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Research Interests

Research efforts center around studies of quantum fluids and solids and glasses at ultra-low temperatures. Current work in quantum fluids and solids includes studies of transport properties in nuclear magnetically ordered solid ^3He , studies of the B phase nucleation in superfluid ^3He , and experimental searches for new magnetically ordered two dimensional phases of both solid and liquid ^3He on graphite surfaces. The work involving glasses is intended to elucidate the nature of two level systems in amorphous materials at ultra-low temperatures, and to develop new low heat capacity/high resolution thermometers for use in the 1 to 10 mK temperature range.

Career History

B.S., 1967, Caltech
Ph.D., 1973, Cornell
Member of technical staff of AT&T Bell Laboratories, 1972-87
Head Solid State and Low Temperature Research Department 1981-87
Professor of Physics and Applied Physics 1987-present
J. G. Jackson and C. J. Wood Professor of Physics
Fellow of the American Physical Society and the American Academy of Arts and Sciences
Member of the National Academy of Sciences
Simon Memorial Prize 1976
Oliver E. Buckley Prize, 1981
MacArthur Prize Fellow, 1981
Walter J. Gores award for teaching, 1991
Co-recipient of the Nobel Prize in Physics, 1996