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THE 2018 FRANKLIN INSTITUTE AWARDS LAUREATES
INTERNATIONALLY RECOGNIZED AWARDS HONOR
PIONEER OF CRISPR-CAS AND FATHERS OF THE INTERNET

PHILADELPHIA November 7, 2018—The Franklin Institute is honored to announce the names of eight remarkable individuals who will be recognized in Philadelphia next April with prestigious Franklin Institute Awards. The esteemed recipients join a long list of great men and women whose revolutionary discoveries and innovations have significantly transformed our world. The 2018 Franklin Institute Awards recipients developed technologies that launched the Internet and the wireless communications revolution, their discoveries have made today's exciting advancements in genome editing and optoelectronics possible, and the work they do helps us better understand the nature of our planet and our universe. These scientists and engineers have made enormous strides in their fields, improving the lives of billions of people across the world, and paving the way for a better future. The Bower Award and Prize for Achievement in Science, which includes a \$250,000 prize, one of the most significant scientific prizes in America, is presented to CRISPR-Cas researcher Philippe Horvath, Ph.D., whose radical discoveries have led to the precise editing of diverse genomes.

The Franklin Institute Awards has publicly recognized and encouraged outstanding accomplishments in science and technology since the Institute was founded in 1824. The 2018 recipients join those who came before them—including Nikola Tesla, Marie and Pierre Curie, Thomas Edison, Albert Einstein, Stephen Hawking, Jane Goodall, and Bill Gates—in the Institute's unparalleled history of honoring the greatest minds of the last 194 years. To date, 118 Franklin Institute Awards laureates have also been honored with a Nobel Prize, including one in 2017.

"Philadelphia has long been known for leading the way in science, technology, and innovation—from the historic legacy set forth by Benjamin Franklin to the many great accomplishments and successes of today," said Larry Dubinski, President and CEO of The Franklin Institute. "The Franklin Institute Awards Program brings to light some of the greatest minds of our time, and they are proudly recognized right here in the birthplace of science and innovation for accomplishments that will transform our world."

The Franklin Institute Awards Ceremony and Dinner is the culmination of a week-long sequence of events and programs designed to shine an important spotlight on advancements in science and technology, as well as extraordinary business leadership. In addition to an array of events and symposia throughout the week, public and educational programs are designed to provide direct and unprecedented access to the laureates. Bank of America returns in 2018 as Presenting Sponsor of the Awards Ceremony and Dinner.

On Thursday, April 19, 2018, The Franklin Institute will celebrate the enormous impact of science, technology, and business leadership by honoring the following pioneers for their critical achievements:

2018 BOWER AWARD & PRIZE FOR ACHIEVEMENT IN SCIENCE

PHILIPPE HORVATH, PH.D.

*DuPont Nutrition & Health
Dangé-Saint-Romain, France*

For the foundational discovery of CRISPR-Cas as a microbial system of adaptive immunity that has been developed as a powerful tool for precise editing of diverse genomes.

2018 BOWER AWARD FOR BUSINESS LEADERSHIP

TO BE ANNOUNCED

2018 BENJAMIN FRANKLIN MEDAL IN CHEMISTRY

JOHN B. GOODENOUGH, PH.D.

*University of Texas at Austin
Austin, Texas*

For his development of the first practical, rechargeable lithium-ion battery cathode material, lithium cobalt oxide, which has revolutionized lightweight, portable electric power.

2018 BENJAMIN FRANKLIN MEDAL IN COMPUTER & COGNITIVE SCIENCE (SHARED)

VINTON GRAY CERF, PH.D.

*Google Inc.
Reston, Virginia*

ROBERT E. KAHN, PH.D.

*Corporation for National Research Initiatives
Reston, Virginia*

For enabling the Internet by developing TCP/IP, the set of methods that allows effective communication between millions of computer networks.

2018 BENJAMIN FRANKLIN MEDAL IN ELECTRICAL ENGINEERING

MANIJEH RAZEGHI, SC.D.

*Northwestern University
Evanston, Illinois*

For the realization of high-power terahertz frequency sources operating at room temperature using specially designed and manufactured semiconductor lasers, which enables a new generation of imagers, chemical/biological sensors, and ultra-broadband wireless communication systems.

2018 BENJAMIN FRANKLIN MEDAL IN EARTH & ENVIRONMENTAL SCIENCE

SUSAN TRUMBORE, PH.D.

*Max Planck Institute for Biogeochemistry
Jena, Germany
University of California, Irvine
Irvine, California*

For her pioneering use of radiocarbon measurements in forests and soils to assess the flow of carbon between the biosphere and atmosphere, with implications for the understanding of future climate change.

2018 BENJAMIN FRANKLIN MEDAL IN MECHANICAL ENGINEERING

ADRIAN BEJAN, PH.D.

*Duke University
Durham, North Carolina*

For his pioneering interdisciplinary contributions in thermodynamics and convection heat transfer that have improved the performance of engineering systems, and for constructal theory, which predicts natural design and its evolution in engineering, scientific, and social systems.

2018 BENJAMIN FRANKLIN MEDAL IN PHYSICS

HELEN RHODA QUINN, PH.D.

*Stanford University
SLAC National Accelerator Laboratory
Stanford, California*

For her pioneering contributions to the long-term quest for a unified theory of the strong, weak, and electromagnetic interactions of fundamental particles.

Honored with a regional Emmy® award, [The Franklin Institute Awards: Declaration of Progress](#) video illustrates the rich history of the 194-year-old Awards Program. For more information including photos, visit [Press Kit: 2018 Franklin Institute Awards](#). Follow The Franklin Institute on [Facebook](#) (TheFranklinInstitute), [Twitter](#) (@TheFranklin), and [Instagram](#) (franklininstitute).

The Franklin Institute

Founded in honor of America's first scientist, Benjamin Franklin, The Franklin Institute is one of America's oldest and premier centers of science education and development in the country. Today, the Institute continues its dedication to public education and creating a passion for science by offering new and exciting access to science and technology in ways that would dazzle and delight its namesake. Recognizing outstanding achievements in science throughout the world is one important way that the Institute honors its commitment to Benjamin Franklin's legacy. For more information, please click [here](#).