

true, but the picture will begin to change as a series of Spacelab missions fly in the 1990s. However, there is a limit to the kinds of experiments that can be conducted during short missions. Space Station Freedom will provide a substantial boost in research capability that will build on the results obtained from these precursor Spacelab missions. Another goal of the Space Station Freedom program is to ensure that investigators can rapidly pass through the system. There is no question that the current time from concept to flight is too long.

Two of the prime design drivers for Space Station Freedom are prolonged exposure to microgravity and a continuous human presence—capabilities that are needed to expand microgravity and life science research; capabilities which can only be provided aboard a permanent space-based research facility.

**Robert W. Phillips**  
Chief Scientist,  
Space Station Freedom,  
Office of Space Systems Development,  
National Aeronautics and  
Space Administration,  
Washington, DC 20546

#### REFERENCES

1. "Toward a microgravity research strategy" (Space Studies Board, National Research Council, Washington, DC, 1992); "White paper on NASA-wide microgravity research" (Universities Space Research Association, Microgravity Science and Applications Council, Washington, DC, 1992).

■

#### Landsats Old and New

The 14 August ScienceScope item "Landsat to get a new home" (p. 867) paints a rosy picture of the Landsat program and its "new home." What is not mentioned is that the Landsats so far defined to continue the program are nothing but clones of previous Landsats and represent 25-year-old technology. In the meantime, other countries, particularly France and Japan, have built or are building Earth-sensing satellites with performances that greatly exceed those of current (and planned) Landsats. It is hoped that Congress and the Administration will see the wisdom of bringing our Earth-sensing program into the 1990s before we find ourselves completely out-of-date.

**Alden P. Colvocoresses\***  
3316 Rocky Mount Road,  
Fairfax, VA 22031

\*Past President, American Society for Photogrammetry and Remote Sensing

#### Corrections and Clarifications

Figure 3 on page 253 of the report "Block of  $Ca^{2+}$  wave and  $Ca^{2+}$  oscillation by antibody to the inositol 1,4,5-trisphosphate receptor in fertilized hamster eggs" by Si. Miyazaki *et al.* (10 July, p. 251) was printed so that the sperm drawn on the computer display were not visible. Also, the scale bar for (F), which was 50  $\mu m$ , was not clear. The correct figure is reproduced below.



## WE'LL SHIP YOUR OLIGO IN 48 HOURS, OR WE'LL EAT THE NEXT ONE.

**You get your primer or probe on time, or you get your next one for free. No questions, no quibbles. For \$5.00 a base (and \$20 setup charge), you'll receive a research-ready, cartridge-purified product, complete with PAGE gel pedigree. And you'll get it on time, or we'll be eating **GENO&YS** more than our words.**

**SPECIAL OFFER!** Call **1-800-2345-DNA**, or fax a copy of this coupon, and we'll drop the setup charges on your first order. That's a savings of \$20 per oligo! (If you don't need any oligos at the moment, we'll send you a coupon for future use.)

Name \_\_\_\_\_ Title \_\_\_\_\_

Institution/Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Genosys Biotechnologies, Inc. 8701A New Trails Drive, The Woodlands, Texas 77381-4241  
Phone: (713) 363-3693 (800) 2345-DNA Fax: (713) 363-2212