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Cover Story

Fatigue Crack Initiation at a Grain Boundary was displayed at the 1973 ASTM Photographic Exhibit. The photograph shows an annealed oxygen-free, high conductivity (OFHC) copper specimen fatigued in air at a stress range of 28 ksi for 60 percent of the estimated life. The average grain size was 90 μm . The numerous small specks on the surface are believed to have been created during the electropolishing of the specimen prior to the fatigue loading. Original magnification was $\times 6000$. The photographers were Yoshifumi Nakano and Bela I. Sandor, whose article on "High Cycle Fatigue Crack Propagation Rates in Copper" begins on p. 196 of this issue.