



# THE FRANKLIN INSTITUTE *Awards*



## Announcing the 2018 Franklin Institute Laureates



### *We are pleased to announce The Franklin Institute Awards Class of 2018!*

These eight trailblazers of science and engineering developed technologies that lie at the foundation of the Internet and launched the wireless communications revolution. Their discoveries have made today's exciting advancements in genome editing and optoelectronics possible. Their work helps us better understand our planet and the very nature of the universe. Their achievements are creating a better future for all of us.

Since 1824, The Franklin Institute has recognized excellence in science and technology through The Franklin Institute Awards. Its legacy virtually charts the history of discovery and innovation throughout the past two centuries. The pioneers who comprise the Class of 2018 join the giants 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. Celebrating outstanding achievements in science, technology, and industry from around the world is an important way the Institute preserves Benjamin Franklin's legacy.

We hope you will join us in congratulating our newest Franklin Institute laureates for their remarkable achievements.

Best

regards,



Larry  
President  
The Franklin Institute

and

Dubinski  
CEO

Read more about the 2018 laureates in today's [Philadelphia Inquirer](#).

## 2018 Benjamin Franklin Medal in Earth and 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 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.

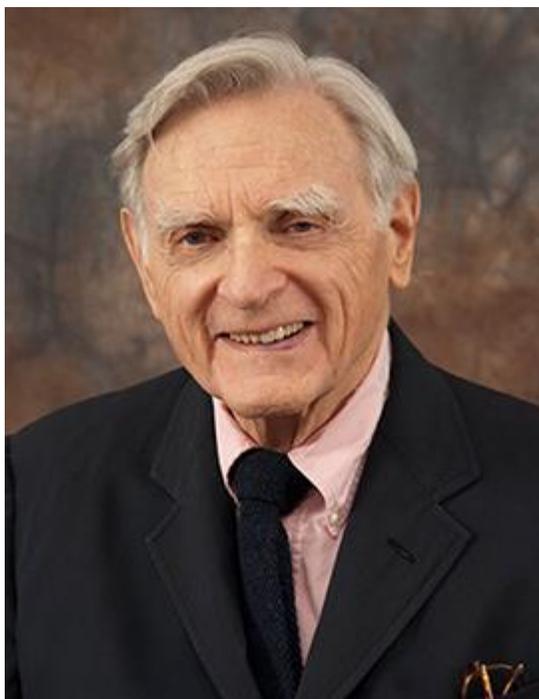
## 2018 Bower Award and Prize for Achievement in Science



**Philippe Horvath, Ph.D.**  
DuPont Nutrition & Health  
*Dangé-Saint-Romain, France*

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

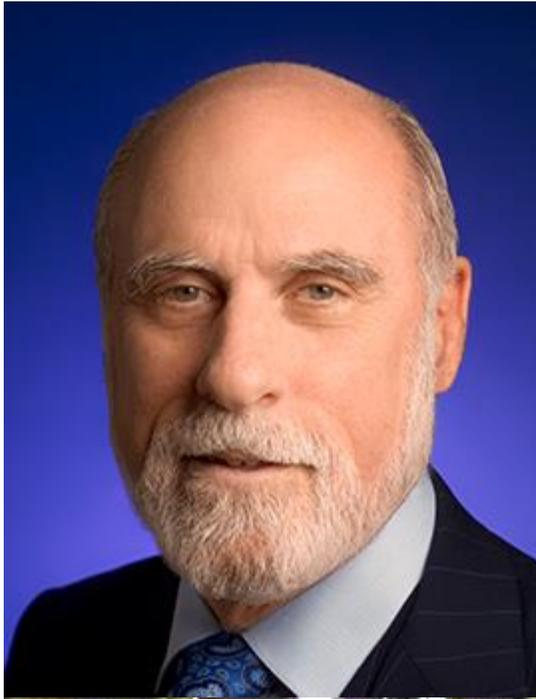
## 2018 Benjamin Franklin Medal in Chemistry



**John 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 and Cognitive Science



**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 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.

## Save the Date!

**2018 Awards Ceremony and Dinner Leadership**

**2018 Co-Chairs**  
Leanne M. McMenamin  
Michael C. Forman

**2018 Vice Chair**  
Linda J. Hauptfuhrer

**The Franklin Institute Awards Ceremony and Dinner**  
April 19, 2018

Presented by:

**Bank of America** 

For more information about the Awards Ceremony and Dinner, [click here](#).

**The Franklin Institute Awards Week**  
April 16–20, 2018

To learn more about The Franklin Institute Awards, [click here](#).

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*In the spirit of inquiry and discovery embodied by Benjamin Franklin,  
the mission of The Franklin Institute is to inspire a passion for learning  
about science and technology.*