

# Session 2 Breakout

Breakout Group 4

- Industry, researchers in group
- Lack of data
- Wellbore leakage model missing? Dynamics of leakage – problem of adequately capturing the physics
- Well leakage monitoring

- Pressure effects very important factor – area of review
- Boundary conditions – geological features or artificial?
- Static geological models are adequate but upscaling issues
- Modelling of caprock behaviour – coupling of gm and gc not there yet

- Lack of data for geomechanics of caprock
- Shear activation greater concern than existing fractures
- Particular problem for deep saline formations  
– caprocks effectively unknown properties at local scale
- Models – can they be understood and satisfy regulators? Leakage and pressure are 2 key issues

- Total: 3<sup>rd</sup> party expertise? Assuming regulators ignorance ignores 3<sup>rd</sup> party review.
- Models today may not be fully predictive?
- Modelling kinetic geochemistry difficult – no satisfactory models?
- Relative permeability curves





