My main area of research includes studying the physical properties of biological materials, utilizing techniques ranging from atomic force microscopy to small angle x-ray scattering. Currently my lab is in the process of building a scanning probe microscope that will be able to resolve topographical structures on the order of 10’s of nanometers, the width of a few strands of DNA. The project includes designing/building the instrument electronics and mechanical structure. I encourage student involvement in my research and have had students working on projects ranging from constructing a low cost optical microscope to measuring the speed of sound in various aqueous solutions. If you are interested please don’t hesitate to stop by my office (KT 126A) or email me (johnosnm@ipfw.edu) to find out how to get involved.

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