

the physics community

Kenneth Davis elected AAPT vice-president

The vice-president of the American Association of Physics Teachers for 1974 is Kenneth E. Davis, chairman of the physics department of Reed College in Portland, Oregon. Davis replaces Janet Guernsey of Wellesley College, who becomes AAPT president-elect. Sherwood K. Haynes has assumed the Association's presidency.

Davis has been a member of the faculty at Reed College since 1948, when he completed his PhD at the University of Rochester. Throughout his professional career he has worked for improvements in the teaching of high-school and college physics. Among his activities in this area are his service as a council member of the Pacific Northwest Association for College Physics, which he helped found; his work as director and participant in the AAPT Visiting Scientists Program in Oregon, and his membership on the Commission for College Physics (1962-66). He is also a past president and was for many years national council representative of the Oregon section of AAPT. Davis's research interests include electronics, spectroscopy, energy levels of nuclei, radiation dosage monitoring, angular distribution of inelastic scattering of protons by light nuclei, cosmic rays, solid-state physics and luminescence.

Marian N. Whitehead, chairman of physics department at the State University of California, Hayward, has been elected AAPT treasurer. She holds a PhD from the University of California (1952).



DAVIS

Other newly elected officers include Robert L. Henry, of Wabash College, elected a member of the Executive Board; William C. Kelly, of the Office of Scientific Personnel, National Research Council, elected to the Council on Physics in Education; Harold A. Daw, of New Mexico State University, the Committee on Apparatus; Robert G. Fuller, of the University of Nebraska, Lincoln, the Committee on Instructional Media; Francis E. Dart, of the University of Oregon, the Committee on International Education in Physics; Walter E. Massey, of Brown University, the Committee on Physics in Higher Education (three-year term); Jack C. Miller, of Pomona College, the Committee on Physics in Higher Education (two-year term); John W. Layman, of the University of Maryland, College Park, the Committee on Physics in Pre-College Education; Bill G. Aldridge, of Florissant Valley Community College, St. Louis, Mo., the Committee on Physics in Two-Year Colleges; and Delbert L. Rutledge, of Oklahoma State University, the Committee on Science Education for the General Public.

APS science fellowships in Congress to continue

The American Physical Society will continue its Congressional Science Fellowship Program (CSFP) for at least one more year. Two physicists will be chosen to work for a year in the offices of senators, representatives or as staff members of congressional committees beginning in the fall of 1974.

CSFP is operated in conjunction with the congressional fellowship program of the American Association for the Advancement of Science, but each organization is responsible for the recruitment, selection and financial support of its own fellows. The AAAS will provide an orientation program and undertake general supervision of the fellows during their year in Washington.

The prospective fellow should show both exceptional competence in some particular area of physics as well as a broad background in science and technology in general; he should be articulate and able to work efficiently with many types of people, and he should have a strong interest in applying his knowledge to the solution of social problems. Candidates should send a resume and three letters of reference from individuals familiar with their abilities in physics and in other pertinent areas to Sidney Millman, Director

of Special Projects, American Physical Society, 335 East 45th Street, New York, N.Y. 10017, by 1 April.

Candidates for AAAS fellowships should write to Richard Scribner, Director AAAS Congressional Scientists-Fellow Program, Department S, 1776 Massachusetts Ave, NW, Washington, D.C. 20036. The deadline for AAAS applications is 5 April.

ACA chooses Burbank as vice-president

The American Crystallographic Association recently elected a vice-president and a treasurer. Robinson D. Burbank has succeeded Edward C. Lingafelter of the University of Washington as vice-president, and Charles N. Caughlan will begin a three-year term as treasurer in July, succeeding Henderson Cole of the IBM Research Center in Yorktown Heights, N.Y. Lingafelter has assumed the presidency of the Association.

Burbank has been a member of the technical staff at Bell Laboratories for the past 18 years. After completing his PhD at the Massachusetts Institute of Technology in 1950, Burbank worked for the Carbide & Carbon Chemical Co and Olin Industries, Inc prior to joining Bell Labs. He was a member of the US National Committee for Crystallography during 1968-70 and 1971-73, and he served as treasurer of the Association from 1965 to 1968. His main areas of research are x-ray crystallography of inorganic compounds, interhalogen compounds, noble-gas compounds and phase transformations.



BURBANK

Caughlan is head of the chemistry department at Montana State University. He received his doctorate at the University of Washington in 1941.

Page size of five AIP journals will increase

An increase in the page size of five journals, one of several changes to be made by AIP's Publications Division in 1974, will result in lowered publication charges to authors. The division also plans to resume translation and publication of *Acta Physica Sinica*, a Chinese physics journal that has not appeared since the Cultural Revolution in 1966.

The new trim size for AIP-published journals ($8\frac{3}{4} \times 11\frac{1}{4}$ in.) should result in a reduction of the total publication charge to authors of about 10%, even though the publication charge per page will remain the same, according to A. W. Kenneth Metzner, director of the division. Several additional journals have already adopted the new format (see **PHYSICS TODAY**, March 1972, page 104). In addition, the *Physics of Fluids* and *Reviews of Modern Physics*

have been provided with newly designed covers.

Chinese publication of *Acta Physica Sinica*, which AIP published in translation up to 1966, is to be resumed sometime in 1974. At the present time inquiries and requests for subscriptions are not solicited.

Other changes include a switch to typewriter composition of the *Journal of Chemical Physics* (started in July 1973) and the *Journal of the Acoustical Society of America*, and to computer photocomposition of the *Physics of Fluids* and *Reviews of Modern Physics*.

As of September 1973 all staff and services of AIP's Information Services Division were incorporated into the Publications Division.

AAPT publishes guide to teaching innovations

The American Association of Physics Teachers has published a three-volume set of *Guides to Innovations in Physics Teaching*. The *Guides* contain a total of 1400 entries giving brief descriptions of college-teaching innovations, names and addresses of innovators, references

to useful texts or journals, and comments on the success of each project.

Nontraditional Formats, the first volume, lists self-paced courses, courses based on the Keller Plan, others based on audio-tutorial materials or lab-oriented instruction, and several minicourses.

The second volume, *Courses for Nonscientists*, contains information on courses dealing with physics in relation to nontechnical fields, such as the environment, the social sciences and the humanities.

Volume three, *Courses for Majors*, intended primarily for physics and science majors who are taught in relatively traditional formats, stresses innovations in such areas as course content, laboratories, use of media and computers, interdisciplinary courses, science teacher preparation and departmental curricula.

The *Guides* are available for \$2.00 per volume, plus a \$1.00 handling charge if billing is required, from the AAPT Publications Dept., Drawer AW, Stony Brook, N.Y. 11790. Suggestions for contributions to the next edition of the *Guides* should go to the same address.

Materials science

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study notes that "the United States is very strong in materials science and engineering, but certain weaknesses, if unattended to, could progressively erode the nation's ability to meet the materials needs of its people. These weaknesses are due in part to the diffusion of responsibility for materials plans and programs at the federal level." The first order of business at the highest levels of government, then, Chynoweth feels, "is to see that materials, from fundamental research through applications, receive the same level of attention and the same effort to develop policy as energy is receiving now."

—RAS

Advanced energy research division formed in RANN

A Division of Advanced Energy Research and Technology has been formed within the NSF RANN Program. Acting director for the division will be Richard J. Green, who also continues as RANN's Deputy Assistant Director for Program Management. Donald A. Beattie, with the Apollo Lunar Exploration Office until coming to NSF in January 1973, will serve as deputy director.

The division will concentrate on research and technology programs in solar and geothermal energy, energy resources, energy conversion and fuel transportation, all of which formerly were administered in the Division of Advanced Technology Application.

in brief

Science Council of Canada Special Study 28, *Education and Jobs*, is available from Information Canada, Ottawa, Ontario, Canada for \$2.25.

The National Science Foundation is offering about 50 faculty fellowships to help teachers broaden their perspective in the application of science to societal problems. For applications write to the Faculty Fellowship in Science Program, Division of Higher Education in Science, National Science Foundation, Washington, D.C. 20550. The deadline for applications is 1 April.

Short, instructional films can be purchased from the Film Repository of the American Association of Physics Teachers. At present 49 films that range in length from two to five minutes are available, including seventeen illustrating specific physical concepts. Each film comes in one format—either super 8-mm cartridge or

16-mm reel—and is accompanied by detailed notes. The Repository also welcomes the submission of appropriate films. For information write to AAPT Film Repository, Drawer AW, Stony Brook, N.Y. 11790.

The Edward Teller Center for the Advancement of Science, Technology and Politics has been established at the University of Colorado.

A Society of Physics Students *Chapter Resource Book*, containing 375 speaker listings, 185 tour listings and 70 film-source listings, has been distributed to all SPS chapters. Primarily intended to help the chapters plan meetings, the book also may be of use to others. It is available from the Society of Physics Students, PO Box 775, Stony Brook, N.Y. 11790, for \$5.00 a copy.

The Acoustical Society of America has established a Silver Medal to be awarded not more than three times a year "for contributions to the advancement of science, engineering or human welfare through the application of acoustic principles, or through research accomplishments in acoustics."

Pramana, a new physics journal, is edited by S. Ramaseshan and will appear monthly. It is available from The Indian Academy of Sciences, Bangalore 560006, India for \$30 (institutions and libraries) or \$20 (individuals) a year. □