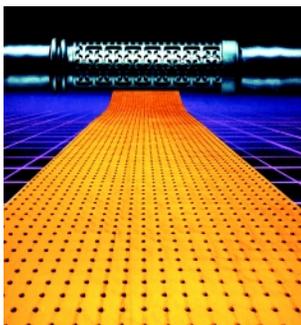


# JOURNAL EDITORS

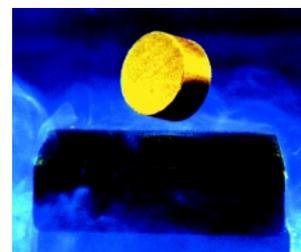
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## ABOUT THE COVER



Background: The Typar Biobarrier Root Control System (yellow geotextile), manufactured by Reemay Inc., is a cost-effective method for municipalities to prevent plant growth along roadways, public facilities, waste sites, and land fills. Rootstop (bar in background), marketed by Agrifim Irrigation International, prevents plant roots from clogging buried drip irrigation lines. The technology was developed at Pacific Northwest National Laboratory in Richland, Washington, and was originally used to prevent unwanted growth on waste sites at the Hanford Site, Washington.

Lower Left: High temperature superconducting materials have the potential for revolutionizing the electrical-generating and electronic industries, public transportation, manufacturing, and frontier technology industries in general. The levitating magnet shown in this photograph demonstrates the Meissner Effect, an evident sign that a material is in a superconducting state. Researchers at the Department of Energy's laboratories are improving the quality and fabrication of high-temperature superconductors. Their research will help superconductors attain commercial potential in generating, storing, and transmitting energy.



Lower Right: The "hohlraum" is a cylinder of gold within which rests a BB-sized plastic sphere containing fusion fuel. Laser beams enter the two open ends of the hohlraum, heating the hohlraum walls creating X-rays that compress the fusion fuel and produce a fusion reaction. Experiments at the Department of Energy's laboratories will help scientists learn how to harness fusion energy.