

WE HEAR THAT

London Prize to be Presented in Japan

Russell J. Donnelly, Allen M. Goldman, and Walter N. Hardy will receive the Fritz London Prize in Low Temperature Physics this August in Hiroshima. The prize is awarded every three years at the International Conference on Low Temperature Physics.

Donnelly, a professor of physics at the University of Oregon in Eugene, is being recognized for his "contribution to low-temperature fluid dynamics, in particular for his work on superfluid turbulence and for his use of critical helium gas in the study of thermal convection at record high Rayleigh numbers."



DONNELLY



GOLDMAN



HARDY

Goldman is being honored for his "contributions to the physics of superconductors, particularly the discovery of the gapless collective modes, and for his inventive work on superconductor-insulator transitions in ultrathin films." He is an Institute of Technology Distinguished Professor at the University of Minnesota, Twin Cities.

Hardy is being acknowledged for his "contributions in atomic and solid hydrogens and for the elucidation of the d -wave pairing state of the high- T_c superconductor YBCO [yttrium barium copper oxide]." He is a professor of physics at the University of British Columbia in Vancouver.

The cash award of \$21 000 will

be divided equally among the three winners.

NAS Honors Achievements

Fourteen individuals received awards from the National Academy of Sciences at a ceremony held in Washington, DC, in April. The winners included the following six, who work in the physical sciences.

NAS presented the Arctowski Medal, awarded every three years, to **Roger K. Ulrich**, a professor of physics and astronomy at UCLA. He was acknowledged for "recognizing the solar five-minute oscillations as acoustic modes in the solar interior and systematically developing both the theory and the observations to establish today's precise standard model of the solar interior." He received a medal and a cash prize of \$20 000, plus \$60 000 to go to an institution of his choice.

Wallace S. Broecker, Newberry Professor of Earth and Environmental Sciences at the Lamont-Doherty Earth Observatory of Columbia University, won the Arthur L. Day Prize and Lectureship, which is awarded every three years and comes with a cash prize of \$20 000. He was recognized for his "uniquely evocative, creative voice that has fundamentally changed the way we think about the role of oceans in the climate system."

The NAS Award in Applied Mathematics and Numerical Analysis, given every three years, went to **Heinz-Otto Kreiss** for his "seminal contribution to the understanding of differential and difference equations and for his many outstanding contributions to numerical analysis, fluid dynamics, and meteorology." A professor of mathematics at UCLA, he received a cash award of \$10 000.

The NAS Award for Initiatives in Research was bestowed on **Deborah S. Jin**, a physicist with NIST in Boulder, Colorado, for her "experimental realization and characterization of a new quantum system, the vapor-phase degenerate Fermi gas." She received a cash prize of \$15 000 with this award, which is presented annually.

Daniel Kleppner will deliver the Robertson Memorial Lecture, which is

given every three years to a scientist who is invited to lecture on his or her work and its international implications. The Lester Wolfe Professor of Physics at MIT, Kleppner was acknowledged for his "leadership in merging the research fields of atomic physics, quantum degenerate systems, and low-temperature physics." The award carries a cash prize of \$10 000.

NAS presented the G. K. Warren Prize to **Gary Parker** for "rigorous analysis based on fundamental physical principles and laboratory experiments markedly advancing our understanding of sediment transport, river morphology, and channel behavior." An Institute of Technology Distinguished Professor in the civil engineering department at the University of Minnesota in Minneapolis, Parker received a \$10 000 cash prize with the award, which is given every four years.

Canadian Research Institute Honors Young Scientists

To mark its 20th anniversary, the Canadian Institute for Advanced Research (CIAR) will present its Young Explorers Prize this month at a ceremony in Victoria, British Columbia, to the top 20 science and engineering researchers aged 40 and younger working in Canada. The winners will confer with CIAR researchers at the event to discuss the major intellectual questions and challenges of the next 20 years. Of the winners this year, 11 individuals are involved in physics or physics-related research.

The winners include **Matthew Choptuik**, a professor of physics and astronomy at the University of British Columbia in Vancouver; **Janet A. W. Elliott**, an associate professor in the chemical and materials engineering department at the University of Alberta; **Peter Grütter**, an associate professor of physics at McGill University in Montreal; **Eric A. Hessels**, a professor in the physics and astronomy department at York University in Toronto; and **Victoria Kaspi**, an associate professor of physics at McGill.

Other recipients of the award are