Inmaculada Rodríguez Cantalapiedra

Education
Graduate in Physical Sciences, Universitat de Barcelona
Technical Architecture, Universitat de Girona.
PhD in Physics, Universitat Politècnica de Catalunya.

Current Position
Assistant Professor at Universitat Politècnica de Catalunya.

Subjects currently taught (Bachelor and Master degree)

Geomatic Engineering: Physics, Physical Geodesy, Geophysics, Environmental Techniques.

Technical Architecture: Mechanics, Physics, Mathematics, Informatics, Solar Energy Projects, Energy Efficiency.

Master in Building Engineering: Renewable Energy and Energetic Refurbishment

- Participation in projects of docent innovation.
- In charge of the EPSEB Acoustic Laboratory, from where I have participated in several research lines
- Elaboration of docent material: films, problems, presentations and books.
- Supervisor of more than 150 final projects in master and grade
- Participation in docent congress
- Coordinator of different courses
- Courses of postgraduate in Fundación Politécnica de Catalunya (FPC-UPC) and in professional associations in the subjects of Architectonic Acoustics and Energy Efficiency

Research

Collaborators: Luis López Bonilla of Universidad Carlos III, Stephen Teitsworth of Duke University, Miguel Rubí of Universitat de Barcelona, Flavio Fenton of Giorgia Tech University, Juan Sequeiros of Universidad de Alcalá, Gabriel Gomila of Universidad de Barcelona, Lino Reggiani of Universidad de Lecce, Tomás González of Universidad de Salamanca y Jean Bragard of Universidad de Navarra.

Main research results

- Number of publications in JCR journals: 41
- Number of papers in book chapters: 35
- h-index:10 (Web of Science)
- Congress contributions: more than 150
- Participation in competitive projects: 23
- Participation in research work with enterprises: 4
- Finished doctoral theses: 3

Selection of Recent Building Publications:

A.M. Lacasta, A. Peñaranda, I.R. Cantalapiedra, Green Streets for Noise Reduction. In Nature Based Strategies for Urban and Building Sustainability, 181-190, Elsevier (2018).

A.M. Lacasta, A. Penaranda, I.R. Cantalapiedra, C. Auguet, S. Bures, S., M. Urrestarazu. Acoustic evaluation of modular greenery noise barriers. Journal: Urban Forestry & Urban Greening, 20, 172-179 (2016)

F. Lopez-Almansa, E. Segues, I.R. Cantalapiedra. A new steel framing system for seismic protection of timber platform frame buildings. Implementation with hysteretic energy dissipators. Earthquake Engineering & Structural Dynamics, 44, 1181-1202 (2015).

J. R. Rosell, L. Haurie, A. Navarro, I.R. Cantalapiedra. Influence of the traditional slaking process on the lime putty characteristics. Journal: Construction and Building Materials, 55, 423-430 (2014)

J. R. Rosell, I. R. Cantalapiedra, Simple method of dynamic Young's modulus determination in lime and cement mortars. Journal: Materiales de Construccion, 61, 39-48 (2011).

I.R. Cantalapiedra, M. Bosch, F. Lopez. Involvement of final architecture diploma projects in the analysis of the UPC buildings energy performance as a way of teaching practical sustainability. Journal of Cleaner Production, 14, 958-962 (2006)

Management Positions

Director of the Escuela Politècnica Superior d'Edificació (EPSEB).

Academic Secretary of the Departamento de Física Aplicada

Vice director of EPSEB.

Member of the govern of university (UPC)