

## CV – Tutor 1

**Name:** Dr. W. Tyler Estler

**Affiliation:** Physicist (retired), National Institute of Standards and Technology, USA

**Relevant Experience:** Major technical projects include: field validation metrology of the Large Optics Diamond Turning Machine at Lawrence Livermore National Laboratory; error budget and accuracy analysis for Space Shuttle Solid Rocket Motor metrology instrumentation; high-accuracy rail straightness metrology at the U.S Navy David Taylor Ship Research and Development Center; development of the NIST Advanced Angle Metrology facility.

**Education:** B.S., *Summa cum Laude*, Physics, Florida Atlantic University, 1966  
Ph.D., Physics, State University of New York at Stony Brook, 1972

**Professional Experience:** New College of the University of South Florida, Associate Professor of Physics, 1972-1982; U. S. Department of Commerce/NBS/NIST, Physicist, 1982-2009.

**Qualifications Summary:** Expertise and experience in the following areas: high-accuracy dimensional metrology of precision machine tools, coordinate measuring machines, and complex workpieces; precision interferometric metrology for displacement, absolute distance, angle, and surface figure measurements; laser alignment metrology; large-scale metrology; refractive index measurements; probability theory and the fundamentals of measurement science and engineering metrology. More than 40 peer-reviewed publications in precision engineering and metrology

**Professional Organizations:** American Association of Physics Teachers  
American Society for Precision Engineering – President, 2009-2010  
Fellow of CIRP – The International Academy for Production Engineering