

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**

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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

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

2006 - 2011

Cyprus State Scholarship Foundation

For undergraduate studies

ACADEMIC – PROFESSIONAL QUALIFICATIONS

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, 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

09.2015 – 05.2020

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 2019 – 20, Co-instructors: M. Philokyprou, O. Kontovourkis)

Undergraduate Programme in Architecture**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)

09.2015 – 12.2016**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 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**Main Researcher****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

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**

(ΑΝΑΒΑΘΜΙΣΗ)

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
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. Stimoniari D., Kotas T., C. Heracleous
Author's project role:	Reseracher
Project Website:	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 A. Michael, Department of Architecture
Research Associates:	C. Heracleous, C. Charalambous
Author's project role:	Main Researcher
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. Xenophontos
 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 11.2019

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

- 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

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.

Refereed International Scientific Journal Articles

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

1. **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**, expected to be submitted to Energy Reports.
2. **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.jobe.2021.103358>
3. **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>
4. **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.jobe.2019.100917>
5. **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>
6. 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>
7. 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., 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.
2. **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.
3. **Heracleous C., Michael A, Savvides A., Hayles C., Passive Measures for Improving Thermal Comfort and Energy Performance of Educational Buildings in Cyprus**, SEEP 2019 – 12th International Conference on Sustainable Energy & Environmental Protection, United Arab Emirates- University of Sharjah, 18th-21st November 2019, pp. 123-128, ISBN: 978-9948-36-625-6.
4. **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.
5. **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.
6. 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.
7. **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.
8. **Heracleous C., Michael A., Climate Change and Thermal Comfort in Educational Buildings of Southern Europe: The case of Cyprus**, In: 10th International Conference on Sustainable Energy and Environmental Protection, Bled, Slovenia, 27-30 June 2017, pp.183-193, ISBN 978-961-286-0509.
9. **Heracleous C., Ioannou I., Philokyrou 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.
10. **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.
11. Michael A., **Heracleous C., Malaktou E., Savvides A., Philokyrou 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

1. **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

2. **Indoor Comfort Conditions in Educational Buildings**
Invited Lecturer at the Department of Architecture, University of Cyprus, Nicosia, 04.11.2021
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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.
11. **Passive House Basics**
Invited Lecturer at Seminar, Passive House Basics, Hellenic Passive House Institute (EIPAK), Technical Chamber of Cyprus, Nicosia, 09.07.2016.
12. **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.
13. **Media Interview: Vernacular Architecture and Bioclimatic Design**
Mazi, Live Television Programme, CyBC1, 16:30 - 17:50, Cyprus Broadcasting Corporation, Nicosia, 06.04.2016.
14. **Heating, Cooling and Air Conditioning Systems**
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.
15. **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
16. **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

1. **Cyprus Ministry of Education and Culture**
Committee Member on the Installation of Air Conditioning in Educational Buildings of Cyprus (08.2019-12.2019)

CURRICULUM VITAE

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

1. **Energy Saving in Buildings with Automation and Control Systems - CYS EN 15232**
Cyprus Standardization Organization, Limassol, 7 April 2016.
2. **Energy Efficiency of Buildings and iSBEMcy Software Learning**
Citizens Energy Bureau, Nicosia, 6-7 April 2015.
3. **Lighting II - Learning DIALux Software: Photography and Energy Valuation**
Citizens Energy Office, Nicosia, 12 February 2015.

CERTIFICATIONS

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

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

Greek (native language)
English (speak fluently and read/write with high proficiency)
French (speak, read, and write with basic competence)