

PHYSICS COLLOQUIUM

**Boris Jacobsohn Memorial Lecture: Speaker
selected by UW Physics Grad Students**

**Paul L. McEuen
Cornell University**

“Nanocarbon: from terahertz transistors to atomic
membranes”

Monday June 2, 2008

4:00 PM, Ronald Geballe Auditorium, Rm. A-102

Abstract: Carbon takes many forms, from precious diamonds to lowly graphite. Surprisingly, it is the latter that is the most prized by nano physicists. Graphene, a single layer of graphite, can serve as an impenetrable membrane a single atom thick. Rolled up into a nanometer-diameter cylinder--a carbon nanotube --it makes great 1D transistors, quantum dots, and nanoguitar strings. In this talk, Paul will review some of his group's recent results on these remarkable materials, including ultrafast measurements of ballistic transport in nanotubes, studies of topological spin-orbit effects that arise from a nanotube's cylindrical geometry, and inflating a graphene balloon that is one atom thick.

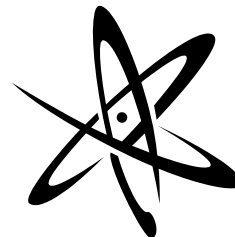
Tuesday, June 3

CMA Seminar

4:00 PM, Rm. C-421, PAT

Robert Kaindl, Lawrence Berkeley National Laboratory
“Ultrafast THz Spectroscopy of Electronic Correlations in
Complex Materials”

Seminars



June 2-6, 2008