

PHYSICS COMMUNITY

Introductory Undergraduate Award will recognize work by an AAPT member who has contributed to physics education at the college level, including two-year colleges. Award recipients are to be individuals whose primary responsibility is teaching.

Each recipient will give an invited lecture at an AAPT summer meeting and will receive a certificate and a cash award of \$1000.

WEART WINS GEMANT AWARD

Spencer Weart, director of the Center for History of Physics at the American Institute of Physics since 1974, won AIP's 1994 Andrew Gemant Award. Weart was cited for "his success both in interpreting physics to the public as well as enlightening the community of physicists and other scholars regarding the cultural aspects of our science." He was cited too for his leadership as "the superb director" of the CHP and for writing numerous articles and two books that the award committee—headed by Freeman Dyson of the Institute for Advanced Study—called "standard references": *Scientists in Power* (Harvard University Press, 1979) and *Nuclear Fear: A History of Images* (Harvard University Press, 1988).

Weart received his BA in physics from Cornell in 1963 and his PhD in physics and astrophysics from the University of Colorado at Boulder in 1968. From 1971 through 1974 he completed a program of graduate study in history at the University of California at Berkeley.

The award, a legacy of the multifaceted physicist who died in 1983, includes a \$5000 prize and a \$3000 grant to a US academic physics department chosen by the awardee. Weart donated his grant to the University of Maryland for a lecture series, "Physics and the Cold War."

IN BRIEF

Hampton University in Virginia is now home to the Center for Fusion Research and Training, said to be the first such center at a historically black college or university. Funding comes from a three-year, \$1.6 million grant from the US Department of Energy's Office of Fusion Energy. Initially the center will do theoretical and computational fusion research, with experimental work to be added later. Alkesh Punjabi, a math professor at Hampton, is the center's director. ■

American Vacuum Society Classics

Series editor, H. Fredrick Dylla

Of the many early publications in vacuum science and technology, only a select group have attained the status of "classic." Now, to commemorate its 40th anniversary, the AVS has commissioned the reprinting of these seminal works. This series makes accessible important books from the last four decades—books that continue to have a significant impact to this day.

VACUUM TECHNOLOGY AND SPACE SIMULATION

David H. Holkeboer, Donald W. Jones, Frank Pagano, and Donald J. Santeler

While specific projects have changed in the 30 years since this book was first published, the need for large, complex vacuum facilities has not. And despite new developments in pumping, measurement, and outgassing, this book will remain, for many years to come, the standard of practical vacuum operation.

1993 (originally published 1967), 339 pages, illustrated
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Robert Gomer

This authoritative work is based on four lectures presented at Harvard in 1958. When it was written, field emission was one of the few techniques available for surface studies, and the attainment of ultra-high vacuum was a little-known art. Though more sophisticated treatments have since been developed, Gomer's pioneering work remains extremely relevant to this day.

1993 (originally published 1961), 195 pages, illustrated
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HANDBOOK OF ELECTRON TUBE AND VACUUM TECHNIQUES

Fred Rosebury

This reference work was originally prepared to provide workers with a single source for learning the procedures and materials needed to construct tubes and other evacuated devices. Even now, as space and high-vacuum research yield new information daily, much of the subject matter in this seminal work—such as properties of materials—is as cogent as it was when the book first appeared.

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P.A. Redhead, J.P. Hobson, and E.V. Kornelsen

This book explains both the design and use of UHV systems and components, as well as the underlying physical principles on which their performance depends. The close association of these underlying physical principles with the practical problems inherent in UHV equipment makes this a fundamental resource, still sought after by today's researchers.

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