

MICROSCOPY TODAY

A monthly newsletter dedicated to the unique interests in microscopy and published, at no cost, to some 10,800 professionals in North America.

- - - Don Grimes, Editor

INDUSTRY NEWS

✓ Last call for some SUN - at SCANNING '93. From April 21 to April 23, '93 at the Twin Towers Hotel and Convention Center, Orlando FL. For info. contact Mary K. Sullivan, Tel.: (201)818-1010, Fax: (201)818-0086.

✓ According to a recent survey of some 25,000 students at 177 institutions, the dropout rate between freshman and senior years for undergraduates in science, math and engineering averages 40 %. The dropout rate ranges from 20 % for the physical sciences to 50 % for the biological sciences.

✓ The National Research Council has announced its 1993 Resident, Cooperative, and Postdoctoral Research Associateship Programs. The research will be conducted at 115 laboratories representing some 30 federal agencies and research institutions. More than 7000 researchers have participated in the program since its start in 1954.

Some 350 associateships will be awarded in the fields of chemistry, earth and atmospheric sciences, engineering and applied science, biological, health, behavior sciences and biotechnology, mathematics, space and planetary sciences and physics. The program is open to U.S. and non-U.S. scientists and to recent Ph.D. graduates and senior scientists. Participants will have the opportunity to work on projects largely of their own choosing that are compatible with the interests and goals of the sponsoring facility.

Awards are for one or two years and are renewable for up to three years. Annual stipends range from \$27,750 to \$44,000 for recent graduates with senior researchers receiving more. Also provided are relocation and travel expenses, facilities, support services and equipment.

For information, contact Associateship Programs (GR430/D3), National Research Council, 2101 Constitution Ave. NW, Washington DC 20418, Tel.: (202)334-2760, Fax: (202)334-2759. Applications must be postmarked by April 15 for June awards and by August 15 for October awards.

✓ In the last federal fiscal year, 109,728 patents were issued by the U.S. Patent & Trademark Office - 49,968 (or 45.5%) of which went to foreigners. The leading countries involved were Japan: 23,461 (21.4%), Germany: 7,960 (7.3%), France: 3,332 (3.0%), U.K.: 2,851 (2.6%) and Canada: 2,311 (2.1%).

✓ The NEC Corporation recently claimed that it has developed the world's first basic technology for rewritable memory using Scanning Tunneling Microscopy. It is expected to have application as a "Nano-Fabrication Tool" in basic technical analysis, and for the observation and modification of the surface morphology of ultra large-scale integrated circuits. 10 nanometer bit erase-and-write was achieved, with ultra-high recording density at relatively high speed, allowing for the manufacturing of Tera-bit class memories of one square inch, at room temperature and atmospheric pressure. According to NEC, the technology has applications in ultra-fine integrated circuits, high-density disks and other memory devices.

SECOND INTERAMERICAN CONGRESS ON ELECTRON MICROSCOPY

Cancun, Mexico
September 26 - October 2, 1993

The Asociación Mexicana de Microscopia, A.C. is organizing the 2nd Annual InterAmerican Congress on Electron Microscopy (the 1st was in Merida VZ in June 1992) under the Chairmanship of Dr. Miguel José Yacamán in and in conjunction with the IFSEM (International Federation of Societies for Electron Microscopy) and the newly-formed CISAEM (Committee of InterAmerican Societies of Electron Microscopy). CISAEM members are Susan Tai (Venezuela), Wanderley de Souza (Brazil), and Miguel Jose Yacamán (Mexico).

The Congress will have morning and evening sessions, an instrument exhibit and will be preceded by tutorials on basic EM methods. Deadline for receipt of manuscripts is a very neighborly August 1, 1993. Additional information about the Congress and its organizing committee will be in next month's issue off this newsletter. The First Circular containing full information about the organizing committee, program plans and the delights of Cancun is available from the Secretariat:

Ms. Vicky Vazquez
Instituto de Física, UNAM
Aparto postal 20-364
Delegación Alvaro Obregón
01000 México, D.F.
México

Tel.: (525)622-50-33
Fax: (525)548-31-11

Copyright © in 1992 by Today Enterprises. All rights reserved.