

CURRICULUM VITAE

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Civil Engineer,
Civil Engineering Faculty, Technical University of Madrid UPM, Spain (1970)

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Professional Addresses

Spanish Construction Technology Platform PTEC
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Languages:

- Spanish and English (reading and speaking)
- French (reading)

Fields of knowledge or interest

- Management of R&D projects, Technology Platforms and other European R&D Groups
- Design and construction of concrete structures including evaluation and upgrading of the existing ones
- Lecturing on concrete structures
- Construction processes: buildings, bridges, tunnels, ports, motorways, etc.
- Standardization works in Eurocode No.2 Concrete structures

Professional activities

DATE	ACTIVITY	ENTERPRISE
1970-1972	Manager on road construction	ELSAN (Madrid, Spain)
1972-1973	Manager on road construction	HELMA (Lugo, Spain)
1973-1975	Manager on motorway construction	DRAGADOS (Valencia, Spain)
1976-1977	Project manager on designing bridges and structures	INTECSA (Madrid, Spain)
1977-1985	Project Manager on designing building structures	DRAGADOS (Madrid, Spain)
1985-1989	Senior Engineer on research and development activities	DRAGADOS (Madrid, Spain)
1989-1996	Coordinator of R&D projects Head of Research and Development Department	DRAGADOS GEOCISA (DRAGADOS) Madrid, Spain
(1996-1997)	Project Manager (Design and pre-testing of concrete for the Approached Bridges on the Öresund Link, Denmark-Sweden)	GEOCISA (DRAGADOS) Madrid/Cádiz, Spain
1997-2007	Coordinator of R&D projects for DRAGADOS Head of Research and Development Department	DRAGADOS GEOCISA (DRAGADOS) Madrid, Spain
2007-2012	R&D Director	DRAGADOS (ACS Group) Madrid, Spain
Since Dec. 2012	Managing Director	PTEC Spanish Construction Technology Platform www.plataformaptec.es

Lecturing activities

DATE	Position	UNIVERSITY
1979-1989	Associated Professor in structures	ETSAM Technical University of Madrid (UPM)
(1982-1983)	Associated Professor in Concrete Structures	Civil Engineering Faculty Technical University of Madrid (UPM)
Since 1989	Part-time professor in concrete structures	ETSAM Technical University of Madrid (UPM) www.upm.es
Since 2015	Professor in concrete structures at SEDUREC master (UIMP & CSIC)	International University Menéndez Pelayo (UIMP) www.uimp.es

Research activities

Participation in National and European R&D projects, on behalf of PTEC

- Plataforma Tecnológica Española de la Construcción 2014-2015. PTR-2014-0394. MINECO. Spain
- REFINET CSA. Rethinking Future Infrastructure Network. Grant Agreement No.653789. H2020. MG-8.1-2014

Participation in National and European R&D projects, on behalf of DRAGADOS and GEOCISA (www.grupoacs.com)

- Plastbau building system (1985-87)
- GRC panels for facades (1987-88)
- EUREKA EU-141: Corrosion Rate Meter GECOR6 to measure the corrosion rate in concrete structures (1989-92)
- BRITE/EURAM BE-3415: Optimisation of surface properties of concrete pavements (1990-93)
- BRITE/EURAM BE-3152 PETRUS: Automation of crushing plants for the production of aggregates (1990-93)
- CICYT: Bond between ribbed reinforcing bars and fiber steel concrete (1991)
- CICYT MAT91-1047: Prediction of the service life of concrete (1991-93)
- BRITE/EURAM BE-4062: Service life of concrete structures (corrosion, frost damage, alkali-silica reaction) (92-95)
- BRITE/EURAM BE-5480: High strength concrete (1993-96)
- BRITE/EURAM BE-1347 DURACRETE: New tools for designing durable concrete structures (1996-99)
- BRITE/EURAM BE-3942 EUROLIGHTCON: Lightweight aggregate concrete (1997-99)
- INNOVATION IN20902D CONTECVET: A validated users manual for assessing the residual service life of concrete structures (1998-2000).
- ATYCA/CDTI: New corrosion rate meter (GECOR8) to measure corrosion rate in concrete structures (1998-2000)
- Growth Programme (The city of tomorrow and cultural heritage) ONSITEFORMASONRY (2001-04): Non destructive techniques and structural models to assess masonry structures
- Innovation Programme REHABCON: Repair of concrete structures (2001-04).
- NMP programme: integrated project TUNCONSTRUCT Technology Innovation in Underground Construction (2006-2009)
- NMP programme: integrated project MANUBUILD Open building manufacturing (2006-2009)
- NMP programme: Integrated project I3Con Industrialized, Integrated, Intelligent Construction (2007-2010)
- CENIT CLEAM Clean, efficient and sustainable construction (2007-2010)
- PSE INVISO Optimization of the industrialization in building construction (2006-2008)
- PSE The city under the city (2005-2008)
- CDTI/PIIC SAYOM Assistant system to planning, construction and exploitation of marine structures (2007-2009)
- TAILORCRETE (FP7/NMP): New industrial technologies for tailor-made concrete structures at mass customised prices. (2009-2012)
- CENIT OASIS: Safe, intelligent and sustainable motorways (2008-2011)
- CDTI CLIOMAR: Climate influence on the performance of marine constructions (2009-2011)
- CDTI EXPLOTUN: Ground exploration and improvement in the front of tunnel excavation by TBM (2009-2011)
- ALIVESCA: Spillways in roller compacted concrete dams (2008-2010)
- REHABCAR (Innpacto): Upgrading of roads and motorways (2009-2013)
- HORMIFORMA (Innpacto): Optimization of the design and construction of complex shape structures with exposed concrete (2008-2013)
- SHERIFF (Innpacto). Rehabilitation of building facades for energy efficiency improvement (2011-2013)
- LINEO (Innpacto): Automatic detection of the personal around construction equipments in movement (2011-2013)
- DIRECTION (FP7/Energy): Demonstration of very low energy new buildings (2011-2014)

R&D management activities

- Coordinator of the NTPs network with about 20 European countries (since 2014)
- Member of Era-Net Plus INFRAVATION Scientific Panel (2015-2018)
- Evaluator of R&I projects. Transport Infrastructures (MG 8.1; 2014 call). DG Move. European Commission.
- Chairman of the Organising Committee for the EU/US Symposium on Transport Research Implementation: The Application of Research Outcomes, Paris, 10-11 April, 2014 (2013-2014)
- Member of the Scoping Team for the EraNet Plus INFRAVATION (2013-2014)
- Member of the Expert Advisory Group NMP-FP7 EC, nominated by European Commission (2007-2012)
- Spanish Construction Technology Platform PTEC (www.plataformaptec.es):
 - Member of High Level Group on behalf of DRAGADOS (2007-2012)

- Member of PTEC Foundation on behalf of DRAGADOS (2010-2012)
- Managing Director of PTEC (since Dec. 2012)
- European Construction Technology Platform ECTP (www.ectp.org):
 - Chairman of Support Group (2004-2007)
 - Member of the Executive Committee and High Level Group (2007-2012)
 - Member of Steering Committee in E2BA Energy Efficient Building Association (2010-2012)
 - Member of the Steering Committee in Task Force REFINE on R&D in transport infrastructures (2011-12)
- President of ENCORD (www.encord.org) "European Network of Construction Companies for Research and Development" (2002-2007).
- Chairman of sessions in International events organised by ECCREDI and E-core (2000-2004)
- Member of the Organising Committee in the 2nd, 3rd and 4th European Conferences on Research for the Protection of Cultural Heritage: Opportunities for European Enterprises (Aachen, Nov.1998, Santiago de Compostela and Strasbourg).

Publications

- About 40 papers presented at National and International Congresses (*the most relevant ones on structural performance of concrete structures with corroded reinforcement*).
- More than 30 papers published in Spanish and in International Magazines.

Papers on "structural performance of concrete structures with corroded reinforcement". Some of them were included in the Manual for assessing corrosion-affected concrete structures, when working for GEOCISA company, within EC IN309021 CONTECVET project "A validated User Manual for assessing the residual service life of concrete structures" (References in Annex F Structural Assessment).

- Andrade C., Alonso C., García D. and **Rodríguez J.**: Remaining lifetime of reinforced concrete structures: Effect of corrosion on the mechanical properties of the steel. Int. Conf. on Life Prediction of Corrodible Structures, NACE, Cambridge, UK, pp. 12/1-12/11, 1991.
- Andrade C., Alonso C., **Rodríguez J.**, Casal J. and García A.M.: Relation between corrosion and cracking. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., March 1993.
- Andrade C., Alonso C., **Rodríguez J.**, Casal J. and Díez J.M.: Relation between corrosion and concrete cracking. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., August 1995.
- Alonso C., Andrade C., **Rodríguez J.** and García M.: Cover cracking and amount of rebar corrosion: Importance of the current applied in accelerated tests. Int. Conference on Concrete in the Service Mankind, Concrete Repair, Rehabilitation and Protection, Dundee, 1996, pp.261-274. Edited by R.K.Dhir and M.Roderick Jones, E&FN Spon Dundee, UK.
- **Rodríguez J.**, Ortega L.M. and Casal J.: Relation between corrosion and bond deterioration. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., September 1993.
- **Rodríguez J.**, Ortega L.M., Casal J. and Díez J.M.: Relation between corrosion and bond strength. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., April 1995.
- **Rodríguez J.**, Ortega L.M. and Casal J.: Corrosion of reinforcing bars and service life of reinforced concrete structures: Corrosion and bond deterioration. Int. Conference on Concrete across borders, Odense, Denmark, Vol.II, pp.315-326, 1994.
- **Rodríguez J.**, Ortega L.M., Casal J. and Díez J.M.: Assessing structural conditions of concrete structures with corroded reinforcement. 4 th Int.Conference on Concrete in the Service Mankind, Concrete Repair, Rehabilitation and Protection, Dundee, 1996, pp.65-78. Edited by R.K.Dhir and M.Roderick Jones, E&FN Spon Chapman&Hall, UK
- **Rodríguez J.**, Ortega L.M and Casal J.: Relation between corrosion and load bearing capacity of concrete beams. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., May 1995.
- **Rodríguez J.**, Ortega L.M and Casal J.: Relation between corrosion and load bearing capacity of concrete columns. Internal report of Brite/Euram project BE-4062. DG XII, C.E.C., June 1995.
- **Rodríguez J.**, Ortega L.M. and Casal J.: Load carrying capacity of concrete structures with corroded reinforcement. Int.Conf. on Structural Faults & Repairs, London, UK (Ed.M.C.Forde), Vol.2, pp.189-198, 1995.
- **Rodríguez J.**, Ortega L.M., Casal J. and Fernández C.: La incidencia de la corrosión de las armaduras en el comportamiento de elementos de hormigón a flexión. 1r.Congrés. El cas dels sostres. Experiències i perspectives. Paper No.30. Barcelona, Spain, 1995.
- **Rodríguez J.**, Ortega L.M. and Casal J.: Load bearing capacity of concrete columns with corroded reinforcement. 4th Int. Symp. on the Corrosion of Reinforcement in Concrete Structures, Cambridge, UK, 1996, pp.220-230. Edited by C.L.Page, P.F.Bamforth and J.W.Figg. SCI. The Royal Society Chemistry. UK.
- **Rodríguez J.**, Ortega L.M., Casal J. and Díez J.M.: Assessing structural conditions of concrete structures with corroded reinforcement. 4th Int. Congress on Concrete in the Service Mankind. Concrete Repair,

Rehabilitation and Protection, Dundee, UK, 1996, pp.65-78. Edited by R.K.Dhir and M.Roderick Jones, E&FN Spon, Chapman & Hall, UK.

- **Rodríguez J.**, Ortega L.M., Casal J. and Díez J.M.: Corrosion of reinforcement and service life of concrete structures. 7th International Conference on the Durability of Building Materials and Components, Stockholm, Sweden, 1996, Vol.1, pp.117-126. Edited by C.Sjöström, E&FN Spon, Chapman & Hall, UK.
- Alonso C., Andrade C., **Rodríguez J.**, Díez J.M.: Factors controlling cracking of concrete affected by reinforcement corrosion. Materials and Structures Vol.31, Ag.-Sep. 1998, pp 435-441.
- **Rodríguez J.**, Ortega L., Izquierdo D., Andrade C.: Detailed assessment of concrete structures affected by reinforcement corrosion. Proceedings of FIB Congress 2002. Osaka. Japan
- **Rodríguez J.**, Muñoz R., Ramírez M., Andrade C, Izquierdo D.: Strategies for management of rehabilitation of concrete structures. Life Prediction and Aging Management of Concrete Structures. Bagnex, France. 2003. Ed. Dan J. Naus.
- Andrade C., Martínez I., Muñoz J., **Rodríguez J.**, Ramírez M.: Measurement of corrosion parameters and their use for service life assessment in El Cabril (Spain). Proceedings of Life Prediction and Aging of Concrete Structures 2nd International Workshop RILEM Long Term Behavior Paris. France.2003
- Andrade C., Izquierdo D., **Rodríguez J.**, Rodríguez J., Ortega L.M: Evaluation and repair methodologies of damaged concrete structures affected by reinforcement corrosion. International Conference on Technology of Construction and Reconstruction. Minks. 2004. Ed. B. Khroustaliyev, S.Leonovich
- **Rodríguez J.**, Ortega L.M., Andrade C., Izquierdo D.: Simplified and detailed conditions assessment of concrete structures affected by reinforcement corrosion. Use and Performance of Concrete in NPP Fuel Facilities. Madrid. 2004. Ed. OECD.
- Andrade C., Izquierdo D., **Rodríguez J.**, Ortega L.: Advances in design and residual life calculation with regard to rebar corrosion of reinforced concrete. Proceedings of RILEM 59th Annual Week. Moscow. Russia. 2005.
- **Rodríguez J.**, Ortega L.M., Andrade C., Izquierdo D.: Contecvet Manual. Structural assessment methodology for residual calculation of corroding concrete structures. Experts Workshop to discuss the terms of reference for a new FIB Special Activity Group on Assessment of Existing Structures. Torino, Italy 2009. Ed. Politecnico di Torino.
- **Rodríguez J.**, Andrade C., Izquierdo D., Tanner P.: El Eurocódigo 2 y la evaluación de estructuras de hormigón armado con armaduras corroídas. Hormigón y Acero No.272, April-May 2014 pp.123-132.

Other merits

- Chairman of AENOR CTN140/SC2 Eurocode 2 and Head of Spanish Delegation at CEN TC250/SC2 Eurocode 2
- Member of the Spanish Association on Concrete Structures ACHE www.e-ache.com
- Member of the European Working Group for the Interpretative Document on the Mechanical Resistance and Stability. Construction Products Directive (1990-1992).
- Past corresponding member of ACI 365 Committee Service Life Prediction
- DESIGN AWARD: Best paper by a design team, Structural Faults & Repair-95, 6th International Conference, London 3rd-5th July, 1995. Awarded by Engineering Technics Press, Scientific & Engineering Publishers, Edinburgh, UK.