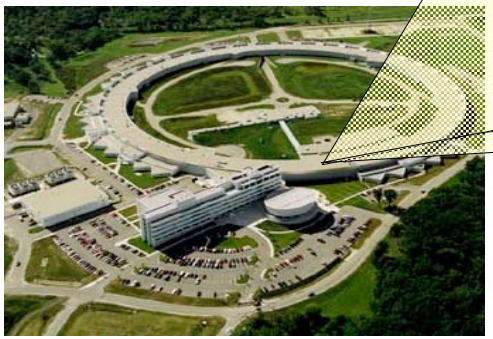
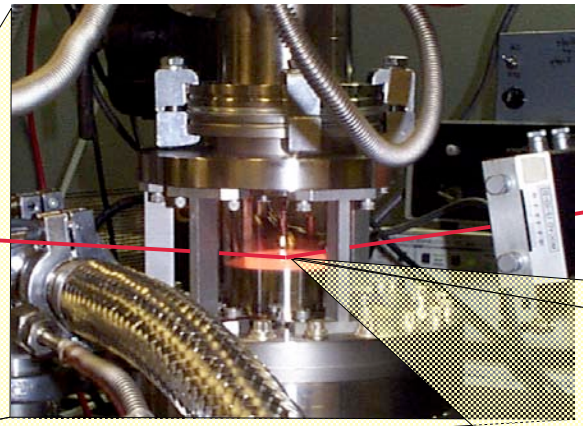
# *Synchrotron X-rays Demonstrate Nanoscale Ferroelectricity*

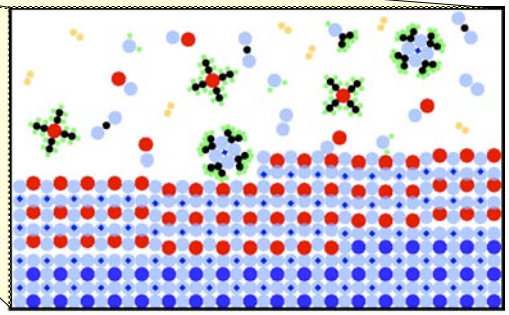
**Chemical vapor deposition chamber**

**Advanced Photon Source**

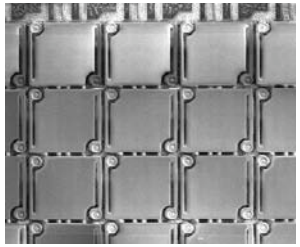


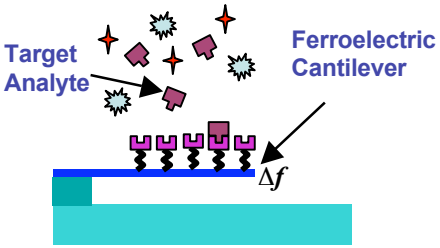


**X-ray scattering reveals atomic structure during growth**

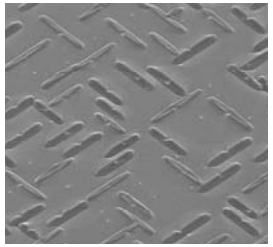


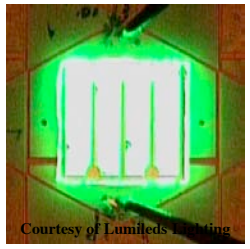
**Precision growth of high quality films**






**Materials for Nanoscale Ferroelectric Sensors**






**Materials for Future Energy Applications**



Dillon D. Fong, G. Brian Stephenson, Stephen K. Streiffer, Jeffrey A. Eastman, Orlando Auciello, Paul H. Fuoss (Argonne National Laboratory), Carol Thompson (Northern Illinois Univ.), Anneli Munkholm (Lumileds Lighting)