Professor Rick Reidy

Department of Materials Science and Engineering

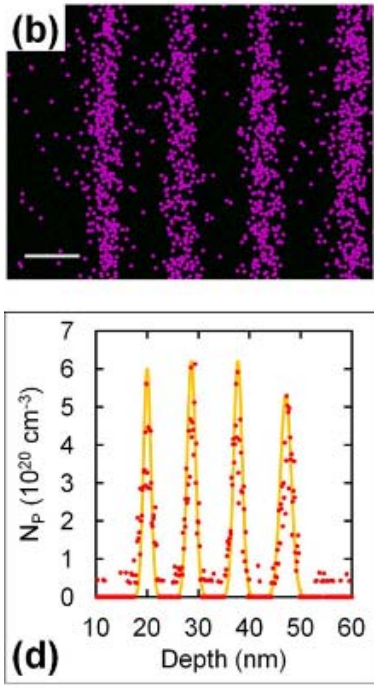
University Distinguished Teaching Professor

Atomic and nanoscale manufacturing, supercritical processing of materials, semiconductor cleaning processes, ceramic armor, high temperature ceramics, ceramic synthesis and processing

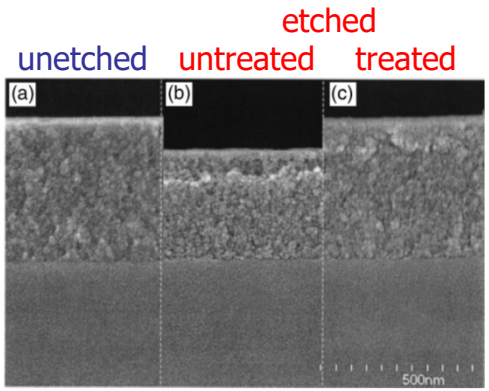
Research Group: Federal and Industry Funding; 3 Ph.D. Students

Atom Probe Tomography Of phosphorus layers in Ge

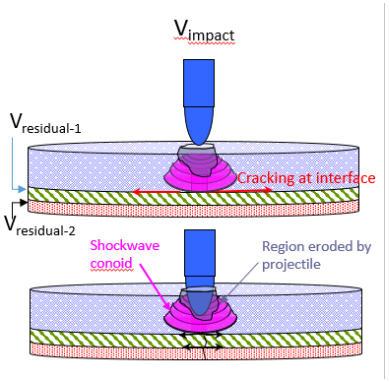
Scappucci et al, Nanoletters, 2013



Supercritical processes the protect plasma etch damaged low-k films



Multilayer ceramic armor



Ceramics

- Multilayer ceramics for ballistic protection
- Adaptive high temperature ceramic layers for aerospace
- Corrosion of ceramics in extreme environments

Electronic Materials

- Semiconductor cleans
- Supercritical processing
- Characterization of nanoscale processes (TEM and atom probe tomography)