

**LEARNING
GEOSCIENCE
BY DOING
GEOSCIENCE**

**Seismic Hazard
Assessment**

Gender Parity

**Magnetic Islands
in Space**

Postcards from the Field

Hello –

We completed a new survey of the structural deformation generated by the Meteor Crater impact event in northern Arizona. The 1.2-kilometer-diameter crater (also called Barringer Meteorite Crater) is the best preserved impact site in the world and is still providing new clues about cratering processes. Within a few seconds, 175 million metric tons of rock were excavated to produce the bowl-like cavity in the Colorado Plateau. As shown in the inset, the impact event shattered a block of Coconino in the crater wall, in addition to other units of the upper Grand Canyon sequence of strata. In a field project funded by NASA's Solar System Exploration Research Virtual Institute (SSERVI), Rice University undergraduate geology student Adeene Denton is studying the faults that tore through the Coconino, Toroweap, Kaibab, and Moenkopi strata when the crater was formed.

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