Eric Shirley is a supervisory physicist (a scientist and a group leader) at the National Institute of Standards and Technology. Eric Shirley current research interests are primarily in two areas: (1.) optical properties and excitation spectroscopy of materials, from the terahertz to the hard x-ray spectral region, and (2.) physical optics and diffraction theory in radiometry. Shirley has coauthored or authored at least 132 publications and has an h-index of 38. Shirley is committed to rigorous measurement science and enthusiastically supports and expounds upon the International System of Units (SI). Shirley received a PhD from the University of Illinois in 1991. Among other distinction, Shirley was a recipient of the Department of Commerce Bronze (3x), Silver (1x) and Gold (1x) Medals, both because of work in materials and because of work in physical optics. Shirley is a member and Fellow of the American Physical Society, member of Sigma Xi, and member of the International Radiation Physics Society, of which Shirley is a Council Member. Shirley also participates in the Consultative Committee for Units and the Joint Committee for Guides in Metrology, both of which routinely meet and report to the International Bureau of Weights and Measures (BIPM) in Sèvres, France. Shirley is currently serving as the Vice Chair of the IUPAP C2 (SUNAMCO) Commission.