



# The Explorers Club

*presents:*

## Diana Northup

*Exploring the Subsurface for Intraterrestrials:*

*The Microbial Wonderland of Caves*



Photo courtesy of Kenneth Ingham.

Diana Northup will take us on a journey of exploration into the subsurface to hunt for novel microbes in caves. Her hunt for intraterrestrials has taken her to such famous New Mexican caves as Lechuguilla Cave and Carlsbad Cavern, to the lava caves of the Azores and Hawai'i, and to Cueva de Villa Luz, where springs belch hydrogen sulfide and carbon monoxide--great dinner for the microbes, but deadly for humans! Her studies, conducted with colleagues on the Subsurface Life in Mineral Environments (SLIME) team, are finding many new species and families of bacteria, have revealed that many cave bacteria produce antibiotics, and have delved into how microbes can "make" rock and dissolve it. Her talk is illustrated with many of her husband's award winning photos of caves and science-in-action in the subsurface.

7:00pm - Saturday, July 21st at the University of New Mexico

Northrop Hall, Room 122 | University of New Mexico, Albuquerque



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