GEOL 804: Seminar in Stratigraphy
Spring 2014

Instructor: Dave Barbeau, EWS 406, dbarbeau@geol.sc.edu
Meeting Date, Time, and Place: Tuesday 10 AM - 12 PM
Office hours: by appointment
Textbook: PDFs and other materials distributed electronically

Theme: Methods of Detrital-Zircon Geochronology Analysis by Laser Ablation ICP-MS

Summary
This course will provide interested graduate students an opportunity to investigate, present and discuss methods of sample selection, collection, preparation, documentation, analysis, and post-acquisition processing of detrital zircons and their U-Pb geochronology data.

Course Outcomes
By the end of the course, successful graduate student participants will have:
- become familiar with range of methods of detrital-zircon sample preparation, analysis, and post-acquisition processing,
- expanded their understanding of the modern literature,
- improved their presentation, reasoning, discussion, evaluation and critical thinking skills, and
- bolstered their capability of discussing geologic processes and products.

Grading
Grades will be determined by performance on weekly participation (20%), presentations (20%), and creation of best-practices manuals (60%).

Schedule
The course will be composed of student-led presentations and discussions of important unresolved problems in stratigraphy. Content and presentation leaders will be determined in the first two class periods.