

# University of Washington • Department of Physics

## PHYSICS COLLOQUIUM

**Rajan Gupta (Los Alamos National Laboratory)**  
"Measuring the Dense Matter Equation of State  
with the International X-ray Observatory"

**Monday, April 27th, 2009**

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

**Abstract:** Energy systems are enormous, complex, dynamical and adaptive. Understanding them is crucial as energy is the key to development and is the basis of modern technological societies and, at the same time, because of rising concern for associated environmental impacts and contributions to climate change. Fossil fuels (oil, coal, and gas) provided over 80 percent of the energy in the 20th century and will, most likely, persist well into the 21st century in spite of our best intentions.

How does one help transform existing and planned regional approaches to provide affordable clean energy to 9 (maybe 10) billion people in the coming decades? I will review the global situation and describe the Global Energy Observatory project to build, with public participation, a comprehensive picture of the world's energy systems so that we can understand regional variations, choices, and needs, and follow their full cycle: from sources to generation to global movements to use to impacts.

**Tuesday, April 28th, 2009**

### **Particle Theory Seminar**

2:30 PM, Rm. C-421, PAT

**Nick Dorey**, DAMTP, Cambridge

### **CMA Seminar**

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

**Ira Kalet**, UW Radiation Oncology

"Computational modeling in support of cancer treatment:  
adventures in Medical Physics"

**Thursday, April 30th, 2009**

### **Center for Theoretical Quantum Dynamics**

10:30 AM, Rm. B-417, PAB

**Robert Farber**, Pacific Northwest Laboratories

"High-Performance Massively-Parallel Computations on  
Commodity Graphics Processors"

### **Astronomy Colloquium**

4:00 PM, Rm. A-102, PAA

**Frank Drake**, UC Santa Cruz

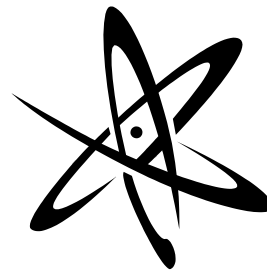
**Friday, May 1st, 2009**

### **Particle Astrophysics Seminar**

3:30 PM, Rm. A-114, PAA

**Mike Dziomba**, UW Physics

# *Seminars*



***Apr 27th-May 1***