











LAUREATES 2016

Astrophysics Ronald W. P. Drever, California Institute of Technology, US

Kip S. Thorne, California Institute of Technology, US

Rainer Weiss, Massachusetts Institute of Technology, US

"for the direct detection of gravitational waves"

Nanoscience
Gerd Binnig,
Former Member of IBM
Zurich Research Laboratory,
Switzerland

Christoph Gerber, University of Basel, Switzerland

Calvin Quate, Stanford University, US

"for their transformative contributions to the field of nano-optics that have broken long-held beliefs about the limitations of the resolution limits of optical microscopy and imaging"

Neuroscience Eve Marder, Brandeis University, US

Michael Merzenich, University of California San Francisco, US

Carla Shatz, Stanford University, US

"for the discovery of mechanisms that allow experience and neural activity to remodel brain function"









THE KAVLI PRIZE

he Kavli Prize emphasizes ne science of the greatest hysical dimensions of pace and time, the science of the smallest dimensions of systems of atoms and nolecules, and the science of the most complex restrictions.

he Kavli Prize in strophysics

warded for outstanding thievements in advancing at knowledge and underanding of the origin, volution and properties of the universe, including the elds of cosmology, astronysics, astronomy, planery science, solar physics, pace science, astrobiology, tronomical and astro-

physical instrumentation, and particle astrophysics.

The Kavli Prize in Nanoscience

awarded for outstanding achievements in the science and applications of the unique physical, chemical and biological properties of atomic, molecular, macromolecular and cellular structures and systems that are manifest in the nanometre scale, including molecular self-assembly, nanomaterials, nanoscale instrumentation, nanobiotechnology, macromolecular synthesis, molecular mechanics and related topics.

The Kavli Prize in Neuroscience

awarded for outstanding achievements in advancing our knowledge and understanding of the brain and nervous system, including molecular neuroscience, cellular neuroscience, systems neuroscience, neurogenetics, developmental neuroscience, cognitive neuroscience, computational neuroscience and related facets of the brain and nervous system.



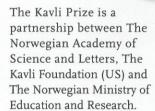


The Prize was established to:
• Recognise outstanding

- scientific research

 Honour highly creative
- scientists
 Promote public understanding of scientists
- and their workFoster international cooperation among scientists





The Academy appoints the three Prize Committees after receiving recommendations from the following international academies and equivalent scientific organizations:

- The Chinese Academy of Sciences
- The French Academy of Sciences
- The Max Planck Society (Germany)
- The National Academy of Sciences (US)



- The Norwegian Academy of Science and Letters The Royal Society (UK)
- The Committees review and recommend the prize winners to the Academy, which administers the selection process and announces the prize winners.

The Prize is awarded every second year by the Academy at a ceremony in Oslo, Norway.



THE KAVLI PRIZE

SCIENCE PRIZES FOR THE FUTURE

ASTROPHYSICS NANOSCIENCE NEUROSCIENCE

The Kavli Prize is a partnership between The Norwegian Academy of Science and Letters
The Kavli Foundation and The Norwegian Ministry of Education and Research



THE NORWEGIAN MINISTRY OF EDUCATION AND RESEARCH

THE 🎇 KAVLI FOUNDATION



THE NORWEGIAN ACADEMY OF SCIENCE AND LETTERS

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THE KAVLI PRIZE 2016

In September 2016, the Kavli Prize was awarded for the fifth time in Oslo, Norway. The prizes were presented by His Majesty the King at Oslo Concert Hall and 1,200 people attended the ceremony.

Later the same evening there was a banquet for the Laureates held at Oslo City Hall with 500 invited guests from around the

Both events were part of The Kavli Prize Week, a week filled with activities that included laureate lectures and science symposia in astrophysics, nanoscience and neuroscience with lectures by world-renowned scientists.











CALENDAR 2017 - 2018

2017

September 1 – December 1: **Call for Nominations**

September 25 -Kavli Prize Symposium at IBM Zürich with Gerd Binnig and Christoph Gerber

September 28 -Kavli Prize Laureate Lecture by James E. Rothman at the Carnegie Institution for Science in Washington, DC, US

2018

February -Announcement at AAAS of the Scholarship Winners for attending the 2018 Kavli Prize Week. In co-opera-

May/June -Announcement of the 2018 **Kavli Prize Laureates**

The Kavli Prize Week in Oslo, Norway

tion with WFSI

September 3 Laureate Interviews The laureates are interviewed in front of an audience at the University of Oslo

September 4 **Award Ceremony** A gala performance uniting science and culture held at Oslo Concert Hall

Banquet

The Norwegian Government hosts a banquet in honor of the laureates with some 500 guests invited from around the world

September 6 The Kavli Prize Symposia in nanoscience and neuroscience held in Trondheim The Kavli Prize Symposium in astrophysics held in Oslo World leading scientists within the fields of the prizes give lectures

FRED KAVLI 1927 - 2013)

Fred Kavli [1927-2013] was in entrepreneur and philanhropist dedicated to supporting science that benefits iumanity.

A Norwegian-born Amerian, Fred Kavli grew up in a mall village in Norway vhere, as a young man, he vatched the Northern Lights vhile pondering the unierse, nature, and the wonlers of humanity.

That love of science vould stay with him hroughout his life. After eceiving his education in physics at the Norwegian nstitute of Technology, he migrated to the United tates, where shortly therefter he founded the Kavlico Corporation. He established he Kavli Foundation in



2000 in order to advance science for the benefit of humanity, promote public understanding of scientific research, and support scientists and their work. As chairman of The Kavli Foundation, his many accomplishments included overseeing on November 21, 2013 and the establishment of a is laid to rest in his homerenowned

research institutes in the fields of astrophysics, nanoscience, neuroscience and theoretical physics. He led the Foundation's efforts to establish the Kavli Prizes in cooperation with Norway.

Fred Kavli passed away worldwide community of village of Eresfjord, Norway.

THE KAVLI PRIZE LAUREATES

ASTROPHYSICS

2008

· Maarten Schmidt, California Institute of

Technology, US

· Donald Lynden-Bell, University of Cambridge, UK

2010

- · Jerry E. Nelson, University of California Santa Cruz, US
- · Raymond N. Wilson, European Southern Observatory, Germany
- Roger Angel, University of Arizona, US

2012

- · David Jewitt, University of California Los Angeles, US
- · Jane Luu, Massachusetts Institute of Technology, US
- Michael Edwards Brown California Institute of Technology, US

- · Alan H. Guth, Massachusetts Institute of Technology, US
- · Andrei D. Linde, Stanford University, US
- · Alexei A. Starobinsky, Russian Academy of Sciences, Russia

NANOSCIENCE

2008

- · Louis Brus, Columbia University, US
- · Sumio Iijima), Meijo University, Japan

- · Donald M. Eigler. IBM Almaden Research
- Center US
- · Nadrian C. Seeman, New York University, US

· Mildred Dresselhaus, Massachusetts Institute of Technology, US

NEUROSCIENCE

2014

- · Thomas W. Ebbesen, Université de Strasbourg, France
- · Stefan W. Hell. Max Planck Institute for Biophysical Chemistry, Göttingen, Germany
- · Sir John B. Pendry, Imperial College London, UK

2008

- · Sten Grillner,
- Karolinska Institute, Sweden · Thomas M. Jessell, Columbia University, US
- · Pasko Rakic,
 - Yale University, US

- · Richard M Scheller Genentech US
- · Thomas C. Südhof, Stanford University, US
- James E. Rothman, Yale University, US

2012

- · Cornelia Isabella Bargmann, The Rockefeller University, US
- · Ann Martin Graybiel, Massachusetts Institute of Technology, US
- · Winfried Denk, Max Planck Institute for Medical Research, Germany

2014

- Brenda Milner. Montreal Neurological Institute, McGill University, Canada
- John O'Keefe, University College London, UK
- Marcus E. Raichle. Washington University in St. Louis School of Medicine, US