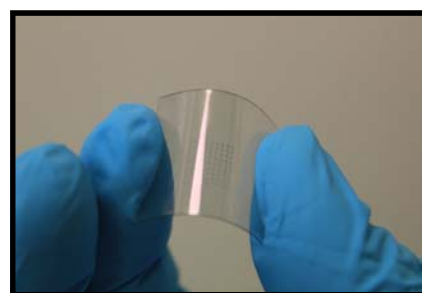
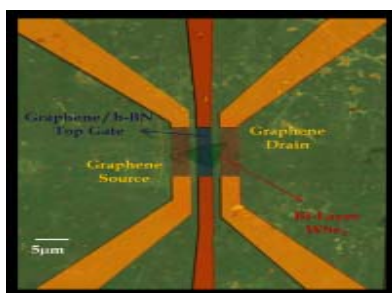


Prof. Andreas Roelofs

Argonne National Laboratory, Nanoscience and
Technology Division and Center for Nanoscale Materials

The Vision for Nanoscience at the Center for Nanoscale Materials



The Center for Nanoscale Materials (CNM) is a Department of Energy (DOE) BES Scientific User Facility for interdisciplinary research at the nanoscale. The CNM contains a large clean room, synthesis and nanofabrication resources, a unique hard x-ray nanoprobe, and other instruments not generally available, e.g. e-beam writers, TEMs with a range of in-situ holders, an oxide MBE and nanophotonics capabilities. These facilities are available to the international research community through peer-reviewed user proposals. Access is free of charge to all users, including industrial users (non-proprietary). The main assets of the CNM, however are not the tools and facilities but its outstanding staff. The staff focuses on research in advanced magnetic materials, complex oxides, nanophotonics, scanning probe microscopy, nano-fabrication and bio-inorganic hybrids. Recent staff research highlights as well as user projects will be presented painting the picture of the present and future of nanoscience as we see it.

Andreas Roelofs is the Interim Division Director and Industrial Liaison of Argonne's Nanoscience and Technology Division (NST) as well as the Center for Nanoscale Materials (CNM), a Department of Energy national user facility. The research interests of Dr. Roelofs include ferroic thin films, 2 D materials and nano-particles as well as dielectric thin films exhibiting resistivity-switching properties. Other areas of interest are the development of micro-machined-electro-mechanical devices actuated by piezoelectric thin films (piezo-MEMS) and the development of scanning probe microscopy techniques applicable to nano-materials.

Wednesday, October 8, 4:00 pm
Room 136 Jorgensen Hall

3:45 pm—Refreshments served in Jorgensen Atrium area

Host:
Prof. Alexei Gruverman
Department of
Physics & Astronomy

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