DG2 - Lubrication: Fluid Film Bearings: operation, maintenance, troubleshooting

Instructors: James Byrne, Minhui He (BRG Machinery Consulting), Norbert Holscher (RENK), Brian Pettinato (Elliott Group)

Turbomachinery bearings
- Sleeve and tilting pad journal bearings
- Thrust bearings
- Babbitt bearing failures

Bearing upgrades
- Clearances, preload, offset
- Installation
- Oil

Specific questions
- Journal bearing fit – loose? Line on line? Or some crush?
- Discuss API temperature sensor placement:
  - Journal – how many per bearing? Axial locations?
  - Thrust – how many?
- TPJ No. of pads & orientation – LOP or LBP?
- TPJ Pivot design
  - Experience with pivot wear?
  - Experience with Ball & Socket pivots?

Locking issues?
- Alarm and shut down values
- Bearing temperature
- Rotor movement
- Varnish experiences?
- Solutions?
- Oil types – who is using synthetics and why?