

# Curriculum Vitae

Family Name: Oriol

First Name: Caselles

Date of Birth: 18 July 1963

Nationality: Spanish

## Education/ Professional Studies:

Institution: Barcelona University

Date From/To: 1988

Degree/ Diploma: Graduation in Physics

Institution: Technical University of Catalonia

Date From/To: 1995

Degree/ Diploma: PhD

## 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	4	5	4
Spanish	5	5	5
French	3	4	3
Catalan	*		

## Membership of Professional bodies:

- EAGE- European Association of Geoscientists & Engineers
- EGS- European Geophysical Society

## Other skills:

- Oriol Caselles has been member of several research projects funded by the Spanish Ministry of Science and Education, (including "*Shallow structure modelling and soil microzonation.*"), PB96-0169-C04-03: and "Seismic vulnerability study: ciutat vella, Valencia. Documentation and management through a Geographic Information System", REN2003-07170 RIES. He has also participated in a European research projects "*Seismic Resistance of Cultural Heritage Buildings*" [2004-2006]  
Oriol Caselles has been acting as reviewer for *Soil Dynamics and Earthquake Engineering* (Elsevier).  
He is currently acting as the coordinator of the master programme on Seismic Engineering and Structural Dynamic of the Technical University of Catalonia.

## Present Position within the organisation:

Researcher

## Professional experience Record (relevant to the proposal):

Has collaborated in 46 geophysical studies in the last 5 years. His most relevant contribution in the study of architectural heritage buildings has consisted of the application of geophysical non-destructive techniques in several cathedrals, churches and medieval bridges in Spain, including Barcelona, Mallorca, Vic and Valencia Cathedrals; San Vicente de la Roqueta (Valencia), Parroquial de Paiporta (Valencia), and Temple (Valencia) Churches; Cabreta (Barcelona), Pericas (Barcelona), San Pere de Terrassa (Barcelona) and Turia ancient bridges; and other ancient constructions as Fortaleza de Alcántara y convento de las monjas comendadoras (Cáceres), Sagunto roman theatre and Lonja (Valencia). He has also collaborated in the survey of archaeological sites in Spain, including Rincón de la Victoria (Málaga), Villares de Andujar (Jaén), Cueva del Sidrón (Asturias) and Castro de la Ulaña (Burgos), Gava (Barcelona), Cueva del Mirón (Cantabria), Plaza de Requena (Valencia), Cueva de Arenaza (Vizcaya), Cueva Pintada de Galdar (Gran Canaria) and Altamira (Cantabria).

## Publications (most relevant in the last five years):

- J.O.Caselles, R. Franklin, J.A. Canas, M. Navarro, J. Clapes, I.I.G. Pujades, F. García and V. Pérez Gracia. H/v method applicability in dense cities. Example of Valencia City. *Soil Dynamics and Earthquake Engineering* (accepted).
- V.Pérez, J.A.Canas, I.I.G.Pujades, J.Clapés, J.O.Caselles, F.García and R.Osorio. GPR survey to confirm the location of ancient structures under the Valencian Chathedral (Spain). *J. of Applied Geophysics*, 43, pp. 167-174, (2000)
- F.Espinoza, J.A. Canas, I.G. Pujades, J.O. Caselles and U. Mena. Utilización de la vibración ambiental como fuente de excitación para el cálculo de períodos fundamentales de edificios. IGN, Madrid, pp. 1-101 (2000).
- I.I.G.Pujades, J.A.Canas, U.Mena, F.Espinoza, A.Alfaro and J.O.Caselles. Seismic risk evaluation in Barcelona,Spain. In: proceedings of the 12 World Conference on Earthquake Engineering, New Zeland (2000)
- V.Pérez Gracia, M.Mallol, I.I.G.Pujades, J.A.Canas, J.Clapés, R.Gonzalez and J.O.Caselles. Comparison between three methods to obtain the wave velocity by using on site measurements. In: proceedings of the 7th Meeting of the Environmental and Engineering Geophysics, I.Hill, Birmingham, England (2001).

- R.González-Drigo, V. Pérez Gracia, Ll.G. Pujades, J.O. Caselles and J.A. Canas. Distribución de Q de Coda y análisis de la atenuación intrínseca y dispersiva en la Península Ibérica. *Rev. Int. de Métodos Numéricos para Cálculo y Diseño en Ingeniería*, 19, pp. 211-219, CIMNE, Barcelona (2003).
- F.Espinoza, U.Mena, J.A.Canas, Ll.G.Pujades and J.O.Caselles. Estimación de algunas propiedades dinámicas de los edificios de Barcelona, España, utilizando SIG. *Revista Internacional de Ingeniería de Estructuras*, 9, pp. 19-29, Quito, Perú (2004).
- J.O.Caselles, J.Clapes, R.Osorio, Ll.G.Pujades, J.A.Canas and V.Pérez Gracia. Detección de galerías de agua en Barcelona. *Geo-Temas*, 6, pp. 221-224, Zaragoza, Spain (2004).
- Franklin, R., Caselles, J.O., Canas, J.A., Navarro, M., Clapés, J., Pujades, Ll.G., Garcia, F and Gracia, V. Estimación de la respuesta de sitio mediante el método del cociente espectral aplicado a ruido ambiental: aplicación a la Ciutat Vella de Valencia. *Revista Internacional de Métodos Numéricos para el cálculo y diseño en Ingeniería*, Vol. 22, No. 2, CIMNE, Barcelona (2006).