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Nomarski interference-contrast micrograph of an aluminum-silicate mixture of stoichiometric mullite composition showing peritectic microstructure formed by slow cooling of a homogenized melt. Interpretation of such microstructures with the aid of diffusion couple technique results in a new SiO2-Al2O3 phase diagram (about 1200). See page 69. [Ilhan A. Ak-say and Joseph A. Pask, Department of Materials Science and Engineering and Inorganic Materials Research Division, Lawrence Berkeley Laboratory, University of California, Berkeley]
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Jupiter's red spot and a shadow of the moon (plus Jupiter's cloud structure) taken at 11:02 p.m. on 1 December
as NASA's Pioneer 10 spacecraft was about 2.5 million kilometers from the planet. Images are made on tapes;
flown into Tucson daily; and processed in black and white after being recti-
ified and interpolated at the University
of Arizona. See page 301. [National Aeronautics and Space Administration, Washington, D.C.]

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Cathode-ray tube display, showing the map of punctate visual sensations ("phosphenes") elicited in the visual field of a totally blind patient. The numbers indicate the position in the implanted array of the stimulating electrode associated with each phosphen. See page 440. [Institute for Biomedical Engineering, University of Utah, Salt Lake City]
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Manganese nodules on the ocean floor in the prime North Pacific mining area
where deposits are rich in copper and nickel. See page 502. [Deepsea Ventures, Inc., Gloucester Point, Virginia]
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Young peregrine falcons in an eyrie in Vermont in 1939. Declines in  
North America and Europe have been linked to the use of DDT and this  
species no longer breeds in the eastern United States. See page 673.  
[Walter R. Spofford, Ornithology Laboratory, Cornell University]
Science 183 (4120), 26-124.