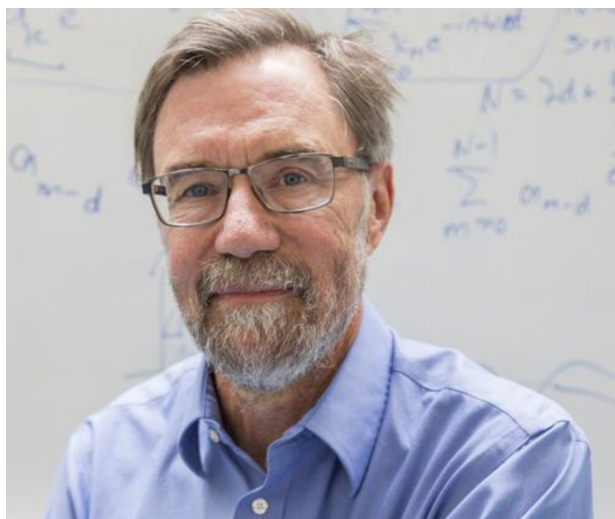


HEARNE EMINENT LECTURE SERIES



WHAT THE #*\$! DO WE (K)NOW!? ABOUT QUANTUM MECHANICS

A PUBLIC LECTURE BY
DR. CARLTON M. CAVES,
CENTER FOR QUANTUM INFORMATION
AND CONTROL

There is a world of consummate strangeness at our fingertips, provided our fingers are so exquisitely fine as to be able to feel and manipulate individual atoms and molecules. Ever since the realization that the behavior of atoms and molecules is governed by the laws of quantum mechanics, it has been understood that the world of the very small is nothing like the familiar world of everyday experience. Yet only recently has it been fully appreciated just how different the world of quantum systems is---and how that difference might be exploited to do things that can't be done in our mundane everyday world.

Dr. Caves will illustrate how weird the atomic-scale world really is and indicate how we might take advantage of that weirdness using new technologies for manipulating atomic-scale systems.

You will have to pay close attention, but the reward will be a glimpse of the truly astonishing nature of the world we all inhabit.

Dr. Carlton M. Caves

Ph.D., California Institute of Technology, 1979

Distinguished Professor
Department of Physics & Astronomy

Director
Center for Quantum Information and Control

University of New Mexico

Fellow, American Physical Society
Fellow, American Association for the
Advancement of Science

Friday, March 16

2:30 p.m.

**Royal Cotillion Ballroom
LSU Union**

LSU

College of
Science

Department of Physics
& Astronomy