



APS-AAPT MEET IN CHICAGO

Highlights include 68 invited papers and special programs on physics employment and on community relations.

At general-interest sessions, papers on Apollo 11 results, molecules in space and nuclear medicine will be given.

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The joint meeting of the American Physical Society and the American Association of Physics Teachers, to be held 26-29 Jan. in the Palmer House, Chicago will feature programs on the nontechnical problems of physicists as well as a full schedule of topical papers, business meetings and awards ceremonies. APS has scheduled a special session on physics and society for Tuesday evening; AAPT has organized a panel, to be presided over by Melba Phillips, that will discuss the physics employment situation. "Impedance matching" lectures, designed to help students understand the topical papers, have been organized by the Society of Physics Students.

The APS schedule includes 62 invited and 528 contributed papers; last year there were 83 invited papers and 695 contributed papers. AAPT will have six invited and 40 contributed papers. Each APS division chairman was asked to organize an invited-paper session that would be of interest to all physicists rather than only to members of the division. Two of these sessions will be space-science related; one offers Gerald J. Wasserburg's report on work done with moon rocks from Apollo 11, and the topic of the second is molecules in space.

Other general sessions will feature nuclear physics in medicine and industry, theoretical particle physics (with a paper by Yoichiro Nambu, winner of the Heineman prize), topics in plasma physics, geophysical fluid dynamics and gravitational waves. Invited papers are listed in the box on page 54.

Ceremonies and citations

The ceremonial session of the combined societies takes place Tuesday afternoon. At this time the new APS president, Edward M. Purcell, and the new AAPT president, Robert N. Little, will be installed. Outgoing APS president Luis Alvarez will speak on "Recent Advances in Particle Physics." Stanley Ballard, chairman of the AAPT awards committee, will present the Oersted medal to Harvard's Edwin C. Kemble. Arthur S. Schawlow of Stanford has been chosen to deliver the 29th Richtmyer lecture; his speech title is "Is Spectroscopy Dead."

The APS Dannie Heineman Prize is to be awarded to Yoichiro Nambu of the Fermi Institute, Chicago. Nambu will receive his prize from Alvarez on Wednesday evening at the joint APS-AAPT banquet. Six distinguished service citations are to be given out Thursday morning at the AAPT busi-

ness meeting; Earl G. Albert (Wisconsin State University) Albert A. Bartlett (University of Colorado), E. Leonard Jossem (Ohio State University), Ralph W. Lefler (Purdue University), J. Irwin Swigart (University of Utah), and Elizabeth A. Wood (Bell Telephone Laboratories, retired) will receive these from Ballard. Walter Sullivan, science editor of the *New York Times*, is to be the after-dinner speaker. He will speak on "Science Communications."

As 26 Jan. nears, there are still several opinions on whether a large number of physicists will indeed boycott the meeting. Many physicists had urged that, because of the events on August 1968, Chicago was an inappropriate city for the APS-AAPT annual meeting (PHYSICS TODAY, November 1968, page 9). Last April, however, a majority of AAPT and APS members voted against moving the annual meeting from Chicago.

Although very few physicists are willing to predict whether or not a large-scale boycott will take place, a prevalent opinion among those APS members originally opposed to the Chicago meeting is that it is probably more useful to attend and try to influence the society than it is to boycott a

meeting whose location has already been approved by membership vote. At Cornell and the University of Minnesota, for instance, where there was widespread support last spring for petitions to move the annual meeting, there is no longer much interest in the boycott as an issue.

William W. Havens, APS executive secretary, notes that while many of the members most opposed to a Chicago meeting are in the division of particles and fields, the number of papers in particle physics has increased. Registered attendance, according to Havens, will be about 3500. This is a drop from the 7442 registrants last year in New York and the 4338 two years ago in Chicago. It is difficult, however, to separate those who have decided to boycott the meeting from

those whose travel funds have been cut. Havens noted that lack of travel funds has affected his own laboratory staff at Columbia University.

Physics and society session

The APS special session on physics and society, which takes place in the State Ballroom at 8:30 Tuesday evening, was organized by Murray Peshkin, who is the regional secretary of APS for the central states. (The APS Committee on the Problems of Physics and Society, organized several months ago, has not had sufficient time to prepare a program for the meeting. Albert M. Clogston, its chairman, agreed that a smaller program organized locally by Peshkin, would be more effective at this time.)

Speakers at the Tuesday evening

session will be Julian Levi and Edwin L. Goldwasser. Levi is a professor of urban studies at the University of Chicago and director of the Southeast Chicago Commission, and he has been involved in handling relations between the university and surrounding communities. Goldwasser is associate director of the National Accelerator Laboratory in Batavia, Ill. He and the NAL director, Robert R. Wilson, have made a special effort to involve local residents, particularly poorer ones, in the laboratory and in its construction. Kennard Williams, head of the NAL Equal Opportunity and Community Relations Office, and instrumental in establishment of the exceptional program at NAL, will accompany Goldwasser Tuesday evening and will be available to talk with

INVITED PAPERS

Monday A.M.

- APS CHEMICAL PHYSICS: Molecules in space
G. Herzberg, C. Townes, P. Palmer
SOLID STATE PHYSICS: Superconductivity
P. C. Hohenberg, R. D. Parks, W. W. Webb, J. W. Garland
NUCLEAR PHYSICS: Capture gamma rays
G. T. Emery, R. Sheline, B. J. Allen, L. Bollinger

Monday P.M.

- APS NUCLEAR PHYSICS: Impact of nuclear physics on medicine and industry
G. L. Brownell, E. Creutz, R. J. Shalek, J. Silverman
PARTICLES AND FIELDS: Theoretical particle physics
L. M. Jones, D. Horn, Y. Nambu, A. Salam
CHEMICAL PHYSICS: Light scattering from liquids
H. Cummins, B. Chu, Y. Yeh, T. Greytak

- APS Business meeting 5 P.M.

- AAPT Physics in high-school before grade twelve
P. Youngner, M. C. Bolen, S. Githens

Tuesday A.M.

- APS PLASMA PHYSICS: Topics in plasma physics
R. M. Sinclair, R. M. Patrick, C. W. Nielson, R. A. Stern
FLUID DYNAMICS: Geophysical fluid dynamics
J. E. Cermak, O. Phillips, D. K. Lilly, G. Carrier, J. B. Workman
SOLID STATE PHYSICS: Magnetic semiconductors
C. Pidgeon, J. B. Goodenough, S. B. Berger, T. Kasuya
AAPT COMMISSION ON COLLEGE PHYSICS
B. G. Aldridge, G. L. Appleton, R. W. West, J. M. Fowler

Tuesday P.M.

- APS JOINT CEREMONIAL SESSION
AAPT L. W. Alvarez, R. Geballe, S. Ballard, E. Kemble, A. Schawlow, E. M. Purcell, R. N. Little
APS SPECIAL SESSION ON SCIENCE AND SOCIETY
E. M. Purcell, J. Levi, E. L. Goldwasser

Wednesday A.M.

- APS COSMIC PHYSICS, PARTICLES AND FIELDS: Gravitational waves
J. Weber, R. K. Sachs, J. A. Wheeler, K. S. Thorne
PLASMA PHYSICS: Plasma containment
R. A. Dandl, T. Ohkawa, H. Weitzner, F. H. Coensgen

Wednesday P.M.

- APS SOLID STATE PHYSICS: General interest
E. E. Salpeter, G. J. Wasserburg
FLUID DYNAMICS: Size effects and fluctuation in superfluid helium
I. Rudnick, H. A. Notarys, J. D. Reppy, R. J. Donnelly
SOLID STATE PHYSICS
Transport properties of metals
D. L. Weaire
AAPT ASPECTS OF THE EMPLOYMENT SITUATION FOR PHYSICISTS
M. Phillips, A. A. Strassenburg, J. R. Wayland, R. W. Stagat, J. K. Wolfe
APS JOINT BANQUET
AAPT Y. Nambu, W. Sullivan

Thursday A.M.

- APS COSMIC PHYSICS: Cosmic Rays
P. B. Price, W. A. Fowler, G. M. Frye Jr, D. D. Clayton
NUCLEAR PHYSICS: Mesonic x rays
H. L. Anderson, M. Y. Chen, R. E. Welsh
PARTICLES AND FIELDS: Weak interactions
R. Winston, O. E. Overeth, R. G. Sachs, R. J. Oakes
SOLID STATE PHYSICS: Electronic structure of metals; critical phenomena
P. A. Schroeder
PARTICLES AND FIELDS: Business meeting (11:30)
AAPT GENERAL SESSION:
F. Reif, E. J. Montague, B. L. Donnally
Business Meeting R. Geballe, R. M. Grant, S. S. Ballard, E. G. Albert, A. A. Bartlett, E. L. Jossem, R. W. Lefler, J. I. Swigart, E. A. Wood

Thursday P.M.

- APS COSMIC PHYSICS: Neutron stars
M. Ruderman, D. Arnett, V. Canuto, P. Goldreich
PARTICLES AND FIELDS: Experimental particle physics
G. Wolf, B. Margolis, E. G. Pewitt, A. Roberts
SOLID STATE PHYSICS: Lattice dynamics and ultrasonics
S. A. Solin

members of the audience who would like to establish community-involvement programs at their own laboratories.

At the request of AAPT, Arnold A. Strassenburg, who heads the American Institute of Physics Education and Manpower division, has organized an employment-situation session that will take place in the State Ballroom Wednesday afternoon. He expects the program to provide a means of airing the differing viewpoints that physicists hold about difficulties in finding suitable jobs and about the ways in which AIP can and cannot help.

The four speakers each represent a different segment of the physics community. Strassenburg will present the AIP view of its role, J. Robert Wayland, an organizing member of the American Physicists Association (PHYSICS TODAY, November, page 65), will discuss what he believes to be the causes and solutions of physics-employment problems. Robert W. Staggat, the third panelist, is a young physicist who has recently obtained a PhD, and he will recount the experiences he has had looking for an appropriate job. John K. Wolfe, fourth member of the panel, is manager of university relations for General Electric Company research and development center in Schenectady. Wolfe, whose job is to help decide how many physicists GE needs, will discuss changing employment patterns.



EDWARD M. PURCELL, new APS president, is professor of physics at Harvard. Purcell, who won the 1952 Nobel prize, succeeds Luis Alvarez.



ROBERT N. LITTLE, professor at the University of Texas, Austin, is the new AAPT president. Little, a spectroscopist, succeeds Ronald Geballe.

Strassenburg expects discussion both among the speakers and between speakers and audience.

AIP Staff to Provide Services

Margot Breslaw, head of the AIP Placement Office, will provide a register to match the qualifications of physicists with employer requirements. Two years ago there were 192 employers and 984 job-seekers; last year 167 employers and 1285 job-seekers registered.

The AIP advertising staff, led by Edward Greeley, have organized their

18th annual show, which can be found on the third and fourth floors of the Palmer House. The show features research instruments, teaching materials, books and periodicals. About 125 companies have rented 184 booths; exhibit hours are 9 a.m. to 6 p.m. Monday through Wednesday.

Eugene Kone and Audrey Armstrong of AIP public relations will run the pressroom at the meeting. Here science writers can interview authors of those papers that interest them. The office will also distribute meeting news to the press.

AWARDS



YOICHIHIRO NAMBU is winner of the APS Heineman award. A solid-state theorist, Nambu spent two years as a member of the Institute for Advanced Study at Princeton and is now professor at the Fermi Institute, Chicago.



EDWIN C. KEMBLE, who is the AAPT Oersted medalist, was chairman of the Harvard physics department until he retired in 1957. A theoretical physicist, Kemble is author of a standard quantum-mechanics textbook.



ARTHUR SCHAWLOW, physics head at Stanford, will deliver the AAPT Richtmyer lecture. A spectroscopist, Schawlow has most recently been interested in lasers. Among his honors is the Young medal of the Physical Society.