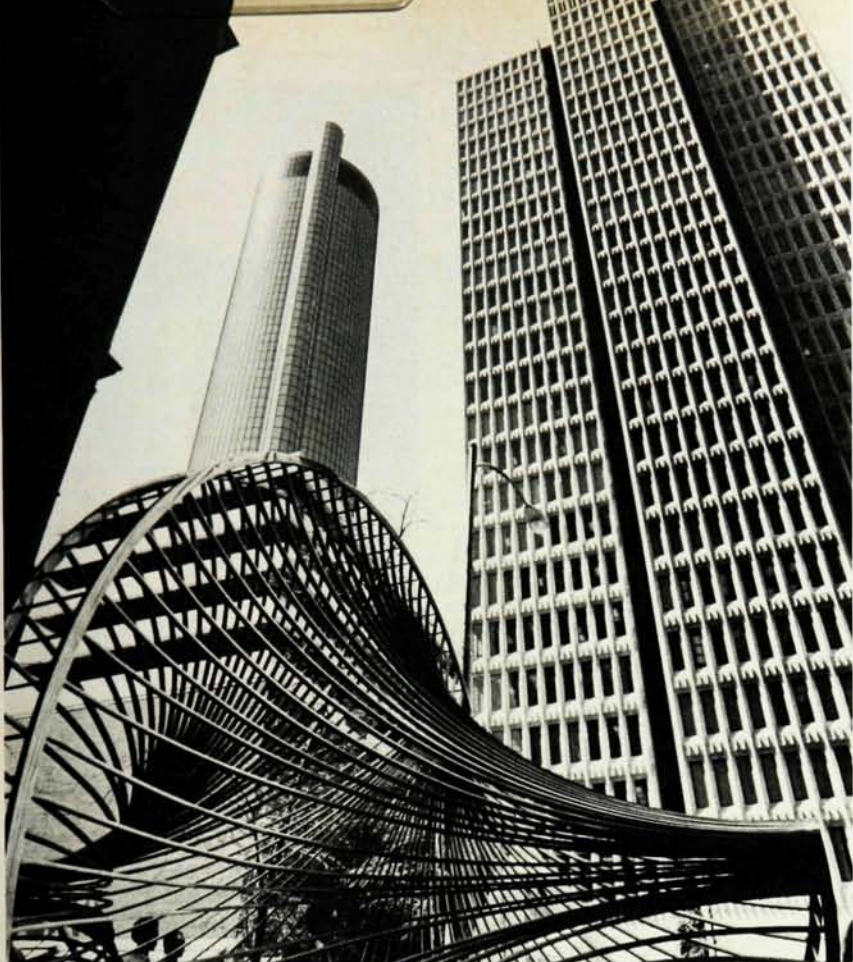




AAPT and APS meet in Atlanta

Symposia on a wide variety of topics in research, education and social issues will highlight the 1986 joint meeting.

The American Association of Physics Teachers and The American Physical Society will hold their annual joint meeting in Atlanta this year on 27-30 January. The Atlanta Marriott Downtown, which will serve as convention headquarters, is within walking distance of Atlanta's Peachtree Center, a large complex of hotels, office buildings, shops and restaurants. Registration for the meeting will take place on Monday, 27 January, from 7 am to 4 pm, Tuesday from 7 am to 4 pm, Wednesday from 7:30 am to 2 pm, and Thursday from 8 am to 10 am.

Ceremonial session

The ceremonial session will be held on Tuesday afternoon. The American Physical Society will present the 1985

Apker Award to Julia Wan-Ping Hsu, currently a graduate student at Stanford University (see page 103).

The American Association of Physics Teachers will present two awards. Stanley Ballard (University of Florida) will receive the Oersted Medal for his contributions to physics and to physics education. Ballard received his PhD in 1934 from the University of California. He remained there as a research assistant from 1934 to 1935, and then joined the physics faculty of the University of Hawaii. In 1941 Ballard became professor of physics and chairman of the department at Tufts University. He left Tufts in 1954 to become a research physicist at the Scripps Oceanographic Institution of the University of California, and in 1958 moved to the Universi-

ty of Florida in Gainesville as professor of physics and chairman of the physics and astronomy department. Concurrently with these appointments Ballard directed the university's division of physics and mathematical science in 1968-71. In 1978 he was named Distinguished Service Professor of Physics. Ballard was president of the Optical Society of America for 1963, and president of AAPT for 1968-69.

Leon Lederman (Fermilab) will present the Richtmyer Lecture, "Particles, unification and the unity of physics." Lederman received his PhD from Columbia University in 1951. Afterward he remained at Columbia, becoming a full professor in 1958. Concurrently, he was associate director of Nevis Laboratories for 1953-61. He served as director of Nevis from 1962 until 1979, when he became director of Fermilab. Lederman has made extensive studies of the physical properties of mesons, muons, neutrinos and the more massive particles, as well as studying the associated acceleration and detection technologies.

The societies will sponsor a joint reception on Monday evening at 6 pm, to be followed by an open house at the Fernbank Science Center. Open houses will also be held on Sunday at the Atlanta Marriott Downtown by the AAPT committees for women in physics, minorities in physics education, two-year-college teachers, high-school teachers and physicists in international education.

Special sessions

Plenary sessions will highlight the symposia on new nuclear-research facilities in the Southeast (sponsored by the APS Division of Nuclear Physics), on nonlinear systems and deterministic chaos, on the physics of quasi-two-dimensional materials and on physics in medicine. The Division of Nuclear Physics is one of three APS divisions that will host symposia: The Division of History will offer a symposium on the history of physics education, and the Division of Plasma Physics will offer one on tokamak technology.

Topical conferences will be held on the structure, composition and electrical properties of III-V and II-VI compound semiconductors and on chaos in physical systems. The APS Forum on Physics and Society will hold a symposium on energy technology and risk. Other symposia at the meeting will discuss a variety of physics-research



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and educational topics, such as methods of teaching precollege physics and use of computers as instructional aids.

AAPT has arranged workshops on several topics, including the following: laboratory interfacing with the IBM

personal computer, Apple II game-port interfacing, Apple assembly language and animation, teaching astronomy and relativity, the physics of toys on Earth and in space, teaching physics with the LOGO computer language, laboratory experiments using microcomputers, cartooning and chalkboard techniques, producing and using videotapes in physics curricula, video laser discs and interfacing with microcomputers, and developing student confidence in physics.

Placement center and physics show

The American Institute of Physics will again maintain a placement center for individuals attending the meeting. Its hours will be Monday through Wednesday from 8 am to 5 pm and Thursday from 8 am to noon. Persons wishing to arrange interviews with companies whose representatives are attending the meeting may contact Beverly Citrynell at AIP, 335 East 45th Street, New York, NY 10017.

The American Association of Physics



BALLARD

Teachers will manage the 34th Annual Physics Show of scientific apparatus and publications. The show's hours will be Monday, 7:45 am to 3:30 pm; Tuesday, 7:45 am to 2 pm and 4 pm to 6 pm; and Wednesday, 7:45 am to 3 pm. □

Invited papers and special sessions

SATURDAY

- AAPT workshop: Laboratory interfacing the IBM-PC
- AAPT workshop: Apple II game-port interfacing
- AAPT workshop: Apple assembly language and animation
- AAPT workshop: Exciting and motivating activities in astronomy education

SUNDAY

morning

- AAPT workshop: How to teach relativity in high school
- AAPT workshop: The physics of toys on Earth and in space
- AAPT workshop: Teaching physics with the LOGO computer language
- AAPT workshop: Apple II game-port interfacing
- AAPT workshop: Lab experiments using microcomputers

afternoon

- AAPT workshop: Cartooning and chalkboard techniques
- AAPT workshop: Producing and using videotapes in physics curricula
- AAPT workshop: Video laser discs and interfacing with microcomputers
- AAPT workshop: Developing student confidence in physics

MONDAY

morning

- Symposium of the Committee on Education: Precollege physics education I. *E. H. van Zee, A. P. French, M. Marin, B. Z. Shakhashiri*
- Symposium on advanced computer concepts: Applications to physics education. *R. E. Swanson, R. G. Fuller, G. S. Novak Jr, B. Y. White*
- Symposium of the Topical Conference on III-V and II-VI Compound Semiconductor Surfaces: Structure, Composition and Electrical Properties: Growth of III-V and II-VI semiconductors. *H. Morkoc, C. J. Summers, J. M. Ballantyne*
- Plenary session: Symposium of the Division of Nuclear Physics: New nuclear research facilities in the Southeast. *F. L. Gross, L. L. Riedinger, J. D. Fox*

afternoon

- Symposium of the Topical Conference on III-V and II-VI Compound Semiconductor Surfaces: Structure, Composition and Electrical Properties: Characterization. *J. Woodall, B. D. McCombe, R. N. Thomas*
- Computers in the physics laboratory. *M. Budd-Rowe, R. K. Thornton, A. Naiman*
- Symposium of the Committee on Applications of Physics: Aspects of physics and music. *A. H. Benade, T. D. Rossing, R. A. Moog, G. Weinreich*
- AAPT workshop: Computer telecommunications and the AAPT BBS I

TUESDAY

morning

- Symposium of the Committee on Education: Precollege physics education II. *D. Wint, D. F. Kirwan, A. Moses*
- Symposium of the Topical Conference on III-V and II-V Compound Semiconductor Surfaces: Structure, Composition and Electrical Properties: Device modeling and fabrication. *M. A. Littlejohn, U. Landman, K. R. Elliot*
- Plenary session: Nonlinear systems and deterministic chaos. *A. Pflug, R. U. Sexl, G. Marx, M. Euler, H. J. Scholz*

afternoon

- AAPT awards and ceremonial sessions. *S. Ballard, L. Lederman*

evening

- Symposium of the Forum on Physics and Society: Energy technology and risk. *J. D. Millar, R. Wilson, I. Mintzer, F. R. Mynatt*

WEDNESDAY

morning

- Symposium of the Topical Conference on Chaos in Physical Systems. *J. Wisdom, E. A. Spiegel, F. C. Moon*
- Plenary session: Physics of quasi-two-dimensional materials. *P. Stiles, M. E. Cage, J. D. Dow*

afternoon

- Symposium on instructional strategies based on pedagogical research. *P. W. Hewson, J. Grumbacher, P. Signell, E. Feher*
- Symposium of the Division of History of Physics: The history of physics education. *K. Olesko, S. Goldberg, J. Rigden*
- Symposium of the Division of Plasma Physics. *D. D. Schuresko, W. M. Stacey Jr, S. D. Scott, D. G. Swanson*
- Symposium of the Topical Conference on Chaos in Physical Systems. *T. Bohr, N. H. Packard, H. L. Swinney*

THURSDAY

morning

- Symposium on recent results in theory. *A. Z. Msezene, S. Mtingwa, W. B. Pollard, S. A. Jackson*
- Symposium on sports and science. *J. M. Zayas, P. J. Brancazio, H. Bordy, H. Head*
- Symposium of the Topical Conference on Chaos in Physical Systems. *N. B. Abraham, P. W. Milonni, R. F. Fox, J. Eidson*
- Plenary session: Physics in medicine. *R. T. Verrillo, P. Sprawls, G. T. Barnes*

afternoon

- Symposium of the Topical Conference on Chaos in Physical Systems. *H. M. Gibbs, W. P. Reinhardt, J. E. Bayfield*