Event:	**ENERGY in BUILDINGS – Northern Hellas 2018**
Date:	Saturday May 5, 2018
Place:	Thessaloniki, Hellas

#	**Serasidou Anna** Architect Engineer	
Title:	Architect Engineer at DOMOTECHNIKI S.A., Thessaloniki, Greece	
email:	a.serasidou@gmail.com	
Presentation title:	**The SPITI project - A solar-powered innovative technologically inhabitancy**	

The need for reduced energy consumption nowadays, dictates a new way of thinking about the design, construction, and renovation of buildings. The use of renewable energy sources becomes a necessity in order to reduce the environmental footprint of buildings and mitigate the effects of climate change. The Solar Decathlon is an international, university-level student competition focusing on those specific goals for sustainable, responsible, energy-efficient architecture and engineering. The university teams compete in the design, construction and management of individual, solar-powered and energy-efficient homes.

The International Hellenic University will be the first Greek team to ever participate in Solar Decathlon Europe 2019, which will be held in Szendrendre, Hungary, focusing on the revitalization of the building stock. Based on an intertwining of socioeconomic, environmental and aesthetic awareness, team IHU seeks cost-effective renovation solutions for the typical Greek *Polykatoikia,* that combine energy efficiency with innovative ideas and technologies. The team's ambition is to provide a viable solution for the repurposing of *Polykatoikia* by extending its life cycle, adapting to the urban microclimatic conditions and ensuring high thermal comfort, as well as a healthy and pleasant living experience for its users with more daylight and fresh air. All in all, team IHU will design a Solar Powered Innovative Technologically Inhabitancy, or in other words a SPITI, which in Greek means "house" or "home".

The SPITI project aims to produce a prototype for solar-powered and energy efficient apartments. It will be designed in such a way as to achieve primary energy savings of at least 70% compared to a typical apartment and cover 100% of its energy needs via solar energy conversion systems. More specifically, the focus is the roof-top apartment of the typical Greek *Polykatoikia*.

CV:	

Anna Serasidou

e-mail: a.serasidou@gmail.com
LinkedIn: gr.linkedin.com/in/annaserasidou/

Education:

2015–2017	MSc in Energy Building Design, School of Science and Technology, International Hellenic University, Greece
2008–2014	Diploma in Architectural Engineering, School of Architecture, Aristotle University of Thessaloniki, Greece
2012–2012	Master in Architecture, Institut für Architektur, Technische Universität Berlin, Germany (Erasmus Program)

Work Experience:

October 2014 – present: Architect Engineer in Domotechniki S.A., Department of Research and Development, Thessaloniki, Greece

- Architectural design
- Bill of quantities for big and small scale public and private projects
- Supervision of construction projects
- Graphic design of company's audiovisual material
- Management of the company's website
- Work according to ISO and EFQM business excellence models and under strict deadlines

July 2009 and July 2010: Architecture Student in the Research program: *"Recording and evaluation of traditional architecture in the settlement of Pirgos Callistis in Santorini"*, Estia Cultural Center, Pirgos, Municipality of Santorini

- Architectural and Photographical mapping of the settlement of Pirgos
- Research about the traditional architecture of the settlement
- Evaluation of correct and inappropriate modern interventions in the existing buildings
- Design of an architectural manual with general information and instructions for correct restoration of private and public buildings in the area

Publications:

- Serasidou A., Martinopoulos G. (2018) "Building Integrated Photovoltaic Systems as a sustainable option for retrofitting of office buildings in South East Europe", 10th International Conference on Improving Energy Efficiency in Commercial Buildings and Smart Communities (IEECB&SC'18), European Commission, DG JRC
- C. Palivou et al. (2014) "Small-scale architectural interventions in traditional settlements in Santorini: The example of Pirgos Callistis, Practical Guide,", Municipality of Thira, Tipokikladiki S.A.

Conferences – Projects:

- **March 2018:** Presentation, «Building Integrated Photovoltaic Systems as a sustainable option for retrofitting of office buildings in South East Europe", 10th International Conference on Improving Energy Efficiency in Commercial Buildings and Smart Communities (IEECB&SC'18), Frankfurt, Organizer: European Commission, DG JRC
- **March 2018:** Presentation, «Building integrated renewable energy systems for energy retrofitting of a single-family residence towards an NZEB", 11th National Conference for Renewable Energy Sources, Thessaloniki, Organizer: Institute of Solar Technology

- **July 2017 – present:** Leading member in SPITI Project, International Hellenic University's team participating in Solar Decathlon Europe 2019

Languages:

English: Level: Proficient user (C2)
Certificate of Proficiency in English, University of Cambridge
German: Level: Independent user (C1)
Zentrale Mittelstufenprüfung, Goethe Institut
Greek: Level: Mother tongue

Technical Skills:

- CAD/3D Modeling: AutoCad, Rhinoceros, SketchUp, ArchiCad, Autodesk Revit
- Adobe Creative Suite: Photoshop, InDesign, Illustrator
- Energy Simulation: EnergyPlus, System Advisor Model
- MS Office, Internet Services, Programming in Python