

we hear that

surement used to specify the properties of electron devices, the materials from which they are made and the processes used in their fabrication." French, who is chief of the electron devices section of the NBS Institute for Applied Technology, has conducted research that has greatly advanced semiconductor technology and reliability of semiconductor devices.

Robert A. Millikan Award presented to Meiners

The Robert A. Millikan Lecture Award was presented to Harry F. Meiners at the summer meeting of the American Association of Physics Teachers. The award, which is presented annually for "notable and creative contributions to the teaching of physics," consists of a \$300 honorarium, a medal, a certificate and a copy of the citation, and is made possible by an annual gift from Prentice-Hall. In accepting the award, Meiners delivered a lecture entitled "Problems of Science Education in Underdeveloped Countries."



MEINERS

Meiners, a professor at Rensselaer Polytechnic Institute since 1943, was primarily acknowledged for his contributions and dedication to physics as editor of *Physics Demonstration Experiments* and as co-director of the project supporting it. He was further cited for his early interest in laboratory work as shown through his co-authorship of *Analytical Laboratory Physics* and his direction of introductory physics labs at RPI, and for his physics-oriented activities in Peru and Colombia, which led to the invention of the microwave diffraction apparatus, the electron diffraction tube and the kinetic-theory apparatus, among others.

He was previously acknowledged by AAPT in 1967 with the Distinguished Service Citation for his contributions in the "form of new laboratory experiments, new lecture demonstrations and

new uses for films." He has also been cited by the National Physical Laboratory of India and the Indian National Council on Science Education for his work as staff scientist for the National Science Foundation and the Agency for International Development of the US Government in New Delhi, India.

IPPS presents nine awards for 1971

The Council of the Institute of Physics and the Physical Society presented nine awards in London on 4 May.

The Guthrie Medal and Prize went to J. A. Ratcliffe, formerly of the Radio Research Station, for his contributions to radio physics and to the physics of the upper atmosphere. The Glazebrook Medal and Prize was presented to F. E. Jones, of Mullard Ltd, for his applications of semiconductor physics and for management in a physics-based industry. G. C. Wynne, of Imperial College of Science and Technology, received the Thomas Young Medal and Prize for his work on the design of complex lens systems and other optical devices. The Maxwell Medal and Prize went to J. B. Taylor, of the Culham Laboratory of the UK Atomic Energy Authority, for his contributions to the theory of the dynamics of high-temperature magnetized plasma.

Also receiving awards were D. G. King-Hele, of the Royal Aircraft Association, with the Charles Chree Medal and Prize for his work on satellite orbits. For their development of the high-voltage electron microscope, V. E. Cosslett and K. C. A. Smith, both of the University of Cambridge, were jointly awarded the Duddell Medal and Prize. The Charles Vernon Boys Prize for experimental contributions to x-ray interferometry was granted to M. Hart of the University of Bristol. G. R. Noakes, formerly of Uppingham School, received the Bragg Medal and Prize for his "contributions to the development of new approaches to the teaching of physics, particularly through the medium of textbooks." And R. E. Apfel, of Harvard University, received the A. B. Wood Medal and Prize for his work on cavitation.

Daniel Zaffarano, chairman of the physics department and division chief for the Ames Laboratory, has been appointed vice-president for research and dean of the graduate college at Iowa State University. The Iowa State Board of Regents has also promoted **Clayton Swenson**, senior physicist and assistant division chief of Ames Laboratory, to head of the Iowa State Univer-

Named as assistant professor at the University of Utah were **Bill Sutherland** and **Richard H. Price**.

Promoted to professor at Emory University is **Allen K. Garrison**.

L. X. Finegold has been promoted to associate professor at the University of Colorado.

NOW

a "plug-in, fine-tune, and forget" liquid helium transfer and cooling system.



This Cryo-Tip® refrigerator now makes it possible to transfer liquid helium, cool a sample and control temperature to 0.01°K with one compact, easily-installed system. This device has its own micrometer needle valve and heater for precise adjustment from 2°K to 300°K. Its six-foot flexible line and miniature refrigerator allow quick installation and cooldown in all analytical instruments. Your sample can be held in any orientation. Cumbersome set-up and filling of research dewars can be forgotten. Get all the detailed facts on Model LT-3-110 for your particular application. Air Products and Chemicals, Inc., Advanced Products Department, Allentown, Pa. 18105. Telephone (215) 395-8355.



Air Products

Circle No. 41 on Reader Service Card

PHYSICS TODAY / AUGUST 1971