



Ministry of Educación
Science and Technology



Curriculum Vitae

Updated on 15th March 2018



JOSÉ IGNACIO BADAL NICOLÁS

Professor Emeritus

UNIVERSITY OF ZARAGOZA

Professor of Physics of the Earth
Titular Member of the European Seismological Commission
External Evaluator of the Chinese Academy of Sciences
President of the Section of Seismology and Physics of the Earth Interior
Member of the Spanish National Commission of Geodesy and Geophysics
Silver Pin of the American Geophysical Union
Member Emeritus of the European Geosciences Union
Gold Pin of the University of Zaragoza
Professor Emeritus of the University of Zaragoza

Extended document available under request

PRESENTATION

José Badal

Full Professor
University of Zaragoza, Spain

Studied at the University of Zaragoza and graduated with Bachelor of Science degree in July 1968. Postgraduate studies at the Department of Physics of the Earth and Cosmos, and PhD degree in Physics in March 1976. Assistant Professor (1971-1976) and Senior Lecturer under contract (1976-1977). Postdoctoral studies as Fellow of the French Government in the Geophysical Laboratory of the University of Grenoble, France (1977-1978), and Student at the Autumn Course on Physics of the Earth in the International Centre for Theoretical Physics, Trieste, Italy (1978). Associate Professor under contract (1979-1984) and Senior Lecturer (1985-2007). Full Professor (2008 to date). Professor Emeritus (September 2015).

Positions held in Spain

Secretary of the Faculty of Sciences of Zaragoza (1986-1988)

Director of R&D Projects since 1987

Deputy-Director General for Geodesy and Geophysics in the National Geographic Institute, State General Administration, Madrid (1996-1998)

Member of the Scientific Committee for Surveillance and Control of Volcanic Events (1997)

Member of the Planning Board of the Nuclear Security Council (CSN) for Seismic Risk Prevention in Spain (1996-1998)

Member of the State Committee for Coordination with the Directorate-General of Civil Protection for the development of the State Plan for Seismic Risk Prevention (1996-1998)

Member of the Spanish National Commission of Geodesy and Geophysics (2001-2016)

President of the Section of Seismology and Physics of the Earth Interior (2005-2016)

Positions held in international committees

Expert for Evaluation of Fellowships in Environment & Climate Research Training Grant Applications (1996), Directorate-General for Science, Research and Development, Climatology and Natural Hazard, Commission of the European Communities, Brussels.

Vice-President of the Executive Council of the European-Mediterranean Seismological Centre (EMSC), period 1996-1998.

Spanish Representative on the International Seismological Center (ISC) Governing Council, period 1996-1998.

Spanish Delegate at the Joint Scientific Commission Air Force Technical Applications Center of the United States of America and National Geographic Institute of the Kingdom of Spain (AFTAC-IGN), period 1996-1998.

Member of the Comité d'Orientation Scientifique du Centre Euro-Méditerranéen d'Évaluation et Prévention du Risque Sismique (CEPRIS) (Scientific Orientation Committee of the Euro-Mediterranean Center for the Assessment and Prevention of Seismic Risk), 1997.

Member of the Comissão Permanente de Aconselhamento Científico del Centro de Geofísica de Évora (Scientific Advisory Permanent Commission of the Évora Geophysical Center), Portugal, Junta Nacional de Investigação Científica e Tecnológica (JNICT), period 1997-2000.

Titular Member of the Council of the European Seismological Commission (ESC) for two administrative periods 1996-1998, 1998-2000.

Responsible for the International Collaboration Agreement between the Institute of Geophysics of Beijing and the University of Zaragoza (2002-to date).

External Evaluator appointed by the Chinese Academy of Sciences, Beijing, China, December 2004.

National Correspondent and Member of the ESC Council during the period 2010-2015.

Club Memberships

Member of the American Geophysical Union since 1979

Seismological Society of America since 1979

European Geophysical Society since 1981

European Association of Geoscientists & Engineers since 2002

Honors

Silver Pin of the American Geophysical Union, 2004

Member Emeritus of the European Geosciences Union, 2007

Professor Emeritus of the University of Zaragoza, 2015

Gold Pin of the University of Zaragoza, 2015

Member of the *Senatus Científico* of the Faculty of Sciences of the University of Zaragoza, 2015

Current research interests

Refraction and reflection of seismic waves. Dispersed seismic waves and modeling of earth structures with different wavelengths. Forward and inverse modeling. Elastic, anelastic and anisotropic media. Receiver functions. Pms/XKS-wave splitting: polarization and delay time. Surface wave tomography at different scales. Simulation of seismic wavefields in heterogeneous media.

Research projects critically reviewed by external evaluation

Total number of research projects: more than **50** projects

- * National projects, **20**. Principal researcher in 13 of them.
- * International projects (collaborations): **6** with the EU (principal researcher in 3 of them), **1** with USA, **1** with Morocco and the rest of projects with the Institute of Geology and Geophysics of the Chinese Academy of Sciences, Beijing, China.

Publications (papers and books)

- Papers: About **200** full-length papers, most of them published in international well ranked SCI journals.
- READS (current total) **8491**, *ResearchGate*, Report for week ending January 7th, 2018.
- CITATIONS (current total): **1453**, *ResearchGate*, January 7th, 2018.
- Books: 2, one published in Spanish and another in English.

Attendance at meetings and communications

- Meetings: Some **103**, most of them international assemblies or congresses.
- Communications: About **238**, most of them oral presentations in different international meetings.
- Experience as organizer of R&D activities: **21** scientific meetings.

Other professional activities

Appointed for PhD juries in Spanish, Portuguese, Bulgarian, Indian and Chinese Institutions. Project Officer and Project Coordinator, C.C.E./INTAS, Brussels, Belgium (1993-1994).

Participant Researcher in NATO International Scientific Exchange Programmes (1994).

Referee of Research Projects for the Spanish National Evaluation and Foresight Agency (ANEP), Earth and Space Sciences, from 1995.

Guest Editor for Tectonophysics, Elsevier (1993 and 2014), Physics of the Earth and Planetary Interiors, Elsevier (2000) and Journal of Seismology, Springer (2008).

Editorial Board Member of Earthquake Science (July 2009), Journal of Applied Geophysics (December 2009), ISRN Geophysics (December 2011) and International Journal of Geophysics (December 2011-2017).

Referee for Geophysical Research Letters (1993), Geophysical Journal International (1994), Pure and Applied Geophysics (1997), Journal of Seismology (2007), Journal of Geophysics and Engineering (2007), Geophysics (2009), and more international journals.

Registered for the editorial manager online submission and peer review tracking system of Bulletin of the Seismological Society of America (January 2009).

Currently, Elsevier Editorial System (EES) accounts linked to my consolidated profile: Tectonophysics (1991), Physics and Chemistry of the Earth (1998), Physics of the Earth and Planetary Interiors (1999), Journal of Asian Earth Sciences (December 2009), Journal of Applied Geophysics, Earth-Science Reviews, Geoscience Frontiers, CR Geoscience, Gondwana Research (2011), Earth and Planetary Science Letters, Journal of African Earth Sciences (February 2015).

Appointed as Honorary Member of the Advisory Council of the International Biographical Centre (October 1999) and H.M. of the IBC Research Council, Cambridge, England, since 2003.

Referee for *The Third World Academy of Sciences*, International Centre for Theoretical Physics, Trieste, Italy, since 2003.

Member of Scientific Committee, chairman, coordinator or convener of several international meeting/symposia, Honorary Chair of the Scientific Committee of 1 international workshop and Chair of 1 international simposium.

Guest lecturer at several universities and research centres.

Expert included in the Panel of Evaluators of the Spanish National Agency for Evaluation of the Quality (ANECA), Ministry of Science and Technology, since 2003, and the Agency for University Quality and Prospective of Aragon (ACPUA), Department of Science, Technology and University of the Government of Aragon, since 2007.

=== oOo ===

José Badal

Professor Emeritus

Professor of Physics of the Earth

Dept. of Theoretical Physics

Faculty of Sciences, bldg. B

University of Zaragoza

Pedro Cerbuna, 12

50009 Zaragoza, Spain

E-mail: badal@unizar.es

Phone: +34 976 761139