

for the establishment of the NSF 30 years ago.

The Committee of the 11th Fritz London Memorial Award in Low-Temperature Physics invites nominations of appropriate recipients of the Award. Names of nominees must be accompanied by appropriate supporting statements and should be submitted to the chairman of the Committee, Horst Meyer, Department of Physics, Duke University, Durham, N.C. 27706 before 1 February. In January the Graduate School of Patent Resources, Washington, D.C., will offer classes in a program lead-

ing to an MS in patent practice and for some, to a license to practice as a patent agent. Those desiring information should write The Graduate School, Patent Resources Institute, PO Box 19302, Washington, D.C. 20006.

The International Union for Vacuum Science, Technique and Applications has developed a Visual Aids Project for use in teaching vacuum technology and its applications. The five parts of the series are: Fundamentals of vacuum; vacuum measurement and gauges; gas transfer pumps; residual gas analyzers and

capture pumps, and vacuum deposition. Each part consists of a booklet and accompanying slides and the series is available as a complete set, for £140 or as individual parts from the IUUSTA Secretariat, 47 Belgrave Square, London SW1X 8QX, UK.

An evaluation of one of the National Science Foundation's efforts to increase the participation of women in science and engineering careers, *Reentry Programs for Female Scientists: Final Report*, has now been published. It is available for \$18.95 from Praeger Publishers, 521 Fifth Ave., New York, N.Y. 10017.

AIP directory and graduate programs books

The American Institute of Physics has published the 1980-81 editions of the *Directory of Physics and Astronomy Staff Members* and *Graduate Programs in Physics, Astronomy and Related Fields*.

The 420-page *Directory* lists more than 30 000 personnel at over 3000 physics- and astronomy-related institutions in North America. This year's *Directory* has one-third additional coverage of the staffs of industrial and not-for-profit research centers as well as many new listings for Canadian Government laboratories. Copies cost \$49.00 prepaid.

The *Graduate Programs* book contains entries for 296 departments in the US, Canada and (now for the first time) Mexico that offer graduate degrees in physics, astronomy, applied physics, materials science, atmospheric science, geophysics, medical physics, nuclear and aerospace engineering and other fields. It is available for \$12.50 prepaid (or \$7.50 for students).

Both publications may be ordered from Back Numbers, AIP, 335 East 45th Street, New York, N.Y. 10017.

OSA establishes award in honor of Charles Townes

The Optical Society of America has established a new award in honor of Charles Hard Townes, a pioneer in the field of masers, lasers and quantum electronics in general. The announcement of the award took place during the Townes Ceremonial Session at the June International Quantum Electronics Conference in Boston.

The Townes Medal will include a \$1000 prize as well as a silver medal. It will be awarded annually starting in 1981 to recognize "distinguished contri-



TOWNES

butions to the field of quantum electronics through outstanding experimental or theoretical work, discovery, or invention." Bell Laboratories is sponsoring the new OSA award.

Townes, who is University Professor of Physics at the University of California, Berkeley, won the 1964 Nobel Prize in physics for fundamental work that led to the construction of oscillators and amplifiers based on the maser-laser principle.

Strassenburg is elected Sigma Pi Sigma president

The Society of Physics Students has reelected Arnold A. Strassenburg to a two-year term as president of Sigma Pi Sigma, the physics honor society. Strassenburg is professor of physics at the State University of New York at Stony Brook and executive officer of the American Association of Physics Teachers.

Appointed to a two-year term as at-large member of the SPS executive

committee was R. Charles Ivey, professor of physics and chairman of the department of physics at Abilene Christian University. In addition to Strassenburg and Ivey, the executive committee membership includes Hla Shwe, president of the SPS Council; H. William Koch, director of AIP; Dion W. J. Shea, director of SPS, and John K. Moyla, SPS Associate Councillor Representative.

Four physics faculty members were elected to three-year terms as national councillors: William W. Edison (Drexel University), Zone 3; Bernard D. Kern (University of Kentucky), Zone 5; George K. Miner (University of Dayton), Zone 7, and Larry V. Knight, (Brigham Young University), Zone 11.

AIP television news spots cover astronomy

The American Institute of Physics Public Information Division has released the third installment in its Science Television News Series. The new group of five 90-second astronomy news spots focuses on topics such as the Solar Maximum Mission and International Ultraviolet Explorer satellites, the evolution of stars and galaxies, and double quasars. The news features are intended for use by local television stations in their daily newscasts.

Both of the earlier news feature series, the first on medical physics and the second on energy, have met with considerable acceptance among television stations across the country. Forty-eight stations have reported using the medical physics series and at least as many have made use of the energy series.

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