

Mechanical response of wet granular media

Many important real life applications depend on the mechanical properties of wet granular media. Examples include rain-induced landslides, pharmaceuticals, food processing, mining and construction industries. Thus, it is important to study the mechanical response of granular matter with various degrees of wetness, or liquid content. We experimentally study this by measuring the torque response as a function of liquid content in a split-bottom shear cell.



Figure: By measuring the torque in a split-bottom shear cell, we deduce the rheological properties of wet granular materials.

Supervised by: T Weinhart, AR Thornton

