

**Dr. Greg Balco,  
Berkeley Geochronology Center**

***Applications of cosmogenic-nuclide geochemistry to Earth  
surface processes***

Dr. Balco will be giving an introduction to cosmogenic-nuclide geochemistry with some example applications to surface exposure dating of glacial and other deposits, erosion rate measurement, and "burial dating" of clastic sediments. Dr. Balco indicates that he will try to keep it fairly concise so that there will be plenty of time for questions. If past experience is any guide it is likely that one of the attractions of the talk is that many professional geologists have likely heard of this technique, are wondering if it's applicable to any of their work, and would be most interested in getting questions answered in that regards.

***Speaker Biography:*** **Dr. Greg Balco** is a research scientist at the Berkeley Geochronology Center. Greg is a glacial geologist, geomorphologist, and geochemist focusing on applications of cosmogenic-nuclide geochemistry and low-temperature thermochronometry to Earth surface processes. He received a B.A, magna cum laude, at Williams College in Williamstown, MA; an M.S in geological sciences from the University of Maine; and an M.S. in Applied Mathematics and a Ph.D. from the University of Washington, Seattle; both in 2004. His thesis concerned Quaternary and glacial geology, surface processes, cosmogenic-nuclide geochemistry, quantitative geomorphology, and GIS applications in geology. He has received Fellowships from the U.S. National Science Foundation, the Fannie and John Hertz Foundation, DOSECC, the American Federation of Mineralogical Societies, ARCS, the Dean John A. Knauss Sea Grant Marine Policy, the National Science Foundation, and Conoco Corporation. He been on the Quaternary Geochronology editorial board, and conducted peer reviews for Science, Nature Geoscience, Earth and Planetary Science Letters, Geology, Geosphere, Quaternary Research, Quaternary Geochronology, Quaternary Science Reviews, Tectonics, Earth Surface Processes and Landforms, Journal of Geophysical Research, Journal of Quaternary Science, G-Cubed, Journal of Human Evolution, Geophysical Research Letters, and Geological Society of America Bulletin. He has been cited for excellence in reviewing by EPSL and JGR-Earth Surface. He has been at the Berkeley Geochronology Center since 2007.