The two Solar TErrestrial RElations Observatory (STEREO) spacecraft depicted on the front cover were engineered, built, and operated by APL to perform 3D solar observations. See the insert and 3D glasses at the back of this issue to view one of the 3D images of the Sun created from STEREO’s observations. In addition to exploring the STEREO mission, this issue of the Technical Digest commemorates the 50th anniversary of the Space Department at APL, further described on the inside back cover.