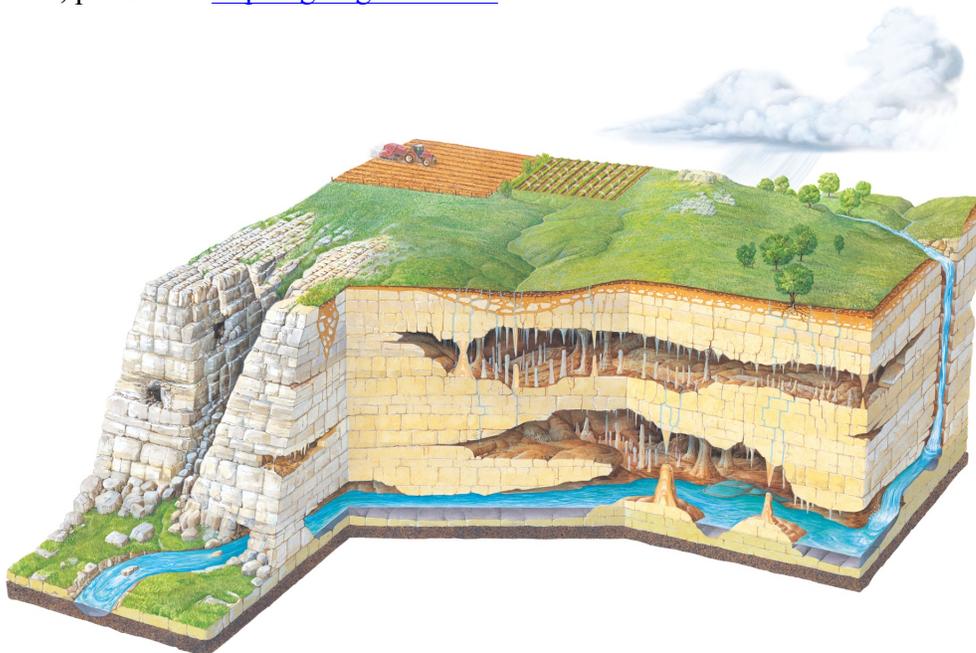


Two PhD Positions in Karst Hydrology & Geophysics

Two Research Assistantships for PhD (or exceptional MS) students are available in the Department of Earth and Environmental Science at the New Mexico Institute of Mining and Technology. Research will involve geophysical analysis of karst aquifers, which are important water resources for up to a quarter of the world population. The study will employ fieldwork in the Santa Fe River Sink-Rise system in north-central Florida. Geophysical responses to recharge events will be monitored using seismometers, tiltmeters, and GPS instruments and interpreted alongside hydrologic and meteorological data to facilitate aquifer characterization and regionally integrated flow monitoring. Implications range from the development of karst hazards maps, illustrating areas susceptible to sinkhole formation, to subsurface flow monitoring, aiding water supply management. In addition, the students will assist in the development of an interactive traveling exhibit that will be displayed in visitor centers in Florida and New Mexico. This project provides an excellent opportunity to develop a valuable set of interdisciplinary skills, and the students will be supervised by Andrew Luhmann (Assistant Professor of Hydrology, andrew.luhmann@nmt.edu, (575) 835-5029), Susan Bilek (Professor of Geophysics, susan.bilek@nmt.edu, (575) 835-6510), and Ronni Grapenthin (Assistant Professor of Geophysics, rg@nmt.edu, (575) 835-5924). The Department of Earth and Environmental Science at NM Tech has strong programs in Hydrology and Geophysics as well as in Geology and Geochemistry. Several research and instrumentation centers such as the National Radio Astronomy Observatory, IRIS PASSCAL, the New Mexico Bureau of Geology and Mineral Resources, and the Petroleum Recovery Research Center are housed on NM Tech's campus and create a vibrant science environment. Students will ideally start in May 2018. The graduate student application deadline for the 2018-2019 academic year is Jan. 15, 2018. For more information, please see <https://goo.gl/afvHAR>.



Karst aquifer (Lascu and Feinberg 2011, Quaternary Science Reviews).