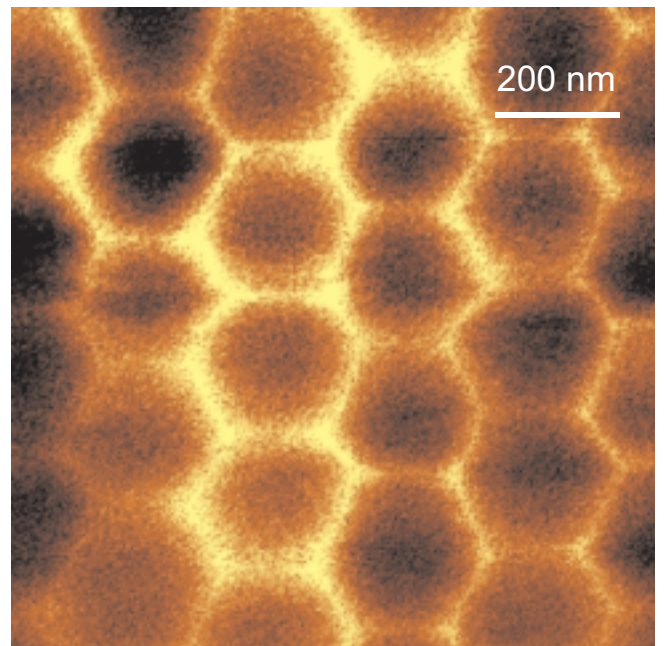
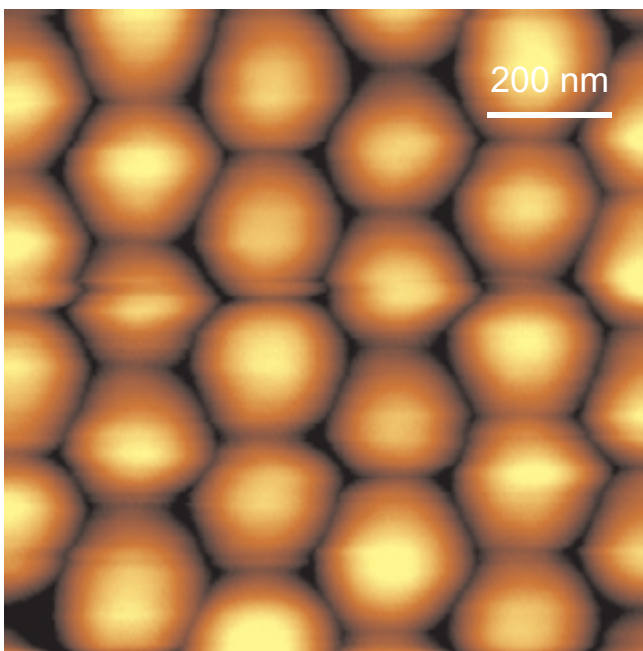


Scanning Near-field Optical Microscopy AC Mode

SNOM in AC Mode - Monolayer of PS Spheres on Glass



The polystyrene particles have a diameter of about 200 nm on glass substrate. For the experiment, a frequency doubled Nd:YAG laser with a 532 nm wavelength and 10 mW of output power was used to illuminate the sample. The distance control between tip and sample was performed with the well-known beam-deflection principle.

The measurements shown above had been acquired in AC Mode, which is a resonant intermittent contact mode. The image on the right shows the optical image and on the left side, the simultaneously acquired topography.

Samples courtesy of Dr. Paul Markowicz, State University of New York at Buffalo, USA