

**THE CONVECTIVE DYNAMICS OF ICY SATELLITES AND IMPLICATIONS FOR SURFACE EVOLUTION.** Adam Showman, Lunar and Planetary Laboratory, University of Arizona, 1629 E. University Blvd., Tucson AZ 85721.

Europa, Ganymede, Callisto, Titan, and several smaller icy satellites have probably experienced ice-shell convection during their histories, and in several cases, convection or diapirism may have played a crucial role in causing surface tectonics.

I will review the current status and future directions in research on convection in the ice shells of icy satellites, with a particular emphasis on whether and how convection can influence the surface geology. My discussion will connect the latest theoretical ideas to surface observations of Europa, Enceladus, Titan, and other moons.