



University of Cyprus
Department of Architecture

LECTURE INVITATION

Dr Aimilios MICHAEL

Assistant Professor at the Department of Architecture, University of Cyprus

will give a lecture presentation entitled:

Sustainable Synergies in the Built Environment

Energy & Environmental Design of Buildings Research Laboratory

Friday, 3rd November 2023, 2:30 p.m.

Department of Architecture, Room A 009, Ground Floor, Main Campus, Kallipoleos 75, Nicosia

The presentation is part of the evaluation procedure for advancement to the rank of Associate Professor

Presentation Abstract

Sustainability in architecture constitutes a broad and multifaceted field of research, addressing the areas of passive design strategies for human comfort, energy efficiency and building construction. In this context, three thematic multidisciplinary research pillars are discussed: (a) environmentally responsive design and energy interventions in historic buildings, (b) indoor comfort conditions and energy performance of buildings, and (c) sustainable construction components and materials. Investigation of the above-mentioned pillars has been performed through funded research programmes, as well as through postgraduate and doctoral studies, at the Department of Architecture. Employing both qualitative and quantitative research tools the research studies presented include the investigation of thermal comfort conditions, indoor air quality, visual comfort, as well as energy performance of existing buildings and cost-effectiveness of retrofitting solutions. Moreover, the presentation discusses research results related to the thermophysical properties and the environmental footprint of novel construction components and masonry systems. Finally, design-based research, focusing on sustainability in architecture, performed both in academia and in practice through design courses and architectural projects respectively, is presented. The presentation concludes with the presentation of the future goals of the *Energy & Environmental Design of Buildings Research Laboratory* for technological innovation in the field of energy and environmental design.

About the speaker

Aimilios Michael, Ph.D., is an Assistant Professor in the Department of Architecture at the University of Cyprus, Director of the *Energy & Environmental Design of Buildings Research Laboratory* (E&EDB) and Member of the Board of the Faculty of Engineering of the University of Cyprus. During the Spring Semester of 2020, he was a Visiting Faculty Member at the School of Engineering and Design of the Technical University of Munich (TUM). He holds a PhD degree in Environmental Design and Energy in Architecture from the School of Architecture, NTUA. During his studies, he was awarded numerous academic scholarships and distinctions, including the Academic Excellence Award and Nomination for Best Doctoral Dissertation Award. His research activities take on an interdisciplinary perspective and they focus on the areas of Energy and Environmental Design of Buildings and Advanced Architectural Technology. He participated as principal investigator and/or project coordinator in 19 research programmes funded by the European and national funds, securing a total funding for UCy - E&EDB Research Lab of more than 2.1 million Euro. His design-based research has been awarded 16 times in architectural European and international competitions, including two 1st prizes, and has been presented in 30 national and international exhibitions and architectural fora, including the 22nd Biennial of Industrial Design and the 12th International Architecture Exhibition of La Biennale di Venezia. His research work has been widely published in 38 refereed scientific journals, in 10 special issues and in 88 peer-reviewed international conference proceedings. Currently, Aimilios is Member of the Board of Directors of Electricity Authority of Cyprus (EAC) and Member of the Administrative Council of the Cyprus Scientific Technical Chamber (ETEK). From 2017 to 2021, Aimilios held the position of the Vice-President of the Council for Planning Derogation Applications by a Ministerial Council Appointment and from 2012 to 2017 he served as the Vice-President of the Cyprus Architects Association.