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SEARCH AND DISCOVERY

other observers, is looking for "moon-quakes"; their presence would suggest that the moon has a molten core. The equipment was expected to remain functioning for one year.

Who gets what: The aluminum-foil solar-wind detector, which absorbed particles while the astronauts were on the moon, and the samples of lunar soil they brought back with them will be the subject of hundreds of experiments. Many of these will characterize the physico-chemical properties of the samples; spectra, thermal and electrical conductivities and magnetic characteristics will be exhaustively studied. Instrumental (for example, mass-spectrographic, fluorescence and electron-microprobe) and wet methods are to be used for determining the elemental composition of the samples.

Anthony Turkevich, whose alpha-scattering experiment on Surveyor 5 gave information on lunar soil composition (PHYSICS TODAY, December 1967, page 60), is doing studies on Apollo samples too. His gamma-ray spectrometry and neutron-activation analyses determine isotopic abundance. A group headed by Raymond Davis at Brookhaven will be studying argon-37-argon-39 ratios to help determine the age of the moon. They will be using the same low-level counting equipment and rare-gas separation techniques employed in the Davis solar neutrino-flux experiments (PHYSICS TODAY, March 1968, page 73).

Luis Alvarez of the University of California, Berkeley, is to study a sample for the possible presence of magnetic monopoles. Johannes Geiss of the University of Berne, Switzerland, expects to find helium and perhaps heavier rare gases in a sample of the solar-wind detector.

IN BRIEF

A 650-kV Hitachi electron microscope, which cost \$250 000, has been installed at the University of California Berkeley campus.

OGO-6, an orbiting geophysical observatory, was launched on 5 June. On board are 25 experiments to study the interaction of solar radiation with the magnetic field of the upper atmosphere and ionosphere. The spacecraft will operate during maximal sunspot activity. □

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