Numerical simulation applied to a thermal industrial case

March 16th & 17th, 2017, Hà Nôi, USTH

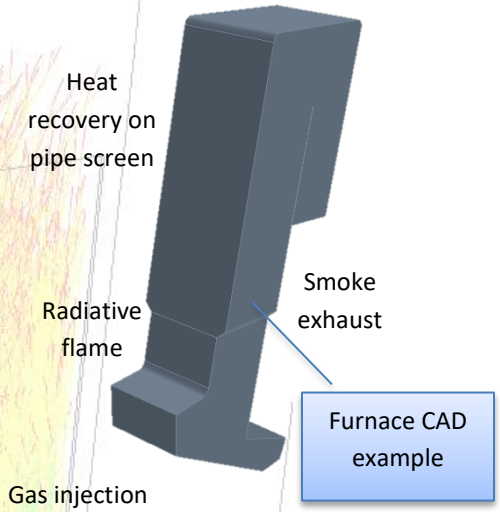
Dr.Jean-Michel HUGO, TEMISTh SAS- Thermal system designer, France.

Presentation

The goal of this training is to present **numerical simulation tools of heat and mass transfer** applied to an industrial process. A furnace plant case will studied and model using StarCCM+, a CD-Adapco software.

The main part of the training will focus on obtaining temperature field, residence time and volume fraction of chemical component in the furnace of a power plant.

This training is dedicated to student (bachelor, master and Ph.D) and professors and engineers in energy industry.



Certificate delivered by USTH and TEMISTh

Program

- Introduction to **biomass, coal and waste furnace for power plant**.
- Theoretical introduction to thermal system modeling.
- Presentation of the **numerical tool**
- Physical model determination and assumption to simplify the calculation.
- Boundaries conditions
- **Meshing** and time computation optimization.
- **Reactive flow simulation** in a furnace taking into account turbulent flow, heat transfer (radiation and convection) and combustion.
- **3D temperature field** and residence time analysis.
- Applying simulation to other processes
- Participants will propose their process to model.

Practical information

Fees (before March 14th):

- USTH Staff : FREE (limited to 10 participants)
- Other participant : 3.000 kVND per person

Limited to 20 participants

PC and software are provided

Venue

The training session will be held on March, 16th and 17th, 2017

USTH - University of Science and Technology of Hanoi, 18 Hoang Quoc Viet, Cau Giay, Hanoi

Room 604 – 9h00-12h00 & 13h30-16h30

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