

Fall 2009

September 1	J. Thomas Dickinson , Department of Physics and Astronomy, Washington State University title: <u>"Incoming! Incoming! (Laser Beam): Fundamentals of Laser Materials Interactions"</u>
September 8	Gary Collins , Department of Physics and Astronomy, Washington State University title: <u>"New insight into diffusion mechanisms in compounds"</u>
September 15	You Qiang , Department of Physics, University of Idaho title: <u>"Spintronics nanomaterials for future computers - investigation of ferromagnetic semiconductor and giant positive magnetoresistance"</u>
September 22	Hailin Wang , Department of Physics, University of Oregon title: <u>"Cavity QED with spins in diamond: Toward a quantum interface between light and matter"</u>
September 29	David Cobden , Department of Physics, University of Washington title: <u>"Experiments on phase transitions in nanostructures"</u>
October 6	David H. Atkinson , Department of Electrical and Computer Engineering, University of Idaho title: <u>"Entry Probe Missions to the Giant Planets"</u>
October 13	Mark G. Raizen , Center for Nonlinear Dynamics and Department of Physics, The University of Texas at Austin title: <u>"Comprehensive Control of Atomic Motion"</u>

October 20	Liudmila Pozhar , Department of Physics, University of Idaho title: <u>"Virtual Synthesis of Nanosystems with Pre-Designed Properties: Theoretical Foundations, Computations and Modeling"</u>
October 27	Sukanta Bose , Department of Physics and Astronomy, Washington State University title: <u>"Gravitational waves as probes of the early moments of our Universe"</u>
November 3	Marty Ytreberg , Department of Physics, University of Idaho title: <u>"Methods and applications for free energy calculation in biophysics"</u>
November 9 Monday	Sergio Cova , Politecnico di Milano-DEI, Italy title: <u>"Silicon Single-Photon Avalanche Diodes : Technology Trends and Application Drive"</u>
November 10	Brett Esry , Department of Physics, Kansas State University title: <u>"Ultracold three-body collisions and Efimov physics"</u>
November 17	Congjun Wu , Department of Physics, University of California, San Diego title: <u>"Orbital Phases of Cold Atoms Unconventional BEC, ferromagnetism, and unconventional Cooper pairing"</u>
November 24	No Colloquium - Thanksgiving Break
December 1	Richard Kouzes , Material Sciences, Pacific Northwest National Laboratory, Richland, WA title: <u>"Detection of Nuclear Threats at Borders"</u>

December 8

Aurora Clark, Department of Chemistry, Washington State University
title: ["Classical Force Fields for F-Elements: New Tools for Studying Condensed Phase Actinide and Lanthanide Chemistry"](#)