

Comment

munication satellites do have their place. They are a great way to distribute network television programs around the Earth and domestically. They are also appropriate for reaching otherwise inaccessible portions of the planet. For these types of applications, GEOS have much to offer, as they are few and less costly since the satellite can be used nearly all the time. American Mobile Satellite Corporation, partially owned by Hughes Communications, will offer voice and fax using three GEOS at a development cost of \$560 million. The first of the three satellites was launched in April 1995. Portable mobile units that need to be aimed at the satellites will

be used. Simple digital messages are proposed to be carried by Orbital Sciences' OrbComm system using 26 satellites.

Satellites are also a good way to obtain precise positioning information. The Global Positioning System (GPS) is already in place with 24 satellites in medium earth orbit, broadcasting codes to enable users to position themselves accurately. Boaters and civilian aircraft are some of the users of GPS, and some people believe positioning receivers will soon be in automobiles to guide us along the auto highways of the world and handheld receivers will help hikers to find their way back to camp.