

program

1973 ANNUAL MEETINGS

THE GEOLOGICAL SOCIETY OF AMERICA (85th)
THE PALEONTOLOGICAL SOCIETY (64th)
THE MINERALOGICAL SOCIETY OF AMERICA (53rd)
SOCIETY OF ECONOMIC GEOLOGISTS (52nd)
GEOCHEMICAL SOCIETY (17th)
NATIONAL ASSOCIATION OF GEOLOGY TEACHERS (13th)
GEOSCIENCE INFORMATION SOCIETY (7th)
SOCIETY OF VERTEBRATE PALEONTOLOGY

NOVEMBER 12-14, 1973
STATLER HILTON HOTEL
AND DALLAS
CONVENTION CENTER
DALLAS, TEXAS



THE
GEOLOGICAL SOCIETY
OF AMERICA

RADAR DESCRIPTION OF LUNAR SURFACE FEATURES

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A brief description of the Apollo Lunar Sounder, a radar experiment carried aboard Apollo 17, preceeds a discussion of the results of geologic mapping obtained with Sounder.

Of particular importance to studies of volcanism on the moon, are quantitative descriptions of the many different levels of lunar lavas over the front side of the moon. Radar profiling has permitted continuous determination of the relative levels of different flows. The radar determinations of lunar lava levels are confirmed by laser altimetry and metric camera mapping.

Additional surface geologic features, synthesized from radar and photographic data are described. Subsurface lunar structure is inferred.