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COVER An arrested stage in the crystallization of a chondrule in the Chainpur chondrite. Skeletal pyroxene crystallites are set in a clear, isotropic, silica-rich glass. The large white grain is an olivine crystal below and separate from the pyroxene crystals which are wholly surrounded by glass. This chondrule evidently formed by quenching of a liquid silicate droplet from high temperatures. The dark line, produced by a beam of the electron microprobe while traversing across this area, is 40 microns long. See page 856.