

WE HEAR THAT

ICTP Dirac Medal Goes to Field Theorists

Frequent collaborators **Peter Goddard** and **David Ian Olive** have shared the rewards of their work by jointly receiving the 1997 Paul Adrien Maurice Dirac Medal of the International Centre for Theoretical Physics. Goddard is the master of St. John's College and a professor of theoretical physics at the University of Cambridge, and Olive is a professor of physics at the University of Wales Swansea.

In announcing the selection of these British theorists on 8 August (Dirac's birthday), ICTP quoted the selection committee: "Goddard and Olive have contributed many crucial insights that shaped our emerging understanding of four-dimensional field theory." In particular, the committee continued, "Goddard's work on quantization of the relativistic string (with J. Goldstone, C. Rebbi and C. Thorn) showed definitively that dual resonance models should be understood as string theories. Olive's work on spacetime supersymmetry of the spinning string theory (with F. Gliozzi and J. Scherk) made possible the whole idea of superstrings."

ICTP also mentioned the theorists' "key ideas about the use of current algebra in string theory" and their contributions to the "second superstring revolution" of the last few years [which has been] equally dependent on pioneering insights about magnetic mo-

nopoles made in 1977 by Goddard, Olive and J. Nuyts, and further extended by Olive and C. Montonen."

Prizes and Awards Given at APS Divison Meetings

The annual meetings of three divisions of the American Physical Society will be the setting for the presentation of several APS prizes and awards.

At the division of laser science meeting this month, **Erich P. Ippen** and **Charles V. Shank** will receive the Arthur L. Schawlow Prize in Laser Science. The two are being cited for "their pioneering work in developing femtosecond sources and for their leadership in applying these sources in broad areas of science." Ippen is the Elihu Thompson Professor of Electrical Engineering and a professor of physics at MIT. Shank is the director of Lawrence Berkeley National Laboratory.

At the annual meeting of the division of plasma physics in November, the James Clerk Maxwell Prize will be presented to **Charles F. Kennel** for "his fundamental contributions to the basic plasma physics of collisionless shocks, magnetic reconnection and quasilinear theory, and to plasma astrophysics—including [studies of] the Van Allen radiation belt and the Crab Nebula." Kennel is executive vice chancellor of the University of California, Los Angeles.

Also at the plasma physics meeting, **Fred M. Levinton** will receive the

Award for Excellence in Plasma Physics Research for "his conception and development of the Motional Stark Effect diagnostic technique for measuring the local magnetic field inside a plasma, providing information critical to understanding magnetic plasma confinement." Levinton is principal scientist and cofounder of Fusion Physics & Technology Inc, based in Torrance, California.

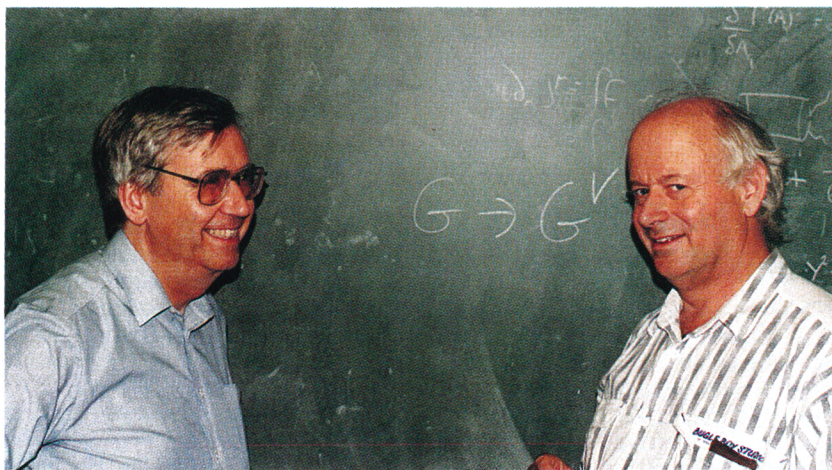
The Outstanding Doctoral Thesis in Plasma Physics Award (formerly the Simon Ramo Award) will go to **Stefano Coda** for his "development and application of phase-contrast imaging techniques to measurements of turbulence in high-temperature plasmas, including critical comparisons to theory and the discovery of radial modes in the plasma edge." Coda received his PhD earlier this year from MIT, where his thesis adviser was Miklos Porkolab, and he now works at the Swiss Federal Institute of Technology, Lausanne.

Two individuals will be honored during the division of fluid dynamics meeting in November. The Fluid Dynamics Prize will be presented to **Louis N. Howard**, professor emeritus at Florida State University. APS is citing Howard for his "seminal theoretical concepts in the theory of turbulence, stability [and] rotating and stratified fluid flows, and other fluid dynamical problems, including [the] upper bounding theory of statistically stationary turbulence, semicircle theorems for the stability of geophysical flows, the spin-up problem and reaction-diffusion and double-diffusion problems."

Marvin E. Goldstein will accept the Otto Laporte Award in recognition of "his seminal theoretical elucidation of the roles of receptivity and nonlinearity in the transition to turbulence of shear flows, for his discovery that capillary force can be the source of absolute instability in a liquid jet, for his lasting contribution to aeroacoustics and rapid distortion theory and for his exemplary roles in the fluid dynamics community." Goldstein is chief scientist at NASA's Lewis Research Center in Cleveland.

Fuller and Metzner Honored by SoR

Gerald G. Fuller, chairman of the chemical engineering department at Stanford University, will receive the



PETER GODDARD AND DAVID IAN OLIVE