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In 1988 Don moved to Indiana University as a Professor of Chemistry, where at the time he was the youngest professor in the university. UC Davis recruited him in 1978, where he remained until his retirement in 1994. Don McQuarrie's research interests were in theoretical chemistry, specifically in statistical thermodynamics of electrolyte systems and transport through membranes, stochastic differential equations, and nonlinear dynamical systems.

Donald A. McQuarrie - Academic Senate
Statistical mechanics, one of the pillars of modern physics, describes how macroscopic observations are related to microscopic parameters that fluctuate around an average. It connects thermodynamic quantities to microscopic behavior, whereas, in classical thermodynamics, the only available option would be to measure and tabulate such quantities for various materials. Statistical mechanics is necessary for the fundamental study of any physical system that has many degrees of freedom. The approach

Statistical mechanics - Wikipedia
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