

# Watkins Visiting Professorship Lecture Series: Physics

Public lecture

**Superconductivity narratives:  
The scientific players, the  
applications and the future**

Tuesday, March 6, 2012

4 p.m., 209 Hubbard Hall

Scientific lecture

**Ultracold Fermi gases:  
Prototypes for high  
temperature superconductors  
and quark gluon plasmas**

Wednesday, March 7, 2012

2 p.m., 128 Jabara Hall

Dr. Kathryn Levin is a professor of physics at the University of Chicago and is a member of the James Frank Institute. Since 2003 (with the discovery of the fermionic atomic superfluids), her research has moved to the interface of condensed matter and AMO (atomic, molecular and optical) physics. Recently her research group has been exploring the commonalities of these two different systems via spectroscopic, scattering and transport probes. Of particular interest lately has been the question of "perfect fluidity" in the atomic gases, associated with very low shear viscosity. Her group believes this is related to "bad metal" behavior in the cuprates, with very low conductivity. This "perfect fluidity" is also of great interest to physicists who work on quantum chromodynamics.

*The Watkins Visiting Professorship was created in 1974 by the Watkins Foundation. This grant is now provided through the Watkins fund, a part of the Wichita State University Foundation's endowment. For more information about this lecture series, contact Dr. Nickolas Solomey at (316) 978-3190.*