Programme
66th Lindau Nobel Laureate Meeting
26 June – 1 July 2016
MEETING APP

WANT TO STAY UP TO DATE?
Download the Lindau Nobel Laureate Meetings App.
Available in Android, iTunes and Windows app stores.
(“Lindau Nobel Laureate Meetings”)

- Up to date programme info & details
- Session abstracts and poster abstracts
- Ask questions during panel discussions
- Participate in polls and surveys
- Interactive maps
- Connect to other participants
- Social media integration

Download the app (Lindau Nobel Laureate Meetings) in Android, iTunes or Windows Phone app stores. Within the app, use the passphrase “darkmatter” to download the guide for the 66th Lindau Nobel Laureate Meeting.

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The 66th Lindau Nobel Laureate Meeting is characterised by continuity and transition alike:

Back in 1951, the driving intention of the founders Dr. Franz Karl Hein, Professor Dr. Gustav Wilhelm Parade and Count Lennart Bernadotte was the vision that this gathering in Lindau, an island very close to its European neighbours, could contribute to reconciliation after the second world war, and foster a peaceful and prosperous future. Today, with a world still in conflict, this idea is as modern and convincing as it was 66 years ago.

The most obvious sign of transition is the meeting location: While originally, the meetings were indeed held in the main meeting venue of the year 2016, Lindau’s city theatre, they had long been moved to the Inselhalle. This much larger convention space served as home to the meetings for more than thirty years, but also was in need of a general make-over and extension. With the conclusion of the 65th Meeting, extended renovation and construction works began. Re-opening is scheduled for next year, right in time for the 67th Lindau Nobel Laureate Meeting.

Since the establishment of the Foundation Lindau Nobel Laureate Meetings, in the year 2000, Wolfgang Schürer had served as chairman of the board of the Foundation. In fifteen remarkably successful years, he managed to build up not only an endowment, but also a strong network of international partners. Many of his strategic initiatives paved the way of the meetings into a successful future. The members of the Lindau Council and Foundation are grateful for his years of dedicated service to Lindau’s Mission Education.

Every year, we are challenged by the young scientists to further increase interaction with Nobel Laureates, to provide more opportunities for young students to present their work, and to enable even more exchange. A new addition to this year’s Lindau programme are therefore poster sessions, allowing young researchers to present their studies. Successful formats such as master classes are continued. The Heidelberg Lecture, given by Turing Award winner Vinton G. Cerf, is a first we are very excited about. The newly introduced meeting app will allow more recent programme information and new exchange opportunities.

The Lindau Meetings are about science. And they are about the benefit of science for mankind, as Alfred Nobel put it so famously in his last will, defining who should receive a Nobel Prize. And in this very sense, Lindau is also a place to become inspired – about science, about life, about humankind’s future.

We wish you a most rewarding week in Lindau!

Council for the Lindau Nobel Laureate Meetings
Foundation Lindau Nobel Laureate Meetings
30 NOBEL LAUREATES

HIROSHI AMANO  STEVEN CHU
AARON CIECHANOVER  JOHANN DEISENHOFER
IVAR GIAEVER  ROY J. GLAUBER
DAVID J. GROSS  THEODOR W. HANSCH
SERGE HAROCHE  STEFAN W. HELL
ROBERT HUBER  BRIAN D. JOSEPHSON
TAKAAKI KAJITA  MARTIN KARPLUS
KLAUS VON KLITZING  ARTHUR B. MCDONALD
HARTMUT MICHEL  WILLIAM D. PHILLIPS
CARLO RUBBIA  BERT SAKMANN  BRIAN P. SCHMIDT
DAN SHECHTMAN  GEORGE F. SMOOT  SAMUEL TING
GERARDUS ’T HOOFT  MARTINUS J. G. VELTMAN
CARL E. WIEEMAN  DAVID J. WINELAND
KURT WÜTHRICH  ADA E. YONATH
PROGRAMME OVERVIEW

Sunday, 26 June
- 07.00: Breakfast
- 08.00: Registration 10 - 20 hrs
- 09.00: Opening Ceremony
- 10.00: Lecture: Amano
- 11.00: Coffee Break
- 12.00: Lecture: Gross
- 13.00: Lunch Break
- 14.00: Panel Discussion: Glimpses Beyond the Standard Model
- 15.00: Young Scientists Discussions: Amano | Gross | Kajita | Rubbia | McDonald
- 16.00: Break
- 17.00: Social Function: Dinner at various locations

Monday, 27 June
- 07.00: Breakfast
- 08.00: Lecture: Haroche
- 09.00: Coffee Break
- 10.00: Lecture: Hänsch
- 11.00: Lunch Break
- 12.00: Young Scientist's Discussions
- 13.00: Poster Session with 30 selected posters from young scientists
- 14.00: Lecture: von Klitzing
- 15.00: Break
- 16.00: Social Function: International Get-Together at various locations

Tuesday, 28 June
- 07.00: Breakfast
- 08.00: Lecture: Ting
- 09.00: Coffee Break
- 10.00: Lecture: Chu
- 11.00: Lunch Break
- 12.00: Young Scientists Discussions: Chu | Gross | Kajita | Rubbia | McDonald
- 13.00: Master classes
- 14.00: Lecture & Disc.:
- 15.00: Break
- 16.00: Social Function: Gala Dinner

Wednesday, 29 June
- 07.00: Breakfast
- 08.00: Lecture: Smoot
- 09.00: Coffee Break
- 10.00: Lecture: Shechtman
- 11.00: Lunch Break
- 12.00: Young Scientists Discussions: Smoot | Shechtman | Wüthrich | Michel | Ting
- 13.00: Lecture: Giaever
- 14.00: Lecture: Karplus
- 15.00: Break
- 16.00: Social Function: Bavarian Evening at Elite Network of Bavaria & Free State of Bavaria

Thursday, 30 June
- 07.00: Breakfast
- 08.00: Lecture: Yonath
- 09.00: Coffee Break
- 10.00: Lecture: Wisam
- 11.00: Lunch Break
- 12.00: Young Scientists Discussions: Yonath | Wisam
- 13.00: Lecture: Carl
- 14.00: Lecture: Schmidt
- 15.00: Break
- 16.00: Social Function: Farewell Ceremony

Friday, 1 July
- 07.00: Breakfast
- 08.00: Lecture: Meier
- 09.00: Coffee Break
- 10.00: Lecture: Meier
- 11.00: Lunch Break
- 12.00: Young Scientists Discussions: Meier
- 13.00: Lecture: Huber
- 14.00: Lecture: Bozell
- 15.00: Break
- 16.00: Social Function: Baden-Württemberg Boat Trip to Mainau Island

Saturday, 25 June
- 07.00: Breakfast
- 08.00: Lecture: Glauber
- 09.00: Coffee Break
- 10.00: Lecture: Karplus
- 11.00: Lunch Break
- 12.00: Young Scientists Discussions: Karplus
- 13.00: Lecture: Schmidt
- 14.00: Lecture: Wüthrich
- 15.00: Break
- 16.00: Social Function: Baden-Württemberg Boat Trip to Lindau
**EXHIBITION “NOBELS”**

On the occasion of the 66th Lindau Nobel Laureate Meeting, Peter Badge’s portraits of Nobel Laureates for Peace and Literature are exhibited at the Stadttheater. His “Ingenious Encounters” reflect on the personalities, achievements and lives of the laureates from a unique perspective, which is both unusual and fascinating.

**SUNDAY, 26 JUNE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>10.00</td>
<td>Meeting Registration</td>
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<td></td>
<td>Stadttheater</td>
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<td></td>
<td>from 10.00 – 20.00 hrs continuously</td>
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<td>15.45</td>
<td>Seats for the Opening Ceremony need to be taken by 15.45 hrs at the</td>
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<td>latest. Strictly no access after 15.45 hrs.</td>
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<td>16.00</td>
<td>Opening Ceremony</td>
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<td></td>
<td>Welcome</td>
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<td></td>
<td><em>Countess Bettina Bernadotte</em></td>
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<td>President of the Council for the Lindau Nobel Laureate Meetings</td>
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<td>Greetings from Stockholm</td>
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<td><em>Klas Kärre</em></td>
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<td>Member of The Nobel Assembly for Physiology and Medicine</td>
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<td></td>
<td>Member of The Board of Directors of The Nobel Museum, Sweden</td>
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<td>Welcome Address</td>
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<td><em>Heinz Fischer</em></td>
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<td>Federal President of the Republic of Austria</td>
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<td>Address and Laudation to Wolfgang Schürer</td>
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<td><em>Johanna Wanka</em></td>
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<td>Federal Minister of Education and Research, Germany</td>
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<td>Awarding of the Lennart-Bernadotte-Medal in Gold to Wolfgang Schürer</td>
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<td><em>Countess Bettina Bernadotte</em></td>
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<td>President of the Council for the Lindau Nobel Laureate Meetings</td>
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<td></td>
<td>Presentation of the Limited English Edition of Peter Badge’s Ingenious Encounters in Honor of Wolfgang Schürer</td>
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<td><em>Thomas Ellerbeck and Nikolaus Turner</em></td>
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<td>Members of the Board, Foundation Lindau Nobel Laureate Meetings</td>
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<td>Awarding of the Honorary Chair of the Board of the Foundation Lindau Nobel Laureate Meetings to Wolfgang Schürer</td>
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<td><em>Jürgen Kluge</em></td>
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<td>Chairman of the Board, Foundation Lindau Nobel Laureate Meetings</td>
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Remarks
Wolfgang Schürer
Chairman of the Board (2000-2015),
Foundation Lindau Nobel Laureate Meetings

Presentation
Brian Malow
Earth’s Premier Science Comedian, United States

Master of Ceremony
Adam Smith
Chief Scientific Officer, Nobel Media AB, Sweden

Instrumental Accompaniment
Ensemble of the Vienna Philharmonic Orchestra
Access: Nobel Laureates, young scientists, guests
Additional capacities are available at the inner courtyard or the Marionettenoper on the 2nd floor.

18.00 Break
18.30 Dinner
Please see your personal agenda for details.

Partner Event
07.00
Science Breakfast
Hotel Bayer. Hof
Quantum Information: from Fundamentals to a New Technology
hosted by Austrian Federal Ministry of Science, Research and Economy
Gabriela Barreto Lemos
Institute for Quantum Optics and Quantum Information (IQOQI), Austria
Rainer Blatt
Institute of Experimental Physics, University of Innsbruck, Austria
William D. Phillips
Laser Cooling and Trapping Group, National Institute of Standards and Technology (NIST), United States
David J. Wineland
Physical Measurement Laboratory, National Institute of Standards and Technology (NIST), United States
Moderator: Anton Zeilinger
President of the Austrian Academy of Sciences

Welcome
Barbara Weitgruber
Director General, Austrian Federal Ministry of Science, Research and Economy
Access: with online pre-registration only

09.00 Plenary Lecture
Stadthalle
Hiroshi Amano
Lighting the Earth by LEDs
09.30 Plenary Lecture
Stadthalle
Takaaki Kajita
Atmospheric Neutrinos
10.00 Coffee Break
hosted by Austrian Federal Ministry of Science, Research and Economy
10.30 Plenary Lecture
Stadthalle
David J. Gross
One Hundred Years of General Relativity – The Enduring Legacy of Albert Einstein
11.00 Plenary Lecture
Stadthalle
Carlo Rubbia
The Future of Energy
11.30 Coffee Break
hosted by Austrian Federal Ministry of Science, Research and Economy

12.00 Plenary Lecture
Stadthaus

12.30 Plenary Lecture
Stadthaus

13.00 Lunch Break
hosted by Austrian Federal Ministry of Science, Research and Economy
Access: young scientists, Nobel Laureates

15.00 Panel Discussion
Stadthaus

16.30 Break

16.45 Discussion
Hotel Bayer. Hof

MONDAY, 27 JUNE

16.45 Discussion
Hotel Bayer. Hof

16.45 Discussion
Landratsamt

16.45 Discussion
Forum am See

16.45 Discussion
Hotel Bayer. Hof

16.45 Discussion
Hotel Bayer. Hof

18.15 International Get-Together
Boat trip to Bregenz, Austria (Seebühne/lake stage)
hosted by the Austrian Federal Ministry of Science, Research and Economy

18.30 Departure (Lindau Harbour) to Bregenz Seebühne
MONDAY, 27 JUNE

19.00
Social Function
Bregenz

International Get-Together
hosted by the Austrian Federal Ministry of Science, Research and Economy

Welcome
Countess Bettina Bernadotte
President of the Council for the Lindau Nobel Laureate Meetings

Greetings
Markus Wallner
State Governor of Vorarlberg, Austria

Welcome Address
Reinhold Mitterlehner
Vice Chancellor and Federal Minister of Science, Research and Economy, Austria

Cultural Performance
Musical Group: Federspiel

Master of Ceremony
Bronwen Rolls
Director of the Doing Collective

Dinner
Access: Nobel Laureates, young scientists
Access for guests/journalists by invitation only

Departure (Bregenz, Seebühne/lake stage)

Arrival (Lindau)

Note: 3 buses will leave from the bus station at Lindau main train station and serve all stops along the lines to Alwind or Schönau.

22.15
Bregenz Seebühne

22.45
Lindau Harbour

23.00

TUESDAY, 28 JUNE

Partner Event
Excellence in Science and Sports
hosted by Rolex SA

Arnaud Boetsch
Director of Communication and Image, Rolex SA, Switzerland

Bettina Heim
Department of Physics, ETH Zurich, Switzerland

Kurt Wüthrich
The Scripps Research Institute (TSRI), La Jolla, United States

Moderator: Mark Kendall
The University of Queensland, Australia
Access: with online pre-registration only

07.00
Plenary Lecture
Stadttheater

Serge Haroche
Cavity Quantum Electrodynamics and Circuit QED: from Fundamental Tests to Quantum Information

09.00
Science Breakfast
Hotel Bayer. Hof

Arnaud Boetsch
Director of Communication and Image, Rolex SA, Switzerland

Bettina Heim
Department of Physics, ETH Zurich, Switzerland

Kurt Wüthrich
The Scripps Research Institute (TSRI), La Jolla, United States

Moderator: Mark Kendall
The University of Queensland, Australia
Access: with online pre-registration only

09.00
Plenary Lecture
Stadttheater

David J. Wineland
Atomic Ion Clocks

10.00
Coffee Break

10.30
Plenary Lecture
Stadttheater

Theodor W. Hänsch
Changing Concepts of Light and Matter

11.00
Plenary Lecture
Stadttheater

William D. Phillips
Superfluid Atomic Gas in a Ring: A New Kind of Closed Circuit

11.30
Coffee Break
TUESDAY, 28 JUNE

12.00  
Plenary Lecture  
Stadththeater  
Klaus von Klitzing  
A New International System of Units in 2018!?  
How my Nobel Prize Contributed to this Development

12.30  
Plenary Lecture  
Stadththeater  
Gerardus ’t Hooft  
How One Single Elementary Particle Can Make the Difference

13.00  
Catering Tent  
Lunch Break  
Access: young scientists, Nobel Laureates

15.00  
Discussion  
Altes Rathaus  
Theodor W. Hänsch  
Discussion with Young Scientists

15.00  
Discussion  
Hotel Bayer. Hof  
Serge Haroche  
Discussion with Young Scientists

15.00  
Discussion  
Landratsamt  
Klaus von Klitzing  
Discussion with Young Scientists

15.00  
Discussion  
Forum am See  
William D. Phillips  
Discussion with Young Scientists

15.00  
Discussion  
Evangel. Hospital  
Gerardus ’t Hooft  
Discussion with Young Scientists

15.00  
Discussion  
Hotel Bayer. Hof  
David J. Wineland  
Discussion with Young Scientists

16.30  
Break

17.00  
Hotel Bayer. Hof  
Poster Session  
Poster session with 30 selected posters from young scientists.  
For poster abstracts, please refer to the meeting app or mediatheque. lindau-nobel.org.  
Access: all participants

18.30  
Break

19.00  
Social Function  
Various Locations  
Academic Dinners  
upon invitation of the academic partners  
Access: by invitation only

19.00  
Social Function  
Toskanapark  
Grill & Chill: Connecting Cultures  
upon invitation of the Council & Foundation  
Access: by invitation only

MISSED SOMETHING?  
Watch it online at  
mediatheque.lindau-nobel.org
WEDNESDAY, 29 JUNE

07.00
Science Breakfast
Hotel Bayer. Hof

**Why Does Soft Matter Matter?**
hosted by Mars, Incorporated

*Steven Chu*
Physics Department, Stanford University, United States

*Antonio Redondo*
Senior Scientist, Los Alamos National Laboratory, United States

*Young Scientist (tbd)*

*Moderator: Adam Smith*
Chief Scientific Officer, Nobel Media AB

Access: with online pre-registration only

09.00
Plenary Lecture
Stadttheater

*George F. Smoot*
Gravitational Waves, Merging Black Holes

09.30
Plenary Lecture
Stadttheater

*Samuel Ting*
The Alpha Magnetic Spectrometer (AMS)
on the International Space Station

10.00
Coffee Break

10.30
Plenary Lecture
Stadttheater

*Kurt Wüthrich*
NMR in Physics, Structural Biology and Medical Diagnosis

11.00
Plenary Lecture
Stadttheater

*Steven Chu*
Optical Microscopy 2.0

11.30
Plenary Lecture
Stadttheater

*Hartmut Michel*
Oxygen Removal and Energy Conservationby Membrane Integrated Terminal Oxidases

12.00
Coffee Break

12.30
Plenary Lecture
Stadttheater

*Johann Deisenhofer*
Photosynthetic Light Reactions, Revisited

13.00
Plenary Lecture
Stadttheater

*Robert Huber*
Protein Structures in Translational Medicine and Business Development, My Experience

13.30
Lunch Break
Catering Tent
Access: young scientists, Nobel Laureates

15.00
Discussion
Forum am See

*Steven Chu*
Discussion with Young Scientists

15.00
Discussion
Evangel. Hospital

*Johann Deisenhofer*
Discussion with Young Scientists

15.00
Discussion
Altes Rathaus

*Robert Huber*
Discussion with Young Scientists

15.00
Discussion
Stadttheater

*Hartmut Michel*
Discussion with Young Scientists

15.00
Discussion
Altes Rathaus

*George F. Smoot*
Discussion with Young Scientists

15.00
Discussion
Altes Rathaus

*Samuel Ting*
Discussion with Young Scientists

15.00
Discussion
Landratsamt

*Johann Deisenhofer*
Discussion with Young Scientists

16.30
Break

17.00
Lecture & Discussion
Altes Rathaus

*Ivar Giaever*
Global Warming One Last Time

17.00
Lecture & Discussion
Altes Rathaus

*Brian D. Josephson*
Emergent Self-Organising Activity as the True Foundation of Reality
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<th>Location</th>
<th>Details</th>
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<tbody>
<tr>
<td>17.00</td>
<td>Master Class with Steven Chu</td>
<td>Hotel Bayer. Hof</td>
<td>Physics-Based Measurements of our Changing Climate Change, and the Clean Energy Challenges for Carbon-Free Energy</td>
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<tr>
<td>17.00</td>
<td>Master Class with William D. Phillips</td>
<td>Hotel Bayer. Hof</td>
<td>Ultra-Cold Gases of Neutral Atoms and Molecules</td>
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<tr>
<td>17.00</td>
<td>Master Class with Brian P. Schmidt</td>
<td>Hotel Bayer. Hof</td>
<td>Big Questions, Big Instruments, Big Ideas</td>
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<tr>
<td>17.00</td>
<td>Master Class with David J. Wineland</td>
<td>Hotel Bayer. Hof</td>
<td>Quantum Information and Quantum Measurement</td>
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<tr>
<td>17.00</td>
<td>Master Class with Kurt Wüthrich</td>
<td>Hotel Bayer. Hof</td>
<td>Physics in Structural Biology, Medical Diagnosis, and Physical Exercise and Rehabilitation</td>
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<tr>
<td>18.30</td>
<td>Break</td>
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WEDNESDAY, 29 JUNE

19.00
Heidelberg Lecture
Stadttheater

Vinton G. Cerf

Heidelberg Lecture:
The Origins and Evolution of the Internet

In accordance with Klaus Tschira’s idea, the Heidelberg Laureate Forum where Abel, Fields and Turing Laureates meet the next generation was modelled after the Lindau Nobel Laureate Meetings. The Lindau and Heidelberg Lecture series show the strong affiliation.

Vinton G. Cerf was awarded the ACM A.M. Turing Award in 2004.

20.00
Social Function
Catering Tent

Dinner
Access: young scientists
Dinner starts after the preceeding lecture.

Looking for abstracts?
Session and poster abstracts are available at mediatheque.lindau-nobel.org and in the LNLM app.

The Lindau Meetings: Now and Then
An Exhibition

19 March – 28 August 2016 | Stadtmuseum Lindau
Free exhibition access with Young Scientist name badge
THURSDAY, 30 JUNE

Partner Event

07.00 Science Breakfast Hotel Bayer. Hof


Frank Mattern
Senior Partner, McKinsey & Company, Inc., Germany

Hannah Price
L INO-CNR BEC Center, Università di Trento, Italy

Łukasz Marek Rudnicki
Center for Theoretical Physics, Polish Academy of Sciences, Poland

Brian P. Schmidt
The Research School of Astronomy and Astrophysics, The Australian National University, Australia

Moderator: Matthias Evers
Senior Partner, McKinsey & Company, Inc., Germany

Access: with online pre-registration only

09.00 Plenary Lecture Stadttheater

Dan Shechtman
The Science and Beauty of Soap Bubbles

09.30 Plenary Lecture Stadttheater

Ada E. Yonath
What was First, the Genetic Code or its Products?

10.00 Coffee Break

10.30 Plenary Lecture Stadttheater

Martin Karplus
Motion: Hallmark of Life. From Marsupials to Molecules

11.00 Plenary Lecture Stadttheater

Carl E. Wieman
A Scientific Approach to Learning Physics

11.30 Coffee Break

12.00 Plenary Lecture Stadttheater

Brian P. Schmidt
State of the Universe

12.30 Plenary Lecture Stadttheater

Roy J. Glauber
Recollections of Los Alamos - And the Nuclear Era

13.00 Lunch Break Catering Tent

Access: young scientists, Nobel Laureates

15.00 Panel Discussion Stadttheater

Panel Discussion: Is Quantum Technology the Future of the 21st Century?

Serge Haroche
Ecole Normale Supérieure, Collège de France, France

Gerardus ’t Hooft
Institute for Theoretical Physics, Utrecht University, Netherlands

William D. Phillips
Laser Cooling and Trapping Group, National Institute of Standards and Technology, United States

David J. Wineland
Physical Measurement Laboratory, The National Institute of Standards and Technology (NIST), United States

Moderator: Christian Meier
Science Journalist, Scicaster, Germany

16.30 Break

17.00 Discussion Hotel Bayer. Hof

Roy J. Glauber
Discussion with Young Scientists

Martin Karplus
Discussion with Young Scientists

Brian P. Schmidt
Discussion with Young Scientists

17.00 Discussion Evang. Hospital

17.00 Discussion Landratsamt

Dan Shechtman
Discussion with Young Scientists
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<td>18.30</td>
<td>Break</td>
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<td>19.00</td>
<td>Bavarian Evening</td>
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<td>hosted by the Elite Network of Bavaria and the Free State of Bavaria</td>
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<td>Words of Welcome</td>
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<td>Ludwig Spaenle</td>
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<td>Bavarian State Minister of Education, Science and the Arts, Germany</td>
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<td>Bavaria – Land of Science and Research</td>
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<td>Hartmut Michel</td>
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<td>Max Planck Institute of Biophysics, Germany</td>
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<td>Current Research Projects within the Elite Network of Bavaria</td>
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<td>Cora Uhlemann, Markus A. Huber</td>
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<td>Bavarian Parade with Traditional Music</td>
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<td>20.00</td>
<td>Bavarian Dinner</td>
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<td>hosted by the Elite Network of Bavaria and the Free State of Bavaria</td>
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<td></td>
<td>Access: Nobel Laureates, young scientists</td>
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<td>Access for guests with online pre-registration only</td>
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**FORMER IMPERIAL CITY LIBRARY**

**Exhibition Johannes Kepler (1571-1630)**

25 June – 2 July 2016 | Altes Rathaus

Free access to the exhibition | Brief guided tours: 28 June 13.30 – 15.00 hrs

(Approximately every 15 minutes) by curator Professor Dr. Burkhard Kümmerer
FRIDAY, 1 JULY

07.15
MS Sonnenkönigin

Baden-Württemberg Boat Trip to Mainau Island
hosted by the State of Baden-Württemberg

Access: Nobel Laureates, young scientists
Access for guests and journalists with online pre-registration only
Note: For all participants departing on Friday and not returning to
their hotel: No luggage may be taken on the boat. Two luggage lorries
will be available; please place your luggage accordingly.
Lorry 1: to “Mainau Island”: for those not returning to Lindau. Pick-up is
at main entrance on Mainau Island until 17:30 hrs.
Lorry 2: to “Lindau”: for those leaving directly after their return to
Lindau. Pick-up is at Lindau harbour immediately after arrival.
Certificates of Attendance will be available during the return boat trip.

Check-In (Lindau)

07.45

Lindau Harbour

08.00

Arrival (Hotel Bad Schachen)

08.15

Bad Schachen

Welcome
Simone Schwanitz
Deputy Minister
Ministry of Science, Research and the Arts of Baden-Württemberg
State Government of Baden-Württemberg, Germany

Arrival (Mainau Island)

10.20

Mainau Island

11.00

Welcome on Mainau Island
Countess Bettina Bernadotte and Count Björn Bernadotte

Induction of a New Member to the Honorary Senate of
the Foundation Lindau Nobel Laureate Meetings
Thomas Schmidheiny
Swiss Entrepreneur and Philanthropist

11.20

Closing Panel Discussion
Mainau Island
Castle Meadow

Panel Discussion: The Future of Education in Sciences
Brian P. Schmidt
The Research School of Astronomy and Astrophysics
The Australian National University, Australia

Georg Schütte
State Secretary
German Federal Ministry of Education and Research, Germany

Dan Shechtman
Department of Materials Science and Engineering
Technion - Israel Institute of Technology, Israel

Tamás Vámi
Institute for Particle and Nuclear Physics
Wigner Research Centre for Physics, Hungary

Carl E. Wieman
Department of Physics, Stanford University, United States

Moderator: Karan Khemka
Managing Director, Co-head of Education, Parthenon-EY, Singapore

13.00

Science Picnic on the Arboretum Lawn
hosted by the Ministry of Science, Education and the Arts and the
State of Baden-Württemberg

15.30

Conclusion & Farewell
Countess Bettina Bernadotte
President of the Council for the Lindau Nobel Laureate Meetings
Simone Schwanitz
Deputy Minister
Ministry of Science, Research and the Arts of Baden-Württemberg
State Government of Baden-Württemberg, Germany

16.30

Departure (Mainau Island)
Baden-Württemberg Boat Trip to Lindau
hosted by the State of Baden-Württemberg

18.30

Bad Schachen

Arrival (Hotel Bad Schachen)

18.45

Lindau Harbour

Arrival (Lindau)
The Meetings

The Lindau Nobel Laureate Meetings – established in 1951 – provide globally recognised forums for exchange between Nobel Laureates and young scientists. They inspire scientific generations and build sustainable networks of young scientists around the world.

The original idea of the meetings goes back to the two Lindau physicians Dr. Franz Karl Hein and Professor Dr. Gustav Wilhelm Parade as well as Count Lennart Bernadotte af Wisborg, a member of the Swedish royal family who quickly became the spiritus rector of the Lindau Meetings. It was them who recognised very early the significance of the meetings for the reconciliation of the people of post-war Europe and thus systematically developed them to an international forum for the exchange of knowledge between nations, cultures and disciplines.

The Organisers

The Council for the Lindau Nobel Laureate Meetings and the Foundation Lindau Nobel Laureate Meetings organise the annual one-week events. The executive secretariat is responsible for planning and realisation.

Countess Bettina Bernadotte af Wisborg is president of the Council, which sets the course for the Lindau Meetings’ concept and programme. Internationally accredited scientists from the fields of medicine, physics, chemistry and the economic sciences are members of the Council. The work of the Council benefits from the commitment of the secretaries of the assemblies responsible for awarding the Nobel Prizes, which are represented in the Lindau Council.

The Foundation was established in the year 2000 by the Council and the Bernadotte family on the initiative of 50 Nobel Laureates. Prof. Dr. Jürgen Kluge serves as the chairman of the board of the Foundation. Joint initiatives regarding the advancement of the Lindau Meetings and the establishment of an international network of academic partners are key priorities in addition to ensuring sustainable funding.

The Lindau Meetings enjoy widespread support. More than 300 Nobel Laureates are members of the founders’ assembly of the Foundation and demonstrate – through their membership and their participation in the Lindau Dialogue – their support for the principle of the Lindau Nobel Laureate Meetings. Personalities from the worlds of science, politics and industry have been inaugurated into the Foundation’s honorary senate in recognition of the special commitment they have shown towards scientific excellence and the promotion of young scientists.

Funding of the Lindau Nobel Laureate Meetings

The Lindau Nobel Laureate Meetings are made possible thanks to the support received from supranational, national and state bodies, companies, associations and private patrons.

International companies, selected foundations, associations and private patrons assure the material basis for the Lindau Meetings by making donations to the assets of the Foundation Lindau Nobel Laureate Meetings. Interest earned on the endowment, plus additional annual contributions by benefactors cover the budget of the Lindau Meetings. Donations in kind also play an important role in raising the professional level of the Meetings. Not least the success of the Lindau Meetings can also be attributed to the commitment shown by the Nobel Laureates, members of the Council and the board of the Foundation during the preparation, realisation and evaluation of the meetings. A full list of supporters is enclosed in this programme.

The Academic Partners Network

The Lindau Nobel Laureate Meetings interact closely with a global network of academic partners to identify highly-talented young scientists and to nominate them for participation. Partners include national academies of science, ministries, research institutions, top-ranking universities, foundations and international scientific organisations. Without this support, the Lindau Nobel Laureate Meetings would not be able to identify and invite the most gifted scientific talents world-wide.

The world’s best young scientists of tomorrow submit applications to at-
ABOUT THE MEETINGS

A full list of academic partners can be found in the Participant Directory.

Lanyard Color Key

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turquoise</td>
<td>Nobel Laureates, their Partners and Family Members</td>
</tr>
<tr>
<td>Grey</td>
<td>Young Scientists</td>
</tr>
<tr>
<td>Blue</td>
<td>Visiting Scientists</td>
</tr>
<tr>
<td>Red</td>
<td>Guests</td>
</tr>
<tr>
<td>Yellow</td>
<td>Journalists</td>
</tr>
<tr>
<td>Lime Green</td>
<td>Host Families</td>
</tr>
<tr>
<td>Purple</td>
<td>Lindau Citizens</td>
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<tr>
<td>Orange</td>
<td>Contractors</td>
</tr>
<tr>
<td>Brown</td>
<td>Contractors of Third Parties</td>
</tr>
<tr>
<td>Green</td>
<td>Council &amp; Foundation</td>
</tr>
<tr>
<td>Black</td>
<td>Staff of the Executive Secretariat</td>
</tr>
</tbody>
</table>

Programme Session Types

The 66th Lindau Nobel Laureate Meeting features a variety of session formats. In general, the mornings usually offer plenary formats, while the afternoons add more interactive elements.

Plenary Lecture

Plenary lectures are given by Nobel Laureates only. They may choose a topic of their liking – be it their Nobel Prize research, be it something else. As the time is limited to thirty minutes, there is usually no discussion.

Plenary Panel Discussion

In a plenary panel discussion, several panelists jointly discuss one topic. This year, three discussions are offered: on Monday (“Glimpses Beyond the Standard Model”), on Thursday (“Is Quantum Technology the Future of the 21st Century?”) and on Friday (“The Future of Education in Sciences”).

Discussion Session

In the afternoon, all lectures held in the morning can be discussed in separate discussion sessions. These research-oriented discussions are strictly limited to Laureates and young scientists, and switching between sessions should be avoided.

Master Class

This format offers a most intense exchange between young scientists and Laureates, as selected young scientists present their research and then engage in an in-depth discussion with a Laureate. Attendance is on a first come, first served basis.

Science Breakfast

Science breakfasts are additional options for a more informal exchange. They are organised by Lindau’s partners, featuring talks, discussions and a joint breakfast with a Nobel Laureate. Attendance requires online pre-registration.

Poster Session

The poster session gives a selected number of young scientists the opportunity to show their posters. Attendance is open to all.
The Lindau Nobel Laureate Meetings would like to thank all maecenates, patrons and donors for their contributions to the endowment of the Foundation.

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and anonymous benefactors
### BUS LINES & TIME TABLE

#### Daytime Bus Lines (5.18 - 20.54)

<table>
<thead>
<tr>
<th>Line</th>
<th>Route</th>
<th>Bus Stop</th>
<th>Departure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Oberschützing - Anneggerstr. (ZUP) - Insel</td>
<td>Hauptbahnhof</td>
<td>5:24</td>
</tr>
<tr>
<td>#1</td>
<td>Oberschützing - Anneggerstr. (ZUP) - Zech</td>
<td>Hauptbahnhof</td>
<td>5:25</td>
</tr>
<tr>
<td>#2</td>
<td>Griesen (Lin) - Grensiedlung/Zech</td>
<td>Hauptbahnhof</td>
<td>5:26</td>
</tr>
<tr>
<td>#3</td>
<td>Grensiedlung/Zech - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:27</td>
</tr>
<tr>
<td>#4</td>
<td>Oberschützing - Stockingerstr.</td>
<td>Hauptbahnhof</td>
<td>5:28</td>
</tr>
<tr>
<td>#5</td>
<td>Stockingerstr. - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:29</td>
</tr>
<tr>
<td>#6</td>
<td>Oberschützing - Inselbrücke</td>
<td>Hauptbahnhof</td>
<td>5:30</td>
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<tr>
<td>#7</td>
<td>Inselbrücke - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:31</td>
</tr>
<tr>
<td>#8</td>
<td>Oberschützing - Altos</td>
<td>Hauptbahnhof</td>
<td>5:32</td>
</tr>
<tr>
<td>#9</td>
<td>Altos - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:33</td>
</tr>
<tr>
<td>#10</td>
<td>Oberschützing - Stockingerstr.</td>
<td>Hauptbahnhof</td>
<td>5:34</td>
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<td>#11</td>
<td>Stockingerstr. - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:35</td>
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<tr>
<td>#12</td>
<td>Oberschützing - Inselbrücke</td>
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<td>#13</td>
<td>Inselbrücke - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:37</td>
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<td>#14</td>
<td>Oberschützing - Altos</td>
<td>Hauptbahnhof</td>
<td>5:38</td>
</tr>
<tr>
<td>#15</td>
<td>Altos - Oberschützing</td>
<td>Hauptbahnhof</td>
<td>5:39</td>
</tr>
</tbody>
</table>

#### How to Read the Time Table

The time table on the opposite page shows operating hours and departure times for all four lines and both directions. The first three columns (earliest, Saturday, Sunday) indicate when the earliest bus runs from each stop, while the last two columns show the last service. The two middle columns (every hour at) show when buses depart between the first and last service. Example: 24/54 means that this bus departs from the station every hour at minute 24 and 54 (e.g. at 15:24 hrs and 15:54 hrs).

#### Instructions

- The time table on the opposite page shows operating hours and departure times for all four lines and both directions.
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### BUS LINES & TIME TABLE

#### Evening & Night Bus Lines (21.10 - 00.10)

**Special Operating Hours during the Meeting**

Please consider the following extra tours in addition to the bus lines:

### Late Circle A from ZUP via Alwind and Unterreitsau to ZUP

<table>
<thead>
<tr>
<th>Route</th>
<th>Sunday 26 June 2016</th>
<th>Monday 27 June 2016</th>
<th>Tuesday 28 June 2016</th>
<th>Wednesday 29 June 2016</th>
<th>Thursday 30 June 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra tour (line 3)</td>
<td>Main station (HBF) - ZUP - Schönau</td>
<td>20:51 &amp; 21:56</td>
<td>23:00</td>
<td>23:00</td>
<td>23:00</td>
</tr>
<tr>
<td>Extra tour (line 4)</td>
<td>&quot;Main station (HBF) - Alwind &quot;</td>
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<td>23:00</td>
<td>23:00</td>
<td>21:56</td>
</tr>
</tbody>
</table>

### Late Circle B from ZUP via Main Island (island) and Zich to Oberschlossing

### Late Circle C from ZUP via Main Island (island) and Zich to Oberschlossing

### Anheggerstraße (ZUP)

<table>
<thead>
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<th>Route</th>
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<th>Monday 27 June 2016</th>
<th>Tuesday 28 June 2016</th>
<th>Wednesday 29 June 2016</th>
<th>Thursday 30 June 2016</th>
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<td>23:00</td>
<td>23:00</td>
<td>21:56</td>
</tr>
</tbody>
</table>

### Evening & Night Bus Lines (21.10 - 00.10)

### Please consider the following extra tours in addition to the bus lines:

Both tours serve all stops along the lines to Alwind and Schönau.

### Late Circle A from ZUP via Alwind and Unterreitsau to ZUP

### Late Circle B from ZUP via Main Island (island) and Zich to Oberschlossing

### Late Circle C from ZUP via Main Island (island) and Zich to Oberschlossing

### Anheggerstr. (ZUP)

<table>
<thead>
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<th>Route</th>
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<th>Tuesday 28 June 2016</th>
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</tr>
</tbody>
</table>

### Evening & Night Bus Lines (21.10 - 00.10)

**Please consider the following extra tours in addition to the bus lines:**

### Special Operating Hours during the Meeting**

Please consider the following extra tours in addition to the bus lines:

**Both tours serve all stops along the lines to Alwind and Schönau.**
GOOD TO KNOW

Opening Hours Registration Desk Young Scientists

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, 25 June</td>
<td>15.00 – 18.00</td>
</tr>
<tr>
<td>Sunday, 26 June</td>
<td>10.00 – 20.00</td>
</tr>
<tr>
<td>Monday, 27 June</td>
<td>08.30 – 18.00</td>
</tr>
<tr>
<td>Tuesday, 28 June</td>
<td>08.30 – 14.00</td>
</tr>
<tr>
<td>Wednesday, 29 June</td>
<td>08.30 – 14.00</td>
</tr>
<tr>
<td>Thursday, 30 June</td>
<td>08.30 – 20.00</td>
</tr>
</tbody>
</table>

Opening Hours Registration Desk Guests and Press

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, 26 June</td>
<td>10.00 – 18.30</td>
</tr>
<tr>
<td>Monday, 27 June</td>
<td>08.30 – 18.00</td>
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<td>08.30 – 18.00</td>
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<td>Wednesday, 29 June</td>
<td>08.30 – 20.00</td>
</tr>
<tr>
<td>Thursday, 30 June</td>
<td>08.30 – 20.00</td>
</tr>
</tbody>
</table>

On site Contacts

The office can be reached during the meeting as follows:

Registration Desk  Tel +49 8382 91139 29
Fax +49 8382 91139 19
Press Desk     Tel +49 8382 91139 28
email          info@lindau-nobel.org
Emergency       112
Taxi            +49 8382 6006  or  +49 8382 4455

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Lars Bergström
Secretary of Nobel Committee for Physics (2004-2015)
Deputy Member of the Board of the Nobel Foundation
Physics Section, The Royal Swedish Academy, Stockholm, Sweden
Professor of Theoretical Physics, Stockholm University

Rainer Blatt
Member of the Austrian Academy of Sciences, Austria
Institute for Experimental Physics, University of Innsbruck, Austria
Institute for Quantum Optics and Quantum Information (IQOQI), Austria

Future Meetings

67th Lindau Nobel Laureate Meeting (Chemistry)
25 June – 30 June 2017

6th Lindau Meeting on Economic Sciences
22 – 26 August 2017

68th Lindau Nobel Laureate Meeting (Physiology & Medicine)
24 June – 29 June 2018

69th Lindau Nobel Laureate Meeting (Physics)
30 June – 5 July 2019

70th Lindau Nobel Laureate Meeting (Interdisciplinary)
28 June – 3 July 2020

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