

ARIZONA

Our Mission:

To promote discovery in Earth and space science for the benefit of humanity

BY THE NUMBERS

AGU in Arizona

Total Members	779
Student Members	195
Global Membership	61,298

JAMIE MACY AND JEFF KENNEDY, TUCSON HYDROLOGISTS, UNITED STATES GEOLOGICAL SURVEY

Wildfires create high-risk flooding area because scorched ground does not absorb rainwater easily. By assessing how effective Coconino National Forest's Cinder Lake is at storing water, Jamie and Jeff help to provide planning information to mitigate the extensive damage **post-fire flooding** can cause to homes, property, municipal waterlines, and roads.

Funded by US Forest Service and Coconino County, AZ



DR. DAVID SAMPSON, TEMPE ARIZONA STATE UNIVERSITY

Enduring drought conditions in the Southwest and increasing water demands for future water supplies in Phoenix are worrisome for water managers. David works on a **water management and planning model** for Phoenix that simulates the current and projected water supply as influenced by population, climate change, and water availability. By allowing water managers to examine "what-if" scenarios they will be able to ensure long term availability for the growing Phoenix population.

Funded by NSF

MARY POULTON, TUCSON LOWELL PROGRAM IN ECONOMIC GEOLOGY, UNIVERSITY OF ARIZONA

The Lowell Institute is one of the largest interdisciplinary mineral resources research and education groups in the world. Because Arizona is the largest supplier of copper in the U.S. and hosts many other world-class mineral deposits, Mary and her team are interested in all aspects of **mineral resources management**. They research mineral deposit formation, more efficient extraction and processing technologies, and environmental management, mine reclamation, and health and safety practices while teaching students and industry professionals in their graduate and continuing education program. Mary and her team's fundamental research and education program are helping to make Arizona the hub for sustainable mineral resources management technology.



Funded by: Science Foundation Arizona, NSF, NIOSH, MSHA, USGS, industry, and David and Edith Lowell