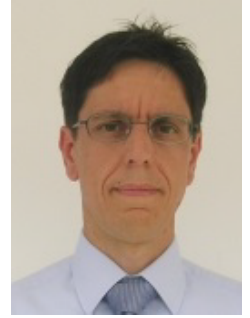


Title Heat transfer enhancement during condensation in filmwise and dropwise mode
Experiments and numerical modeling

Speaker Prof. Davide Del Col
Associate Professor, University of Padova
Italy



Date & Time Friday, March 9, 2018 4:00 p.m.
Place I2CNER hall, I2CNER Bldg.1, Ito campus, Kyushu University

Abstract

Enhancement of the heat transfer during phase change from vapor to liquid has been intensively studied in the recent years. Condensing inside micro and minichannels is a way to achieve high heat transfer coefficients and at the same time address other important targets such as miniaturization and charge reduction. With some fluids it is also possible to further enhance this heat transfer by promoting condensation in the form of drops and avoid film formation. In this seminar some results obtained at University of Padova from the experimental investigation and the numerical modeling are presented.

About the Speaker

Prof. Davide Del Col took his PhD on Energy Engineering at the University of Padova in 1999. He was visiting scholar at Pennsylvania State University, USA.

Member and Secretary of Commission B1 (Thermodynamics & transfer processes), IIR, Paris; Secretary of UIT (Italian Union of Thermal-Fluidynamics) and member of the Steering Committee of UIT; Associate of INFN (Istituto Nazionale di Fisica Nucleare) in the framework of the Program ALICE (A Large Ion Collider Experiment) for the project on sensor cooling at CERN, Geneva. Member of Committee K-13 (Multiphase Heat Transfer), ASME.

Scientific coordinator of the international ESA project on Condensation in microgravity (16 partners from Europe and Canada). Leader of the Research group on Sustainable Thermal Energy Technologies at the Department of Industrial Engineering of University of Padova; Responsible of the Laboratory of Two-Phase Heat Transfer and the Laboratory of Solar Energy Conversion.

He has authored more than 200 scientific publications, with 115 documents cited in Scopus.

Host: Professor Yasuyuki Takata

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