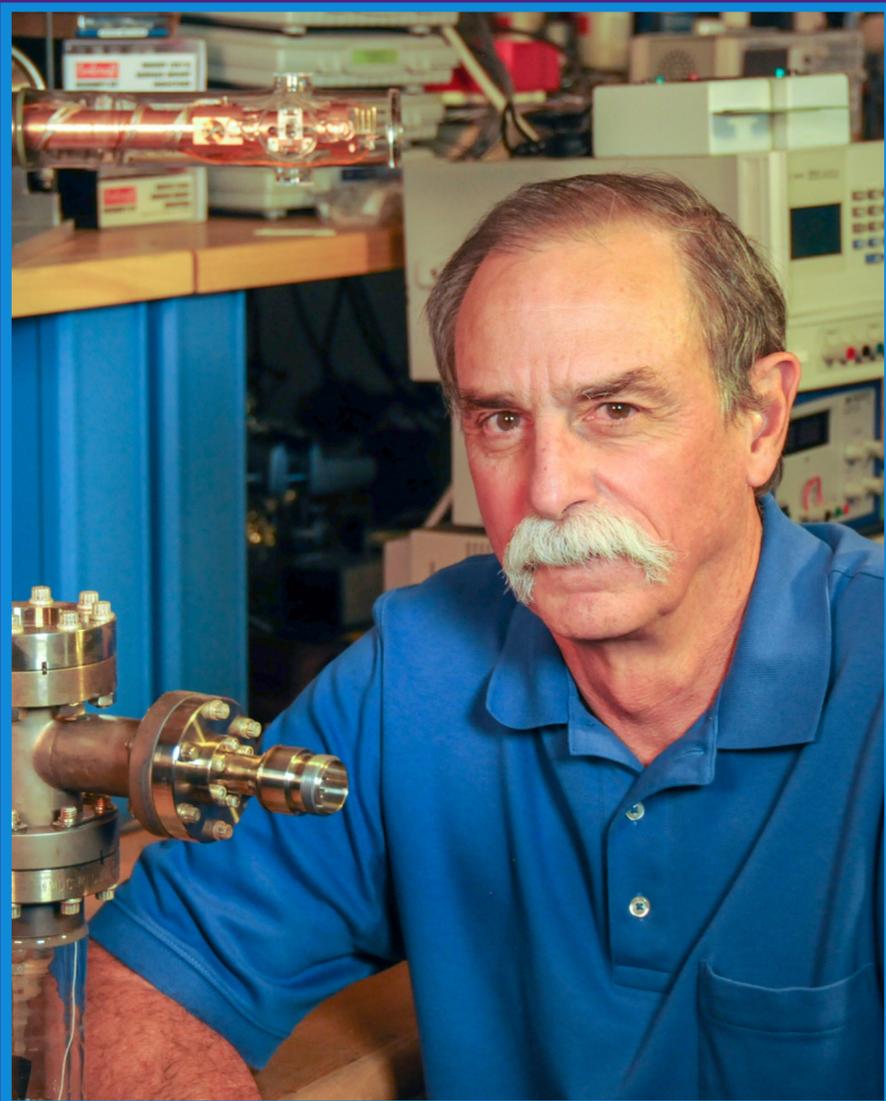# Nobel Laureate Speaker Series

Quantum Computers and Raising Schrödinger's Cat

Friday, April 19, from 9:30-11 am

Quantum computers differ from the everyday computers we know in many ways. The computers we use rely on bits of information that are either 0 or 1. Quantum computers use quantum bits, or qubits, to store and process information. Qubits can exist in a state of superposition, which means they can simultaneously be both 0 and 1, similar to a digital version of Schrödinger's cat before the box is opened. This ability allows quantum computers to perform exponentially faster and solve problems deemed once impossible by classic computers. Researchers worldwide are exploring various platforms building a quantum computer, including utilizing laser-controlled atoms.

Visit the Nobel Laureate Speaker Series website to read the abstract of Dr. Wineland's presentation.

Dr. David J. Wineland

Nobel Prize in Physics 2012

montgomerycollege.edu/events/nobel-laureate/

Globe Hall, High Technology and Science Center
20200 Observation Drive, Germantown MD 20876

This presentation is intended for a general audience.
Light reception following the presentation.

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