

# 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)

E-mail: 17era@ciccp.es

### 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