

Dale L. Perry, Ph.D., FRSC (London)

Dale L. Perry, Senior Scientist in chemistry,, received his Ph.D. in inorganic chemistry from the University of Houston in 1974. He was a Welch Postdoctoral Fellow from 1975 to 1976 and a National Science Foundation Postdoctoral Fellow from 1976 to 1977 at Rice University.

From 1977 to 1979, he was a Miller Fellow in the Department of Chemistry at the University of California, Berkeley. He has been on the scientific research staff as a chemist at Lawrence Berkeley National Laboratory, University of California, since 1979, being appointed a Senior Scientist in chemistry at the same institution in 1987.

His research interests are in solid state inorganic synthesis and spectroscopy, inorganic systems which include those of transition, main group, lanthanide, and actinide metal ions. The classes of compounds and materials on which his research has focused include metal ion-organic complexes, inorganic thin films, semiconductors, superconductors, mixed metal oxide catalysts, inorganic crystals, inorganic scintillation materials, conducting metal oxides such as uranium, lead, and ternary metal oxides, and inorganic polymers. He is the author and co-author of over three hundred contributed and invited scientific presentations, refereed journal publications, book chapters, and numerous invited seminars at universities, national laboratories, and industry. He is the editor and author of several books, including Instrumental Surface Analysis of Geologic Materials, Applications of Analytical Techniques to the Characterization of Materials, and Applications of Synchrotron Radiation Techniques to Materials Science. He has conducted workshops related to the characterization of inorganic materials and analysis using x-ray photoelectron, Auger, infrared, Raman, nuclear magnetic resonance, and Mossbauer spectroscopy. He has also been an organizer of symposia concerning the application of spectroscopy to materials research, synthesis and characterization of inorganic materials, and the application of surface spectroscopy to materials studies.

His honors include a Sigma Xi National Research Award and Traineeship, a Miller Fellowship, and a National Science Foundation Fellowship. He is a member of the American Chemical Society, Materials Research Society, the Society for Applied Spectroscopy and the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS); he is also a Fellow of the Royal Society of Chemistry (RSC), (London), and the American Association for the Advancement of Science (AAAS). He has been a member of the Committee for Corporate Participation in the Materials Research Society and both a member and chairman of the Chemistry and Engineering Materials Subdivision in the Industrial & Engineering Division of the American Chemical Society. He is a past National Chairman for the Industrial & Engineering Chemistry Division of the American Chemical Society. In addition to his research, he has been a member of several ad hoc panels for the U. S. Department of Energy and other Federal agencies related to instrumentation needs in metal ion chemical and materials research.