**DESCRIPTION OF WORK**

- Surface plasmons are very sensitive to the surface properties of metals.
- They are also not limited by diffraction, allowing tight localization of optical energy.
- We are developing high-resolution sensors using novel fabrication methods.

**MAJOR OBSERVATIONS**

- Template stripping for ultrasmooth surfaces.
- Able to precisely control resonances of surface plasmons using atomic layer deposition (ALD).
- Ultrasharp tips obtained for nanofocusing of light.

**Publications**