



# NEWS RELEASE

CONNECTICUT ACADEMY OF SCIENCE AND ENGINEERING

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## Robert Schoelkopf to Receive 2017 Connecticut Medal of Science

**Rocky Hill, CT** — Professor Robert Schoelkopf, Sterling Professor of Applied Physics and Physics and Director of the Yale Quantum Institute, has been selected as the 2017 recipient of the Connecticut Medal of Science for his seminal contributions to the entire field of quantum science and to the new field of circuit quantum electrodynamics. He will accept the award at the 42<sup>nd</sup> Annual Meeting & Dinner of the Connecticut Academy of Science and Engineering (CASE) on Monday, May 22, 2017 at the University of Connecticut in Storrs.

Schoelkopf is a leading experimental physicist, whose research has helped establish the field of quantum computation with solid-state devices. Together with his faculty collaborators at Yale, Michel Devoret and Steven Girvin, Schoelkopf has pioneered the approach of integrating superconducting qubits with microwave cavities, known as Circuit Quantum Electrodynamics. This Yale architecture, in which quantum information can be distributed by microwave signals on wires, is widely believed to be the most scalable path to useful quantum computers in the near future, and has been adopted by a majority of other groups. Some of Schoelkopf's other inventions include the Radio Frequency Single-Electron Transistor and the Shot Noise Thermometer.

"The State of Connecticut is proud to award the Connecticut Medal of Science to Robert Schoelkopf who has made pioneering contributions to the field of quantum science," said Governor Dannel P. Malloy. "I am particularly pleased that Rob, a world leader in this field, is right here in Connecticut."

In addition to his scientific accomplishments, Professor Schoelkopf is a dedicated advisor and mentor to graduate and postdoctoral students, currently supervising 5 postdoctoral scholars and 11 graduate students, and has mentored an additional 30 post-undergraduate scholars and students in the past. Additionally, he has reached out to the nonscientific community about this complex field and frequently is invited to present talks and seminars around the world. He is regularly called on to advise industry and federal agencies on the development and commercialization of quantum technologies, and he is a co-founder of Quantum Circuits, Inc., a Connecticut-based company working to deliver the first quantum computers.

Professor Schoelkopf earned a PhD in Physics from the California Institute of Technology. A member of the American Academy of Arts and Sciences, the National Academy of Sciences, and the Connecticut Academy of Science and Engineering, he also received numerous awards and honors including recognition as a Fellow of both the American Association for the Advancement of Science and the American Physical Society. Schoelkopf has authored 145 papers in the field.

The Connecticut Medal of Science is the state's highest honor for scientific achievement in fields crucial to Connecticut's economic competitiveness and social well-being. Modeled after the National Medal of Science, this award is bestowed by the State of Connecticut, with the assistance of the Connecticut Academy of Science and Engineering, in alternate years with the Connecticut Medal of Technology. Visit <http://www.ctcase.org/medals.html> to see a list of past winners.

*The Connecticut Academy of Science and Engineering was chartered by the General Assembly in 1976 to provide expert guidance on science and technology to the people and to the state of Connecticut, and to promote the application of science and technology to human welfare and economic well being. For more information about the Academy, please see [www.ctcase.org](http://www.ctcase.org).*

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