

## Investigator's Project Background

I have been Professor of Science Education (previously Associate Professor and Assistant Professor) at FAU Since 1993.

Doctoral degree in Science Education (cognate in chemistry) from Vanderbilt University, Master's degree in Analytical Chemistry (specialization in Instrumentation and electronics) from University of Louisville, and master's and bachelor's degrees in Chemistry from university of Kerala.

Continuing Education in *Technology and Characterization at the Nanoscale*, Cornell Nanoscience Facility, Cornell University, summer 2011, and *Nanoconcepts in Higher Education*, Nanoscience Faculty Workshop by NCLT, Cal-Poly, 2006.

Scientific Instruments operated include RF Magnetron Sputtering, Spectrophotometers, NMR, Scanning Tunneling Microscope, Differential Scanning Calorimeter, Electron Microscope, etc.

Recent research activities include problem based learning in science in nanotechnology, computer applications in STEM, science literacy promotion, nanotechnology education, and preparation and characterization of nano/thin films.

Publications include science education, science teacher education, science education policy and evaluation, thin films of Titanium Oxides and Zinc Oxides, etc.

Journals where my works have appeared include *Thin Solid Films*, *Journal of Nanoscience and Nanotechnology*, *Journal of Science Education and Technology*, *Journal of Materials Education*, *Journal of Science Teacher Education*, *Review of Policy Research*, etc.

I have given numerous science promotion presentations/lectures to audience from elementary grades through graduate level and presented several endowed public lectures.

Journal Activities include the following:

Founding Section Editor, Public Understanding of Chemistry, *The Chemist*, 2012- Present  
Editorial Review Board, *Journal of Nano Education*, 2011-Present  
Editorial Review Board, *Journal of Computing Teachers*, 2009-12  
Editorial Board, *Journal of Materials Education*, 2007-Present  
Editorial Team, *e-Journal of the Caribbean Academy of Sciences*, 2007-Present  
Editorial Board, *Journal of Science Education and Technology*, 1995-Present  
Editorial Board, *Policy Futures in Education*, 2004-Present

FOR DETAILS PLEASE SEE MY CURRICULUM VITAE ATTACHED TO THE PROPOSAL.  
THANK YOU.