Spectro MS Laser Ablation Inductively Coupled Mass Spectrometer (LA-ICPMS) provides unique capability for analysis of materials. Fully simultaneous measurement of the complete, inorganically relevant, mass range from $^6$Li to $^{238}$U. Amenable to analysis of solutions and solids, with ppm – ppb sensitivity for solids. NYU instrument one of six in the US and only one in academia. The excimer 193 nm laser ablation front end one of only a dozen worldwide. Purchased with NYU funds but available to MRSEC users and to be posted on the MRFN site once fully operational and tested (July 2015).

Thermo Electron DXR Raman Microscope capable of x-y and x-z mapping, distinguishing amorphous and crystalline forms of solids and thin films through analysis across a wide spectral range. Equipped with 532 and 780 nm Excitation Lasers, with polarization capability. Purchased primarily with MRSEC funds. To be posted on the MRFN site once fully operational and tested (July 2015).

Other major acquisitions:
- Nikon CMOS Camera
- AFM variable temperature stage