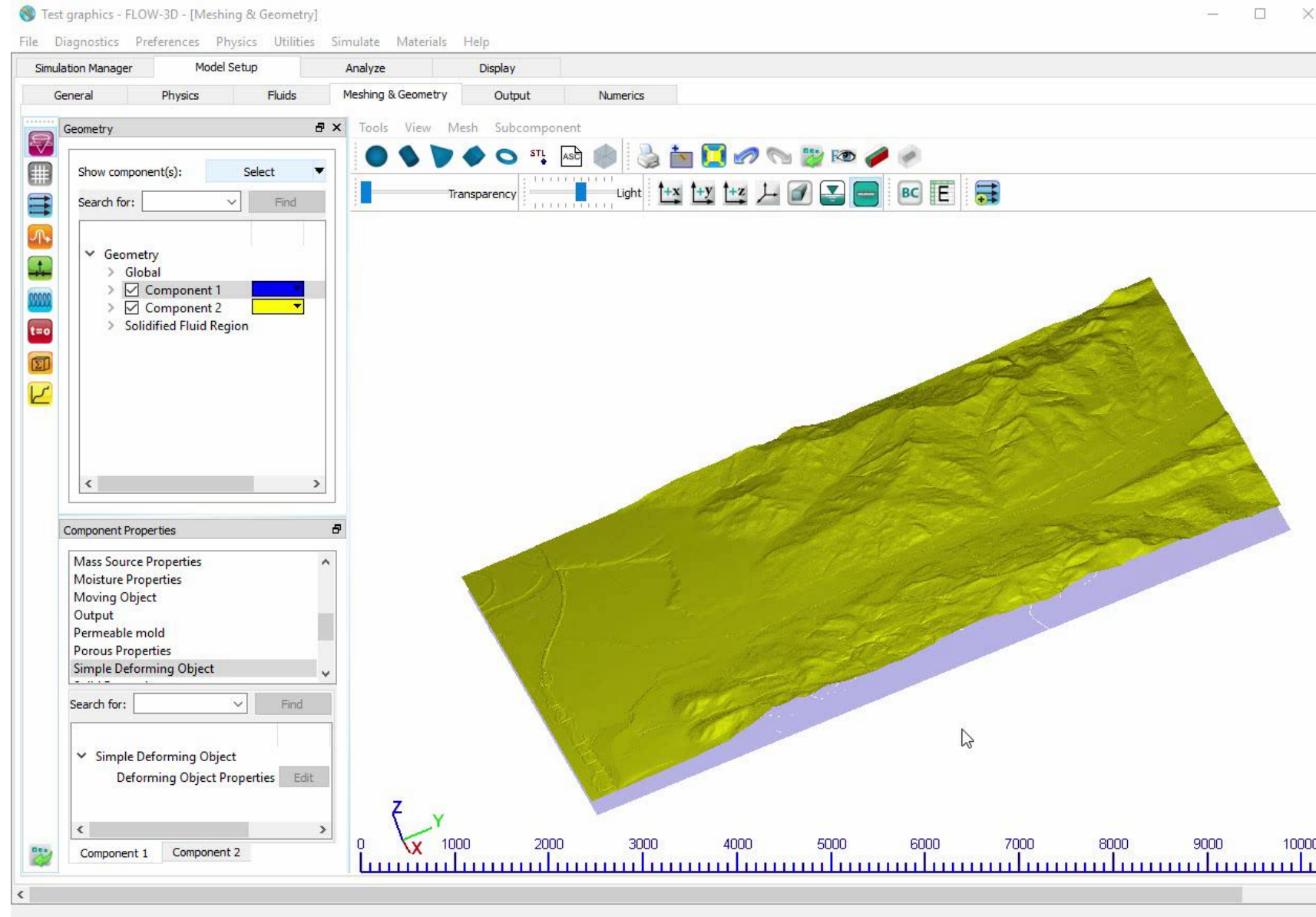


Developments in ***FLOW-3D*** Interfaces

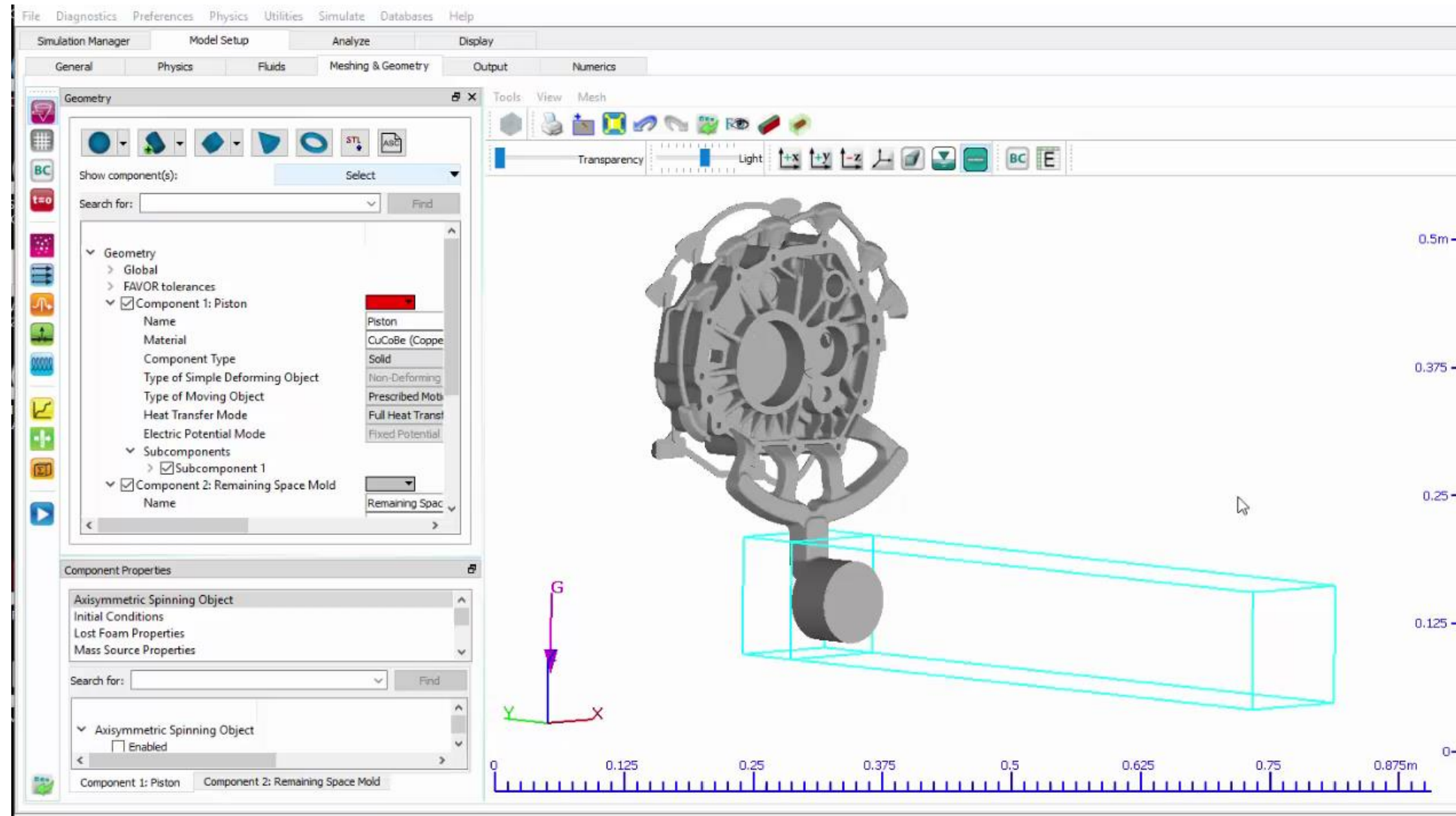
John Ditter

VP of Software Engineering

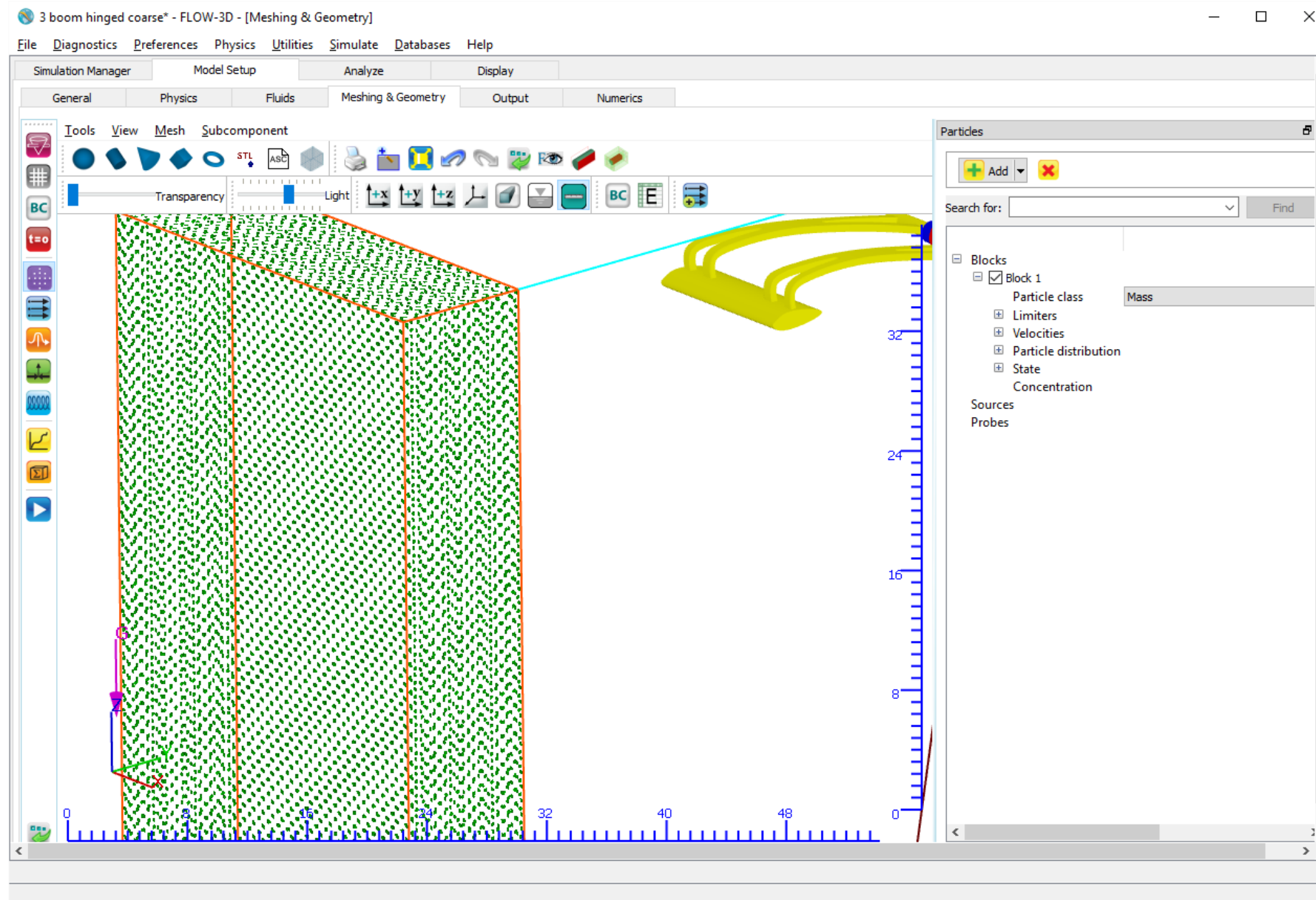
Big Raster Files



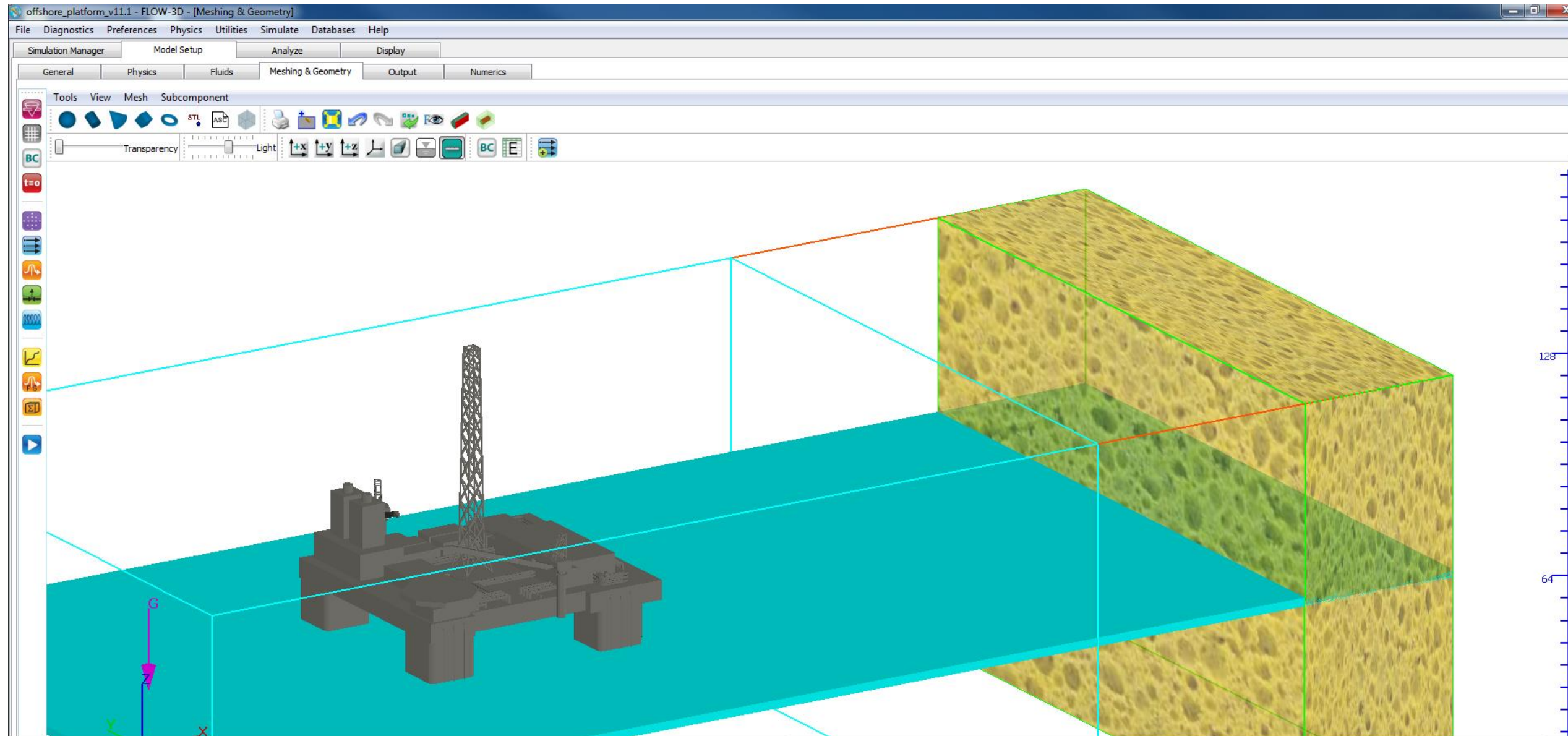
Interactive Geometry Creation



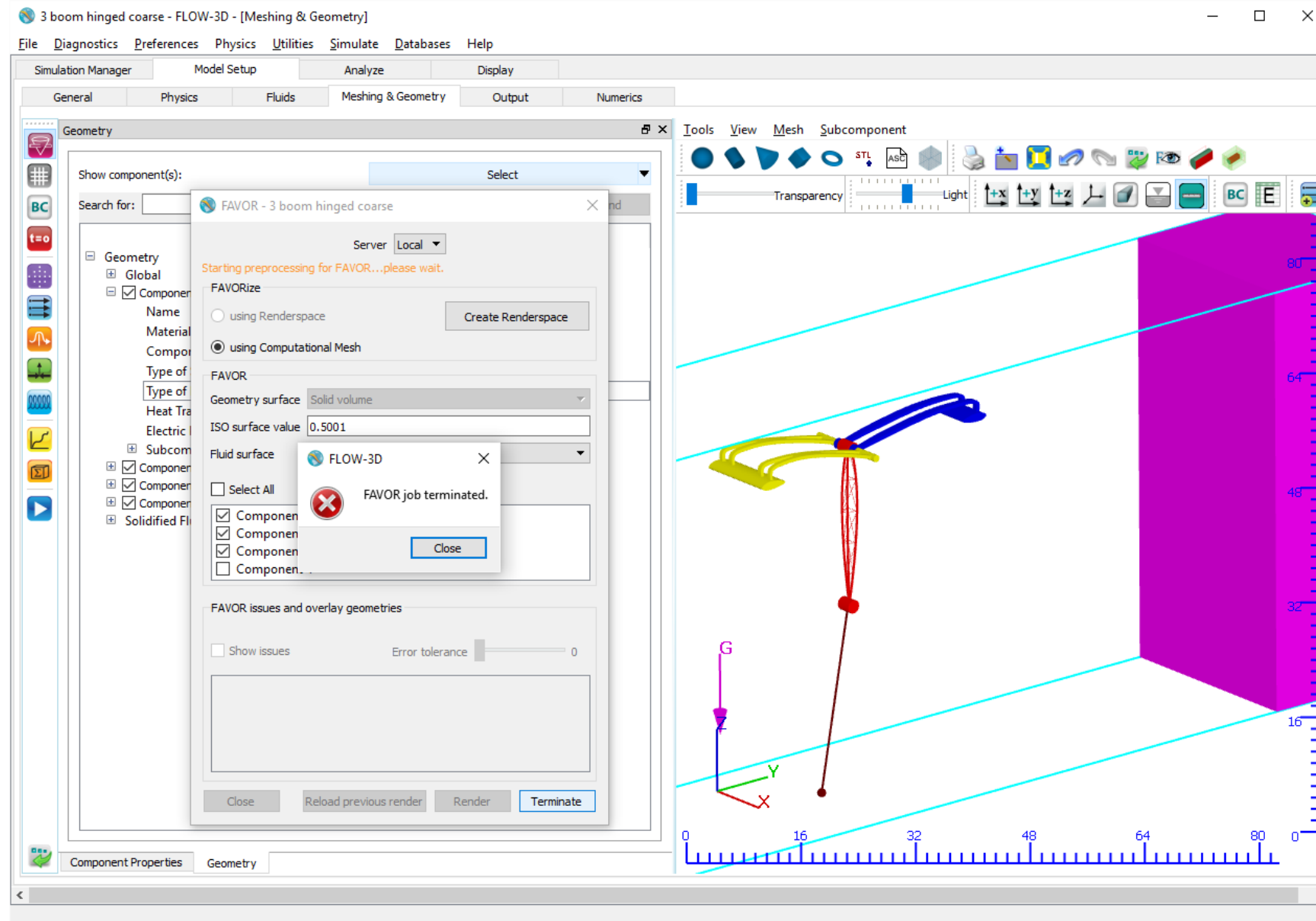
New Particle Input & Display



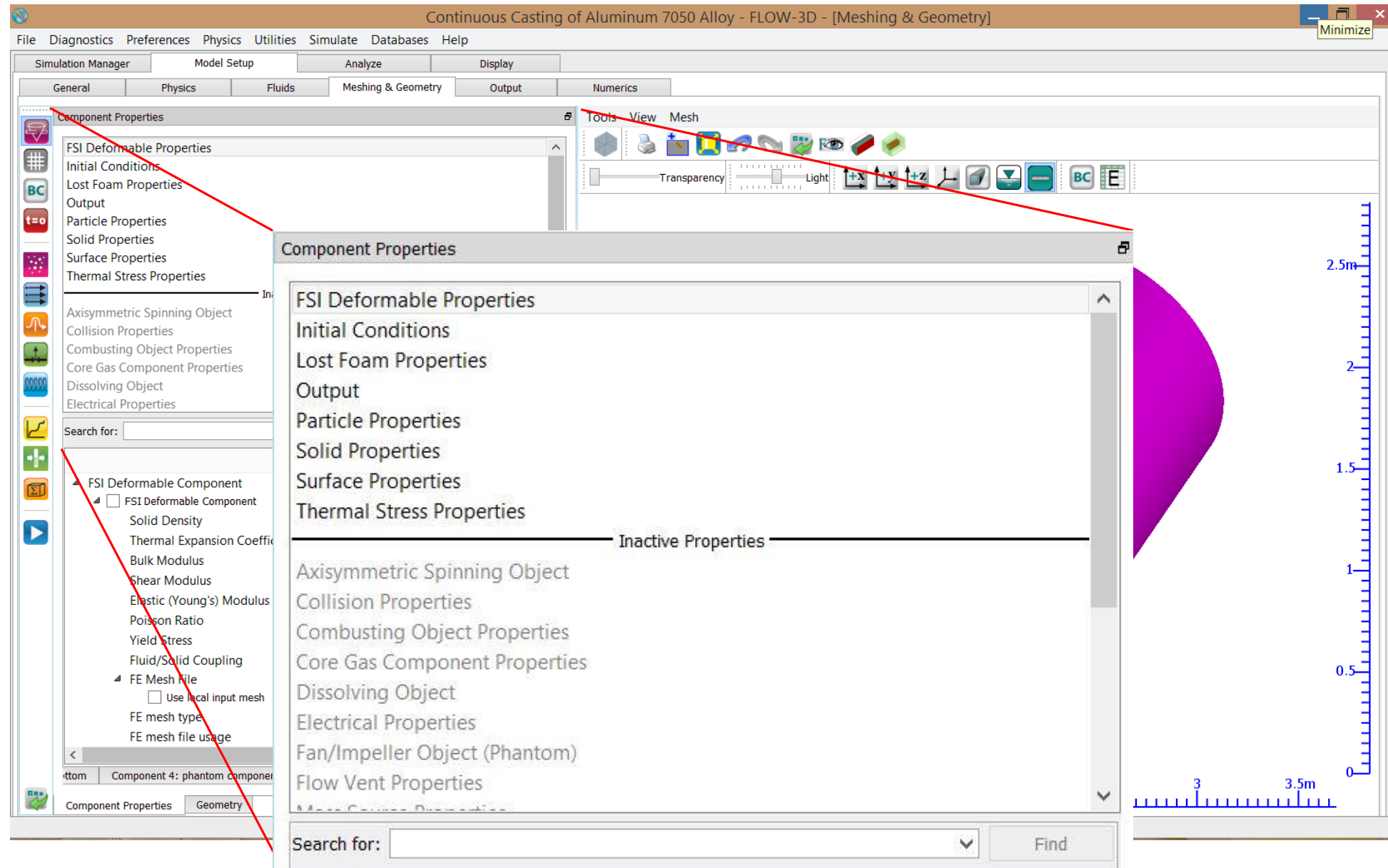
Wave Absorbing Boundary



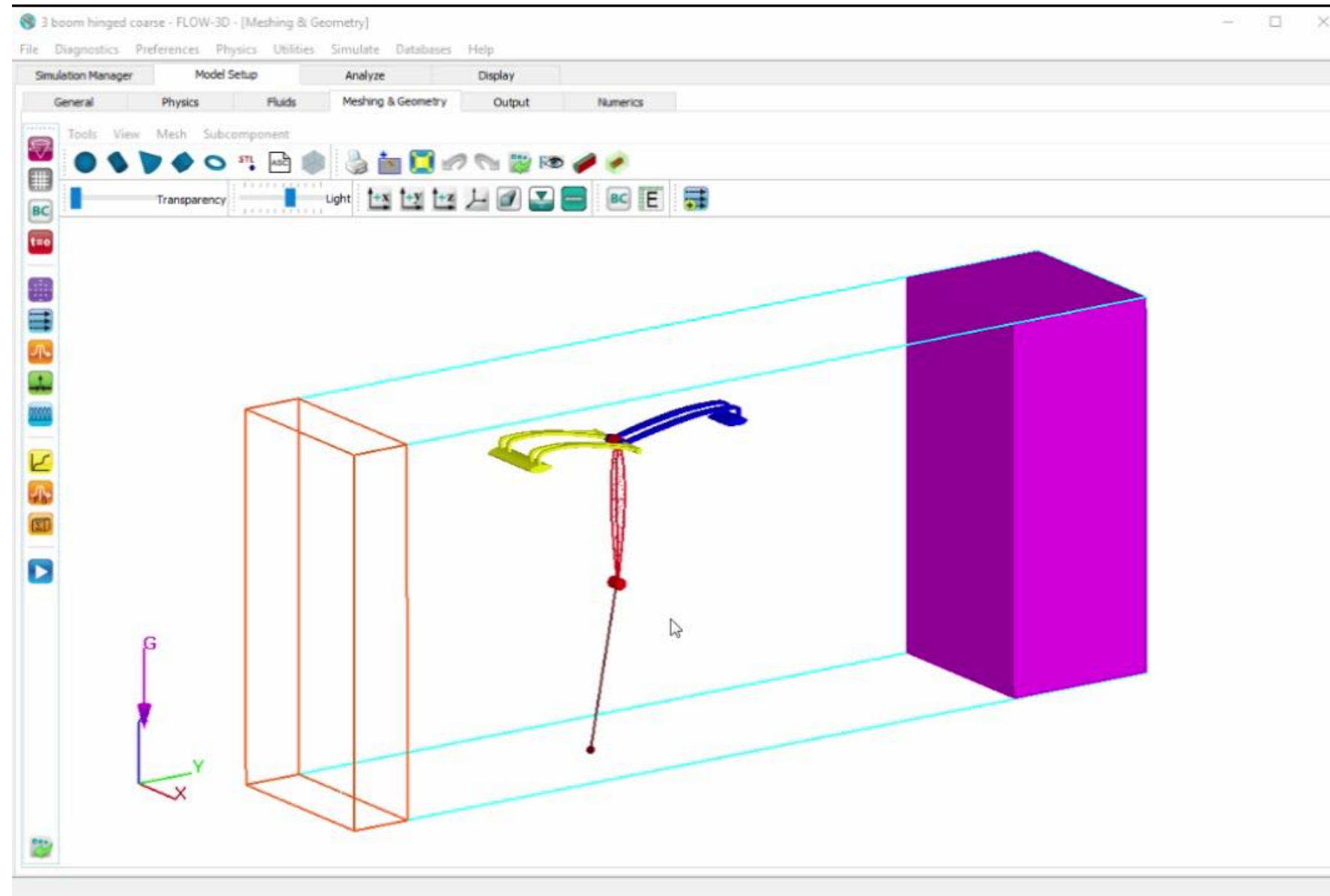
Terminate Function for FAVOR™ and FE Mesh Generation



Active Component Properties



Rulers



And More...

- Units displayed everywhere
- Default list of selected data
- Copy function for boundary conditions
- Eliminated accidental scroll

FlowSight[™]

FlowSight Performance

Restore time of session/context file

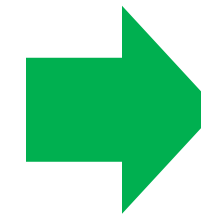
| Number of cells | <i>FLOW-3D</i> v11.1 | <i>FLOW-3D</i> Cast v4.2 | Speed-up |
|-----------------|----------------------|--------------------------|----------|
| 10.6M | 288 sec | 97 sec | 3.0X |
| 17.0M | 430 sec | 230 sec | 1.9X |
| 38.3M | 144 sec | 53 sec | 2.7X |

FlowSight Performance

Loading massive conforming meshes

- 5 blocks
- 110 million cells
- Conforming meshes
- 51 cooling channels

FLOW-3D v11.1
11 mins 45 secs



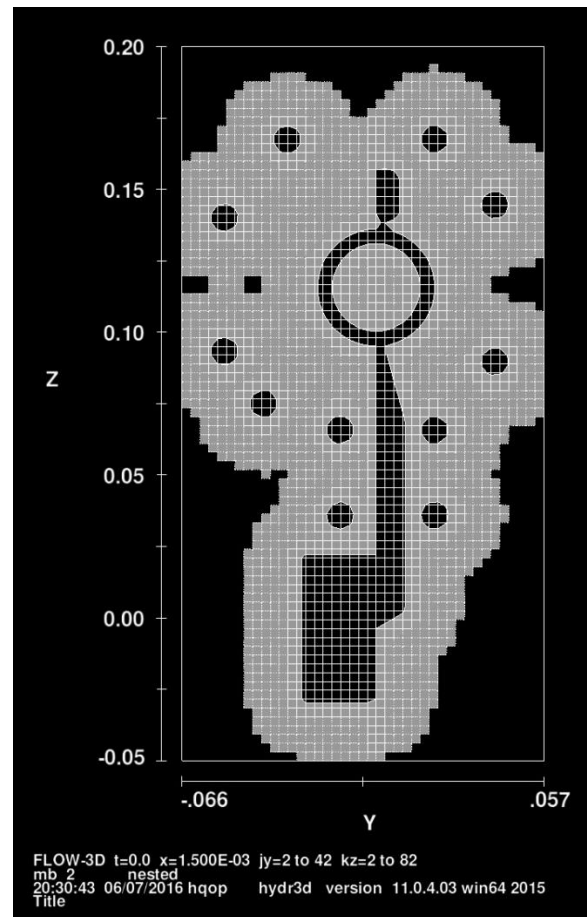
FLOW-3D Cast v4.2
2 mins 15 secs

Test machine:

- 6 cores
- 16 GB RAM
- GeForce GT 640

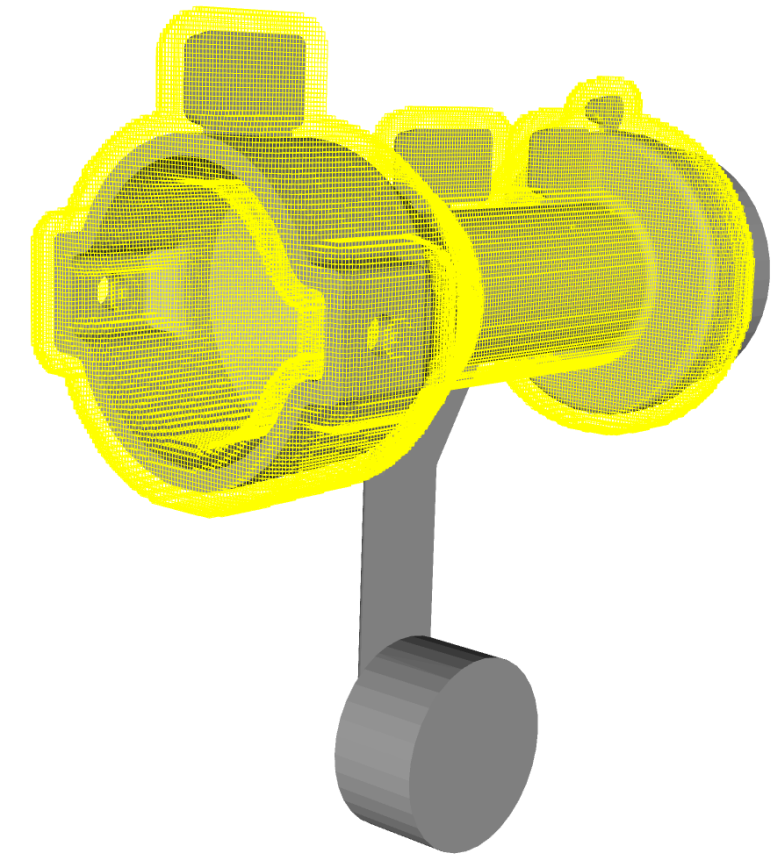
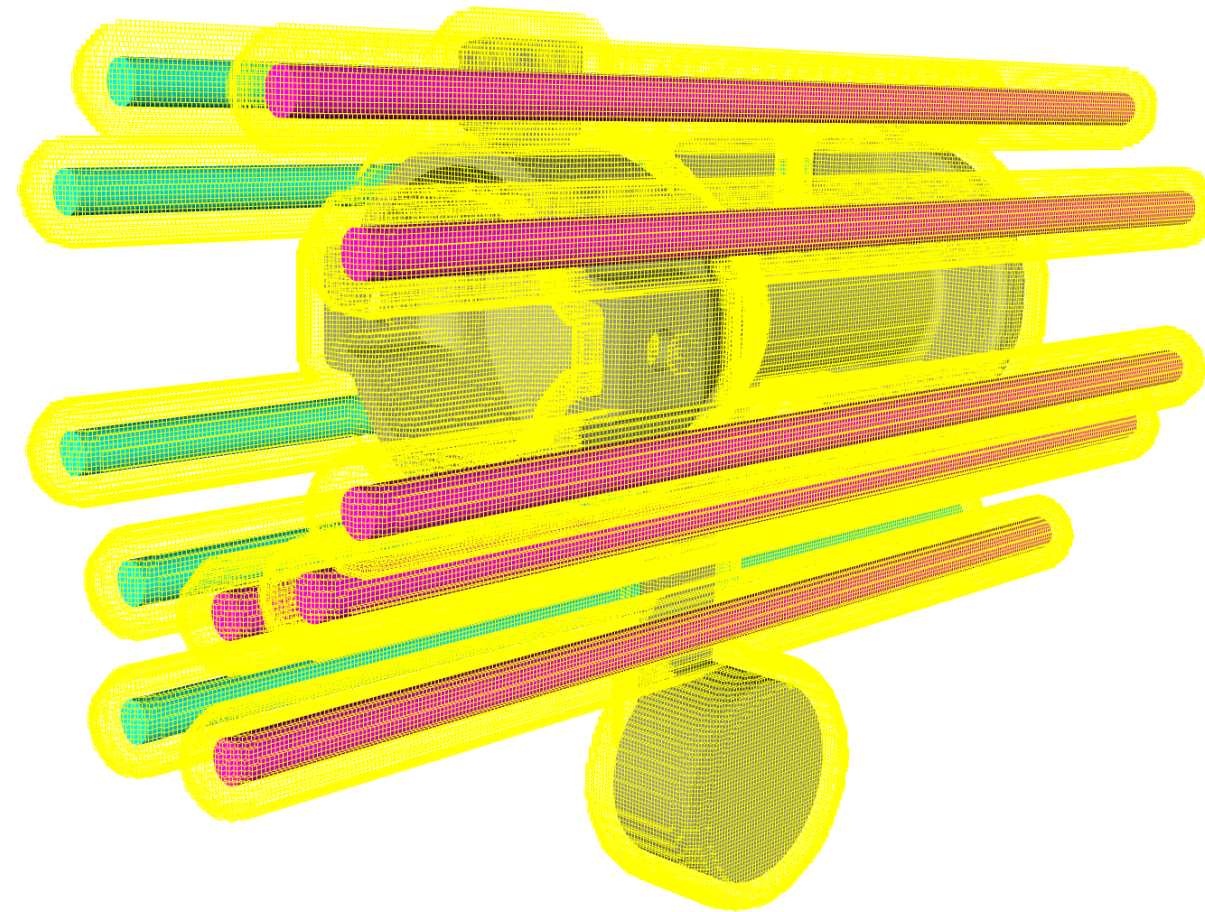
Visualizing Conforming Meshes

FLOW-3D Cast v4.1



FLOW-3D v11.1

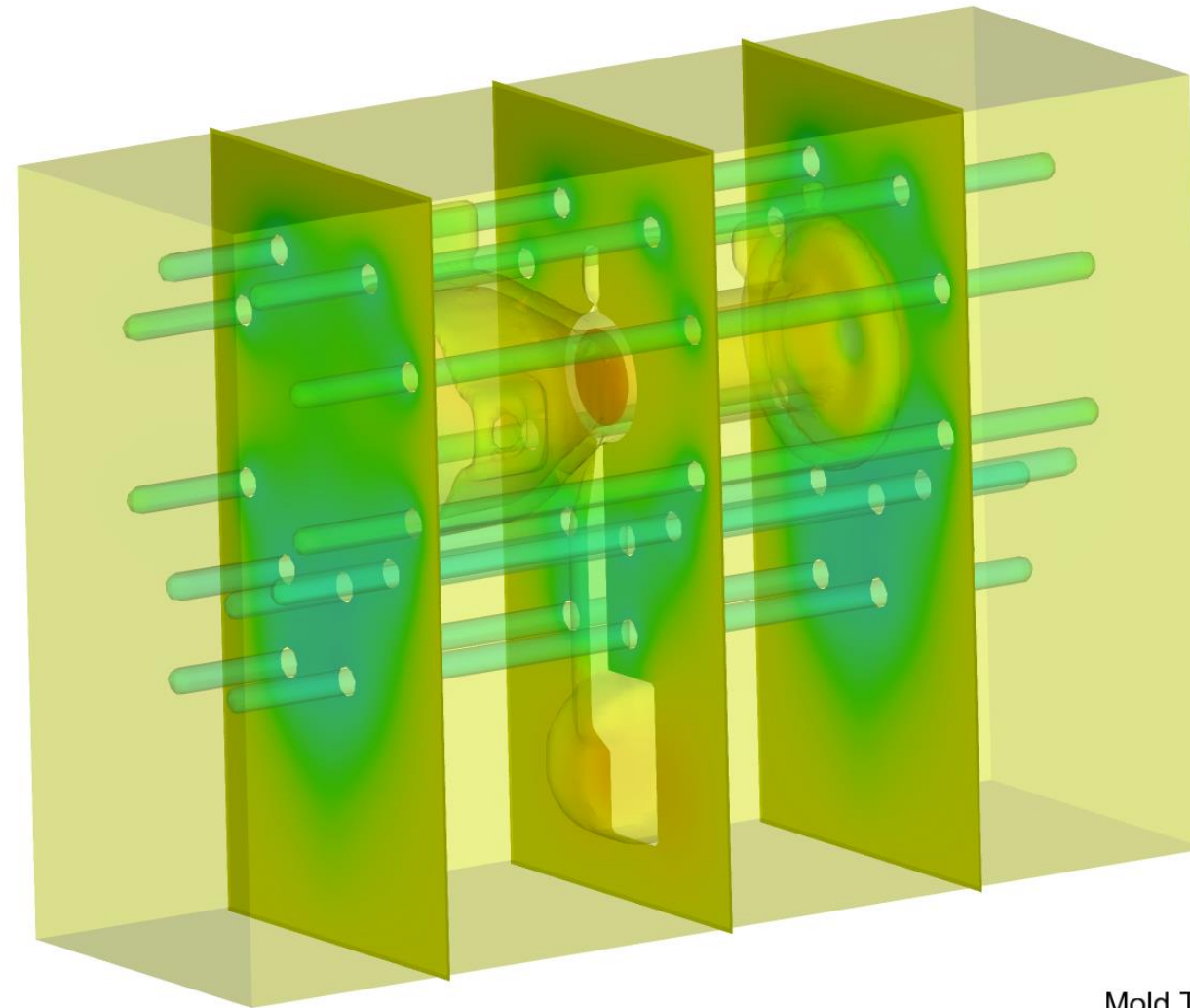
FLOW-3D Cast v4.2



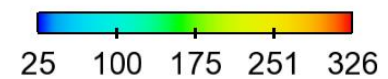
FLOW-3D v11.2

Mesh Visualization on 2D Clips

Time = 220.192

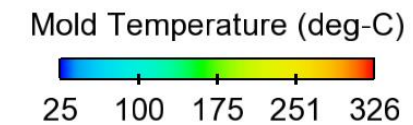
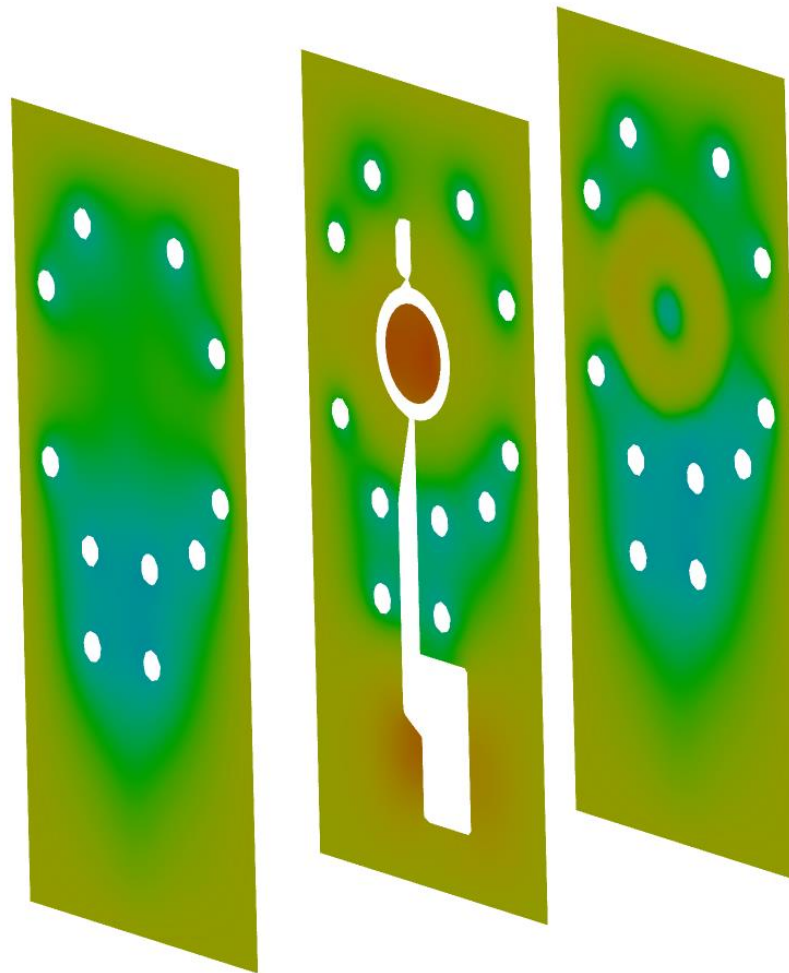
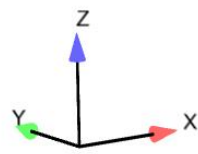


Mold Temperature (deg-C)



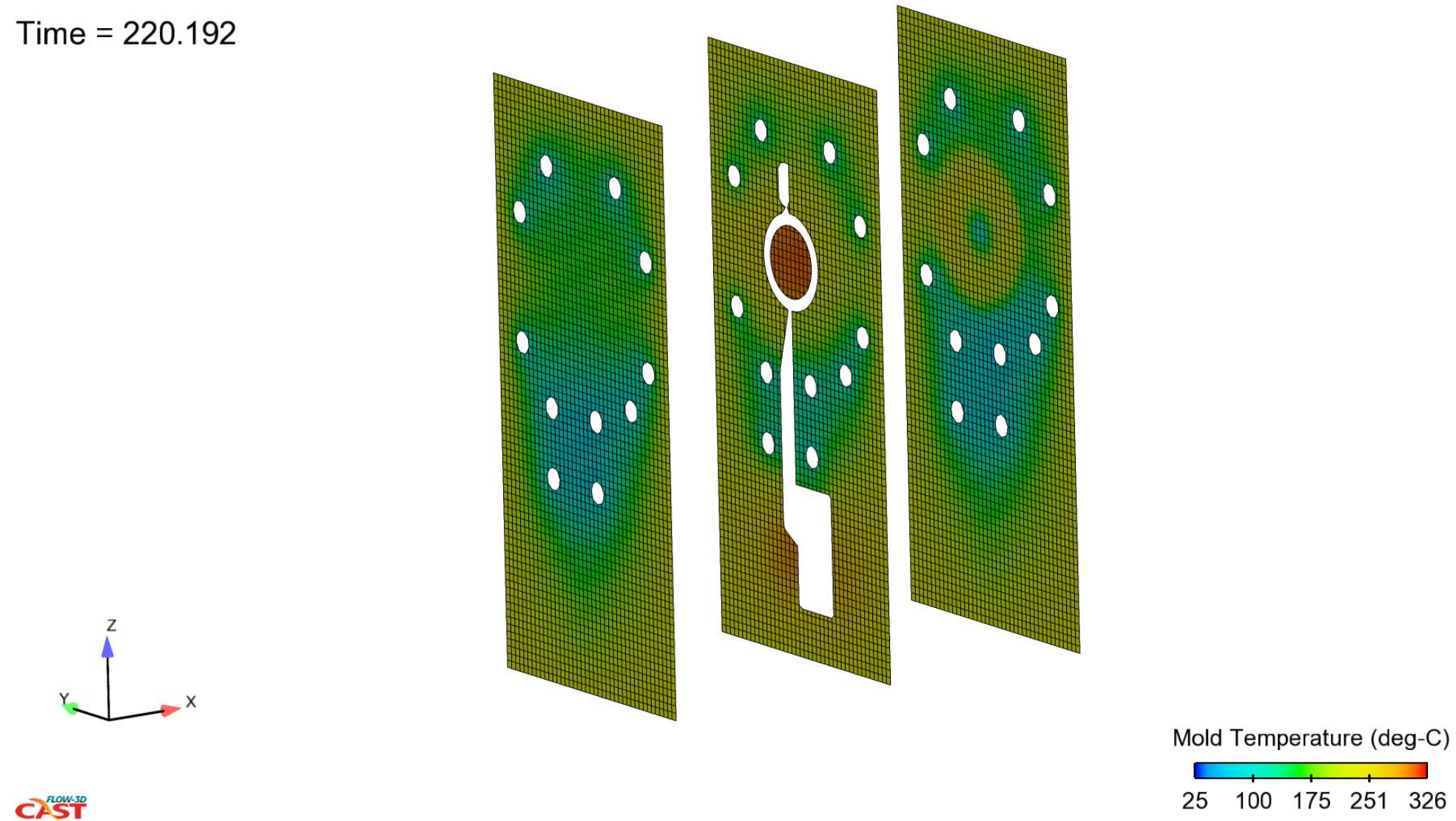
Mesh Visualization on 2D Clips

Time = 220.192



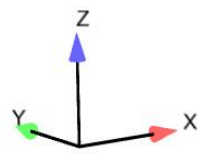
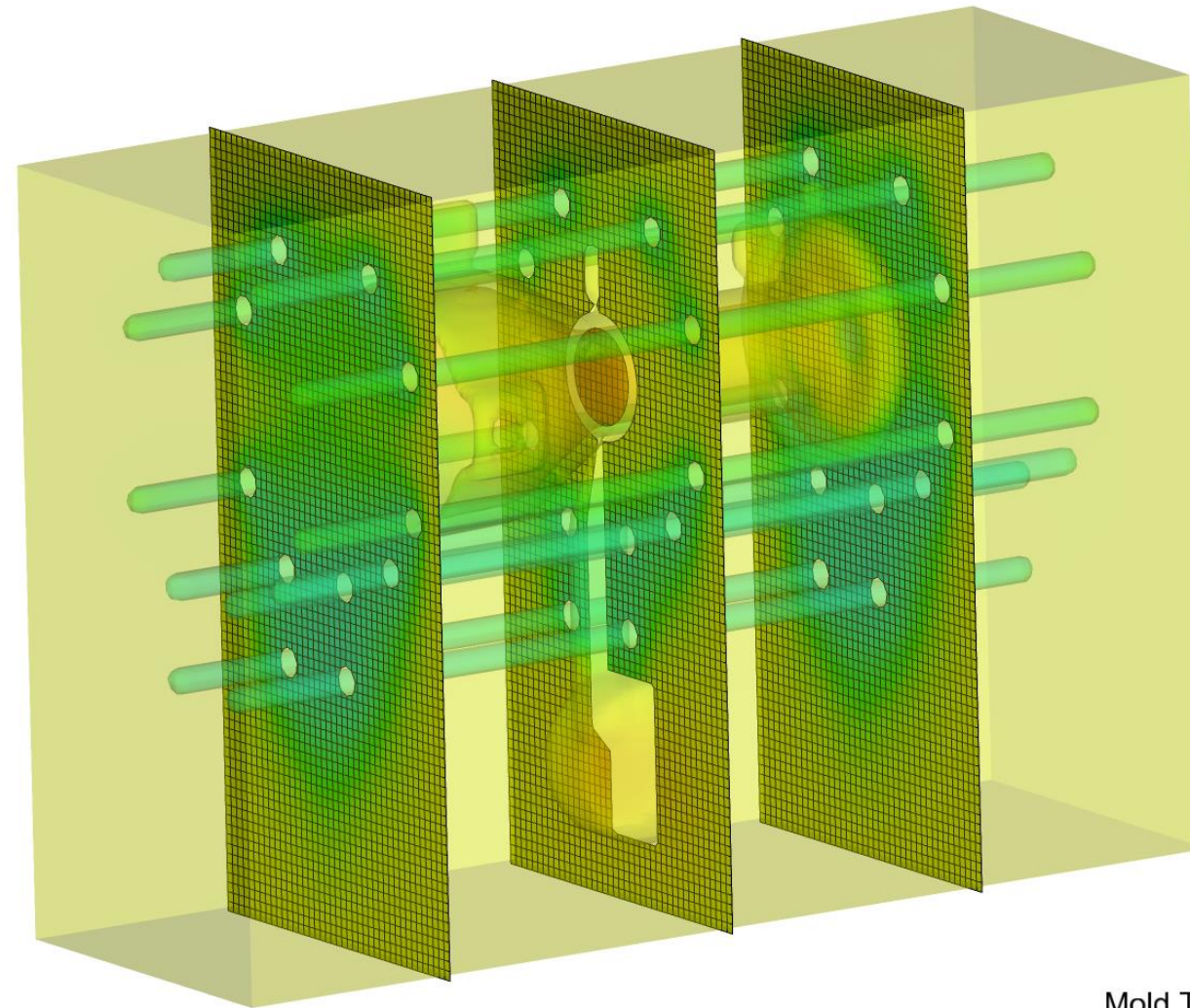
Mesh Visualization on 2D Clips

Time = 220.192

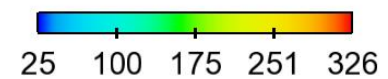


Mesh Visualization on 2D Clips

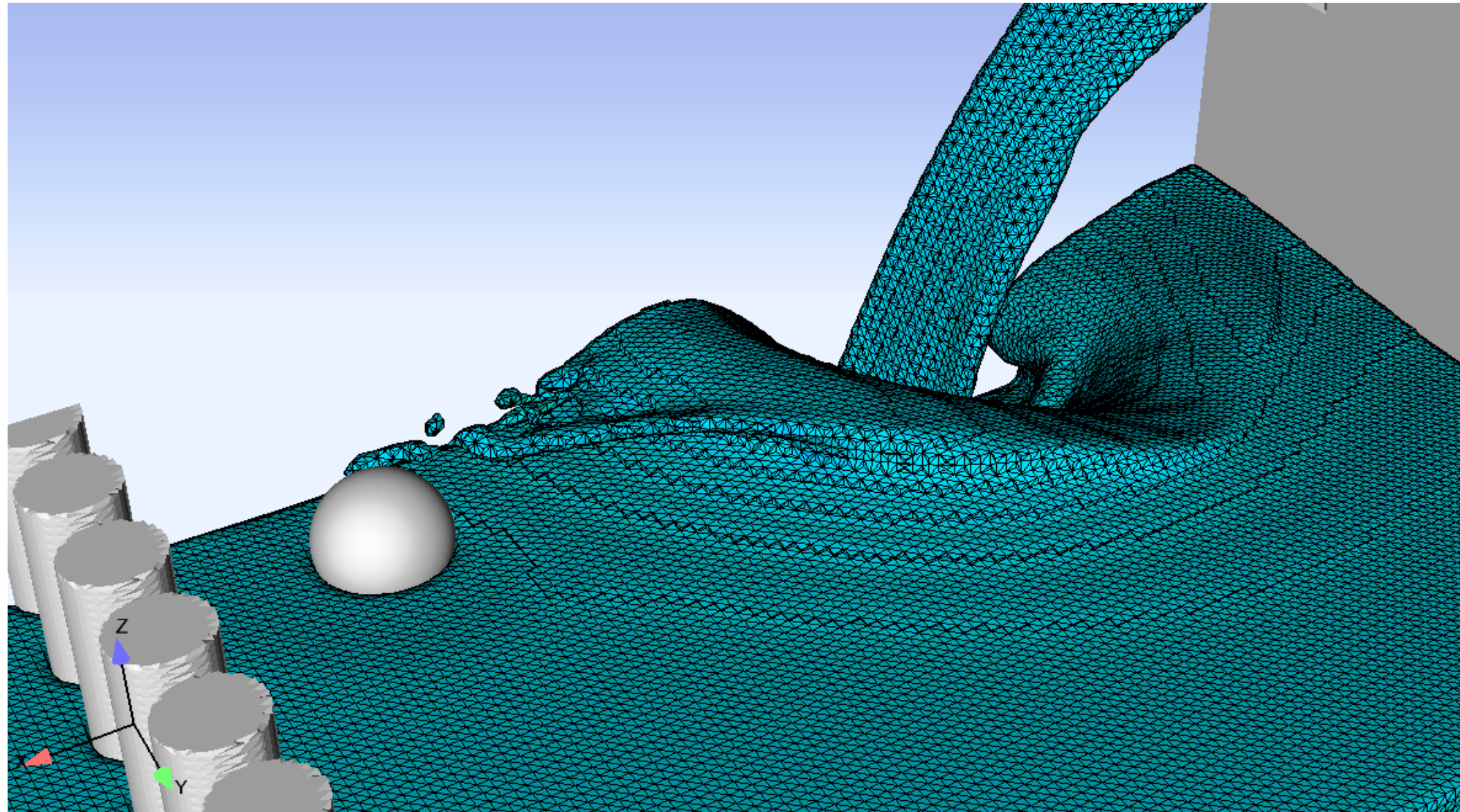
Time = 220.192



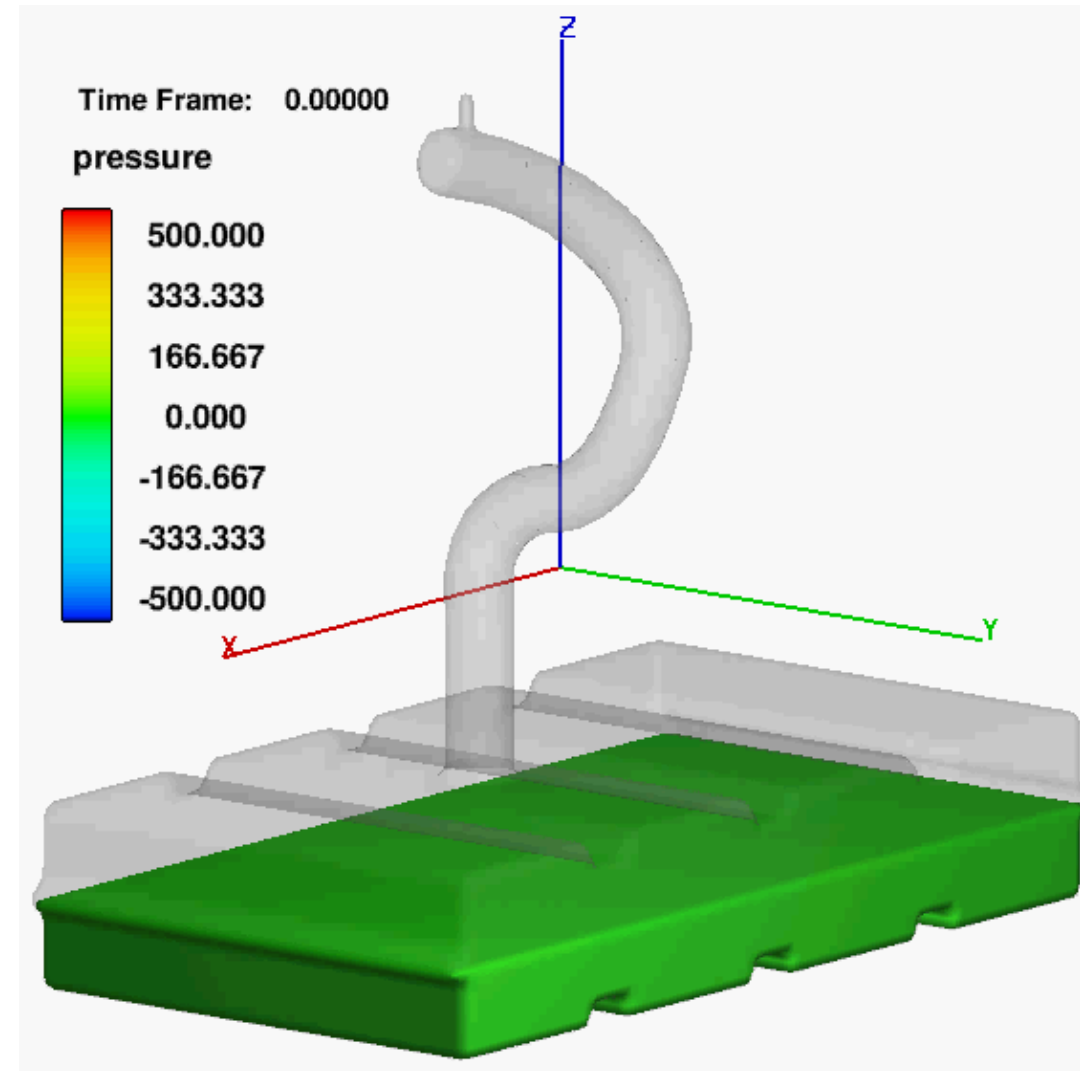
Mold Temperature (deg-C)



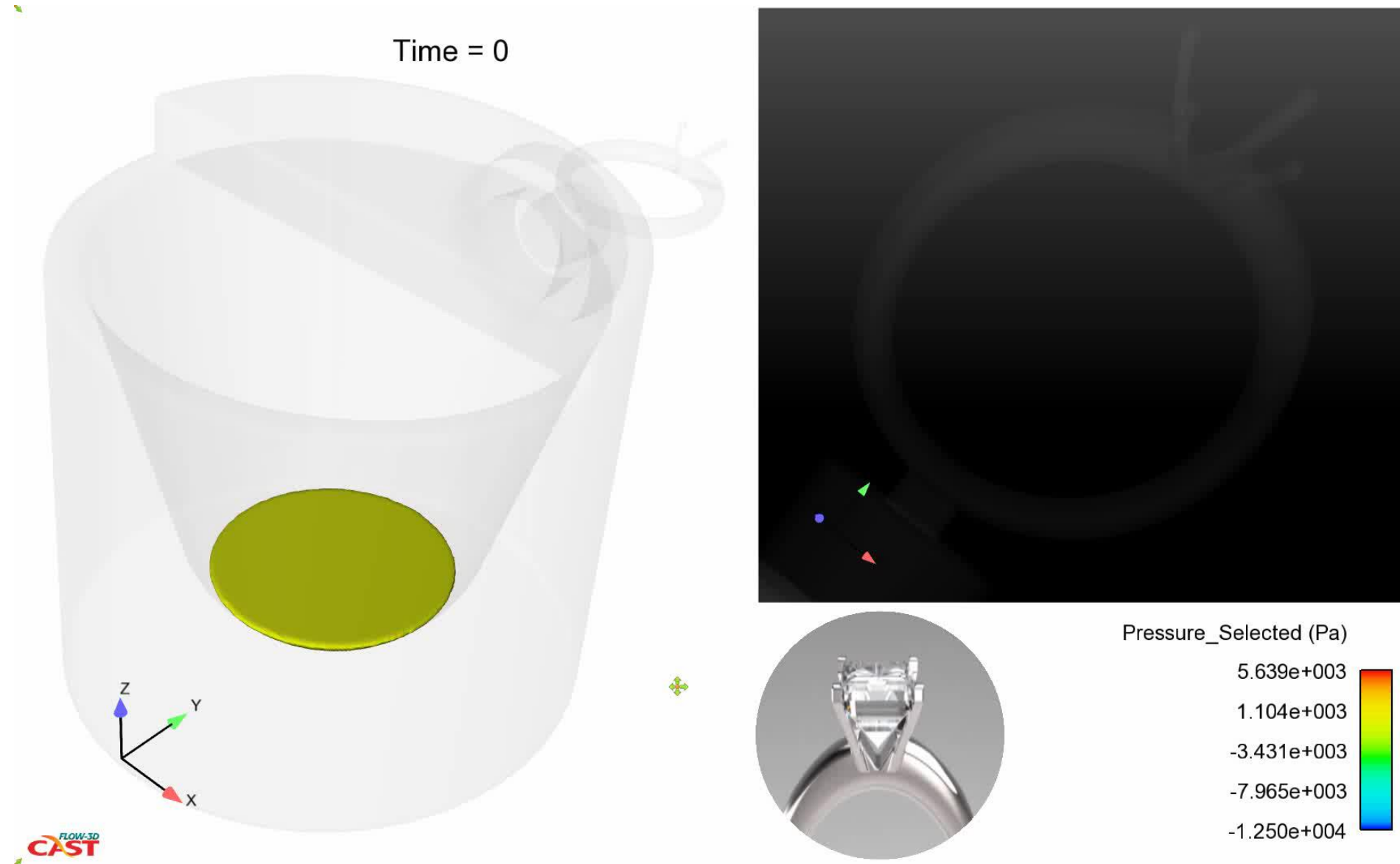
Mesh Visualization on Iso-surfaces



Visualizing Non-inertial Reference Frame Motion

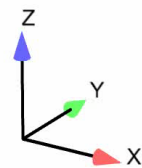
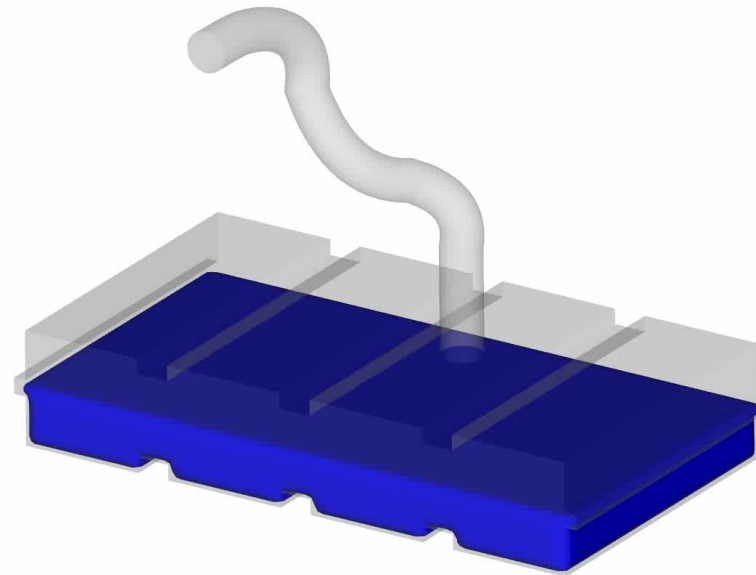


Visualizing Non-inertial Reference Frame Motion



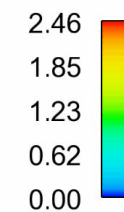
Visualizing Non-inertial Reference Frame Motion

Time = 0.000



FLOW-3D

Velocity Selected (m/s)



Visualizing Non-inertial Reference Frame Motion



Thank you!