

GELLER AWARDED UGA CREATIVE RESEARCH MEDAL

Associate Professor Michael Geller received a 2006 Creative Research Medal for his work on nanomechanics. In collaboration with experimental physicist Andrew Cleland of UC Santa Barbara, Geller has designed a quantum computer that combines superconductors with nanometer-size resonators. Their architecture also makes it possible to control the quantum state of individual phonons and to study quantum optics effects with phonons. Geller also has proposed and developed a theory for a new scanning probe, a scanning thermal-conductance microscope, that can be used to identify individual biomolecules like chromosomes.