

cludes that in both physics and astronomy "the anticipated demand ... in the 1990s appears to exceed the numbers of students currently preparing themselves" for careers in those fields. In 1987-1988, 181 astronomy bachelor's degrees, 75 master's degrees and 94 doctorates were awarded.

For a copy of this year's report, entitled "Enrollments and Degrees," write to Susanne Ellis, Education and Employment Statistics Division, American Institute of Physics, 335 East 45 Street, New York NY 10017.

—JEAN KUMAGAI

## APPLETON IS HEAD OF PHYSICAL SCIENCES AT OAK RIDGE

Bill R. Appleton has been named associate director for the physical sciences and advanced materials at Oak Ridge National Laboratory. He succeeds Alexander Zucker, who is now associate director for nuclear technologies.

Appleton earned his BS at the University of Missouri (1960) and his MS (1964) and PhD (1966) at Rutgers. He was a research staff member at RCA from 1961 to 1963 and at Bell Telephone Labs from 1966 to 1967, when he joined Oak Ridge. Appleton served as the first director of the ORNL Surface Modification and Characterization Collaborative Research Center, one of the lab's national user facilities, and from 1986 to 1988 he was director of the lab's solid-state physics division.

Appleton's research has been in surface physics, ion-solid interactions, surface modification by means of ion implantation, ion-beam mixing and laser annealing.

## ROYAL SOCIETY LIMITS COLLABORATION WITH CHINA

The Royal Society of London announced in August that because of China's political crackdown in June, it was terminating scientific collaboration with Chinese government bodies. A memorandum of understanding with China's Ministry of Geology and Mineral Resources will not be renewed, and an agreement with the PRC's Natural Science Foundation is suspended. The Royal Society also will not send or receive high-level delegations to or from the PRC.

The Royal Society will continue to support visits by individual scientists,

including those arranged under agreements with the Chinese Academy of Sciences and the China Association for Science and Technology. But it will not make grants to scientists to attend international meetings in China "until it can be sure that such meetings are fully international, attracting high-calibre scientists from around the world, and that attendance by British scientists will not be used to imply support for Chinese government policies."

## NEW BITNET LINK AND ADDED FEATURES GIVE PINET A BOOST

A new and improved version of AIP's on-line database service, PINET, is now up and running. The new PINET came on line on 1 September, and more than 500 users have since registered.

PINET is an electronic information service developed by the American Institute of Physics for the physics and astronomy community. It provides on-line access to databases such as job listings, the PHYSICS TODAY meeting calendar, advance abstracts and published journal abstracts, and can be used to send messages to other individuals or institutions. The original PINET system came on line in March 1986.

The new PINET's added features include:

- ▷ An electronic mail service linking PINET to BITNET and other networks
- ▷ A new text search and retrieval feature for conducting Boolean searches of most of the available databases
- ▷ Expanded coverage of AIP's SPIN database, which provides published abstracts from over 80 AIP and member-society publications
- ▷ A toll-free 800 number for access from the US and Canada.

PINET operates on a Gould 60/40 computer located at AIP's Woodbury, Long Island center. There is a \$15 registration fee for individuals, plus an hourly connect charge. To register, dial 1-800-727-4638 using a modem; at the LOGIN prompt, type *new* (lower case). A menu with registration information and instructions will then be displayed.

## SWARTZ IS EDITOR OF THE PHYSICS TEACHER ... AGAIN

What goes around comes around. Clifford E. Swartz, editor of *The*

*Physics Teacher* magazine from 1967 to 1985, is once again sitting behind the editor's desk. He succeeds Donald Kirwan, who moved to the American Institute of Physics as manager of its education division last year.

Swartz has definite ideas on where he would like to see the magazine go. "*The Physics Teacher* should be suitable for and read by anyone who teaches an introductory physics course, whether that be in a high school, college or university," Swartz said in a recent interview. "It should be a tool for linking these different teaching groups." The magazine is published by the American Association of Physics Teachers.

Swartz became involved in physics education in the 1950s, when the Physical Science Study Committee first met to revamp high school science courses. He has written science textbooks for all grade levels.

In addition to his editorial duties, Swartz will continue as a professor of physics at the State University of New York at Stony Brook, where he has taught since 1957. Swartz received his BS, MS and PhD in physics from the University of Rochester and did experimental particle physics at Brookhaven National Laboratory from 1951 to 1963.

Editorial correspondence should be sent to: *The Physics Teacher*, Department of Physics, SUNY at Stony Brook, Stony Brook NY 11794.

## IN BRIEF

The University of California, San Diego, has established an endowed chair in physics to honor the late Bernd T. Matthias, the discoverer of thousands of ferroelectric, ferromagnetic and superconducting materials. Matthias was a professor at San Diego from 1961 to 1980.

A center for the basic physics of submicron semiconductor science, the Joseph H. and Belle R. Braun Submicron Semiconductor Center, is being established at the Weizmann Institute of Science. Funded at \$15 million, the center will have 5700 square feet of floor space, about 70% ultra-clean, and facilities will include a molecular beam epitaxy lab, an electron-beam lab and a micro lithography and processing room. It will be headed by Mordehai Heiblum, currently at the IBM Thomas J. Watson Research Center, and it will have three to five research scientists and five to ten technical personnel, as well as graduate students.