

THE OHIO STATE UNIVERSITY DEPARTMENT OF PHYSICS PRESENTS THE

**54<sup>th</sup>**  
ANNUAL

# Alpheus Smith Lecture

**ARTHUR B. MCDONALD**

## NEUTRINOS, DARK MATTER AND THE NATURE OF THE UNIVERSE



Nobel Laureate **Arthur B. McDonald** is a Canadian astrophysicist and director of the Sudbury Neutrino Observatory Collaboration. He held the Gordon and Patricia

Gray Chair in Particle Astrophysics at Queen's University in Kingston, Ontario. McDonald was awarded the 2015 Nobel Prize in Physics jointly with Japanese physicist Takaaki Kajita, "for the discovery of neutrino oscillations, which shows that neutrinos have mass." For this work, he also shared the 2016 Breakthrough Prize in Fundamental Physics.

**Thursday, March 9, 2017**

**8 p.m.**

**100 Independence Hall**

**1923 Neil Avenue Mall**

**Free. Open to the Public.**

**THE ALPHEUS SMITH LECTURE** has been bringing leading-edge work of Nobel Laureates and other prominent physicists to the community since 1960. The free, public lecture series is endowed by Robert Smith to honor his father, Physics Professor Alpheus W. Smith

Outside view of the Sudbury Neutrino Observatory photomultiplier tube support structure, in situ underground, after completion of the structure but before cabling  
Photo courtesy of SNO <http://www.sno.phy.queensu.ca/sno/images/index.html>

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