

Joan Lluís FUMADÓ ALSINA, PhD / Architect

e-mail: juan.luis.fumado@upc.edu

Current position:

Professor Emeritus of the Universitat Politècnica de Catalunya (UPC)
Prof. Dr. at the School of Professional & Executive Development, Polytechnic University of Catalonia, BARCELONA TECH (UPC). Master Degree Co-Director

Education:

M. Architect, ETSAB, Barcelona
Physical Sciences studies
Economic Sciences studies
1976: Doctorate in Architecture at the UPC
1985: Titled as Property Manager by the Ministry of Public Works and Urban Planning

Academic and Professional Experience:

Since 1978 he is Professor at the UPC, teaching on Building Facilities and Environmental Conditioning, and is co-director of:

- The International Master: *Architecture and Sustainability*
- The post graduate program: *Architecture and Energy Saving*
- The post graduate program: *Building Energy Qualification and Certification systems.*

Expert of the High Court of Justice of Catalonia and Arbitrator of the Technical Arbitral Tribunal of Catalonia

In the professional field he has designed and directed individually and in collaboration with other architects, building, urban planning and facility projects.

As an expert on issues of Facilities and Environmental Conditioning he has participated in several research projects and published scientific work.

This double professional and academic activity can be summarized indicating that he has participated in 15 projects selected for the FAD Architecture Awards, with a total of approximately 200.000 m² for new buildings; 300.000 m² for new facilities; 100.000 m² for structural and constructive rehabilitation projects and 600.000 m² for rehabilitation of facilities.

He has given more than 200 lectures and postgraduate courses, written more than 40 articles and published a total of 11 monographs and 7 books, (on issues of Environmental Conditioning and Service Facilities).

In 2010 he won the Medal of the Architects Association of Catalonia in recognition of his task in promoting the exercise of the architecture within the scope of design and facilities calculation.

He is the author of these books:

Climatització ISBN - 600 - 4684 (1ª edición Nov 1986) Coautor con J.V. Martí Estelles.
Editado por Col·legi d'Arquitectes de Catalunya. 74 páginas. Barcelona

Proyectos de Urbanización ISBN - 600 - 4685 - 2 . Coautor con J. Briz Caro. 1ª edición: nov. 1986; 2ª edición: nov 1987; 3ª edición: febrero 1988. 188 páginas.

Climatització de Edificios ISBN - 84 - 7628 - 181 - 1 . Diciembre 1996. Ediciones del Serbal. 337 páginas. Barcelona

El tendido de las Instalaciones ISBN - 84 - 923125 - 8 - 0 . Diciembre 1999. Coautor con I. Paricio. Editorial Bisagra. 80 páginas. Barcelona

Les instal·lacions en el projecte executiu. Instal·lacions de Combustibles ISBN 84-96185-09-5. Coautor con J. Briz Caro. Publicacions Papers Sert, Col·legi d'Arquitectes de Catalunya. Barcelona. 1ª edición junio 2004. 86 páginas

Les instal·lacions en el projecte executiu. Instal·lacions d'electricitat. ISBN 84-96185-08-7. Coautor con J. Briz Caro. Publicacions Papers Sert, Col·legi d'Arquitectes de Catalunya. Barcelona. 1ª edición junio 2004. 100 páginas.

Las instalaciones de servicios en los edificios ISBN – 84 – 85665 – 62 – 7. Ediciones CAT Colegio Oficial de Arquitectos de Galicia. Santiago de Compostela. 1ª edición: octubre 2004. 299 páginas

Recent outstanding publications include:

- 1 Vives-Rego, J, Uson E. Fumado, J. Ll., *Passive designed buildings for active citizens became schools of sustainability: a proposal for sustainable Architecture*. Journal of Green Building, volume 10, Issue 1, (winter 2015), pp. 85-96. 2015.
- 2 Uson, E. Fumado, J. Ll.; Vives, J., *Strategies to achieve the NZEB Goal in the energetic refurbishment of existing built heritage. A case study*. Conference proceedings of the 30th INTERNATIONAL PLEA CONFERENCE, Sustainable habitat for developing societies. CEPT University, Ahmedabad, 2014.
- 3 Uson, E. Fumado, J. Ll.; Vives, J. 2014, *The influence of Religious and Cosmological Beliefs on the Solar Architecture of the Ancient World* . International Journal of Architectural Engineering Technology , 2014 ,1, 3-11
- 4 Uson, E; Fumado, J. Ll.; Vives, J. 2013, *Los edificios de consumo energético casi nulo: propuesta para el centro de tratamiento de residuos sólidos de Mercabarna*. ACE: Architecture, City and Environment, 25, 2014, pp.13-42
- 5 Uson, E; Fumado, J. Ll.; Vives, J. 2012, *Pathways to reach the net zero energy building: The waste treatment centre in Mercabarna, Barcelona. Case Study*. Conference proceedings of the 28th INTERNATIONAL PLEA CONFERENCE , PUPC University, Lima 2012