

Presentation Ernst Hansen:

Title:

Flow 3D, Overview and Applications

In this presentation the software Flow3D will be presented.

Its numerical solvers, meshing, boundary conditions and general setups will be discussed.

Few examples will be given, including:

- Description of free surface problems
- Waves and floating objects
- General Moving Objects and Non Newtonian Fluids (example from Gann Mekaniske and Deep Marine Anchors)
- Sediment Transport (example of Ormen Lange Sedimentary Basin, Norway)

A general overview of Complex Flow Design AS will be included in the presentation.

Presentation Riccardo Basani:

Title:

Hydraulic applications and Study Case in Flow3D

In this presentation few interesting applications of Flow3D will be discussed.

The cases presented will be:

- Flow Over a Weir. The problem will be setup and run in real time, showing the friendly-user GUI, meshing, boundary conditions and general input file.
- Stramentizzo Artificial Basin, Trento, Italy. Included the utilization of 3D CAD drawings (Stereo-lithography) to describe the geometry of a system.