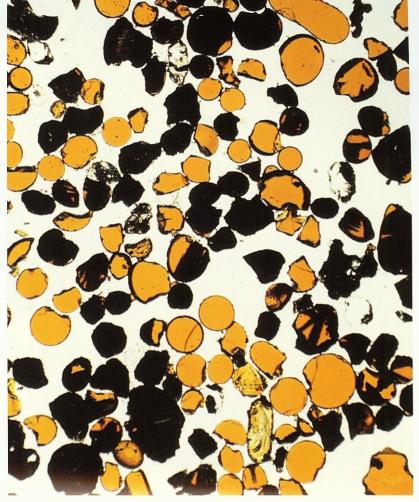
geologist to go to the Moon, examining the rim of Shorty crater at the *Apollo 17* Taurus-Littrow site. Note, in the foreground, an exposure of orange soil; this material is volcanic ash that erupted from a lunar fire fountain over 3.7 billion years ago.

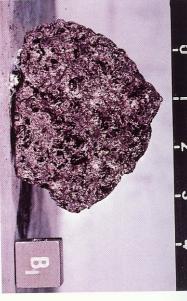
Schmitt, the only professional

Plate 5. Astronaut Jack

Plate 6. Microscopic view of the *Apollo 17* orange soil. It is made up of very small (each about 0.04 mm across) glass spheres; the orange color is caused by their high titanium content. These glass beads were formed during a firefountain eruption over 3.6 billion years ago.











crop of fresh basalt (in crater deep red is dark pyroclastic are fresh highland materials, ultraviolet-visible camera on made with three bands of the Plate 8. False-color mosaic The sinuous rille is Schröter's purples are mare lava flows. and rille walls), and reddish-(ash) deposits, yellow is out-Plateau. In this image, blues Clementine of the Aristarchus resolution data set from the shows the quality of the fullon the plateau. The mosaic Valley, a large lava channel Clementine mission.