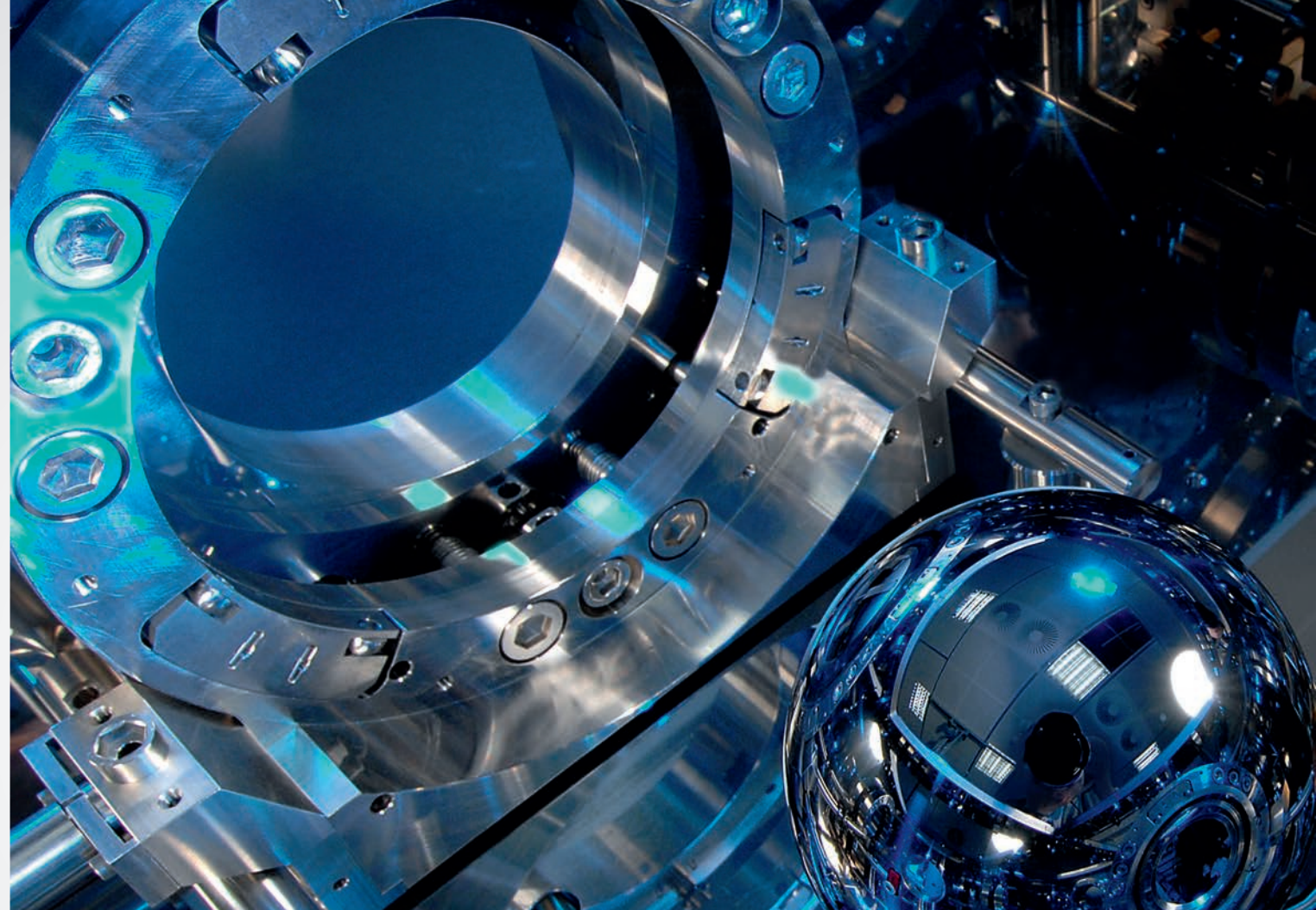


HELMHOLTZ SYMPOSIUM AND HELMHOLTZ PRIZE

The Helmholtz-Fonds has made it its goal to promote science and research in the field of precision measurement relating to physics and technology – above all through PTB Seminars, the Helmholtz Symposium and the Helmholtz Prize. In memory of its first president, PTB organizes the Hermann von Helmholtz Symposium every two to three years with the aim of presenting a topical subject relating to fundamental physics research each time. The subject chosen has a particularly close connection to metrology or might be of importance to it in the future. The Hermann von Helmholtz Prize is awarded at the same time in the scope of the Hermann von Helmholtz Symposium.

- The Helmholtz Prize is endowed with € 20,000 and is the most distinguished German award in metrology.
- With this prize, the Helmholtz-Fonds and the Stifterverband der Deutschen Wissenschaft honor outstanding scientific and technological research work in the field of “precision measurements in physics, chemistry and medicine” every two years.
- Starting in 2016, the prize will be awarded in the two categories of “fundamental research” and “applied metrology”.



OFFICE
Helmholtz-Fonds e. V.

Phone: +49 (0)531 592 3091
Fax: +49 (0)531 592 3003
E-mail: helmholtz-fonds@ptb.de

Helmholtz Symposium and the Awarding of the 2016 Helmholtz Prize

Wednesday, June 22nd 2016

Helmholtz-Fonds e. V.
c/o Physikalisch-Technische Bundesanstalt
Bundesallee 100
38116 Braunschweig

www.helmholtz-fonds.de

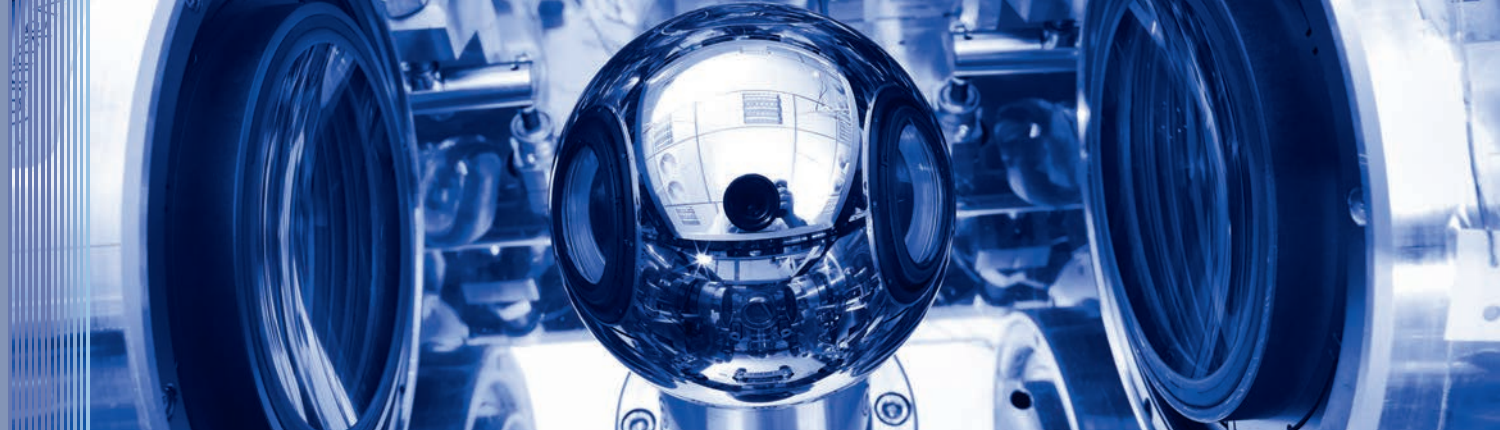


HELMHOLTZ
FONDS e.V.

Helmholtz Symposium and the Awarding
of the 2016 Helmholtz Prize

Wednesday, June 22nd 2016

Lecture Hall of the Physikalisch-Technische
Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig



HELMHOLTZ SYMPOSIUM: THE REALIZATION
OF THE UNIT OF MASS IN THE NEW SI

15.30 Opening of the symposium

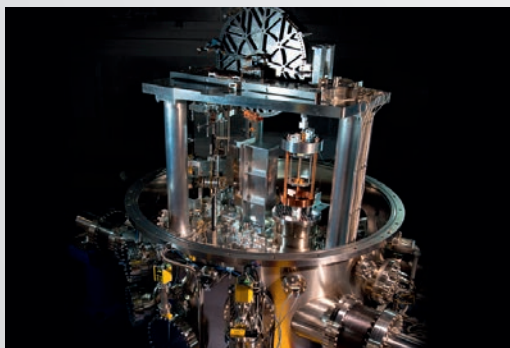
Prof. Dr. Joachim Ullrich
President of PTB and Chairman
of the Helmholtz-Fonds e. V.

15.45 Realization of the kilogram via
the Avogadro experiment

Prof. Dr. Frank Härtig
Head of the PTB Division
"Mechanics and Acoustics"

16.15 Watt balances: Providing a direct route
from quantum electrical standards to
the unit of mass

Dr. Stephan Schlamminger
National Institute of Standards and
Technology, Gaithersburg, USA



AWARDING OF THE 2016 HELMHOLTZ PRIZE

16:45 Category "Precision measurements in
fundamental research"

This year's prize winners are:

Dr. Maksim Kunitski

Stefan Zeller

Dr. Jörg Voigtsberger

Dr. Till Jahnke

Prof. Dr. Reinhard Dörner

Goethe University, Frankfurt am Main,
Faculty of Physics

Title of the work:

"Measuring binding energies
of molecular quantum halos
with neV precision"

The prize winners present their
award-winning work in a brief lecture.

17.30 Category "Precision measurements
in applied metrology"

This year's prize winners are:

Dr. Nicholas A. W. Bell

Dr. Ulrich F. Keyser

Cavendish Laboratory,
University of Cambridge,
United Kingdom

Title of the work:

"Digitally encoded DNA
nanostructures for multiplexed,
single-molecule protein sensing
with nanopores"

The prize winners present their
award-winning work in a brief lecture.

18.15 Stand-up reception