Memorial Resolution
Professor David Lichtman

Professor David Lichtman, a member of the Department of Physics since 1967, passed away at his home in Fox Point on September 11, 1992. He is survived by his wife, Elinor, two sons, Steven and Peter, and a daughter, Aimee Holcomb.

Born in Brooklyn, New York, David received his academic training at C.C.N.Y. and Columbia University. He was a member of Phi Beta Kappa, Phi Kappa Phi, the American Physical Society, the American Vacuum Society, the American Association for the Advancement of Science and the American Association of Concerned Scientists.

In 1971, David was awarded a NATO Senior Fellowship in Science. During the periods 1972-1973 and 1974-1975, he was a Visiting Professor of Physics at Hebrew University, Jerusalem. In 1974, David was invited by the Japanese government to visit and evaluate academic, industrial and governmental surface studies laboratories throughout their country. At that time, he also lectured at Tohuku University, Sendai.

Before coming to U.W.M., David had worked in industry for sixteen years with such organizations as Airborne Instruments Corporation, Sperry Gyroscope Company and the Honeywell Corporate Research Center. During this time he had been an instructor at Adelphi College and was responsible for establishing a fruitful relationship between Adelphi and the Sperry Company.

David was a charismatic, thoughtful and thorough teacher. Students were always one of his primary interests and concern. Although his advanced graduate courses on the experimental aspects of new surface science techniques were constantly in high demand, his favorite classes were for undergraduate students who were not physics majors. He delighted in showing such students how science affected and enriched their lives.

Throughout his academic career, David's research interests were primarily concerned
with the study of solid surfaces at an atomic and molecular level. The originality and importance of David's scholarship were recognized, in part, by the numerous personal grants he received from the National Science Foundation, the Atomic Energy Commission, the Department of Energy, the Electric Power Research Institute, many local companies as well as the Wisconsin Department of Development.

In 1982-83, he served as a National Director of the American Vacuum Society and as a Traveling Lecturer for the A.V.S., he was invited to present innumerabe lectures to academic, industrial and governmental audiences concerned with the production, measurement and utilization of ultra-high vacua in surface science research.

During his tenure at UWM, David was instrumental in the creation of the Surface Studies Laboratory and from 1968 to 1974 served as its Director. He established a world-class surface science research program and worked tirelessly to build strong ties between our University and local industry.

David was the author/co-author of more than 150 articles and under the auspices of the Education Committee of the AVS co-authored the book, *Partial Pressure Analyzers and Analysis* which remains the definitive work in its field. He had been requested to present over 100 invited talks in his area of expertise.

His investigations into the surface properties of air pollution particles, the photodesorption process and the discovery of electron-induced negative ion desorption are among his many salient and valuable contributions to surface science. We are sure, however, that David considered the many graduate students that he helped educate, to be his most significant contribution.

For us, David was a colleague whose integrity and deep intellect were complemented by his warm personality and sense of humor. His concern for the "common good" has resulted in numerous procedures, facilities and conventions from which we have all benefitted and which will have a lasting impact on our Department, its faculty and students.

Moises Levy, Richard McQuistan, N.J. Papastamatiou