
ANUNCIO DE SEMINARIO

Selected CFD activities at the Institute of Thermal Technology, Silesian University of Technology, Poland

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Lugar de realización: Aula CIMEC

Fecha y hora: miércoles 03 de julio de 2019, 10:30 hs.

The talk will be composed of four parts.

The first presentation will be devoted to general presentation of Poland, Gliwice, SUT structure, Institute of Thermal Technology structure and research activities. Then my Ph.D. and D.Sc. activities will be briefly discussed.

In the second part, non-adiabatic equilibrium CFD model for two-phase ejector design for CO₂ refrigeration system will be presented as one of the activities of the *ejectorPL* group. In this presentation, CO₂ as a refrigerant, latest refrigeration systems in supermarkets, ejector technology in refrigeration systems, mathematical model, computational procedure and experiments for the ejector with non-adiabatic walls will be given.

The third part will include numerical modelling of coupled thermal, flow and electromagnetic problems in electric switchgear. In this presentation, numerical modelling, experimental test, model validation and passive cooling enhancements of the industrial and laboratory switchgear will be shown.

In the last part of the presentation, the BIOTRAFO project progress and plans will be discussed.