen, *Testing of Fibre Reinforced Concrete for Structural Design*, https://youtu.be/79rMmILEc_I, uploaded 29th May 2020.
- OL03. *Interview on Rajya Sabha TV*, <https://youtu.be/-5eEDuPSG8A>, uploaded 17th Aug. 2019.
- OL02. R. Gettu, M. Santhanam, R.G. Pillai et al., *Recent Research on Limestone Calcined Clay Cement*, <https://youtu.be/-CsXMmeosfw>, uploaded 22nd Apr. 2018.
- OL01. R. Gettu, *Improving the Sustainability of Concrete Technology Through the Effective use of Admixtures* (in Spanish), <https://youtu.be/uROK6CNcjJs>, uploaded 3rd Oct. 2014.

Course/lecture/workshop notes

- CN12. sigw-Concrete©: Software for obtaining the tensile constitutive model of plain and fibre reinforced concrete using inverse analysis of experimental data from three-point bending tests of notched beams, *User Guide*, https://www.researchgate.net/publication/343532493_sigw-ConcreteC, uploaded July 2020.
- CN11. S.K. Nayar, G. D'Costa and R. Gettu, "Special Concretes for Pavement Construction", *National Workshop on Sustainable Concrete Pavements: Practices, Challenges and Directions*, IIT Madras and Indian Concrete Institute, Chennai, 23 p. (2010).
- CN10. R. Gettu and J. Maganti, "Effects of Compatibility Between Superplasticizers and Cements on Concrete", *Workshop on Compatibility Issues Between Cement and Chemical Admixtures in Concrete*, IIT Madras and Indian Concrete Institute, Chennai, 6 p. (2010).
- CN09. R. Gettu, "Application of Self-Compacting Concrete: Recent Experience and Challenges that Remain", *Seventh Department of Civil & Structural Engineering Foundation Day Lecture*, Annamalai University, 18 p. (2010).
- CN08. R. Gettu, "Advances in Concrete Technology", *Short Term Training Programme on Special Concretes*, College of Engineering Trivandrum, pp. 31-109 (2007).
- CN07. R. Gettu, "Recent Trends in Concrete Technology", *Refresher Course: Civil and Architecture*, ISRO, Department of Space, Bangalore, pp. 124-133 (2006).
- CN06. R. Gettu and A. Pacios, "Mix Design, Characterization and Utilization of Self-Compacting concrete: Practical implications", *Corso avanzato sul tema Il Calcestruzzo Autocompattante* (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)

Sachin PAUL: Mechanical and Durability Characterization of Textile Reinforced Concrete, 2024.

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.: Vetrivelan, R., Bethala Mouli Phani Raj, Arun Teja Chamalla, Divyashree E.H., Arjun K.S. 2025; 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.

11-Jun-25 (PRP162/TP549)