

Preserving and Maintaining Earthen Mortar in Adobe and Stone Masonry Structures Presenters



Ian Hough is an archeologist and architecture preservation specialist with the National Park Service since 1999 in Flagstaff, AZ. In his current role, he manages the archeology and preservation programs at Sunset Crater Volcano, Walnut Canyon and Wupatki National Monuments. Ian's education background includes a B.A. in Anthropology from the University of Oregon (1995) and a M.A. in Anthropology from Northern Arizona University (1999). Ian began working for the National Park Service at the Western Archeology and Conservation Center in Tucson, AZ and soon after began working for the Flagstaff Area National Monuments in the newly formed Vanishing Treasures Program. He has focused his architecture preservation training and education on the causes of deterioration including climate impacts, testing and applying preservation materials and treatments, applying current preservation technologies and connecting culturally descendent communities with ancient sites.



Calvin Chimoni is a tribal member from the Pueblo of Zuni, New Mexico. He is a lifelong student of understanding and working with earthen mortar and stone. Calvin's career with the National Park Service has led him to work on ancestral and historic architecture – most have been constructed with earth and stone. Calvin's education comes both from traditional earth building techniques as a youth and, later, entering college and learning about contemporary construction technology when he earned an associate's degree in 2001. Calvin enjoys replicating historic mortar, plaster, and working with preservation projects at El Morro, El Malpais, Gila Cliff Dwellings National Monuments, and Petrified National Park.



Myron J. Gonzales is a Preservationist at Bandelier National Monument-Under the direction of the Historic Preservation department duties include maintaining ancestral puebloan sites within the park boundaries utilizing the procedures and standards identified by the Department of the Interior for the National Park service. Collection of data pertinent to site management and restoration. As a former Director of Cultural Preservation for the Pueblo of San Ildefonso –Duties included interaction with numerous State and Federal agencies, National Parks, Los Alamos National Laboratory. Program was developed as a result of the Cerro Grande Fire of 2000. Ancestral sites important to the Pueblo were impacted by the fire; as a result work done within impacted areas included rehabilitation of archaeological sites and areas of importance such as Traditional 'cultural properties. Contract work for Los Alamos National Laboratory was also completed associated to cultural resource compliance during my tenure as director of this program. As an Artist Myron works in various mediums including painting, leatherwork, and replications of prehistoric Ancestral Pueblo & textiles, tools, and weaponry. Myron's award winning art resides in various private collections, institutions and museums such as National Museum of the American Indian in Washington D.C. and Colorado History Museum in Denver, CO.



R. Brooks Jeffery (Moderator) is Associate Vice President for Research at the University of Arizona and Professor of Architecture in the College of Architecture, Planning, and Landscape Architecture (CAPLA). His teaching, research, and outreach efforts have advanced heritage conservation as part of a comprehensive ethic of environmental, cultural, and economic sustainability throughout the world, including the Middle East, Latin America, and the American Southwest. He has authored/co-authored over 50 peer-reviewed articles, books and technical reports and has received numerous local, regional and national awards including the National Park Service's "Director's Partnership Award" in recognition of "innovative leadership in the field of historic preservation".