Classic Papers in Glaciology  
GEOS 692: Spring 2009

**Instructors:** Erin Pettit (pettit@gi.alaska.edu) and Martin Truffer (truffer@gi.alaska.edu)

**Days and Time:** TBD, First meeting Tue Jan 27th 1pm

**Classroom:** GI 414 (Glaciology Map Room)

**Course Description:** The theme of this reading seminar is "Classic Papers in Glaciology". It will include some readings of the history of glaciology as well as some of the fundamental papers on key glaciological processes such as those by Glen, Nye, and Weertman. Students will be expected to present and lead the discussion of two papers over the course of the semester.

**Electronic Reserves:** Because many of these papers are not easy to find, we will post scanned version on electronic reserves for you to download. Click here to go to Electronic Reserves. There is no password on the system.

**Schedule of Readings:** [Here is a PDF of the readings](http://www.gi.alaska.edu/~pettit/classicpapers.htm).
Week 1: History of Glaciology


Week 2: Ice Deformation Mechanisms - Marijke


Week 3: Ice Deformation Mechanisms - Bob


Week 4: Sliding - Marijke


Week 5: Ice Flow Velocity and Stress - Jason


Week 6: Ice Flow Velocity and Stress - Joe


Week 7: Ice Sheet Shape - Joe


Week 8: Ice Sheet Stability - Bob


Week 9: Temperature and Timescale - Barbara


Week 10: Glacier Hydrology - Barbara


Week 10: Glacier Hydrology - Jason


Week 11: Surges and Tidewater Glacier Cycle - David


Week 13: Snowpack Structure - Mark and Carl


Week 14: Glacier Response to Change - David