

## CALL FOR PAPERS

Papers are being sought for the annual International Conference “**ENERGY in BUILDINGS 2019**” to be held in Athens, Hellas on **Saturday September 28, 2019**.

The Conference is organized by the ASHRAE Hellenic Chapter in collaboration with the Technical Chamber of Greece (TEE).

### WHY “ENERGY IN BUILDINGS”?

“What are the current and emerging technological trends in the buildings sector? What is the “Net Zero Energy Building - NZEB”? Is it the future of Buildings or a utopia? Are we ready for a more sustainable change in materials, methods, processes and equipment? How easy is the real scale implementation and adaption in our everyday life?”

One of ASHRAE priorities is the navigation towards the new energy era and the Hellenic Chapter intends, with a renewed conference scheme, to give answers to these questions by presenting the state-of-the-art developments in the Energy Efficiency Building sector.

### AN INTERNATIONAL EVENT

“ENERGY in BUILDINGS” is an International Conference that will take place for the eighth consecutive year. It brings together Engineers, Architects, Academics, Professionals of different disciplines and other stakeholders who contribute and advance the state of art of the built environment. Information and videos from the previous conferences can be found at the Hellenic Chapter’s website ([www.ashrae.gr/events.php](http://www.ashrae.gr/events.php)). The Conference will host accepted papers and posters as well as presentations and workshops of invited speakers. There is no conference registration fee. The official language of the Conference is English.

### CALL FOR PAPERS

All interested authors are invited to submit papers to be considered for presentation in the International Conference “**ENERGY in BUILDINGS 2019**”. Submitted contributions should be original research papers, not submitted or considered for publication elsewhere.

Authors should submit an abstract of no more than 400 words by **May 27, 2019**.

If accepted, full papers will be due **July 22, 2019**. A typical manuscript is limited to 10 pages.

Submitted abstracts and papers will undergo peer-review by the Conference Scientific Committee.

Submittal information and templates for abstracts, full papers and posters can be found at <http://www.ashrae.gr/einb2019.php>

Authors of accepted papers are responsible for their travel and accommodation. An author must register and present his paper during the Conference in person, one mandatory author registration per paper, in order to be included in the final program and the paper in the Conference Proceedings that will be published in an electronic media publication with open access (e-Proceedings book with an ISBN number).

### THE CONFERENCE TOPICS

The Conference will present the state of the art in building design, construction, commissioning, operation & maintenance as well as emerging new technologies & materials. The conference topics include, but are not limited to:

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| <ul style="list-style-type: none"><li>✓ Nearly or Net Zero, and Net Positive Energy Buildings</li><li>✓ Data Centers Beyond Current Technologies</li><li>✓ Architectural Designs for High Performance Buildings</li><li>✓ Indoor Environment Quality (IEQ), Health &amp; Comfort, Occupant Psychology &amp; Acceptance</li><li>✓ IoT for the Built Environment.</li><li>✓ Renewable Energy in Buildings</li><li>✓ Next Gen HVAC Simulations &amp; Energy Management</li></ul> | <ul style="list-style-type: none"><li>✓ Advances in Refrigeration &amp; Alternative Refrigerants</li><li>✓ Embodied Energy, Life Cycle Assessment</li><li>✓ Daylight &amp; Artificial Lighting</li><li>✓ Advanced Materials and Applications</li><li>✓ Renovation for Improved Energy Performance</li><li>✓ Cogeneration &amp; Energy Storage in Buildings</li><li>✓ Sustainable Neighbourhoods, Cities and Regions</li></ul> |
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## CONFERENCE THEMES & SPECIAL SESSIONS

### Resiliency, Efficiency, Sustainability and Smart Technologies

This year the conference will place an emphasis in improving resiliency of our built-environment, on how our modern, technology dependent, society can continue to function when subject to disruptive events, be they human caused, technology malfunctions and failures, or natural disasters.

Topics of interest include: the vulnerability of the built environment to extreme events, how smart technologies can improve resiliency, the interrelationship of improved sustainability and improved resiliency, the future of energy and water efficiency in order to meet the demands of a more sustainable built environment, methods to future-proof the design of buildings and the built environment.

### Lighting

The Lighting thematic event will provide an opportunity to exchange views on key areas of light and lighting engineering, to present progress in technology and to discuss future challenges. Areas of interest include, but are not limited to: Lighting technology (lamps, luminaires, lighting controls, Lighting calculations and measurements; Energy efficiency and economics of lighting; Standards and legislation in lighting; Daylight design and control; Interior & exterior lighting; Architecture lighting; Lighting in antiquity, Illumination of archaeological sites, monuments and museums; Human aspects of lighting.

## INTERNATIONAL SCIENTIFIC COMMITTEE

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| <ul style="list-style-type: none"><li>• Ioanna B. Deligkiozi, Ph.D.<br/><i>Chemical Engineer, NTUA<br/>Senior Manager, Axia Innovation,<br/>München, Germany</i></li><li>• Maria Taxiarchou, Ph.D.<br/><i>Assistant Professor School of Mining and Metallurgical<br/>Engineering, NTUA</i></li><li>• Chrysanthi Panagiotopoulou, Ph.D.<br/><i>Senior Researcher, School of Mining and Metallurgical<br/>Engineering NTUA</i></li><li>• Thomas M. Lawrence, Ph.D.<br/><i>Building Physicist, Senior Researcher, IERSD, National<br/>Observatory of Athens, Hellas</i></li><li>• Elena Dascalaki, Ph.D.<br/><i>Building Physicist, Senior Researcher, IERSD, National<br/>Observatory of Athens, Hellas</i></li><li>• Drury B. Crawley, Ph.D.<br/><i>FASHRAE, BEMP, FIBPSA, AIA<br/>Director, Building Industry Development,<br/>Bentley Fellow, Bentley Systems, Inc.</i></li></ul> | <ul style="list-style-type: none"><li>• Eleftherios Bourdakis, Ph.D.<br/><i>Policy Officer, Energy Efficient Buildings, European<br/>Commission</i></li><li>• Essam Khalil, Ph.D.<br/><i>FASHRAE, FASME, FAIAA<br/>Professor, Faculty of Engineering, Cairo University, Egypt</i></li><li>• Constantinos Balaras, Ph.D.<br/><i>FASHRAE, Research Director,<br/>National Observatory of Athens, Hellas</i></li><li>• Aleksandar Andelković, Ph.D.<br/><i>Director of Energy Innovation Center, Dpt. of Energy<br/>&amp; Process Engineering, Faculty of Technical<br/>Sciences, University of Novi Sad, Serbia</i></li><li>• Antonis Peppas, Ph.D.<br/><i>Senior Researcher, School of Mining and Metallurgical<br/>Engineering NTUA</i></li><li>• Dimitris A. Charalambopoulos, M.Sc., BEAP<br/><i>Mechanical Engineer, D.A. Charalambopoulos &amp; Assocs,<br/>Engineering Consultants, Hellas.</i></li></ul> |
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### IMPORTANT DATES:

- ~~May 27, 2019:~~ Abstract Submission Deadline  
**June 17, 2019:** (Submit your abstract electronically to [EinB2019@ashrae.gr](mailto:EinB2019@ashrae.gr))
- June 3, 2019: Notification of abstract acceptance
- July 22, 2019: Paper Submission Deadline  
(Submit your paper electronically to [EinB2019@ashrae.gr](mailto:EinB2019@ashrae.gr))
- August 5, 2019: Notification of decision / comments for full papers
- August 26, 2019: Final Paper Submission Deadline  
(Submit your paper electronically to [EinB2019@ashrae.gr](mailto:EinB2019@ashrae.gr))
- September 2, 2019: Final Notification of decision
- September 9, 2019: Registration deadline for Authors (only registered speakers will be included in the final program, there is no registration fee)
- September 16, 2019: Final Program
- **September 28, 2019: "ENERGY in BUILDINGS 2019"**

### PUBLICATION

Accepted full papers will be published in an electronic media publication (e-Proceedings book with an ISBN number). Oral presentations will be videotaped and uploaded for free viewing on the Conference website. Only the papers presented during the Conference will be included in the e-Proceedings.

### Past e-Proceedings

Conference Proceedings of the 23 papers presented at "ENERGY in BUILDINGS 2016" are available online at <http://ashrae.gr/EinB2016.php> (note that the size of the file is 105MB).

Conference Proceedings of the 29 papers & posters presented at "ENERGY in BUILDINGS 2017" are available online at <http://ashrae.gr/EinB2017.php> (note that the size of the file is 175MB).

Conference Proceedings of the 38 papers & posters presented at "ENERGY in BUILDINGS 2018" are available online at <http://ashrae.gr/einb2018.php> (note that the size of the file is 120MB).

### ENQUIRIES

All enquiries should be directed to: [EinB2019@ashrae.gr](mailto:EinB2019@ashrae.gr)

**Ioanna Deligkiozi, Ph.D.**  
Chemical Engineer, NTUA  
Senior Manager, Axia Innovation, München  
EinB2019 Conference Chair  
ASHRAE Hellenic Chapter President 2016-2017  
ASHRAE Region XIV, Nominating Committee

**Chrysanthi Panagiotopoulou, Ph.D.**  
Chemical Engineer  
Senior Researcher  
EinB2019 Conference Chair  
School of Mining and Metallurgical Engineering  
National Technical University of Athens