

Curriculum Vitae

Family Name: Enric First Name: Vazquez Date of Birth: 29 July 1940 Nationality: Spanish

Education/ Professional Studies:

Institution: University of Barcelona

Date From/To: 1964

Degree/ Diploma: Graduation in Chemistry

Institution: University of Barcelona

Date From/To: 1976

Degree/Diploma: PhD in Geology

Language skills : (From 1 (notions) to 5 (excellent) for competence) (*=mother tongue)

<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	5	5	5
Spanish	5	5	5
French	5	5	5
German	5	5	5
Portuguese	5	5	3
Catalan	*		

Membership of Professional bodies:

Member of the Institut Català D'Enginyeria Civil

Member of the Institut D'Estudis Catalans (Grup D'Enginyeria)

Other skills:

- He has directed several research projects for the Spanish Government (Ministry of Science and Technology, Min. of Environment) as "Study of Properties, inertization and durability of bottom ashes from MSWI applied in Construction", "Mineralogical and physico-chemical characteristics of mineral wastes in his possible use as building materials", "Stone Materials used in historical construction in Catalonia: Criteria for restoration." He has also directed many projects for the Catalan Government as "Chain management and valorisation of slags and ashes from thermal processes in his application to Construction" and "Development of Methods for the use of sewage sludges treated with hydraulic binders in roads" or "Study of new standards regarding the use of pulverized fly ash in concrete". He has participated in the CEE Thematic Network "Use of Recycled Materials as Aggregates in the Construction Industry" and in other projects as "Theoretical and experimental study for the establishment of a conservation coefficient in structures" and Feder Project "Design and Development of new materials for industrial pavements".
- Enric Vazquez has been scholarship holder in the Bundesanstalt für Strassenwesen in Köln (1963) and in the University of California-Berkeley (1985) and has collaborated in research over Calcium Aluminate Cement and Stone Pathologies in Historical Buildings in the Laboratoire Central des Ponts et Chaussées de Paris (1980), Imperial College of London (1994). He has developed a permanent collaboration with Escola Politecnica from the University of Sao Paulo in the field of Building Materials and has participated as consultant in several Brazilian projects in Dam Engineering, Concrete Durability, Recycled Materials and Environmental Impact of Building Materials. He has also collaborated with Prof. Charles Hendricks from de TU Delft in Research related with Recycled Concrete.
- He is active in different Scientific Committees:
 - President of the TC PRE of RILEM
 - Member of the TC 199
 - Member of AENOR (Spanish Association for Standards)
 - Member of the Task Group for Recycled Concrete from the Spanish Ministry of Public Works
 - Member of the Task Group for the Use of Crumb Rubber in Bituminous Mixtures
 - Former Member of the TC URM, TC 154, TC 84, TC 61 FAB of RILEM
 - Former Member of the AIPCR, Comité Technique des Essais de Matériaux Routiers
- He is acting as reviewer in different Journals including Cement and Concrete Research and Materials and Structures. Enric Vazquez has organized as President of the Committee the International Symposium "Admixtures for Concrete" in Barcelona 1990, the 3d Euroseminar on Microscopy Applied to Building Materials in Barcelona 1991 and the International RILEM Conference on the Use of Recycled Materials in Building Structures in Barcelona 2004.
- He has been invited for Lectures and Seminars in Japan (Concrete Institute Tokyo and the University of Niigata 2000), in France (RILEM Workshop Paris 2000), in Prague FIR 2001, in Austria FIR 1999, in the Brazilian Universities of Sao Paulo, Federal de Belo Horizonte, Federal de Salvador de Bahia, Federal de Recife, Politecnica de Recife and in several Spanish Universities and Research Centers.
- He has been supervisor of 12 Ph.D. Thesis presented during 1994-2006

Present Position within the organisation:

- Enric Vazquez is professor for Building Materials in the Civil Engineering Faculty, and his activity in teaching started in 1974.
This activity is extended to the specialized fields of Durability of Concrete and Recycling of Waste Materials in Construction in the Construction Engineering Doctoral Program.
He is the President of the "Tribunal Unico para la Suficiencia Investigadora".from the Department of Construction Engineering

Professional experience Record (relevant to the proposal):

He has acted as consultant in many cases of pathology of stone and concrete in several cases all over Catalonia and all over Spain. He directed the research over the problems in buildings related with Calcium Aluminate cement in Concretes in Catalonia from the aspect of materials (1990). He has actively participated in the Project "Stone Materials used in historical constructions in Catalonia: Criteria for restoration" funded the Ministry of Sciece and Technology.

Relevant Publications

- **Book Chapters:**

Fly Ash in Concrete. Properties and Performances. RILEM, Spon, London UK 1991
Admixtures for Concrete. RILEM, Chapman and Hall, London UK 1990
Sustainable Raw Materials-Construction and Demolition Waste. RILEM 2000

- **Proceedings Edited:**

- Admixtures for Concrete. Improvement of Properties. Chapman and Hall. London 1990
- International RILEM Conference on the Use of Recycled Materials in Buildings and Structures. RILEM Pbl.S.A.R. L. 2004:

- **Contributions in conferences**

- Total published: 75 articles in conference proceedings

- **Articles**

Cinchón, J. S., López Soler, A. Rovira, J. , Yagüe, A. , Vazquez, E: Détermination de la phase vitreuse dans de cendres volantes par diffraction de rayonsX , Bulletin de Liaison des Laboratoires des Ponts et Chaussés n.147 pp37-40 1987

Chinchón, J.S. ,Fernández, A. , López, A. , Vazquez, E. , Yagüe, A: Natural Radiation in Fly Ashes from Power Stations in Spain. Cement and Concrete Research N.18 PP.131-137, 1988

Chinchón, J.S., Guirado, F., Gali, S., Vázquez: Cement content in concrete made with aluminous cement Materials and Structures n.27, pp.285-287, 1994

M. Barra de Olivera and E. Vázquez: The influence of retained moisture in aggregates from recycling on the properties of a new hardened concrete. Waste Management n.16, pp.113-117, 1996

S. Valls, E.Vázquez: Stabilisation and solidification of-sewage sludges with Portland cement Cement and Concrete Research, n.30 pp. 1671-1678, 2000

E. Vázquez, M. Barra: Reactividad y expansión de las escorias de acería de horno eléctrico en relación con sus aplicaciones en la construcción. : Materiales de Construcción, n.51, pp.137-148, 2001

Valls, S; Yagüe, A; Vázquez, E and Mariscal, C Physical and Mechanical Properties of Concrete with added dry sewage sludges.

Cement and Concrete Research. n35 pp.1064-1073, 2004

Cordero,M., Aparicio,A.,Vazquez,E.:Estudio experimental de propiedades mecánicas y químicas de vigas de hormigón armado

sometidas a diferentes ataques químicos. Hormigón y Acero, n.234 pp.75-88, 2004