

## PERSONAL DETAILS

Name: **Chryso G. Heracleous**

Current Position: **Senior Researcher**  
**Department of Architecture, Faculty of Engineering, University of Cyprus**

Mailing Address: **Riga Fereou 26, Flat 303, Ayioi Omologites, 1087, Nicosia, Cyprus**

E-mail: **echryso@ucy.ac.cy**

Telephone: **+357 22895412, +357 99682291 (mobile)**

## ACADEMIC EDUCATION AND AWARDS

Academic Education

**2015 - 2021** **Ph.D., Doctor of Philosophy in Architecture,**  
**Department of Architecture, University of Cyprus**  
Examination Committee Minute 19.04.2021,  
Nomination 09.06.2021

Doctoral Thesis: *Climate Change resilience of educational premises in Cyprus:  
An examination of retrofit approaches and their implications on indoor comfort  
conditions and energy performance, Grade: Excellent*

**2012 - 2013** **M.Sc., Architectural Engineering: Environmental Design,**  
**University of Bath, Faculty of Engineering and Design, Bath, UK**  
Grade: Distinction

Master's Thesis: *Technical viability of low-energy strategies to meet Passivhaus Standards for  
domestic buildings in Cyprus*

**2006 - 2011** **Dipl. Arch. Eng., Diploma in Architecture Engineering**  
(Equivalent to Master of Architecture)  
(M.Sc. Equivalent, KYSATS 121/15.06.2012)  
Polytechnic School, Department of Architecture, Patra, Greece

Diploma Thesis: Grade: Second-Class Honours (8.4/10)

Research Project: *Redesign the buffer zone of Nicosia, Grade: Excellent (10/10)*  
*The Role of Planning Towards the Reunification of Divided Cities: The Case Study of  
Nicosia, Grade: Excellent (9.3/10)*

**2003 - 2006** **Secondary School, High School of Apostolos Markos, Nicosia, Cyprus**  
Grade: Excellent (19,3/20)

Academic Scholarship, Awards and Honours

**2017 -2018** **Doctoral Studies Scholarship, University of Cyprus**  
For doctoral studies

**2015 -2017** **Doctoral Studies Scholarship, A.G. Leventis Foundation**  
For doctoral studies

**2012 - 2013** **Cyprus State Scholarship Foundation**  
For postgraduate studies

**2011** **Annual Award Nomination” sponsored by “Greek Architects”**  
Special Award of Design Thesis

**2010** **Honorable Mention and Prize in International Competition for Students in  
Architecture**

2006 - 2011

“Upgrade: Continuity & Change”, sponsored by AEEA – European Association for Architectural Education and UAUIM - "Ion Mincu" University of Architecture and Urbanism Bucharest, Romania

**Cyprus State Scholarship Foundation**

For undergraduate studies

## ACADEMIC – PROFESSIONAL QUALIFICATIONS

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### Research and Teaching Interests

Research and Teaching Priorities include Integrated Architectural Design and Technology, Energy and Environmental Design of Building, Climate Change Mitigation and Adaptation, Health, Comfort and Productivity in Buildings, Innovative and Sustainable Construction Components and Materials, Adaptable Building Envelope Design, Building Integrated Renewable Energy Sources (RES), Energy Efficient Technical Systems, Life Cycle Costing Analysis (LCCA), Life Cycle Assessment (LCA), Environmental Conservation of Contemporary, Vernacular and Modern Movement Architecture, Urban Pollution and Environmental Awareness.

### Current Positions

Since 06.2021

**Senior Researcher**

Energy and Environmental Design of Buildings Research Lab, E&EDB, UCY

Since 10.2018

**Researcher**

FOSS Research Centre for Sustainable Energy, University of Cyprus, UCY

10.2013 – 05.2021

**Adjunct Faculty**

Department of Architecture, Faculty of Engineering, University of Cyprus, UCY

**Research Member**

Energy and Environmental Design of Buildings Research Lab, E&EDB, UCY

<http://www.ucy.ac.cy/arch/en/research/research-activities/research-labs>

Since 2014

**Project Architect**

Chryso Heracleous, CY

### Academic Teaching and Educational Experience

Since 09.2015

**Adjunct Faculty, Special Scientist, Seasonal Lecturer**

Department of Architecture, Faculty of Engineering, University of Cyprus

**Interdepartmental Master's Programme, Conservation and Restoration of Historic Buildings and Sites**

**APH 550: Special Topics on Recording and Documenting Buildings and Sites**

(Students: Architecture, Civil and Environmental Engineering, Archaeology, Spring 2022-23, Spring 2019 – 20, Co-instructors: M. Philokyprou, O. Kontovourkis)

**Undergraduate Programme in Architecture**

**APH 233: Construction II**

(Students: Architecture, Spring 2022-23, Spring 2021-22, Co-instructors: A. Kyriakides, E. Kyritsi)

**APH 332: Technical Development Systems**

(Students: Architecture, Fall 2018-19, Fall 2017-18, Fall 2016-17, Fall 2015-16)

**APH 401: Design Studio VIII**

(Students: Architecture, Spring 2015-16, Co-instructors: A. Michael, K. Axarli)

Since 09.2015

**Adjunct Faculty, Special Scientist, Seasonal Lecturer**

Department of Civil and Environmental Engineering Faculty of Engineering,  
University of Cyprus

**Interdepartmental Master's Programme, Energy Technologies and Sustainable Design**

**ΠΠΜ 586: Sustainable Built Environment**

(Students: Faculty of Engineering, Fall 2022-23)

**ΠΠΜ 536: Energy Performance in Building**

(Students: Faculty of Engineering, Fall 2015-16, Fall 2016-17)

02.2015 – 06.2015

**Adjunct Faculty, Teaching Assistant**

Department of Architecture, Faculty of Engineering, University of Cyprus

**Interdepartmental Master's Programme, Energy Technologies and Sustainable Design**

**APH 538: Environmental Design of Buildings**

(Students: Faculty of Engineering, Spring 2014-15)

**Academic Research Activities**

**Principal Researcher**

Since 04.2022

**The role of adobe masonry in the thermal performance of vernacular dwellings  
(ADOBE)**

Programme Framework: UCY Internal Research Programs, 2021

Project Duration: 24 months

Budget – Funding: 51 000 Euro (total- budget)

Collaborators: Department of Town Planning and Housing, Ministry of Interior  
Department of Antiquities, Ministry of Communications and Works

UCY Principal Researchers: M. Philokyrou, A. Michael, I. Ioannou

Research Associates: R. Panagiotou, C. Heracleous

Author's project role: Principal Researcher

Short description: In the framework of this research program, the thermal properties of adobe will be investigated through in-situ monitoring of adobe walls, laboratory investigation of adobes as well as modeling and simulation of adobe masonries and typical spaces of dwellings. Thermal inertia, which is one of the main thermal property of adobes, will be also investigated as it contributes to a delay of heat transmission and to restriction of temperature deviations between the external and internal environment, thus establishing more stable indoor thermal conditions.

Since 06.2021

**Cooperative Intelligent education & electromobility Zero Energy Buildings  
(C-IZEB's)**

Programme Framework: Interreg V-A, European Territorial Co-operation European Commission, European Regional Development Fund (ERDF)

Call Identifier: Interreg V-A, GR-CY 2014-2020

Project Duration: 24 months

Budget – Funding: 1 704 275 Euro (total-budget), 396 500 Euro (UCY sub-budget)

Partners: Cyprus Ministry of Education, Culture, Sport and Youth (Programme Coordinator);  
Department of Architecture, University of Cyprus (Scientific Coordinator); Regional Development Fund of Crete, Greece, Municipality of Heraklion, Greece

UCY Principal Researchers: A. Michael, A. Michopoulos

Research Associates: C. Heracleous, M. Englezou  
 Author's project role: Principal Researcher, Architect  
 Short description: The main goal of the project is to increase energy savings in public buildings for the creation of Intelligent School Buildings Archetypes of Nearly Zero Consumption in Cyprus and Greece with the simultaneous support of electromobility to serve the movements of mainly students.

**Since 06.2021** **Energy upgrade of the historic buildings of the Presidential Palace of the Republic of Cyprus and the Loggia - Heraklion City Hall**  
*(ANABAΘMIZΩ)*

Programme Framework: Interreg V-A, European Territorial Co-operation European Commission, European Regional Development Fund (ERDF)  
 Call Identifier: Interreg V-A, GR-CY 2014-2020  
 Project Duration: 24 months  
 Budget – Funding: 2 196 629,50 (total-budget), 342 806 Euro (UCY sub-budget)  
 Partners: Department of Architecture, University of Cyprus (Coordinator); Department of Electromechanical Services – Cyprus Ministry of Transport, Communications and Work; Cyprus - Public Works Department, Ministry Of Transport, Communications And Works; Presidency And Presidential House; Special Research Fund Account, Hellenic Mediterranean University; Municipality of Heraklion, Greece

UCY Principal Researchers: A. Michael, A. Michopoulos  
 Research Associates: E. Kyritsi, A. Kyriakides, C. Heracleous  
 Author's project role: Researcher  
 Short description: The main goal of the project is to increase energy savings in public historic buildings and to convert them into standard intelligent high-energy historic buildings, as well as to develop and implement innovative and transferable technologies and construction practices.

**12.2018 – 09.2020** **Cyprus Methodology for Assessing the Energy Performance of Buildings**  
*(MYEAK)*

Programme Framework: Energy Service, Ministry of Energy, Commerce, Industry and Tourism, Republic of Cyprus  
 Call Identifier: YEEBT/YE/04/2018  
 Project Duration: 12 months and 3 months extension  
 Budget – Funding: 120 800 Euro (total-budget), 90 800 Euro (UCY sub-budget)  
 Partners: Department of Architecture, University of Cyprus (Coordinator); Department of Civil and Environmental Engineering, University of Cyprus; Department of Mechanical and Manufacturing Engineering, University of Cyprus; FOSS Research Centre for Sustainable Energy, University of Cyprus; Laboratory of Building Construction & Building Physics, Department of Civil Engineering, Aristotle University of Thessaloniki.

UCY Principal Researchers: A. Michael, A. Michopoulos,  
 M. Philokyprou, A. Savvides, I. Ioannou, D. Grigoriades, V. Efthymiou, G. Georghiou  
 Research Associates: C. Heracleous, A. Kyriakidis, E. Malaktou, I. Kyritsi, C. Charalambous S. Gregoriou  
 Author's project role: Researcher  
 Short description: The program aims to develop the new methodology for calculating the energy performance of buildings in Cyprus.

**Since 09.2018** **Energy-Autonomous Smart Buildings and Sustainable Mobility Strategies**  
*(Energy-AUTONOMY)*

Programme Framework: Interreg V-A, European Territorial Co-operation European Commission, European Regional Development Fund (ERDF)  
 Call Identifier: Interreg V-A, GR-CY 2014-2020  
 Efficient Energy Use and Sustainable Transportation

## CURRICULUM VITAE

Grant Agreement No: 5033230  
Project Duration: 36 months  
Budget - Funding: 340 000 Euro (UCY sub-budget), 1 909 640 Euro (total-budget)  
Partners: Department of Public Works (coordinator); Department of Electrical and Mechanical Services, Ministry of Transport Communications and Works; University of Cyprus, Department of Architecture and Department of Civil and Environmental Engineering; Greek Ministry of Environment and Energy; Chios Municipality, University of the Aegean  
UCY Research Team: A. Michael, I. Ioannou, A. Savvides, M. Philokyprou  
Research Associates: A. Kyriakidis, M. Xenophontos, E. Malaktou, Stephanides G. Kanakaris I. Stimoniaris D., Kotas T., C. Heracleous  
Author's project role: Reseracher  
Project Website: [http://ec.europa.eu/regional\\_policy/en/policy/cooperation/european-territorial/](http://ec.europa.eu/regional_policy/en/policy/cooperation/european-territorial/)  
Short description: The program aims to address the challenge of a novel and innovative concept of public buildings, i.e. the creation of Positive Energy Intelligent Buildings. The outputs of the project include pilot buildings of high energy efficiency, architectural integration of renewable energy sources and charging stations that promote sustainable mobility. Moreover, the outcomes include the creation of an electronic platform for the building's energy performance monitoring and for remote real-time controlling. Finally, the project will allow the creation of manuals on methods and good practices for future energy upgrades of public buildings within the Mediterranean region, as well as in Europe. The new form of public building aims to develop awareness on sustainability, leading to economic, environmental and social benefits.

### Since 10.2017

#### **Innovative Compact Hybrid Electrical/Thermal Storage Systems for Low Energy Buildings** (HYBUILD)

Programme Framework: HORIZON 2020 Framework Programme for Research and Innovation  
European Commission, Directorate General for Research & Innovation  
Call Identifier: H2020-EEB-2017  
Technologies enabling energy-efficient systems and energy-efficient buildings with a low environmental impact  
Grant Agreement No: 768824 HYBUILD  
Project Duration: 48 months  
Budget - Funding: 226 250 Euro (UCY sub-budget), 5 995 840 Euro (total-budget)  
Partners: Comsa Corporacion de Infraestructuras SL, Spain (Coordinator); Universidad de Lleida, Spain; Consiglio Nazionale delle Ricerche, Italy; AIT Austrian Institute of Technology, Austria; Nobatek, France; Centre Suisse d' Electronique et de Microtechnique, Switzerland; Accademia Europea di Bolzano, Italy; Fahrenheit AG, Germany; Mikrometal s.r.o., Czech Republic; Sviluppo Tecnologie e Ricerca per l'Edilizia Sismicamente Sicura ed ecoSostenibile, Italy; National Technical University of Athens, Greece; Fresnex GmbH, Austria; Engineering - Ingegneria Informatica Spa, Italy; Daikin Airconditioning Hellas SA, Greece; Ochsner Wärmepumpen GmbH, Austria; University of Cyprus, Cyprus; Ajuntament Almatret, Spain; AKG Verwaltungsgesellschaft mbH, Germany; R2M Solution, France; Municipality of Aglantzia, Cyprus; PINK GmbH - Energie - und Speichertechnik, Austria.  
UCY Research Team: V. Efthymiou, G. Georghiou, FOSS Research Centre for Sustainable Energy  
Research Associates: A. Michael, Department of Architecture  
Author's project role: C. Heracleous, C. Charalambous  
Project Website: <http://www.hybuild.eu/>

Short description: HYBUILD will develop an innovative hybrid storage concept for cooling and heating energy provision, as well as for domestic hot water production, suitable for both the Mediterranean and the Continental climate. The integrated thermal and electric components and systems will be used to upgrade existing building configurations and will be monitored in three different demo sites in near-life operation, both for non-connected and district-connected buildings in different climates. A pilot application of the proposed system will be installed in a vernacular dwelling located in the historic core of Aglantzia, Nicosia, which will be used as a Renewable Energy Centre. Particular attention will be paid to the preservation of the building's cultural heritage values and to the assessment of the innovative technologies' contribution to the rehabilitation of historic buildings and settlements.

**09.2017 - 06.2021**

**Design and Development of an Environmentally Friendly and Smart Prefabricated Housing Unit (*prefab Eco-Smart house*)**

Programme Framework: Business Innovation Research Grants  
Development of Innovative Products, Services and Processes 2014-2020  
European Regional Development Fund; Republic of Cyprus

Call Identifier: 8.1.12.13.3.7.8 / proposal no: 32

Project Duration: 30 months

Budget - Funding: 435 240 Euro (total-budget), 44 220 Euro (sub-budget for UCY)

Partners: IMA Architecture; University of Cyprus, Department of Architecture; ELYMET Prefab Construction Ltd; PRICILAB Printed Circuit Laboratory, Open University of Cyprus.

UCY Research Team: A. Michael (Program Coordinator), A. Savvides (UCY Scientific Coordinator)

Research Associates: C. Vassiliades, A. Kartsiou, C. Heracleous, E. Triantafyllides, M. Xenophonos

Author's project role: Expert Advisor/Researcher on Specific Topic

Short description: The prefab Eco-Smart house project aims at the design and development of a prefabricated adaptive housing unit that adopts passive design strategies, integrated renewable energy technologies and smart control systems.

**04.2015 – 06.2017**

**Synergetic Multi-Objective Design and Construction of Timber Pavilion Prototypes (*Synergy*)**

Programme Framework: University of Cyprus (UCY) External Research Program,  
Private Funding for the Construction of Timber Pavilion Prototypes.

Project Duration: 22 months and 4 months extension

Budget - Funding: 100 000 Euro (external funding sub-budget)

Research Team: A. Michael, M.C. Phocas, O. Kontovourkis

Research Associate: C. Heracleous, I. Dimitriou, P. Konatzii

External Advisor: R. Illampas

Author's project role: Main Researcher

Short description: The Synergy research programme involved the integrated architectural design and construction of pavilion prototypes. It aimed at redefining the integrated design and construction process based on a transdisciplinary approach of the agents involved, with a view to achieve sustainable participatory design proposals.

**10.2014 – 02.2017**

**Energy and Environmental Design of Buildings Research Program (*E&EDB*)**

Short description: Establishment of E&EDB Research Laboratory

Programme Framework: Start-Up Research Grant, University of Cyprus (UCY)

Project Duration: 28 months

Budget - Funding: 56 000 Euro

Research Associate: C. Heracleous, A. Kyriakidis, S. Gregoriou, S. Thravalou

Author's project role: Main Researcher

Project Website: <http://www.ucy.ac.cy/arch/en/research/research-activities/research-labs#EEDB>

Short description: The Energy & Environmental Design of Buildings Research Laboratory (E&EDB) was established to cover research and technological innovation in the field of energy and environmental design in Cyprus, and at European level, with the aim of contributing to meeting the goals set out by Europe.

**09.2013 – 03.2016****Implementation of Sustainable Design Elements of Vernacular Architecture in the Rehabilitation of Traditional Buildings and in the Design of New Structures (*BioCultural*)**

Programme Framework: UCY Internal Research Programs, 2012  
 Project Duration: 24 months & 6 months extension  
 Budget - Funding: University of Cyprus (UCY) Internal Research Program, 68 000 Euro  
 Collaborators: University of Cyprus, Department of Antiquities, Department of Town Planning and Housing, Ministry of Interior  
 Research Team: M. Philokyprou (Research Coordinator), A. Michael, A. Savvides  
 Research Associate: E. Malaktou, C. Heracleous, S. Travalou  
 Author's project role: Expert Advisor/Researcher on Specific Topic (Part-time 07.2014 - 01.2015)  
 Project Website: <http://www.biocultural.ac.cy/>  
 Short description: The project involved the investigation of the environmental design dimensions of rural vernacular dwellings in the coastal, lowland and mountainous regions of Cyprus, which feature diverse topographical and climatic characteristics.

**06.2012 – 12.2014****Innovative Methods for the Protection and Conservation of Bioclimatic Design Elements in Traditional Buildings in the Historic Centre of Nicosia (*BioVernacular*)**

Programme Framework: Research, Technological Development and Innovation, Research Promotion Foundation (IPE-RPF), HUMANITIES-0609(BIE)07  
 Project Duration: 24 months & 3 months extension  
 Budget - Funding: Research Promotion Foundation (IPE-RPF), 100 000 Euro  
 Collaborators: University of Cyprus, Municipality of Nicosia, ICOMOS Cyprus, Frederick Research Centre  
 Research Team: M. Philokyprou (Research Coordinator), A. Michael, I. Ioannou, A. Petridou (Project Coordinator), A. Papadopoulou, P. Fokaides  
 Research Associate: S. Travalou, C. Heracleous  
 Author's project role: Main Researcher  
 Project Website: <http://www.biovernacular.ac.cy/>  
 Short description: The project aimed at investigating the bioclimatic design elements of urban traditional buildings, aiming at the preservation and enhancement of their passive design strategies, as well as at the optimization of the energy efficiency of their building envelope.

**Expert Advisor/Researcher on Specific Topic****Since 11.2020****Enhancing of Heritage Awareness and Sustainability of Built Environment in Architectural and Urban Design Higher Education (HERSUS)**

Code: 2020-1-RS01-KA203-065407 (ERASMUS Plus / Key Action K2)  
 Type of Project: KA203-Strategic Partnership for higher education  
 Project Duration: 31 months  
 Budget - Funding: 249,855 Euro (total-budget), 41,991 Euro (UCY sub-budget)  
 Partners: University of Belgrade, Faculty of Architecture, Serbia (Coordinator); Università IUAV DI Venezia, Italy; Department of Architecture and Arts; University of Cyprus, Department of Architecture; Aristotle University of Thessaloniki, School of Architecture, Greece; University de Sevilla, UNESCO Chair on Built Urban Heritage, CREhAR in the Digital Era.  
 UCY Research Team: M. Philokyprou, (UCY Scientific Coordinator), A. Michael, A. Savvides, P. Pyla, O. Kontovourkis and S. Thralvalou.

Author's project role: Expert Advisor/Researcher on Specific Topic  
 Short Description: HERSUS aims at reinforcing and modernizing curriculum within the existing programs at master level of studies (1) by designing, developing and implementing module based on concepts, knowledge and skills in the field of sustainability and heritage theories, and (2) by empowering the cross-Europe higher education system in a field of architecture and urban studies. One of the main objectives is creating new innovative modules within existing study programs in order to achieve a stable and sustainable education framework that will be complementary to the globally established goals in a field of architectural and urban studies education.

**Since 11.2019**

**Smart Rehabilitation**

**Innovating Professional Skills for Existing Building Sector (SEPIE)**

Code: 2019-1-ES01-KA203-065657 (ERASMUS Plus / Key Action K2)  
 Type of Project: KA203-Strategic Partnership for higher education  
 Project Duration: 30 months  
 Budget - Funding: 209 117 Euro (total-budget), 30 458 Euro (UCY sub-budget)  
 Partners: Rehabimed, Spain; Polytechnic University of Catalonia, Spain; Cesie, Italy; University of Palermo, Italy; University of Cyprus, Cyprus; Technological University of Kaunas, Lithuania; AEEBC, Ireland.  
 UCY Research Team: M. Philokyprou (UCY Scientific Coordinator), A. Michael, A. Savvides, E. Malaktou, S. Thravalou, C. Heracleous  
 Author's project role: Expert Advisor/Researcher on Specific Topic  
 Short Description: The programme aims to develop a training program for a new professional qualification 'Building Rehabilitation Expert', create on-line training courses (MOOC) and a tool for the access to technological and innovative interventions in Rehabilitation (multiple databases)

**11.2018 – 05.2020**

**INNOVAROOM: Generating new classrooms ideas for a better school education (INNOVAROOM roadmap)**

Programme Framework: European Commission, Erasmus+ Programme, Erasmus+: The Union Programme for Education, Training, Youth and Sport  
 Grant Agreement No: 2018-1-ES01-KA201-050729  
 Project Duration: 18 months  
 Budget - Funding: 13 854 Euro (UCY sub-budget), 78 502 Euro (total-budget)  
 Partners: I.E.S. Enrique Tierno Galván, Spain (Coordinator); University of Cyprus, Cyprus; Polo Europeo Della Conoscenza Europole, Italy; Muserum, Denmark; Liceul Tehnologic Grigore Moisil Braila, Romania.  
 UCY Research Team: A. Savvides (UCY Scientific Coordinator), C. Constantinou, A. Michael, O. Tsivitanidou, E. Drymiotou, C. Heracleous  
 Author's project role: Expert Advisor/Researcher on Specific Topic  
 Project Website: <http://innovaroom.eu/>  
 Short description: The project focused on generating new classrooms ideas for a better school education in Europe.

**06.2016 – 06.2017:**

**Contemporary Techniques of Conservation and Restoration of Traditional Buildings and Settlements (EduCult)**

Programme Framework: European Commission, Erasmus+ Programme, Mobility for VET Learners and Staff, Action KA1.  
 Project Duration: 12 months  
 Budget - Funding: 5 250 Euro (sub-budget), 32 895 Euro (total-budget)  
 Research Team: A. Michael, M. Philokyprou, A. Savvides  
 Author's project role: Expert Advisor/Researcher on Specific Topic



Short description: The project focused on training courses in the field of conservation and restoration of traditional buildings and is expected to have positive effects on the participants and participating organizations involved, as well as on the policy systems in which relevant activities are framed.

### **Professional Experience**

#### **Since 2014**

#### **Project Architect**

Individually and as a member of architectural team

- Design of private houses, small cafes and animal farms
- Participate in National and International Architectural Design Competitions

#### **2010- 2014**

#### **Internship**

EP Architects

#### **Internship**

Maratheftis – Yiannouris Architects Engineers

#### **Internship**

Polytia Armos Architects

### **MEMBERSHIP IN SCIENTIFIC ORGANISATIONS**

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- Scientific Technical Chamber of Cyprus (ETEK), Architecture A145863 (12.2014 -)
- Cyprus Architects Association (CAA) (11.2011 -)
- International Passive House Association (iPHA) (07.2013-)
- Hellenic Passive House Institute (EIPAK) (10.2013-)

### **REVIEWER OF REFEREED PAPERS FOR SCIENTIFIC JOURNALS, BOOKS AND INTERNATIONAL CONFERENCES**

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#### **Scientific Journals**

- **Atmosphere Journal, MDPI**, Impact Factor:2.686 (12.2021-)
- Reviewer of manuscripts (1) upon request from Ms. Melisa Lei
- **Journal of Architectural Engineering**, ASCE, Impact Factor: 2.050 (04.2021 -)
- Reviewer of manuscripts (1) upon request from Mohammad Heidarinejad, Ph.D., Associate Editor
- **Journal of Building Engineering**, Elsevier, Impact Factor: 5.318 (03.2020 -)
- Reviewer of manuscripts (1) upon request from Runming Yao, Receiving Editor
- **Building and Environment**, Elsevier, Impact Factor: 6.456 (06.2017 -)
- Reviewer of manuscripts (8) upon request from Qingyan Chen, Editor in Chief
- **Energy Efficiency**, Springer, Impact Factor: 1.810 (01.2017 -)
- Reviewer of manuscripts (1) upon request from Paolo Bertoldi, Editor
- **Indoor and Built Environment**, SAGE, Impact Factor: 1.900 (01.2016 -)
- Reviewer of manuscripts (1) upon request from Chuck Yu, Editor
- **Energy and Buildings**, Elsevier, Impact Factor: 5.879 (09.2016 -)
- Reviewer of manuscripts (4) upon request from Mat Santamouris, Editor

#### **Books**

- **Springer, Climate Adaptability of Buildings: Bioclimatic Design in the Light of Climate Change**  
Pre-publication reviewer of book proposal (1) upon request from Yasmin Brookes, Editorial Assistant (Engineering)

#### **International Conferences**

- **International Conference on Sustainability in Architectural Cultural Heritage - BioCultural 2015**  
Reviewer of (3) abstracts and papers, Scientific and Organizing Committee Member  
<http://cyprusconferences.org/biocultural2015/>

## PUBLICATION RECORD

## Book Authorship

1. Philokyprou, M., Michael, A., Thravalou S., **Heracleous C., The Bioclimatic Aspects of the Vernacular Architecture of Cyprus**, ISBN: 978-9963-33-9912-4-2, Nicosia, December 2014, in Greek.

## Refereed National Scientific Journal Articles

- Peer-reviewed by the editor -

1. Philokyprou, M., Michael, A., Thravalou S., **Heracleous C., Sustainability and Architectural Design: The case of traditional architecture of the Historical Centre of Nicosia**, Annual Review of History, Society and Politics, Promitheas Research Institute, Nicosia, Volume 6, 2020, ISSN 2421-7700, in Greek.
2. **Heracleous C., Michael A., Indoor air quality in educational buildings: its significance in the period of the Covid-19 pandemic**, Annual Review of History, Society and Politics, Promitheas Research Institute, Nicosia, Volume 8, 2022, ISSN 2421-7700, in Greek.

## Refereed International Scientific Journal Articles

- Peer-reviewed by at least two (2) reviewers -

1. Charalambous C., **Heracleous C., Michael A., Efthymiou V., Development of an innovative hybrid AC-DC distribution system for building integrated photovoltaics and energy storage solutions**, Renewable Energy (under review).
2. Englezou M., **Heracleous C., Kyriakidis A., Kyritsi E., Michopoulos A., Michael A., Energy performance and visual comfort analysis based on retrofitting actions in a public building in Cyprus**, Sustainable Energy Technologies and Assessments (under review).
3. **Heracleous C., Michael A., Savvides A., Hayles C., A Methodology to Assess Energy-Demand Savings and Cost-Effectiveness of Adaptation Measures in Educational Buildings in Warm Mediterranean Region**, Energy Reports, 8(C115):5472-5486, 2022. DOI: <https://doi.org/10.1016/j.egy.2022.03.140>
4. **Heracleous C., Michael A., Savvides A., Hayles C., Climate Change Resilience of School Premises in Cyprus: An Examination of Retrofit Approaches and Their Implications on Thermal and Energy Performance**, Journal of Building Engineering, 44, 103358, 2021. DOI: <https://doi.org/10.1016/j.job.2021.103358>
5. **Heracleous C., Michael A., Thermal Comfort Models and Perception of Users in Free-Running School Buildings of East-Mediterranean Region**, Energy and Buildings, 215, 109912, 2020. DOI: <https://doi.org/10.1016/j.enbuild.2020.109912>
6. **Heracleous C., Michael A., Experimental Assessment of the Impact of Natural Ventilation on Indoor Air Quality and Thermal Comfort Conditions of Educational Buildings in the Eastern Mediterranean Region During the Heating Period**, Journal of Building Engineering, 26, 100917, 2019. DOI: <https://doi.org/10.1016/j.job.2019.100917>
7. **Heracleous C., Michael A., Assessment of Overheating Risk and the Impact of Natural Ventilation in Educational Buildings of Southern Europe Under Current and Future Climatic Conditions**, Energy 165 (Part B): 1228-1239, 2018. <https://doi.org/10.1016/j.energy.2018.10.051>
8. Michael A., **Heracleous C., Assessment of Natural Lighting Performance and Visual Comfort of Educational Architecture in Southern Europe: The Case of Typical Educational School Premises in Cyprus**, Energy and Buildings, 140: 443-457, 2017. <https://doi.org/10.1016/j.enbuild.2016.12.087>
9. Michael A., **Heracleous C., Thravalou S. Philokyprou M., Lighting Performance of Urban Vernacular Architecture in the East-Mediterranean Area: Field Study and Simulation Analysis**, Indoor and Built Environment, 26/4 (2017) 471-487, SAGE, First Published Online: December 10, 2015, DOI: 10.1177/1420326X15621613.

**Refereed International Conference Proceedings Papers - Full Papers**

- Peer-reviewed by at least two (2) reviewers –

1. **Heracleous C.,** Michopoulos A., Michael A., Savvides A., etc. **Energy Retrofit of Public Educational Buildings and Sustainable Mobility: Case studies in Cyprus and Greece.** In: International Conference Construction, Energy, Environment and Sustainability, 27-30 June, Funchal, Portugal (in progress).
2. **Heracleous C.,** Michopoulos A., Michael A., Savvides A., **Energy, technoeconomic and comfort assessment of school premises in Cyprus and their proposed retrofit interventions.** In: 18<sup>th</sup> Healthy Buildings Europe Conference, 11-14 June 2023, Aachen, Germany (in progress).
3. **Heracleous C.,** Panayiotou R., Ioannou I., Philokyprou M. and Michael A., **Hydrothermal Performance of an Adobe Masonry Wall in a Traditional Building in Cyprus,** In: SBE23-Thessaloniki International Conference, Sustainable built environments: Paving the way for achieving the targets of 2030 and beyond, 22-24 March, 2023 (in progress).
4. Englezou M., **Heracleous C.,** Kyriakidis A., Kyritsi E., Michopoulos A., Michael A., **Evaluation of indoor comfort and visual conditions and analysis of energy intervention solutions in a public building in Cyprus,** 17th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), Paphos, Cyprus, 6th -10th November 2022.
5. Charalambous C., **Heracleous C.,** Michael A., Efthymiou V., **An innovative hybrid AC-DC distribution system for efficient use of solar systems,** 17th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), Paphos, Cyprus, 6th -10th November 2022.
6. **Heracleous C.,** Michael A, Savvides A., Hayles C., **A Cost-optimal Analysis of Adaptation Measures in Educational Buildings of Warm Mediterranean Region,** 16th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), Dubrovnik, Croatia, 10th -15th October 2021.
7. **Heracleous C.,** Michael A., Charalambous C., Efthymiou V., **Evaluation of Thermal Comfort and Energy Performance of a Case Study in Vernacular Architecture of Cyprus,** 35th PLEA Conference of Sustainable Architecture and Urban Design, Planning Post Carbon Cities, A Coruña, 1st-3rd September 2020.
8. **Heracleous C.,** Michael A, Savvides A., Hayles C., **Passive Measures for Improving Thermal Comfort and Energy Performance of Educational Buildings in Cyprus,** SEEP 2019 – 12<sup>th</sup> International Conference on Sustainable Energy & Environmental Protection, United Arab Emirates- University of Sharjah, 18<sup>th</sup>-21<sup>st</sup> November 2019, pp. 123-128, ISBN: 978-9948-36-625-6.
9. **Heracleous C.,** Michael A, **Experimental Assessment of Thermal Comfort Conditions in Educational Buildings in Cyprus Using Different Ventilation Strategies and Window Opening Patterns,** CATE conference 2019 – Comfort at the Extremes: Energy, Economy and Climate, Dubai, 10-11 April 2019, pp.636- 649.
10. **Heracleous C.,** Charalambous C., Michael A., Yiannaka A., Efthymiou V., **Development of an Innovative Compact Hybrid Electrical-Thermal Storage System for Historic Building Integrated Applications in the Mediterranean Climate,** CATE conference 2019 – Comfort at the Extremes: Energy, Economy and Climate, Dubai, 10-11 April 2019, pp.364-376.
11. Savvides A., Michael A., Vassiliades C., Kartsiou A., **Heracleous C.,** Xenophontos M., Ierides V., Gianni N., Maimaris C, **Energy Efficient Prefabricated Housing Units: Product Review and the Development of a Cypriot Paradigm,** In: International Conference on Sustainable Design of the Built Environment, SDBE London, UK, 12-13 Sept. 2018, pp.388-397.
12. **Heracleous C.,** Michael A., **Thermal Comfort Conditions and Air Quality in Educational Buildings in Cyprus During the Heating Period: The Impact of Natural Ventilation,** In: Second International Conference on Sustainable Design of the Built Environment, SDBE London, UK, 12-13 Sept. 2018, pp.1108-1119.
13. **Heracleous C.,** Michael A., **Climate Change and Thermal Comfort in Educational Buildings of Southern Europe: The case of Cyprus,** In: 10<sup>th</sup> International Conference on Sustainable Energy and Environmental Protection, Bled, Slovenia, 27-30 June 2017, pp.183-193, ISBN 978-961-286-0509.
14. **Heracleous C.,** Ioannou I., Philokyprou M. and Michael A., **Hydrothermal Performance of a Stone Masonry Wall in a Traditional Building in Cyprus,** In: International PLEA Conference, Architecture in (R) Evolution, Edinburgh, UK, 3-5 July 2017, volume III, pp.5030-5037, ISBN 978-0-9928957-5-4.

15. **Heracleous, C., Lo S., Technical Viability of Low-Energy Strategies to Meet Passivhaus Standards for Domestic Buildings in Cyprus.** In: 31st International PLEA Conference, Architecture in (R) Evolution, Bologna, Italy, 9- 11 September 2015, paper no. 46, Bologna: Building Green Futures.
16. Michael A., **Heracleous C., Malaktou E., Savvides A., Philokyprou M., Lighting Performance in Rural Vernacular Architecture in Cyprus: Field Studies and Simulation Analysis.** In: 31st International PLEA Conference, Architecture in (R) Evolution, Bologna, Italy, 9- 11 September 2015, paper no. 304, Bologna: Building Green Futures.

#### **PUBLIC LECTURES AND MEDIA PRESENTATIONS**

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1. **Energy Retrofit of existing building stock in Cyprus: Challenges and Prospects,** Invited Lecturer, Technical Chamber of Cyprus (ETEK), Nicosia, 04.05.2022.
2. **Energy Retrofit of existing building stock in Cyprus: Challenges and Prospects**  
Invited Lecturer at the Seminar organized by the Interdepartmental Postgraduate Programme «Energy Technologies and Sustainable Design», University of Cyprus, Nicosia, 24.11.2021
3. **Indoor Comfort Conditions in Educational Buildings**  
Invited Lecturer at the Department of Architecture, University of Cyprus, Nicosia, 04.11.2021
4. **Climate Change Resilience of Educational Premises in Cyprus: An Examination of Retrofit Approaches and Their Implications on Indoor Comfort Conditions and Energy Performance**  
Ph.D. Dissertation Defense, School of Architecture, University of Cyprus, Nicosia, 09.04.2021.
5. **Energy Retrofit of School Premises in Cyprus: Challenges and Prospects**  
Invited Lecturer at Symposium, Lectures for Energy and Environment, Long-term Building Renovation Strategy, Cyprus Employers and Industrialists Federation, Headquarters of the Federation of Employers & Industrialists (OEB), Room A, Nicosia, 19.02.2020.
6. **The Bioclimatic Approach of Vernacular Architecture in Nicosia**  
Lecturer at Symposium “Energy Technologies and Restoration of Vernacular Architecture” organized by HyBuild Research Project, University of Cyprus, Culture Centre of SPE Aglantzias, Aglantzia, 25.11.2019.
7. **Bioclimatic and Sustainable Approach for the Design of Educational Facilities**  
Invited Lecturer at Erasmus+ Project: INNOVAROOM Generating new classrooms ideas for a better school education, Department of Architecture, University of Cyprus, 02.03.2019.
8. **Hybuild – EU Horizon 2020,** Dissemination Presentation of the Hybuild Research Programme  
Invited Lecturer at Symposium, Smart Cities and Society: Challenges and Prospects, University of Cyprus, Department of Architecture, University of Cyprus, 06.11.2018.
9. **Natural and Artificial Lighting**  
Invited Lecturer at the post-graduate course ARH 539 Specialization in Architectural Technology, University of Cyprus, Department of Architecture, 26.03.2018.
10. **Passive House Basics**  
Invited Lecturer at the post-graduate course ARH 539 Specialization in Architectural Technology, University of Cyprus, Department of Architecture, 26.03.2018.
11. **Energy Performance of Buildings, Technical Systems and BMS systems**  
Invited Lecturer, Lessons to high school students, *EduCult* Erasmus+ Programme, Europa Hotel, Nicosia, 21.02.2017-24.02.2017.
12. **Passive House Basics**  
Invited Lecturer at Seminar, Passive House Basics, Hellenic Passive House Institute (EIPAK), Technical Chamber of Cyprus, Nicosia, 09.07.2016.
13. **Renewable Energy Systems**  
Invited lecturer, in the undergraduate course APH 331.2 Building Technology of the Department of Civil and Environmental Engineering, University of Cyprus, Nicosia, 05.04.2016.
14. Media Interview: **Vernacular Architecture and Bioclimatic Design**  
Mazi, Live Television Programme, CyBC1, 16:30 - 17:50, Cyprus Broadcasting Corporation, Nicosia, 06.04.2016.
15. **Heating, Cooling and Air Conditioning Systems**

## CURRICULUM VITAE

Invited Lecturer in the undergraduate course APH 331.2 Building Technology of the Department of Civil and Environmental Engineering, University of Cyprus, Nicosia, 29.03.2016.

16. **Environmental Implications in Relation to Energy Savings in Buildings**

Invited Lecturer at Symposium, Passive House Buildings and Nearly Zero Energy Buildings, Spolmik, Hellenic Passive House Institute and University of Cyprus, University of Cyprus, New Campus, Nicosia, 26.02.2016

17. **Hellenic Passive House Institute and International Passive House Association**

Invited Lecturer at Symposium, Passive House – a Path through Nearly Zero Energy Buildings, Cyprus Mech. Engineers Association and EIPAK, CMEA Offices, Nicosia, 14.10.2015.

## JURY / COMMITTEE MEMBER

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1. **Cyprus Ministry of Education and Culture**

Committee Member on the Installation of Air Conditioning in Educational Buildings of Cyprus (08.2019-12.2019)

2. **Department of Architecture, University of Cyprus**

Jury Member for Final Presentation of 'APH 539 Specialized Topics in Architectural Technology: Passive and Active Systems - Efficient Building Envelopes' course, University of Cyprus, 2021.

3. **Department of Architecture, University of Cyprus**

Jury Member for Semi-Final and Final Presentations of 'APH 301 Architectural Design VI' course, University of Cyprus, 2018, 2019.

4. **Department of Architecture, University of Cyprus**

Jury Member for Semi-Final and Final Presentations of 'APH 332 Construction III' course, University of Cyprus, 2017, 2018.

5. **Department of Architecture, University of Cyprus**

Jury Member for Semi-Final and Final Presentations of 'APH 233 Construction II' course, University of Cyprus, 2016.

6. **Department of Architecture, University of Cyprus**

Jury Member for Final Presentations of 'APH 538 Environmental Design' course, University of Cyprus, 2014, 2015.

## SEMINARS

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1. **Basic Principles of Playground Equipment Design Based on the Requirements of the European Standard CYS EN 1174**, Cyprus Standardization Organization, Nicosia, 24 May 2022.

2. **Energy Saving in Buildings with Automation and Control Systems - CYS EN 15232**

Cyprus Standardization Organization, Limassol, 7 April 2016.

3. **Energy Efficiency of Buildings and iSBEMcy Software Learning**

Citizens Energy Office, Nicosia, 6-7 April 2015.

4. **Lighting II - Learning DIALux Software: Photography and Energy Valuation**

Citizens Energy Office, Nicosia, 12 February 2015.

## CERTIFICATIONS

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1. **Passivhaus Institut, Darmstadt, Germany**

Certified PassivHaus Designer, 06.2013

2. **University of Bath, UK**

Pre-Study English Course and IELTS

**SOFTWARE AND OTHER SKILLS**

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**Expert:** Autodesk AutoCAD, Integrated Environmental Solutions (IES-VE), Autodesk Ecotect Analysis, Desktop Radiance, Daysim, Google SketchUp, Adobe Photoshop, Adobe Illustrator, Adobe In Design, iSBEM, Vray, MS Office, PHPP, Use of Infrared Thermograph Camera and Monitoring Equipment of Environmental parameters.

**Intermediate:** 3D Studio Max, Dialux

**LANGUAGES**

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**Greek** (native language)

**English** (speak fluently and read/write with high proficiency)

**French** (speak, read, and write with basic competence)