

## **MMEC SEMINAR SERIES**

### **MECHANICS: MODELLING, EXPERIMENTATION, COMPUTATION**

*Tuesdays @ 4:00pm – Room 3-370*

**September 23, 2014**

# **Draining bubbles and capillary bridges**

**James Bird**, *Boston University*

Interfacial fluid mechanics, such as the dynamics of drops and bubbles, are important to problems in a variety of fields. For example, the dynamics of viscous bubbles are important in glass manufacturing and the presence of capillary bridges impact the moisture of soil. In this talk, I focus on two capillary phenomena: the drainage of a viscous bubble prior to rupture and the morphology of capillary bridges between two solid spheres. The talk will combine modeling, experimentation, and computation to provide insight into the underlying mechanics.

*Seminar Host: Ken Kamrin (kkamrin@mit.edu)*

*Please join us for refreshments beforehand, outside Room 3-370*

*For more information, visit our website at <http://web.mit.edu/mmec/>*

*Series Organizers: Ken Kamrin (kkamrin@mit.edu); Pedro Reis (preis@mit.edu); Kostya Turitsyn (turitsyn@mit.edu)*

*Coordinators: Tony Pulsone (x3-2294, pulsone@mit.edu), and Rebecca Fowler (x4-7567, rfowler@mit.edu)*