

Young Engineers (YEA) in HVAC Society and Industry - Responsibilities and Challenges



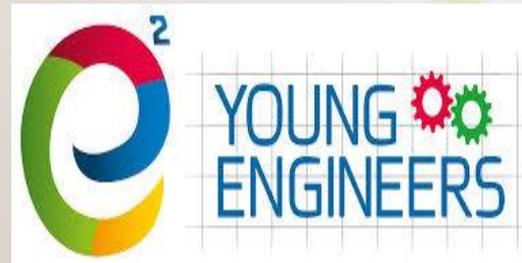
Aleksandar Anđelković,
Chair of YEA Committee of ASHRAE Danube Chapter

7th Students Day on 45th HVAC Congress

- In 2009 on behalf of 39th HVAC Congress we established first students gathering called Student Day
- From the last year this program transformed to the gathering of students, young engineers and representatives of the main congress sponsors
- Main program objectives :
 1. Promotion of the "MODERN EDUCATION"
 2. Networking/Information exchange between students, young engineers and potential employers
 3. Promotion of the Scholarship, Internship and Employment programs
 4. Information about the newest world wide trends in our HVAC industry
 5. Professional Development



YEA?



Who are Young Engineers - YEA???



YEA Worldwide?

- To ensure the future of the HVAC industry, professional societies and organizations are committed to advancing its programs and services for **young members** through helping them build their professional foundations.
- With this in mind, those organizations created a committees called Young Engineers, for members age 35 and younger!



IIR/IIF – The International Institute of Refrigeration is the only independent intergovernmental science and technology based organization which promotes knowledge of refrigeration and associated technologies that improve quality of life in a cost-effective and environmentally sustainable manner.

Student Competition – International Congress of Refrigeration ICR2015, Yokohama, Japan

Open to undergraduate students from engineering schools, their project should focus on one essential global issue related to food availability and food safety.

Possible topics:

1. Cold chain sustainability and food safety
2. Refrigeration energy efficiency (design, audit and monitoring)
3. Security of energy supply in food chain; role of renewable energy sources
4. Refrigeration energy efficiency in food transportation

More on <http://www.iifiir.org/>



ASHRAE Design Competition

ASHRAE sponsors these competitions to encourage students to become involved in a profession that is crucial to insuring a sustainable future for our Earth – the design of energy-efficient HVAC systems.

Teams may compete in one of the four categories:

- HVAC Design Calculations
- HVAC System Selection
- Integrated Sustainable Building Design (ISBD)
- The Applied Engineering Challenge

More on: <https://www.ashrae.org> (student-zone)



The CIBSE Young Engineers Awards

- First prize is a trip to USA to attend the ASHRAE Winter Meeting. Young engineer will be a VIP guest of the Society and will serve as CIBSE's 'ambassador' for young engineers.
- Second prize is a cheque for £500 and third is a cheque for £250.

More on <http://www.cibse.org/>



Solar Decathlon

Solar Decathlon is an international competition that challenges 20 teams to design, build, and operate the most attractive, effective, and energy-efficient solar-powered house. The winner of the competition is the team that best blends affordability, consumer appeal, and design excellence with optimal energy production. The first Solar Decathlon was held in 2002. The competition has since occurred biennially in 2005, 2007, 2009, 2011 and 2013. Open to the public and free of charge, the Solar Decathlon allows visitors to tour ultra-efficient houses, gather ideas to use in their own homes, and learn how energy-saving features can help reduce power bills. The competition is presented by the U.S. Department of Energy and organized by the National Renewable Energy Laboratory (NREL).

There is also a **Solar Decathlon Europe**, which was established by a 2007 agreement between the United States and Spain.

Solar Decathlon China was established with the signing of a memorandum of understanding between the U.S. Department of Energy, China's National Energy Administration, Peking University, and Applied Materials on January 20, 2011. The first Solar Decathlon China was held in 2013.



Green Exhibition

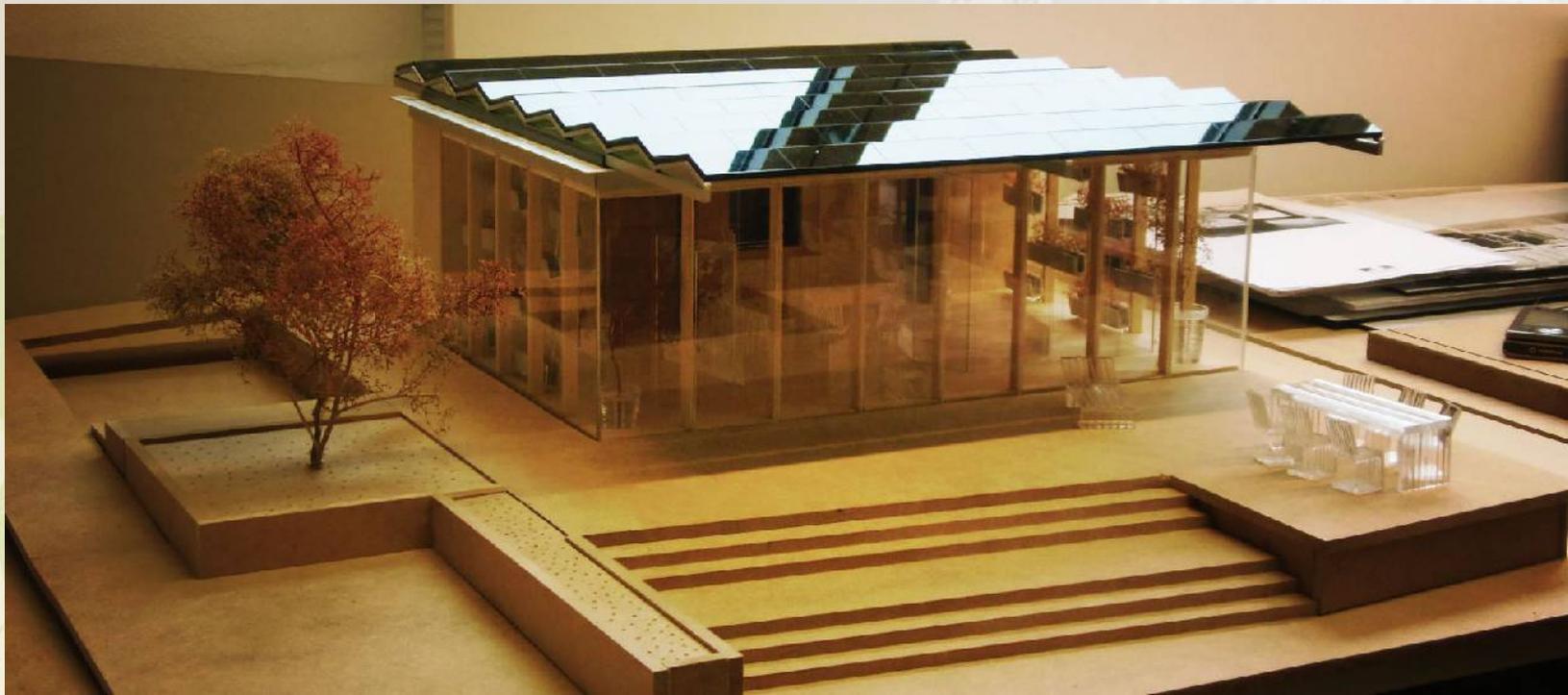
Student teams presentations of University of Belgrade, Bucharest, Novi Sad and Zagreb

Concept Membrain - Selfsustainable House Project

Hrvoje Nikola Vučemilo, University of Zagreb

Ante Marušić, University of Zagreb

Ivan Vrca, University of Zagreb



**“Success happens when
preparation meets opportunity”**

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