Universität Stuttgart
Institut für Chemische Verfahrenstechnik

Lecture Announcement:

Industrial Application of Computational Fluid Dynamics

**Tuesdays
08:30 – 13:30
Room 4.014
Böblinger Str. 78**

Syllabus:

➢ What is CFD? Why use CFD?
➢ CFD Analysis Process
➢ Equations of Fluid Mechanics
➢ Turbulent Flows – DNS, LES, RANS
➢ Multiphase Flows
➢ Using a Commercial Software – ANSYS FLUENT

  ➢ Prerequisites
  ➢ Problem Description
  ➢ Creating and Meshing the Geometry
  ➢ Setup CFD Simulation and Domain
  ➢ Setup Physics
  ➢ Solvers
  ➢ Post-Processing

**Lecturer:
Dr. Mostafa S. Shadloo (INSA Rouen)**

➢ Associate Professor at National Institute of Applied Science (INSA) Rouen, France (since 2015)
➢ Fields of Interest: Hydrodynamics, Turbulence, Multi-phase, Multi-physics Fluid Flows and Heat Transfer

Scheduled Lecture Sessions:

- 29.10.2019 08:30 – 13:30
- 05.11.2019 08:30 – 13:30
- 12.11.2019 08:30 – 13:30
- 19.11.2019 08:30 – 13:30
- 26.11.2019 08:30 – 13:30
- 03.12.2019 08:30 – 13:30

The lecture is primarily aimed at students in the M.Sc. Process Engineering curriculum and similar, as well as PhD students

Full details on ECTS / curriculum crediting to follow!

**Further Information:
Mostafa S. Shadloo (mostafa.safdari-shadloo@insa-rouen.fr)
and on www.icvt.uni-stuttgart.de**

icvt
Institut für Chemische Verfahrenstechnik