

BEHAVIOUR OBSERVED IN EARTHEN BUILDINGS DURING FOUR DESTRUCTIVE
EARTHQUAKES IN LATIN AMERICAN COUNTRIES

Ing. Carlos N. Balseiro *
Ing. José Herrera Cano **
Ing. Hugo Giuliani **

* Professor of the Building Department of the Faculty of
Engineering and Architecture, Universidad Nacional de San Juan.

** Research workers of the "Ing. Aldo Bruschi" Seismic Research
Institute of the Universidad Nacional de San Juan.

ABSTRACT

In this paper, a revision is made of the behaviour noted by the authors in earthen buildings during four devastating Latin American earthquakes. They are: in San Juan, Argentina on 15th January 1944 and 23rd November 1977; in Lima, Perú on 3rd October 1974 and Guatemala, Central America on 4th February 1976.

Finally, some hints are given as to the improvement of the earthen buildings in zones of high seismic risk.

COMPORTAMIENTO OBSERVADO EN VIVIENDAS CONSTRUIDAS CON ADOBES
DURANTE CUATRO TERREMOTOS DESTRUCTIVOS OCURRIDOS EN LATINOMERICA

RESUMEN

En este informe, se efectúa una revisión del comportamiento observado por los autores en las viviendas de adobes en cuatro terremotos destructivos latinoamericanos que son: San Juan, Argentina, 15 de enero de 1944 y 23 de noviembre de 1977, Lima, Perú, 3 de octubre de 1974 y Guatemala, C.A. 4 de febrero de 1976.

Finalmente se mencionan algunas recomendaciones para el mejoramiento de las viviendas construidas con adobes en zonas de elevado riesgo sísmico.