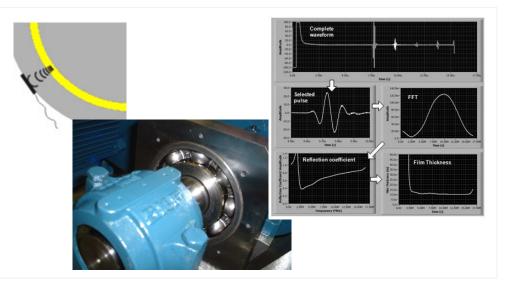
Institution of MECHANICAL ENGINEERS

Bearing Health in Wind Turbines

A Difficult Operating Regime

- Rotor bearings in wind turbines are typically rolling element bearings
- Rotational speeds are low
- Load cycles vary wind direction
- These are undesirable conditions for a rolling element bearing to operate in
- Bearing Failure





Investigation

- Monitoring of fluid films
- Determination of bearing health
- Intervention points

Future Work

Minimisation of metal to metal contact

Poster 13

• Lubrication on demand