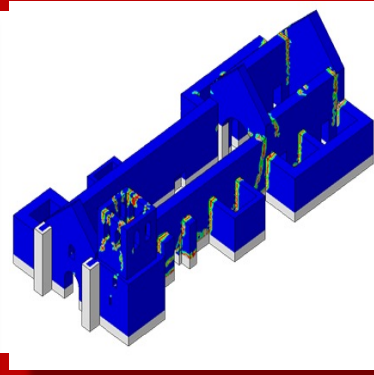


The Challenge of Preserving Heritage Buildings in Earthquake-Prone Areas: Applications to Peru



Rafael Aguilar

Visiting Assistant Professor
Pontificia Universidad Católica del Perú

Please join us for a public lecture

Thursday, December 4

5:00 p.m.

Gamble Room, Rush Rhees Library
University of Rochester

Refreshments will be served



Abstract:

The conservation of heritage buildings is of major importance for preserving the scientific, ethnographic, and artistic values of past cultures. Conservation and restoration works in these types of buildings are often focused on aesthetic aspects or on solving localized problems. In earthquake-prone areas, the character of the intervention changes, as it is of extreme importance to carry out detailed structural analysis studies using up-to-date experimental and numerical techniques. This presentation gives a brief summary of the work that was carried out at the Pontificia Universidad Católica del Perú in terms of understanding the seismic behavior of earthen structures and then presents two case studies, one for an 11th century archaeological complex, and one for a 17th century adobe church where modern structural engineering techniques were applied for assessing their seismic response.

Sponsored by the Programs of Archaeology, Technology, and Historical Structures and Digital Media Studies and the Departments of Art & Art History, History, and Mechanical Engineering