

Partial Syllabus for GEOS 670, Selected Topics in Volcanology
Tues. and Thurs. 11:30am-1:00pm

This syllabus covers the portion of class taught by Jessica Larsen, in John Eichelberger's absence.

Sept. 12: Students attend lecture given by Prof. Jim Cole, Volcanologist from the University of Canterbury, New Zealand. Topic: Modeling sub-volcanic plumbing systems.

Sept. 14: Mariah Tilman and Peter Rinkleff will lead discussions on the following papers: Sparks, The dynamics of bubble formation and growth in magmas: a review and analysis, *JVGR*, 3, 1978.
Shaw, Diffusion of H₂O in granitic liquids, *Geochemical Transport and Kinetics*, 1974.

Sept. 19-Oct. 5th: Students will lead discussions of selected chapters from the *Encyclopedia of Volcanoes*. Each student will select at least one reference from their chapter to incorporate into the discussion. Each class period during this time period will be devoted to discussing in depth the topic of choice of each student as follows:

Jenna Hecker: Volcanoes on Mars

Allison Payne: Plinian and Subplinian eruptions

Mariah Tilman: Composition of Magmas

Rachel Wilson: Volcano Warnings

Peter Rinkleff: Gas Plumes and Thermal Monitoring

Nicole DeRoin: Volcanic Plumes

After this time, John Eichelberger should be back to resume teaching this class.