


Event:
Date:
Place:

ENERGY in TRANSPORTATION 2018

Saturday November 3, 2018

Athens, Hellas



#	<p>Prof.Dr.Essam E.Khalil Professor of Energy, PhD, PE, ASHRAE Fellow, ASME Fellow and AIAA Fellow ASHRAE Director At Large</p>	
Title:	Professor of Energy, Cairo University, Cairo, Egypt	
email:	Khalile1@asme.org	•
Presentation title:	<p>Analyses of Thermal Comfort and Air Flow Patterns in Cruise Ships and Passenger Trains</p>	
<p>To reach the required thermal comfort in addition to the safety environment and conditions for the travelers. Should study many researches to reach the best thermal comfort case to can avoid any possibility of the occurrence or the spread of an infection inside the naval ships and trains cabins such that this diseases occur due to the near distance between the passengers' bodies with each other in addition to the long distances of the travelling such as the SARS, Coronavirus and other diseases can form. The present numerical investigation was done by using ANSYS FLUENT 15 CFD (Computational Fluid Dynamics) package. Techniques species transport as well as RNG k-epsilon model equations for turbulence model. Mesh sizes used in the present study were about 7,000,000 mesh volumes and 1,000 iterations for each case. In this paper, CFD simulation, indicate the effect of the thermal comfortable through fixating the location of air inlet at the ceiling and variation the locations of air outlets inside the train cabin to reach the best result of the thermal comfort.</p>		

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CV:

B.S. (1971) and MS. (1973) Mechanical Engineering, Cairo University, and DIC (1976) and PhD (1977) from Imperial College of Science and Technology, London University, UK. Currently Professor of Mechanical Engineering, Cairo University since June 1988. Over 47 years of experience in design and simulation of combustion chambers for terrestrial and aerospace applications. Published 13 books in English and over 900 papers in journals and conference proceedings on combustion, energy and indoor air quality control. Developed and delivered advanced courses in heat transfer, gas turbine combustion and terrestrial energy.

Fellow ASME, Fellow ASHRAE, and Fellow AIAA,
ASME George Westinghouse Gold Award recipient 2009.
ASME Harry Potter Gold Award recipient, 2012.
ASHRAE, Exceptional Services Award, 2017
Director at Large ASHRAE, USA

Prof.Khalil is convener of ISO TC205 WG2: Design of Energy Efficient Built Environment.
Convener of ISO TC163 WG4 Holistic approach to Energy Performance of Buildings.
Member of CEN TC371 WG1.
Chair of Egyptian and Arab HVAC Code Committee
Chair of Egyptian Ventilation Code Committee
Chairman of Egyptian Indoor Air Quality Code Committee.
Member of Egyptian Smart Cities Code Committee