

Prof: **Ramon Carbonell**
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Summary of Education:

Ramon Carbonell (CSICInst. Earth Sciences Jaume Almera, Barcelona Spain) received a M.S. (1986) in physics from the Univ. of Barcelona (Spain) and a Ph.D. (1991) in Geophysics from the Univ. of Wyoming (Advisor: Prof. Scott Smithson). He did postdoctoral research at the Univ. Wyoming and at the Houston Advanced Research Center. Since 1993 has develop his research at the Spanish National Research Council. He has accomplished research in Earth Sciences, specifically in control source seismology, seismic imaging and tectonophysics. He has been involved in the acquisition, processing and interpretation of deep seismic reflection programs: Seismic Studies of the Iberian Crust (ESCI), Iberian Atlantic Margins (IAM), Urals Reflection Seismic Experiment and Integrated Studies (URSEIS), Crustal structure of the transpressional Variscan orogen of SW Iberia (IBERSEIS). His research interests included the development and aplication of methodological aspects of seismic imaging (wave propagation, inverse problems), studies concerning the structure, nature (i.e., evolution) of the earth's continental crust and the use of applied geophysics to shallow environmental problems.

Research Topics

- Seismic imaging.
- Multi-component seismic reflection (normal incidence and wide-angle) data acquisition, processing, interpretation, and modelling.
- Seismic wave propagation through complex media.
- Resolution of the inverse problem in seismics.
- High resolution seismic techniques applied to problems related to the shallow subsurface structure, groundwater and enviromental assesment.
- Reflection seismology applied to understanding the structure, nature, genesis and growth, (i.e evolution) of the earth's continental crust. Composition and physical properties of the crust and upper mantle.
- Seismic imaging of the water column

