

# *CURRICULUM VITAE*

## **Mario Gustavo Ordaz-Schroeder**

Place and date of birth: Mexico DF, October 3rd, 1959  
Citizenship: Mexican  
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## **Degrees**

Civil Engineer (Honors), Faculty of Engineering, UNAM, DF, Mexico .

*Thesis:* Application of a programmable calculator in the solution of problems of structures and hydraulics, 03-02-1983

Master of Engineering (Structures) (Honors). Faculty of Engineering, UNAM, DF, Mexico.

*Thesis:* Analysis of data with exponential distribution, 10-19-1986

Doctor of Engineering (Structures), (Honors). Faculty of Engineering, UNAM, DF, Mexico.

*Thesis:* Estimation of strong motion due to Mexican subduction earthquakes, 03-02-1992

## **Positions**

### **Academic**

Researcher, Seismic Research Center, Foundation Javier Barros Sierra, 1986-1987.

Research Assistant, Institute of Engineering, UNAM, 1987-1991.

Head of the Geologic Risk Department, National Center for Disaster Prevention, 1990-1995.

Assistant Professor, Institute of Engineering, UNAM, 1991-1995.

Director of Research, National Center for Disaster Prevention, 1995-1996.

Associate Professor, Institute of Engineering, UNAM, 1995-1999.

Professor, Institute of Engineering, UNAM, 1999 to date.

Associate Director (Structures and Soil Mechanics), Institute of Engineering, UNAM, February 2005 to date.

## **Honorary**

Member of the Board, Mexican Society of Earthquake Engineering, 1990-1992.

Technical Vice-president, Mexican Society of Structural Engineering, 1999-2000.

## **Lectures**

Invited lecturer about 30 times in the following countries: Mexico, El Salvador, Venezuela, Colombia, Ecuador, Spain, France, Italy, and United States.

## **Awards**

Gabino Barreda Award, Masters Thesis, UNAM, Mexico, 1988  
Weissman Award (Exact sciences), National Academy of Sciences, Mexico, 1993  
Emilio Rosenblueth Award, National Academy of Engineering, Mexico, 1994  
UNAM Award for Young Researchers (Technology and Design), UNAM, Mexico, 1994  
Gabino Barreda Award, Ph. D. Thesis, UNAM, Mexico, 1997  
1999 Outstanding Paper Award, Earthquake Engineering, EERI, 1999  
National Researcher (Top Level), 2003.

## **Other distinctions**

Member of the Technical Advisory Committee for the project "Evaluation of seismic risk in Quito, Ecuador", 1992-1993.  
Elected representative of Mexico to the International Association of Earthquake Engineering, 1999 to date.  
Member of the Technical Advisory Committee for the project "RISK-UE (seismic risk evaluation in 7 European cities)", 2001-2004

## **PUBLICATIONS**

### **Papers in journals**

#### **Refereed, international (47; 5 more recent are listed)**

43. Mario Ordaz, Eduardo Miranda y Javier Avilés (2003). Propuesta de espectros de diseño por sismo para el DF. Revista Internacional de Ingeniería de Estructuras, editado por Escuela Superior Politécnica del Ejército, 8 189-208.
44. Singh, S. K.; Bansal, B. K.; Bhattacharya, S. N.; Pacheco, J. F.; Dattatrayam, R. S.; Ordaz, M.; Suresh, G.; S. E. Hough, Kamal (2003). Estimation of Ground Motion for Bhuj (26 January 2001; Mw 7.6) and for Future Earthquakes in India, Bulletin of the Seismological Society of America 93 (1), 353-370.
45. Arturo Iglesias, S. K. Singh, J. Pacheco, L. Alcántara, M. Ortiz, and M. Ordaz. (2003) Near-Trench Mexican Earthquakes Have Anomalously Low Peak Accelerations, Bulletin of the Seismological Society of America 93 (2), 953-959.
46. Daniel García, Shri Krishna Singh, Miguel Herráiz, Javier Pacheco and Mario Ordaz. (2004). Inslab Earthquakes of Central Mexico: Q, Source Spectra, and Stress Drop, Bulletin of the Seismological Society of America, 94 (3) 789-802.
47. Mario Ordaz (2004), Some Integrals Useful in Probabilistic Seismic Hazard Analysis, Bulletin of the Seismological Society of America, 94 (4), 1510-1516.

### **Book chapters**

Ordaz M., Rosenblueth E., Xing Chen, Carlos Ferregut, (1987) *Processing Doubtful Information*, Institute of Risk Research, University of Waterloo., Institute for Risk Research, Canadá, Waterloo pp.0-0.

Rosenblueth E, Ordaz M., (1988) *Estudios sobre sismicidad en le valle de México.*, DDF y el Prog. de las Naciones Unidas para el Desa, México, México pp.357-397.

Singh S.K., Ordaz M., (1993) *Las ciencias de la Tierra Sólida, hoy*, UNAM y el Fondo de la Cultura Económica., México, pp.0-0.

S.K. Singh, M. Ordaz y J. Pacheco, “Advances in seismology with impact on earthquake engineering” en *INTERNATIONAL HANDBOOK OF EARTHQUAKE ENGINEERING AND SEISMOLOGY*, Academic Press.

## **Conference proceedings**

**International: 25; National: 40**

## **DEVELOPMENTS**

### **Technological developments**

RS-AMIS, M Ordaz, C Montoya, Program for the evaluation of expected earthquake losses in Mexico City, Mexican Association of Institutions of Insurances, Mexico, 1994.

RS-ACA, M Ordaz and C Montoya. Program for the evaluation of expected earthquake losses in Acapulco. Of industrial use by the insurance sector, 1995.

SEERRS, E Miranda, C Montoya and M Ordaz. Expert system for the fast evaluation of seismic risk in individual structures. Of industrial use by the insurance sector, 1995.

Z, M Ordaz, E Reinoso, L.E. Perez Rocha and C. Montoya, Program for the determination of site specific spectra in the Federal District. Mexico, 1995.

PP-AMIS, M Ordaz, System for the calculation of pure premiums in Mexico. Of industrial use by the insurance sector, Mexico, 1996.

PSM, M Ordaz, and C Montoya, Compute System of maps of seismic hazard in Mexico, 1996.

RS-CHUBB, M Ordaz and E Miranda, System of evaluation of expected maximum losses and pure premium for individual structures in the Mexican Republic, 1997.

RS-GNP, M Ordaz and E Miranda, System of evaluation of expected maximum losses and pure premium for individual structures in the Mexican Republic, Mexico, 1998.

RS-CNSF, M Ordaz and E Miranda, System of evaluation of expected maximum losses and pure premium for portfolios of insurance companies in Mexico. For governmental regulation, 1998.