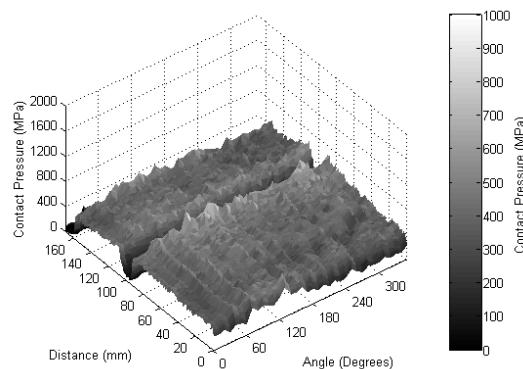
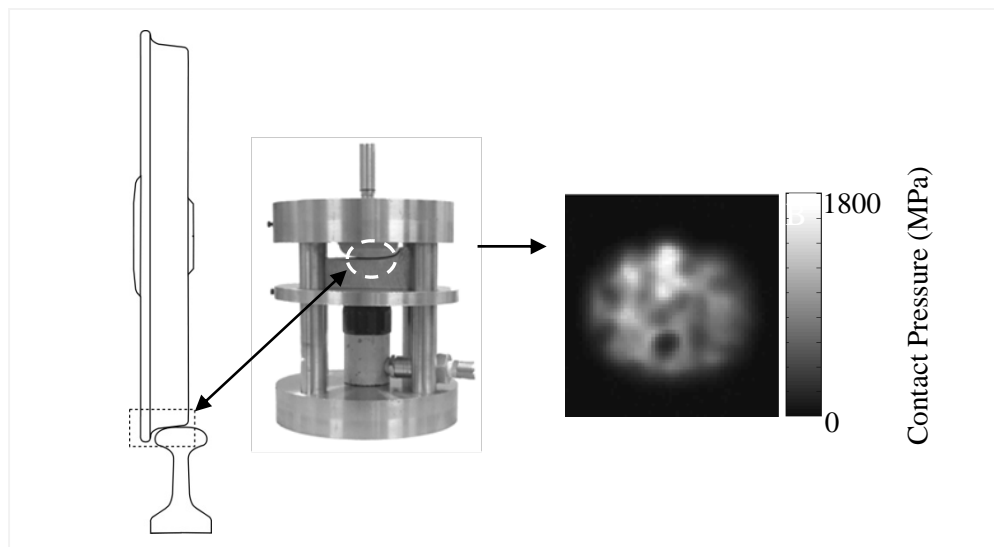


Railway Contact Mechanics

- Wheel / axle interference fit pressures
- Management key to durability of fit
- Characterisation of new wheel designs
- Wheel / rail contact size and pressures
- Required in rail wear simulations
- New, worn, sanded and twin contacts



Conclusions

- Wheel / axle fits:
 - Comparison of new and existing designs
 - Inclusion of rough surface effects & validation of FE simulation
- Wheel / rail:
 - Contact characterisation
 - Boundary conditions for wear models