

AMERICAN PHYSICAL SOCIETY MARCH MEETING TO BE HELD IN PITTSBURGH

The American Physical Society will hold its 1994 March meeting in Pittsburgh, Pennsylvania, from Monday, 21 March, through Friday, 25 March. The David L. Lawrence Convention Center will host most of the technical and poster sessions as well as the APS physics show; other sessions will take place at the Vista Hotel and the Westin William Penn Hotel.

By tradition, the March meeting provides an extensive review of the latest developments in condensed matter physics and related fields—and this year's event is no exception. Billed as the "largest physics meeting to date," the gathering will feature more than 550 invited presentations, 4350 contributed papers and 200 poster sessions. Among the APS divisions being represented at the meeting are biological physics, chemical physics, condensed matter physics, high-polymer physics and materials physics.

Several sessions are intended to be of general interest. On Tuesday morning the committee on applications of physics is sponsoring a session on the communications highways of the future. That evening,

physics from India will be featured in a joint symposium of the forum on international physics and the American chapter of the Indian Physics Association. Also on Tuesday evening, the committee on applications of physics is sponsoring a session on business aspects of superconductivity, and the topical group on instrumentation and measurement science is holding a session on nuclear weapons dismantlement and waste disposal instrumentation.

The job market, which remains an area of much concern for physicists, will be addressed in several ways at this year's meeting. On Sunday, 20 March, APS and AIP will hold two free career workshops for graduate students, postdocs and anyone else interested in new job opportunities. Each three-hour workshop will cover basic job-search techniques, such as networking, interviewing and researching prospective employers. On Tuesday afternoon the forum on physics and society is sponsoring a symposium on employment issues for physicists. In addition AIP will run a job placement center, which will be open 9 am to 5 pm Monday through

Wednesday and 9 am to noon on Thursday.

On Wednesday APS will hold a daylong program for local high school teachers and their students. The Future Scientist Day will feature lectures on the scanning tunneling microscope, computer simulations and space-based experiments. That same day a group of 6th-grade students from Pittsburgh will participate in Project SEEP—Students to Explore and Experience Physics. Sponsored by AIP, the morning program will include physics demonstrations and other activities.

Prizes and awards

APS will honor the achievements of 14 individuals during the ceremonial awards session, to be held on Monday at 5:30 in the convention center; following the ceremony, at 6:30, APS will hold a reception and cocktail party. Throughout the week, prize and award winners will deliver talks on their work.

The Biological Physics Prize will be shared by **Robert S. Knox**, a professor in the department of physics and astronomy at the University

of Rochester, and **Robert M. Pearlstein**, a physics professor at Indiana University-Purdue University, Indianapolis. The two are cited for "pioneering contributions in the application of theoretical physics to understanding the first steps of conversion of electromagnetic energy into chemical energy in photosynthesis, in particular, for elucidating the creation and motion of photosynthetic excitons."

APS will present the Oliver E. Buckley Condensed Matter Physics Prize to **Aron Pinczuk**, a distinguished member of the technical staff at AT&T Bell Laboratories in Murray Hill, New Jersey. Pinczuk was chosen for "pioneering light-scattering studies of low-dimensional electron systems."

This year's John H. Dillon Medal goes to **Scott T. Milner** of Exxon Research and Engineering, in Annandale, New Jersey. The medal citation praises Milner's "outstanding theoretical insights into the behavior of polymer brushes, self-assembling polymer structures and sheared polymer solutions."

Hyuk Yu is the 1994 recipient of the High Polymer Physics Prize. A professor of chemistry at the University of Wisconsin, Madison, Yu is cited for "his outstanding application of optical techniques to the determination of polymer configuration and motion."

Three researchers will share this year's International Prize for New Materials: **Peter Grünberg**, a professor at the Institut für Festkörperforschung in Jülich, Germany; **Albert Fert**, a physics professor at the Laboratoire de Physique Des Solides, Université Paris-Sud; and **Stuart S. P. Parkin**, a research staff member at the IBM Almaden Research Center, in San Jose, California. The three are cited for "their joint discoveries of giant magnetoresistance effects and long-range exchange interactions in layered magnetic structures, leading to new materials useful for applications."

Anant K. Ramdas, a professor of physics at Purdue University, is to

receive the Frank Isakson Prize. Ramdas is being honored for "applying a skillful array of spectroscopic methods to the fundamental study of donor and acceptor levels in semiconductors and their behavior under strain, the magneto-optic properties of dilute magnetic semiconductors using Raman-EPR and Raman-antiferromagnetic-resonance, and the crystal lattice dynamics and phonon dispersion properties in natural and synthetic diamond; and for training students and colleagues in the application of optical methods to basic physical problems in solids."

The 1994 Maria Goeppert-Mayer Award recipient is **Laura H. Greene**, a professor of physics at the University of Illinois, Urbana-Champaign. APS chose Greene for "her work on the physics of novel materials, in particular, studies of the effects of oxygen and atomic substitutions on the physical properties of bulk high-temperature superconductors; and for research on superconductivity proximity effects and tunneling in artificially layered superconducting magnetic and heavy-fermion thin film structures."

William F. Brinkman, the physical sciences research vice president at AT&T Bell Labs in Murray Hill, New Jersey, is the 1994 winner of the George E. Pake Prize. He is being honored for "his outstanding personal research and its extension to leadership in the physical sciences at AT&T Bell Laboratories [and] Sandia National Laboratories, [and] in many national advisory roles during a time of profound change and redirection; also for increasing the value of physical science research and demonstrating this value at the corporate and national level while sustaining an environment where focused creativity can flourish."

C. Bradley Moore, a chemistry professor at the University of California, Berkeley, will receive the Earle K. Plyler Prize. APS is citing Moore for "his use of laser spectroscopy to elucidate the dynamics of chemical reaction and molecular energy trans-

fer processes. His state-resolved studies of unimolecular reactions have tested the fundamental postulates of transition state theory, revealed quantized vibrational motions at transition states and resolved the quantum-statistical fluctuation of rate constants for completely resolved states."

The APS Prize to a Faculty Member for Research in an Undergraduate Institution is being given to **Peter J. Collings**, a physics professor at Swarthmore College. Collings is cited for "his excellent experiments on the optical properties of liquid crystals, and for his skilled direction of undergraduate students at Kenyon and Swarthmore Colleges, who have been given major responsibilities in carrying out this research."

The David Adler Lectureship Award goes this year to **Max G. Lagally**, the E. W. Miller Professor in the departments of physics and of materials science and engineering at the University of Wisconsin, Madison. Lagally was selected for his "outstanding contributions to the fields of surface science and the related field of crystal growth; for his major contributions to the understanding of structural disorder at surfaces, surface phase transitions and diffraction from surfaces; for his major contributions to the development of many of the experimental tools necessary for this understanding; and for his ability to clearly define and conceptualize the issues in these fields and to communicate his ideas and results in a clear and elegant manner."

Meeting services

The APS show, organized by AIP, will feature research instrumentation and publications. Show hours are noon to 6 pm on Tuesday, 10 am to 5 pm on Wednesday and 10 am to 3 pm on Thursday. AIP will also operate a press room during the meeting. Located in room South 7 at the convention center, the press room will be open 8 am to 5 pm Monday through Wednesday and 8 am to noon on Thursday. ■