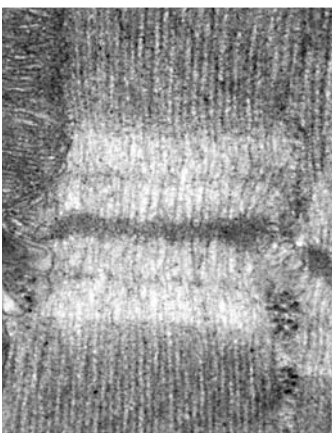
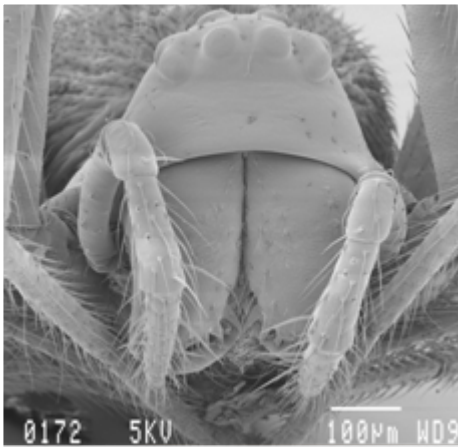
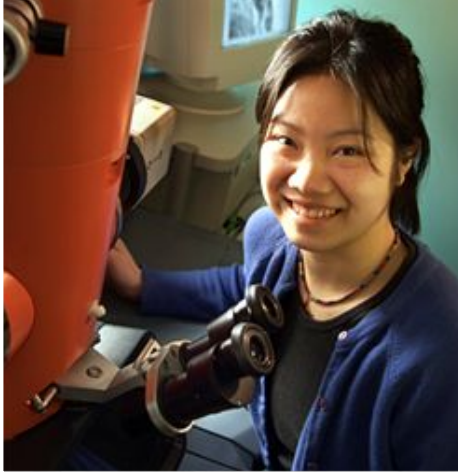
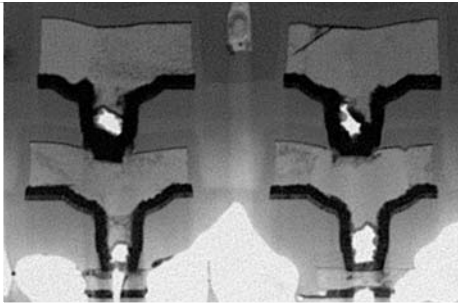


The Electron Microscopy Facility at Trinity College

Electron microscopes are powerful instruments used in medicine, industry, and academic settings around the world to study the fine structure and properties of living and non-living materials. In 1996, Trinity College was awarded a grant from the National Science Foundation to build an interdisciplinary Electron Microscopy Facility for use by students and faculty in all the sciences. Trinity has two Transmission Electron Microscopes, or TEMs—one dedicated to Life Sciences and one to Materials Sciences—plus a Scanning Electron Microscope, or SEM. TEMs are used to study the internal make-up of a material, while SEMs are used to study surface features. Together they offer a multi-faceted view of structure/property relationships.

Trinity's Electron Microscopy Facility offers undergraduates a rare opportunity for exposure to nanotechnology. The resolving power of Trinity's electron microscopes is measured in fractions of a nanometer (10^{-9} meter), enabling magnifications of *millions* of times. Following a period of training, any student can access these powerful instruments for explorations into the realm of the nano-world.



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