

Ezequiel USON GUARDIOLA, PhD / Architect

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Current position:

Prof. Dr. at the School of Professional & Executive Development, Polytechnic University of Catalonia, BARCELONA TECH (UPC). Master Degree Co-Director  
Technical Director of the UNESCO Chair, UdL University, Lleida

Education:

M. Architect, ETSAB, Barcelona  
1983: Master in Urbanism at the IEAL, Madrid  
1998: Doctorate in Architecture at the UPC with the qualification "Cum Laude"  
2000: Master in Intelligent Buildings and Sustainable Construction, MEICS, La Salle (URL) Barcelona  
2004: **Accreditation of lecturer in the field of Engineering and Architecture by AQU Catalunya**  
2005: **Accreditation of research in the field of Engineering and Architecture by AQU Catalunya**  
2009: **Accreditation of University Professor (TU) in the field of Engineering and Architecture by ANECA, Spain**  
2014: **Accreditation of advanced research, (University full Professor) in the field of Engineering and Architecture by AQU Catalunya**

Academic and Professional Experience:

Since 1987 he has been teaching on Architectural Design at the UPC, 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.*

In 2002 he held a postdoctoral fellowship as a visiting professor in the University of Cambridge which collaborated in The Martin Centre for Architectural and Urban Studies. He is a fellow of Robinson College.

Since that time, he has lectured at the following institutions:

The Martin Centre, University of Cambridge, UK  
University of Venice, ILA&UD.  
London Metropolitan University  
School of Architecture and Construction University of Greenwich  
Universidade federal do Rio de Janeiro  
ENSA, Ecole Nationale Supérieure d'Architecture de Toulouse  
IED, Istituto Europeo de Design, Barcelona  
Universidad Piloto de Colombia  
UTS, University of Technology Sydney  
Universita Degli Studi Di Genova Polis.  
Colegio de Arquitectos de Santa Cruz (Bolivia)

Colegio de Arquitectos de Cochabamba (Bolivia)  
QUT, Queensland University of technology, Brisbane  
Col·legi Major Universitari Ramon Llull, U.B, Barcelona  
UNAICC, Unión nacional de Arquitectos e Ingenieros de la Construcción de Cuba,  
La Habana .  
AECI , Santa Cruz (Bolivia)

He is the author, co-author and / or editor of seven complete books, 11 book chapters, 25 journal articles and 25 conference papers.

He has participated in 10 research projects and has directed seven competitive research contracts and technology transfer projects with both private companies and public administrations.

As a practicing Architect he has won 8 professional awards, and as a professor 2 academic awards from the Board of the UPC

Recent outstanding publications include:

- 1 Uson E. ,Vives Rego J., Maimo D. *Urban Sustainability as the result of a carefully integrated process: Case study of a new urban development.* the. Journal of Engineering Technology (JET), Volume 4, No , pp 24-35. August 2016.
- 2 Uson E, Vives Rego J. *Case Study of urban property development along the Barcelona seafront employing sustainable strategies.* The conference Proceedings of the 4<sup>th</sup> Annual International Conference on Architectural and Civil Engineering (ACE 2016), Singapore , Global Science and Technology Forum,( GSTF), pp 359-365. 2016.
- 3 Uson, E, *La forma de la ciudad bella: Influencia de la orientación solar en el trazado de las ciudades y el diseño de los edificios en el mundo griego.* Ciudades y territorio, Intermediación y desarrollo, Ed Milenio, Lleida, 340 p. pp 318-340. 2015,
- 4 Vives-Rego, J, Uson E. FumadoJ, 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.
- 5 Nick Eteghad A., Uson E. , Hosseini S.R., Armesto A. *Energy Efficiency in Thomas Herzog's Architecture: from interdisciplinary Research to performance Form .* The Conference Proceedings on 3<sup>rd</sup>. Annual International Conference on Architecture and Civil Engineering (ACE 2015) Global Science and Technology Forum, (GSTF), Singapore 2015.
- 6 Hosseini S.R., Uson E. Nick Eteghad A., Armesto A. *Flexible housing: the role of spatial organization to achieve functional Efficiency.* Journal of Architectural Research: ArchNet-IJAR (Paper accepted, publication scheduled). 2015
- 7 Nick Eteghad A., Uson E. , Hosseini S.R., Armesto A. *Re-visiting performance-based design in pursuance of passive techniques manifested in Thomas Herzog's architecture.* ACE, Architecture, City and Environment, vol.9 num. 27, pp.47-68, 2015

- 8 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.
- 9 Uson, E. *Ordenación urbana del polígono de las térmicas del Besos en el frente litoral de Barcelona con estrategias de sostenibilidad: caso de estudio.* Conference proceedings of the 2th CONGRESO IBEROAMERICANO DEL SUELO URBANO, Colegio Universitario de San Gerónimo, la habana vieja, 2014
- 10 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
- 11 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
- 12 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
- 13 Uson, E, *Estrategias para la reducción del impacto ambiental en los nuevos desarrollos urbanos: ejemplo de aplicación,* ACE: Architecture, City and Environment, 19, 2012, pp. 55-76.,
- 14 Uson, E., *Ecobarrios: El caso de Vauban,* Architectonics: Mind, Land & Society, 24, 2012, pp. 219-228.
- 15 Uson, E., *Architecture and Sustainability: Design Tools and Environmental Control Techniques,* ENHSA, 2011, pp. 421-431
- 16 Uson, E., 2009, *Integració de l'energia fotovoltaica en l'arquitectura catalana actual: casos d'estudi.* Conference Proceedings of the 2th Congress, UPC Sostenible 2015: La investigació en sostenibilitat, estado actual y retos del futuro, pp.25-32