#	**Aleksandar Andjelkovic** PhD, Mechanical Engineer	
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Presentation title:	**SENSO - An Intelligent Answer for Indoor Environmental Quality Performance Control**	

The built environment has profound effects on human health and surrounding environment. At their best, our buildings are powerful promoters of health and well-being; however, at their worst, buildings contribute to some of the key health concerns of modern society, from asthma to cancer to obesity. Indoor environmental quality (IEQ) encompasses the conditions inside a building - air quality, lighting, thermal conditions, acoustics - that can have direct or indirect effects on the quality of our living spaces, health, and well-being. Studies have shown that inadequate lighting, thermal conditions and acoustics levels are correlated with adverse health and well-being outcomes and impaired productivity. One of the most common and important issues is that indoor air pollutant levels often surpass outdoor levels. Exposure to elevated pollution concentrations is correlated with impaired productivity and detrimental or even lethal health outcomes. Yet, very little is known about the quality of air that people are exposed to. The problem could be amplified because we cannot always smell or feel the content of the air. Therefore, the task is absolutely essential to provide a real-time solution to have a better understanding of invisible part of the indoor environment which is centered on humans. Through proposed SENSO solution, intention is to collect, process, and understand real-time IEQ data, to enable improved human health and well-being in an energy efficient manner to improve the IEQ performance and quality of life.

CV:

Assistant professor, researcher and independent consultant focusing on: HVAC systems; energy efficiency; building design, performance and operation; renewable energy; energy audits and management; district heating and cooling systems. A highly motivated mechanical engineer with an expertise in HVAC&R systems and renewable energy with a broad and acute interest in developing energy efficient buildings. Collaboration with experienced scientists from prestigious universities resulted in developing new skills such as performing research independently, as well as strong writing/publishing and teaching skills. Active in ASHRAE, IBPSA, CIBSE, and reviewer of three international and national journals. Published more than 30 papers/articles and made more than 100 presentations on HVAC energy efficiency, sustainability, and renewable energy throughout the world.

MEMBERSHIP/POSITIONS OF RESPONSIBILITY

- ASHRAE REGION XIV YEA Coordinator
- Member of ASHARE
- Member of Society for HVAC&R of Serbia
- Member of IBPSA
- Member of CIBSE

- Member of Steering committee of Union of Mechanical and Electrical Engineers and Technicians of Serbia
- Member of Organizing Committee of International Congress on Heating, Refrigerating and Air-Conditioning, Belgrade, Serbia (2012, 2013, 2014, 2015, 2016, 2017)
- Member of Student Activities Committee of ASHRAE Danube Chapter
- Member of Technology Transfer Committee of ASHRAE Danube Chapter
- Chair of Young Engineers Committee of ASHRAE Danube Chapter
- Member of Editorial Board and associate editor of Scientific and Professional Journal for Air-Conditioning, Heating and Refrigeration (KGH), ISSN 0305-1426
- Member of Grassroots Government Activities Committee of ASHRAE Danube Chapter University of Novi Sad ASHRAE Student Branch Advisor
- Certified LEEN (Learning Energy Efficiency Networks) Consultant Engineer. Registered by LEEN GmbH, Certificate Number etB-00145
- ASHRAE Danube Chapter Student Activities Committee Chair of ASHRAE Danube Chapter

SELLECTED PAPERS IN INTERNATIONAL PEER REVIEW JOURNALS

1. Anđelković, A., Gvozdenac-Urošević, B., Kljajić, M., Ignjatović, M.: Experimental research of the thermal characteristics of a multi-storey naturally ventilated double skin facade, Energy and Buildings (Elsevier), 2015, Vol. 86, pages 766-781
2. Sučić, B., Anđelković, A.,Tomšić, Ž.: The concept of an integrated performance monitoring system for promotion of energy awareness in buildings, Energy and Buildings (Elsevier), 2015, Vol. 98, pages 82-91
3. Kljajić, M., Anđelković, A., Mujan, I.: Assessment of relevance of different effects in energy infrastructure revitalization in non-residential buildings, Energy and Buildings (Elsevier), 2016, Vol. 116, pages 684-693
4. Anđelković, A., Mujan, I., Dakić, S.: Experimental validation of a EnergyPlus model: Aplication of a multi-storey naturally ventilated double skin facade, Energy and Buildings (Elsevier), 2016, Vol. 118, pages 27-36