

11 April 2016



SG2224
Applied CFD

Today

- Information about the projects
- Grid generation
- Info



Project

- Groups and choice of project
 - Today: Form groups of 3 students
 - Today : Presentation of projects – group chose 3 projects
 - If you have your own project – fill in same form + talk with me
 - One week: I have distributed the projects on the groups



Group 1	
Name 1 + e-mail	
Name 2 + e-mail	
Name 3 + e-mail	
Name 4 + e-mail	
Project choice Alt 1:	
Project choice Alt 2:	
Project choice Alt 3:	

Project



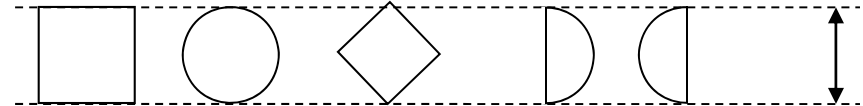
- Starting
 - After Fluent tutorial and individual task
 - Contact your project leader
 - Appointment or bilda/e-mail instructions
 - Use bilda group discussion forum
- Aim with the project
 - Problem definition, modelling level and approximations
 - CFD analysis: Meshing, computation, analyze
 - Quality: Refined analysis, parameter study, et.c.
- Peer reviewing
 - Each person get one group to review
 - Write a short review report based on presentation and report
 - max half page – further instructions will come

Fluent tutorial



- Booked yourself:
 - 13/4 08-16: Merry & Pippin, 32 student
 - 14/4 08-16: Pippin, 21 student
- Tutorial
 - Info about tutorials later today
 - Start looking at tutorial in advance

Individual task



- Objective
 - Drag coefficient for a 2D object
- Aim with the individual task
 - Understand the process (geometry-grid-solution)
 - Understand the tools
 - Detailed step-by-step instruction available on web
 - Basis for the project work
- Time plan
 - Before 13/14 April: Try to do the task based on the detailed instruction
 - Before 18 April: Complete the task – upload results, feedback 20 April
- Upload
 - On bilda, discussion forum: 001 - Individual Task



PDC



- Why using PDC resources?
 - Most groups only use desktop/laptop – sufficient
 - May need PDC if many large computations are needed
- How?
 - Setup the case on local computer
 - Copy setup to PDC
 - Run Fluent batch on Tegner
 - Copy results back to local computer for plotting
- Apply for PDC:
 - If you need, are interested (have PDC account)
 - Then, apply for PDC usage
- PDC info:
 - 20/5 16:15-17:00 by Cristian Cira, PDC
 - More info will come on course web