

SYNOPTICAL BIOGRAPHICAL NOTE

DEng Edelmiro RÚA ÁLVAREZ

1. PERSONAL DATA

E. Rúa was born at Freande on 1941 and is married, having four children (one, a Civil Engineer from the Technical University of Madrid)

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2. ACADEMIC QUALIFICATIONS

- Perito de Obras Públicas (Bachelor in Civil Engineering.)
1967

Technical University of Madrid

- Ingeniero de Caminos, Canales y Puertos (MS in Civil Engineering) 1969

E.T.S. de Ingenieros de Caminos, Canales y Puertos. Technical University of Madrid

- Doctor Ingeniero de Caminos. (DEng in Civil Engineering) 1977

E.T.S. de Ingenieros de Caminos, Canales y Puertos. Technical University of Madrid

3. PROFESSIONAL SPECIALIZATION

- Structural design of infrastructure works on bridges, sewage treatment plants, aqueducts and small dams. Design of roads and transportation projects.

4. MAIN POSITIONS OF PROFESSIONAL ACTIVITY / EXPERIENCE

- **Consultant Civil Engineer on Structural Engineering.** He has conducted and worked out many designs of bridges, structural studies on dams, monuments refitting and rehabilitation, nuclear power stations, sewage treatment plants and regional / local road design.
- President of the civil Engineering Consulting Office **E.R. ingeniería Civil y Arquitectura, S.L.** (1991)



5. PUBLICATIONS

- Experimental study of lightened metallic beams. Determination of tensions and deformations.
- Study of transmission of lightened metallic beams. Determination of tensions and deformations.
- Study of reinforcement of concrete pillars. Doctoral thesis. Mayo 1977. Qualification: Substitute.
- Reinforcement of reinforced concrete pillars. Petitioner: Association of Cement Manufacturers of Spain. 1978.
- Study of the resin behaviour epoxy for the track of the Traveling crane of the dock of Matagorda (Cadiz). 1979. Petitioner: CIBA GEIGY.
- Study and dynamic test of elastic subjections of track - crossbeam for the RENFE. Petitioner: Central laboratory of the RENFE. 1984.
- Report on the behaviour of tower of metallic structures for support of the axes of turbine of the Nuclear power station of Valdecaballeros (1987).
- Investigation of the behaviour in front of the fire of metallic structures (2002)
- Investigation on the wind effects of more than 250 km/h in metallic structures (2006)

6. NORMATIVE AND ACADEMIC COMMISSIONS

- Member of Commission CT -76 "Iron and steel industry", CT -83 "Concrete" and CT- 140 "Eurocódex" of AENOR. Spanish Standard Association
- Member of the Spanish Group of the Concrete. GEHO.
- Secretary of Subcommittee SC3 "Eurocode 3" Metallic Structures.
- National Liaison between the European group of CT-250/SC3 of the Eurocode 3 "Metal Structures" and Spain.
- Member of the Commission for the writing of an Instruction of Design of Metallic and Mixed Bridges, of the Main directorate of Highways of the M.O.P.T.
- Member of the National Committee of Accreditation of the National Agency of Evaluation of the Quality and Acreditación (ANECA).
- Member of the Inter-ministerial Commission of the Steel. Ministry of Public Works and the Economy

- Member of the writing Commission of the Spanish Standard of Metallic Structures.

7. PATENTS

Patent nº 408,528

"Procedure for the joint of smooth or corrugated steel bars ". 1975

Patent nº 422,713

"Procedure for the union of metallic beam pillars to concrete beams".

8. MAIN POSITIONS IN ACADEMIA

In the Technical University of Madrid

- Structural Laboratory managing Professor (1969 – 1974)
- Assistant professor for the Structural Design Unit (1975 -1984)
- Director of the Structures and Metallic Bridges Unit. ETSI Caminos, Canales y Puertos. (1985 -1987)
- Secretary of the Department of Mechanics of Continuous Means and Theory of Structures. (1987-1989)
- Assistant director of Research and Doctorate of the Faculty of Civil Engineering (1989 – 1990)
- Assistant director of the Department of Mechanics of Continuous Means and Theory of Structures. (1991-1995)
- Director of the Department of Mechanics of Continuous Media and Theory of Structures. (1995-1999)
- Head professor of metal Structures. Continuous Media Mechanics and Structural Theory Unit. Technical University of Madrid (1992-now)
- Vice-Rector Doctorado y Post-University of the technical University of Madrid.(1995-1997)
- Director of the Faculty of Civil engineering in Madrid. (1997 – 2005)

In the University of Granada

- Head professor of Structural design. **Faculty of Civil Engineering in Granada** (1990-1994)

9. INTERNATIONAL, EUROPEAN and NATIONAL ORGANIZATIONS

- **Dean** of Colegio Nacional de Ingenieros de Caminos, Canales y Puertos of Madrid. (1996-2004)
- **President** of Colegio Nacional de Ingenieros de Caminos, Canales y Puertos. (2004-now)
- **Vice-president** of Spanish Professional Union, associations representing interests of all professions in Spain. (2007-now)
- **President** of the Spanish Engineering Professional Engineering Union. Spanish, associations representing interests of all engineers in Spain. (2008-now)
- **Vice-president** of Council of Civil Engineering Associations of Spanish and Portuguese Speaking Countries (2008-now)
- **Executive Committee Member** of WCCE's Executive Committee. (2006-now)
- **Representative for Europe** of the Asociación de Universidades Iberoamericanas de Postgrado (AUIP). (2006-now)
- **Member of the Executive Board** of the International Council on Monuments and Sites (ICOMOS). (2006-now)
- Spanish Delegate in European Council of Civil Engineers (ECCE) (2006-now)
- Colegio's Delegate in EUC CET(2006-now)

10. INTERNATIONAL AWARDS

- Honorary appointment and investiture of Honoris Causa Doctor by the IberoAmerican Council of Universities.
- Instituto Politécnico Superior Echeverría (Cuba) Seal Award for its contribution for the advance of Cuban superior Education.
- Gold Medal Award of the Technical University of Madrid