Editorial

1609 Technology and Global Industry

Letters


News & Comment

1616 Hanford's Radioactive Tumbleweed
1620 Supreme Court Strikes Down "Creation Science" Law as Promotion of Religion
1620 Plant Science Grant Program Nears Approval
1621 Science Medals Presented at White House
1622 Cautious Optimism on High-Tech Weapons for NATO Forces
1622 New Technologies Good for Employment

Research News

1623 Extrasolar Planets, Maybe–But Brown Dwarfs, No
1624 Monitoring Earth and Sun by Satellite: How the Sun Faded Even as Its Sunspots Did: Geologist's Hammer Is Joined by Spectrometers: Precision of Global Positioning Increases
1626 Prostate Cancer Consensus Hampered by Lack of Data
1627 CytokinesAlter AIDS Virus Production

Articles

1631 Can the U.S. Oil and Gas Resource Base Support Sustained Production?: W. L. Fisher
1636 A Visit to Chernobyl: R. Wilson

Research Articles


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Caribbean sponges, similar to the large barrel-shaped *Xestospongia muta*, are almost exclusively heterotrophic, whereas many of those on the Great Barrier Reef rely heavily on symbiotic cyanobacteria for much of their nutrition. The incidence of symbioses in the two regions is comparable, but those in the Caribbean, like *X. muta*, typically have only a thin layer of red-brown symbiont-containing tissue. See page 1654. [Clive Wilkinson, Australian Institute of Marine Science, Townsville MC, Queensland 48101, Australia]