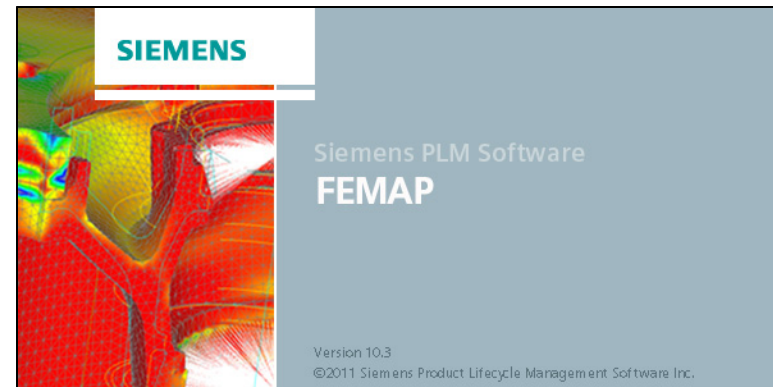
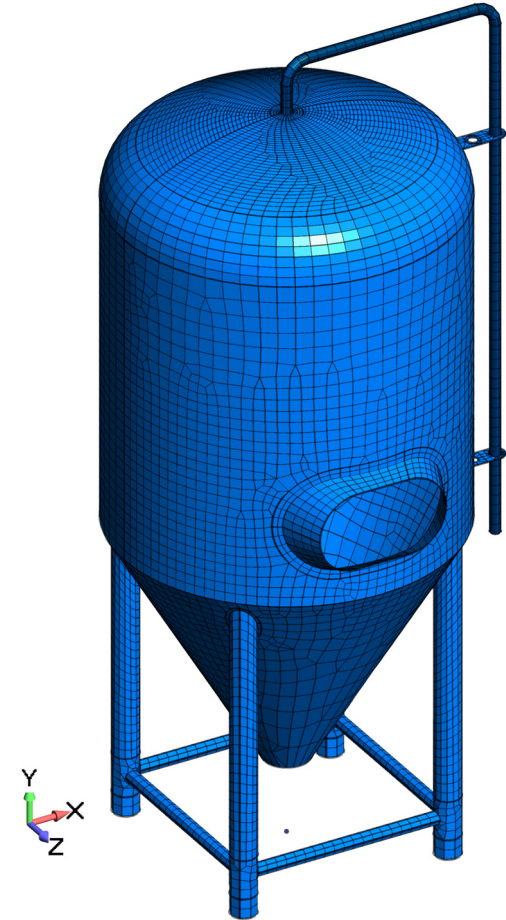
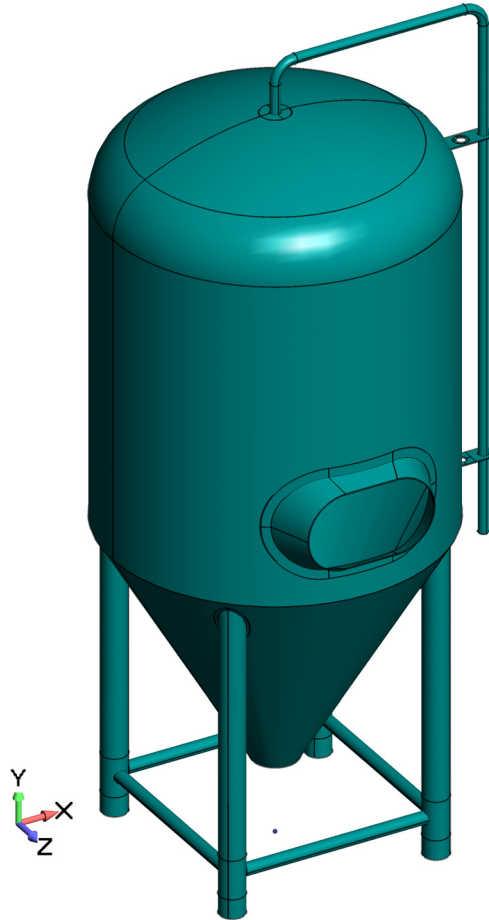
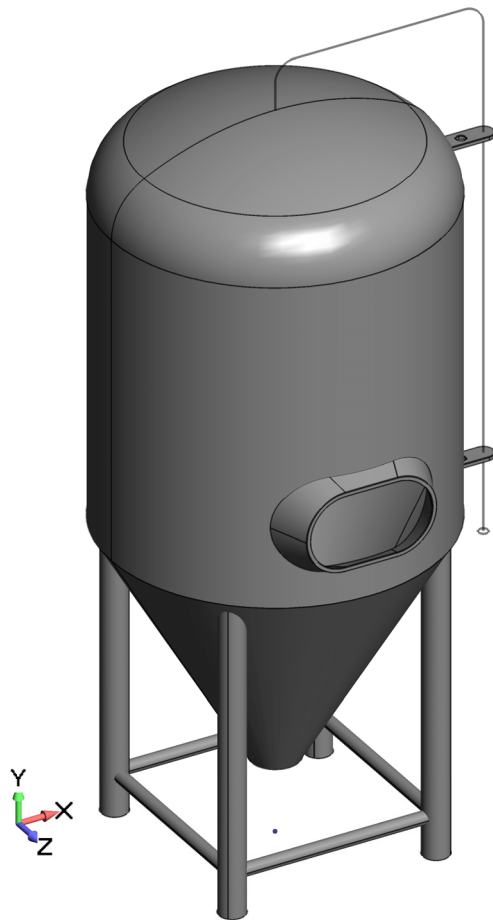


## Seminar Outline

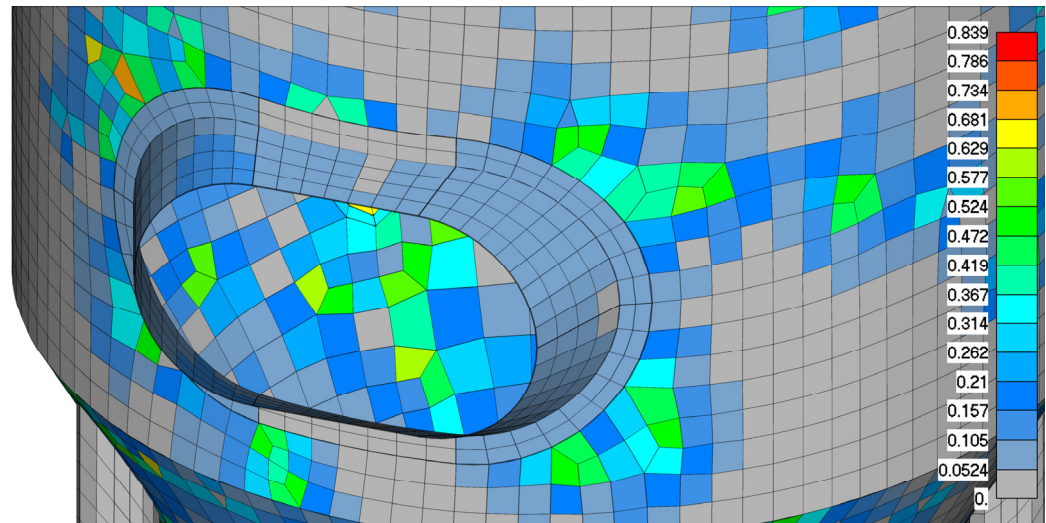
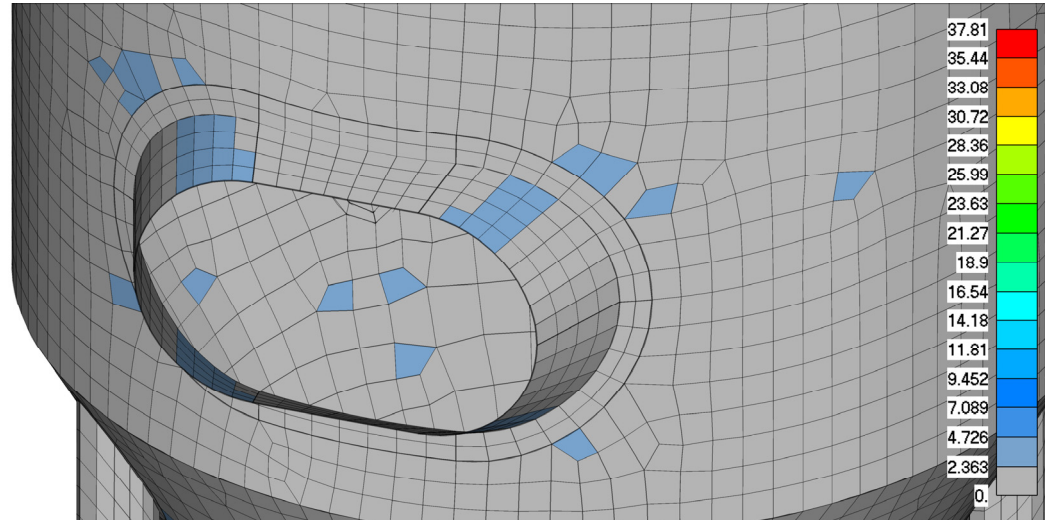
- Surface Modeling with Femap v10.3.1
  - Creating a “Sheet Solid”
    - Automatic Midsurfacing
    - Stitching
    - Non-Manifold Geometry
    - Sweeping Curves into Surfaces
  - Curves-on-Surfaces Toolbar
    - Offset Curves
    - Curve Surface Slice
  - Meshing Toolbox
    - Entity Locator
    - Feature Removal
    - Geometry Editing
    - Combined Curves
    - Boundary Surfaces
    - Mesh Sizing
    - Mesh Surface (Mapped Meshing)





The webinar will cover the workflow from solid CAD geometry to a plate-meshed assembly.

The effects of advanced geometry preparation on mesh quality will be investigated.



## Element and Node Labeling with Femap API

```

API Programming
1 'Written by Adrian Jensen
2 'Predictive Engineering 2012
3 'Predictive Engineering Assumes No Responsibility For Results Obtained From API
4 'Written for FEMAP 10.3.1
5 'This API will create text boxes to label the ID number of selected elements and nodes.
6 'Element ID numbers are displayed within parentheses.
7
8 Sub Main
9 'Attach To the model in a femap session that is already running
10 Dim App As femap.model
11 Set App = feFemap()
12
13 'Create text object
14 Dim feText As Object
15 Set feText = App.feText
16
17 'Create a set for text entities
18 Dim feTextSET As Object
19 Set feTextSET = App.feTextSET
20
21 'Create a node object
22 Dim feNode As Object
23 Set feNode = App.feNode
24
25 'Create a set for nodes
26 Dim feNodeSET As Object
27 Set feNodeSET = App.feNodeSET
28
29 'Create node variables
30 Dim feNodeID As Long
31 Dim feNodeIDa(20) As Long
32 Dim feNodeIDv As Variant
33 feNodeIDv = feNodeIDa
34
35 'Create element object
36 Dim feElem As Object
37 Set feElem = App.feElem
38
39 'Create a set for elements
40 Dim feElemSET As Object
41 Set feElemSET = App.feElemSET
42
43 Dim feElemID As Long
44 Dim feElemX As Double
45 Dim feElemY As Double
46 Dim feElemZ As Double
47
    
```

