



## Programme

66<sup>th</sup> Lindau Nobel Laureate Meeting  
26 June – 1 July 2016

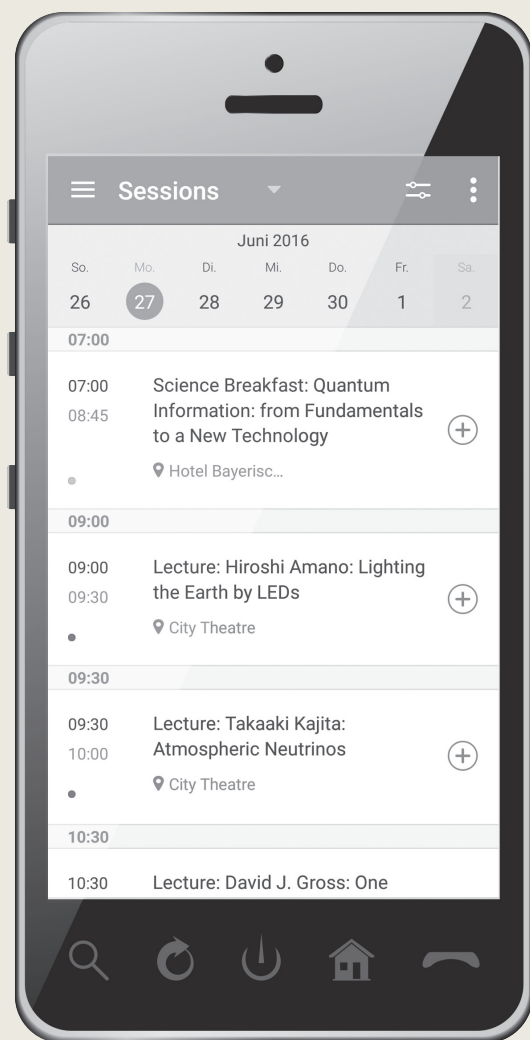


LINDAU  
NOBEL LAUREATE  
MEETINGS

# 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 66<sup>th</sup> Lindau Nobel Laureate Meeting.

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WELCOME



## LINDAU NOBEL LAUREATE MEETINGS

The 66<sup>th</sup> 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 65<sup>th</sup> Meeting, extended renovation and construction works began. Re-opening is scheduled for next year, right in time for the 67<sup>th</sup> 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

WELCOME

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



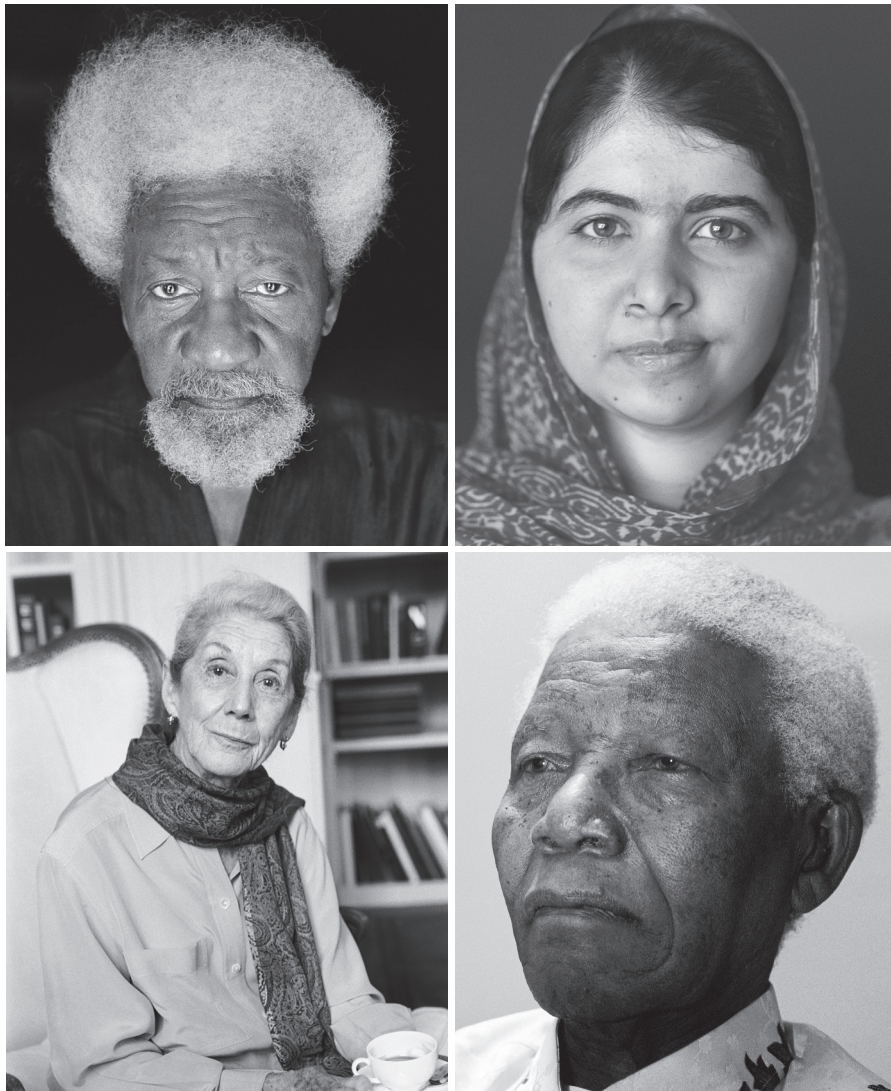
## 30 NOBEL LAUREATES

- HIROSHI AMANO STEVEN CHU  
AARON CIECHANOVER JOHANN DEISENHOFER  
IVAR GIAEVER ROY J. GLAUBER  
DAVID J. GROSS THEODOR W. HÄNSCH  
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. WIEMAN DAVID J. WINELAND  
KURT WÜTHRICH ADA E. YONATH

# PROGRAMME OVERVIEW

	Sunday, 26 June	Monday, 27 June	Tuesday, 28 June	Wednesday, 29 June	Thursday, 30 June	Friday, 1 July	
07.00		<i>Science Breakfast</i>	<i>Science Breakfast</i>	<i>Science Breakfast</i>	<i>Science Breakfast</i>		07.00
08.00		<b>Science Breakfast</b> hosted by the Austrian Federal Ministry of Science, Research and Economy	<b>Science Breakfast</b> hosted by Rolex SA	<b>Science Breakfast</b> hosted by Mars, Incorporated	<b>Science Breakfast</b> hosted by McKinsey & Company, Inc.	<b>Baden-Württemberg Boat Trip</b> to Mainau Island hosted by the State of Baden-Württemberg	08.00
09.00		<i>Lecture</i> <b>Amano</b>	<i>Lecture</i> <b>Haroche</b>	<i>Lecture</i> <b>Smoot</b>	<i>Lecture</i> <b>Shechtman</b>		09.00
10.00		<i>Lecture</i> <b>Kajita</b>	<i>Lecture</i> <b>Wineland</b>	<i>Lecture</i> <b>Ting</b>	<i>Lecture</i> <b>Yonath</b>		10.00
11.00	<b>Registration</b> 10 - 20 hrs	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>		
11.00		<i>Lecture</i> <b>Gross</b>	<i>Lecture</i> <b>Hänsch</b>	<i>Lecture</i> <b>Wüthrich</b>	<i>Lecture</i> <b>Karplus</b>		
11.00		<i>Lecture</i> <b>Rubbia</b>	<i>Lecture</i> <b>Phillips</b>	<i>Lecture</i> <b>Chu</b>	<i>Lecture</i> <b>Wieman</b>	<i>Closing Panel Discussion</i>	11.00
12.00		<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>The Future of Education in Natural Sciences</b> Schmidt   Schütte Shechtman   Wieman   Vámi Moderator: Khemka	12.00
13.00		<i>Lecture</i> <b>Veltman</b>	<i>Lecture</i> <b>von Klitzing</b>	<i>Lecture</i> <b>Michel</b>	<i>Lecture</i> <b>Schmidt</b>		
14.00		<i>Lecture</i> <b>McDonald</b>	<i>Lecture</i> <b>'t Hooft</b>	<i>Lecture</i> <b>Deisenhofer</b>	<i>Lecture</i> <b>Glauber</b>		
15.00		<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Science Picnic on the Aboretum Lawn</b>	14.00
16.00		<i>Panel Discussion</i> <b>Glimpses Beyond the Standard Model</b> Chu   Gross   Kajita   Rubbia Moderator: Pauss	<i>Young Scientists Discussions</i> Hänsch   Haroche   von Klitzing Phillips   't Hooft   Wineland	<i>Young Scientists Discussions</i> Chu   Deisenhofer   Huber Michel   Smoot Ting   Wüthrich	<i>Panel Discussion</i> <b>Is Quantum Technology the Future of the 21st Century?</b> Haroche   't Hooft   Phillips   Wineland Moderator: Meier		15.00
17.00	<b>Opening Ceremony</b>	<i>Young Scientists Discussions</i> Amano   Gross   Kajita McDonald   Rubbia   Veltman	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Farewell Ceremony</b>	16.00
18.00	<b>Break</b>		<i>Poster Session</i> Poster session with 30 selected posters from young scientists	<i>Master classes</i> <b>Chu</b> Phillips Wineland Wüthrich Schmidt	<i>Lecture &amp; Disc.</i> Glauber Josephson	<b>Baden-Württemberg Boat Trip</b> to Lindau hosted by the State of Baden-Württemberg	17.00
19.00	<i>Social Function</i>	<i>Social Function</i>	<b>Break</b>	<b>Break</b>	<i>Young Scientists Discussions</i> Glauber   Karplus Schmidt   Shechtman   Wieman   Yonath		18.00
20.00	<b>Dinner</b> at various locations	<b>International Get-Together</b> hosted by Austrian Federal Ministry of Science, Research and Economy	<i>Social Function</i>	<b>Break</b>	<b>Break</b>		19.00
21.00			<b>Academic Dinners</b> at various locations hosted by academic partners or <b>Grill &amp; Chill</b> hosted by Council & Foundation	<i>Heidelberg Lecture</i> Cerf	<i>Social Function</i>	<b>Bavarian Evening</b> hosted by Elite Network of Bavaria & Free State of Bavaria	20.00
22.00				<i>Social Function</i>			21.00
							22.00

SUNDAY, 26 JUNE



## EXHIBITION “NOBELS”

On the occasion of the 66<sup>th</sup> 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.

**10.00**

Registration  
Stadttheater

### Meeting Registration

from 10.00 – 20.00 hrs continuously

**15.45**

Seats for the Opening Ceremony need to be taken by 15.45 hrs at the latest. Strictly no access after 15.45 hrs.

**16.00**

Opening  
Ceremony  
Stadttheater

### Opening Ceremony

#### Welcome

*Countess Bettina Bernadotte*

President of the Council for the Lindau Nobel Laureate Meetings

#### Greetings from Stockholm

*Klas Kärre*

Member of The Nobel Assembly for Physiology and Medicine  
Member of The Board of Directors of The Nobel Museum, Sweden

#### Welcome Address

*Heinz Fischer*

Federal President of the Republic of Austria

#### Address and Laudation to Wolfgang Schürer

*Johanna Wanka*

Federal Minister of Education and Research, Germany

#### Awarding of the Lennart-Bernadotte-Medal in Gold to Wolfgang Schürer

*Countess Bettina Bernadotte*

President of the Council for the Lindau Nobel Laureate Meetings

#### Presentation of the Limited English Edition of Peter Badges’ Ingenious Encounters in Honor of Wolfgang Schürer

*Thomas Ellerbeck and Nikolaus Turner*

Members of the Board, Foundation Lindau Nobel Laureate Meetings

#### Awarding of the Honorary Chair of the Board of the Foundation Lindau Nobel Laureate Meetings to Wolfgang Schürer

*Jürgen Kluge*

Chairman of the Board, Foundation Lindau Nobel Laureate Meetings

**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**  
Social Function  
Various Locations

**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  
Stadttheater

*Hiroshi Amano*  
**Lighting the Earth by LEDs**

**09.30**  
Plenary Lecture  
Stadttheater

*Takaaki Kajita*  
**Atmospheric Neutrinos**

**10.00 Coffee Break**


hosted by Austrian Federal Ministry of Science, Research and Economy

**10.30**  
Plenary Lecture  
Stadttheater

*David J. Gross*  
**One Hundred Years of General Relativity –  
The Enduring Legacy of Albert Einstein**

**11.00**  
Plenary Lecture  
Stadttheater

*Carlo Rubbia*  
**The Future of Energy**

<b>11.30</b>	<b>Coffee Break</b> hosted by Austrian Federal Ministry of Science, Research and Economy
<b>12.00</b> Plenary Lecture Stadttheater	<i>Martinus J.G. Veltman</i> <b>After Finding the Higgs Particle</b>
<b>12.30</b> Plenary Lecture Stadttheater	<i>Arthur B. McDonald</i> <b>The Sudbury Neutrino Observatory: Observation of Flavor Change for Solar Neutrinos</b>
<b>13.00</b> Catering Tent 	<b>Lunch Break</b> hosted by Austrian Federal Ministry of Science, Research and Economy Access: young scientists, Nobel Laureates
<b>15.00</b> Panel Discussion Stadttheater	<b>Panel Discussion: Glimpses Beyond the Standard Model</b> <i>Steven Chu</i> Physics Department, Stanford University, United States <i>David J. Gross</i> Kavli Institute for Theoretical Physics, University of California, Santa Barbara, United States <i>Takaaki Kajita</i> Institute for Cosmic Ray Research, University of Tokyo, Japan <i>Carlo Rubbia</i> European Organization for Nuclear Research, CERN, Switzerland <i>Via Video-Live-Stream from CERN:</i> <i>Fabiola Gianotti</i> Director General, European Organization for Nuclear Research, CERN, Switzerland <i>Young Scientists from the LHC experiments</i> <i>Moderator: Felicitas Pauss</i> Professor for Experimental Particle Physics, ETH Zurich, Switzerland
<b>16.30</b>	<b>Break</b>
<b>16.45</b> Discussion Hotel Bayer. Hof	<i>Hiroshi Amano</i> <b>Discussion with Young Scientists</b>

<b>16.45</b> Discussion Hotel Bayer. Hof	<i>David J. Gross</i> <b>Discussion with Young Scientists</b>
<b>16.45</b> Discussion Landratsamt	<i>Takaaki Kajita</i> <b>Discussion with Young Scientists</b>
<b>16.45</b> Discussion Forum am See	<i>Arthur B. McDonald</i> <b>Discussion with Young Scientists</b>
<b>16.45</b> Discussion Hotel Bayer. Hof	<i>Carlo Rubbia</i> <b>Discussion with Young Scientists</b>
<b>16.45</b> Discussion Hotel Bayer. Hof	<i>Martinus J.G. Veltman</i> <b>Discussion with Young Scientists</b>
<b>18.15</b> Lindau Harbour	<b>International Get-Together</b> <b>Boat trip to Bregenz, Austria (Seebühne/lake stage)</b> hosted by the Austrian Federal Ministry of Science, Research and Economy
	<b>Check-In and Boarding</b> Note: Please remember to have your passport with you as we cross the border to Austria. Access: Nobel Laureates, young scientists Access for guests/journalists by invitation only
<b>18.30</b> Lindau Harbour	<b>Departure (Lindau Harbour) to Bregenz Seebühne</b>



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

22.15

Bregenz Seebühne

#### Departure (Bregenz, Seebühne/lake stage)

22.45

Lindau Harbour

#### Arrival (Lindau)

23.00

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.

Partner Event

07.00

Science Breakfast  
Hotel Bayer. Hof



### 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

09.00

Plenary Lecture  
Stadttheater

*Serge Haroche*

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

09.30

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**

<b>12.00</b> Plenary Lecture Stadttheater	<i>Klaus von Klitzing</i> <b>A New International System of Units in 2018! How my Nobel Prize Contributed to this Development</b>
<b>12.30</b> Plenary Lecture Stadttheater	<i>Gerardus 't Hooft</i> <b>How One Single Elementary Particle Can Make the Difference</b>
<b>13.00</b> Catering Tent 	<b>Lunch Break</b> Access: young scientists, Nobel Laureates
<b>15.00</b> Discussion Altes Rathaus	<i>Theodor W. Hänsch</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Hotel Bayer. Hof	<i>Serge Haroche</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Landratsamt	<i>Klaus von Klitzing</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Forum am See	<i>William D. Phillips</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Evangel. Hospital	<i>Gerardus 't Hooft</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Hotel Bayer. Hof	<i>David J. Wineland</i> <b>Discussion with Young Scientists</b>
<b>16.30</b>	<b>Break</b>


<b>17.00</b> Hotel Bayer. Hof	<b>Poster Session</b> 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
<b>18.30</b>	<b>Break</b>
<b>19.00</b> Social Function Various Locations 	<b>Academic Dinners</b> upon invitation of the academic partners Access: by invitation only
<b>19.00</b> Social Function Toskanapark 	<b>Grill &amp; Chill: Connecting Cultures</b> upon invitation of the Council & Foundation Access: by invitation only

MISSED SOMETHING?

Watch it online at  
[mediatheque.lindau-nobel.org](http://mediatheque.lindau-nobel.org)



<b>Partner Event</b>	<b>Why Does Soft Matter Matter?</b>
<b>07.00</b> Science Breakfast Hotel Bayer. Hof 	hosted by Mars, Incorporated <i>Steven Chu</i> Physics Department, Stanford University, United States <i>Antonio Redondo</i> Senior Scientist, Los Alamos National Laboratory, United States <i>Young Scientist (tbd)</i> <i>Moderator: Adam Smith</i> Chief Scientific Officer, Nobel Media AB Access: with online pre-registration only
<b>09.00</b> Plenary Lecture Stadttheater	<i>George F. Smoot</i> <b>Gravitational Waves, Merging Black Holes</b>
<b>09.30</b> Plenary Lecture Stadttheater	<i>Samuel Ting</i> <b>The Alpha Magnetic Spectrometer (AMS) on the International Space Station</b>
<b>10.00</b>	<b>Coffee Break</b>
<b>10.30</b> Plenary Lecture Stadttheater	<i>Kurt Wüthrich</i> <b>NMR in Physics, Structural Biology and Medical Diagnosis</b>
<b>11.00</b> Plenary Lecture Stadttheater	<i>Steven Chu</i> <b>Optical Microscopy 2.0</b>
<b>11.30</b> Plenary Lecture Stadttheater	<i>Hartmut Michel</i> <b>Oxygen Removal and Energy Conservation by Membrane Integrated Terminal Oxidases</b>
<b>12.00</b>	<b>Coffee Break</b>
<b>12.30</b> Plenary Lecture Stadttheater	<i>Johann Deisenhofer</i> <b>Photosynthetic Light Reactions, Revisited</b>
<b>13.00</b> Plenary Lecture Stadttheater	<i>Robert Huber</i> <b>Protein Structures in Translational Medicine and Business Development, My Experience</b>

<b>13.30</b> Catering Tent 	<b>Lunch Break</b> Access: young scientists, Nobel Laureates
<b>15.00</b> Discussion Forum am See	<i>Steven Chu</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Altes Rathaus	<i>Johann Deisenhofer</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Evangel. Hospital	<i>Robert Huber</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Stadttheater	<i>Hartmut Michel</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Altes Rathaus	<i>George F. Smoot</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Altes Rathaus	<i>Samuel Ting</i> <b>Discussion with Young Scientists</b>
<b>15.00</b> Discussion Landratsamt	<i>Kurt Wüthrich</i> <b>Discussion with Young Scientists</b>
<b>16.30</b>	<b>Break</b>
<b>17.00</b> Lecture & Discussion Altes Rathaus	<i>Ivar Giaever</i> <b>Global Warming One Last Time</b>
<b>17.00</b> Lecture & Discussion Altes Rathaus	<i>Brian D. Josephson</i> <b>Emergent Self-Organising Activity as the True Foundation of Reality</b>

## WEDNESDAY, 29 JUNE

17.00

Master Class  
Hotel Bayer. Hof

*Master Class with Steven Chu*

**Physics-Based Measurements of our Changing Climate Change, and the Clean Energy Challenges for Carbon-Free Energy**

*Young Scientists (tbd)*

Access: young scientists, first come, first served

17.00

Master Class  
Hotel Bayer. Hof

*Master Class with William D. Phillips*

**Ultra-Cold Gases of Neutral Atoms and Molecules**

*Monika Aidelsburger*

Fakultät für Physik, Ludwig-Maximilians-Universität München, Germany

*Logan W. Clark*

Physics, University of Chicago, United States

*Hannah Price*

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

*Philipp Wessels*

Department of Physics, University of Hamburg, Germany

Access: young scientists, first come, first served

17.00

Master Class  
Hotel Bayer. Hof

*Master Class with Brian P. Schmidt*

**Big Questions, Big Instruments, Big Ideas**

*Jean-Baptiste Fouvry*

Institut d'Astrophysique de Paris, Université Pierre et Marie Curie, France

*Matthew W. L. Smith*

School of Physics and Astronomy, Cardiff University, Great Britain

*Cora Uhlemann*

Institute for Theoretical Physics, Universiteit Utrecht Netherlands

Access: young scientists, first come, first served

## WEDNESDAY, 29 JUNE

17.00

Master Class  
Hotel Bayer. Hof

*Master Class with David J. Wineland*

**Quantum Information and Quantum Measurement**

*Gabriela Barreto Lemos*

Institute for Quantum Optics and Quantum Information (IQOQI - Vienna), Austria

*Pascal Cerfontaine*

Department of Physics, RWTH Aachen University, Germany

*Vanessa Chille*

Max Planck Institute for the Science of Light, Germany

*Hendrik Weimer*

Institut für Theoretische Physik, Leibniz Universität Hannover, Germany

Access: young scientists first come, first served

17.00

Master Class  
Hotel Bayer. Hof

*Master Class with Kurt Wüthrich*

**Physics in Structural Biology, Medical Diagnosis, and Physical Exercise and Rehabilitation**

*Antonio Benedetto*

School of Physics, University College Dublin, Ireland

*Dominique Gisin*

ETH Zurich, Switzerland

*Deblina Sarkar*

Massachusetts Institute of Technology (MIT), United States

*Katarzyna Tych*

Physics Department, Technische Universität München (TUM), Germany

Access: young scientists first come, first served

18.30

**Break**

# 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 preceding lecture.

09:00 - 09:30	Lecture	George Smoot Gravitational Waves, Merging Black Holes	📄 👤
09:30 - 10:00	Lecture	Samuel Ting AMS, a Particle Physics Detector on the International Space Station	📄 👤
10:00 - 10:30	Coffee Break		
10:30 - 11:00	Lecture	Kurt Wüthrich NMR in Physics, Structural Biology and Medical Diagnosis	📄 👤
11:00 - 11:30	Lecture	Steven Chu Optical Microscopy 2.0	📄 👤
11:30 - 12:00	Lecture	Hartmut Michel Oxygen Removal and Energy Conservation by Membrane Integrated Terminal Dehydrogenases	📄 👤
12:00 - 12:30	Coffee Break		
12:30 - 13:00	Lecture	Johann Deisenhofer Photosynthetic Light Reactions, Revisited	📄 👤
13:00 - 13:30	Lecture	Robert Huber Protein Structures in Translational Medicine and Business Development, My Experience	📄 👤
13:30 - 15:00	Lunch		
15:00 - 16:30	Discussion	Young Scientists Discussion Discussion Sessions with Steven Chu, Johann Deisenhofer, Robert Huber, Hartmut Michel, George Smoot, Samuel Ting, Kurt Wüthrich	📄 👤 👤 👤 👤
16:30 - 17:00	Break		
17:00 - 18:30	Discussion	William D. Phillips Master Class: Ultra-Cold Gases of Neutral Atoms and Molecules	📄 👤
17:00 - 18:30	Discussion	Brian Schmidt Master Class: Big Questions, Big Instruments, Big Ideas	📄 👤
17:00 - 18:30	Discussion	David Wineland Master Class: Quantum Information and Quantum Measurement	📄 👤
17:00 - 18:30	Discussion	Kurt Wüthrich Master Class: Physics in Structural Biology, Medical Diagnosis, and Physical Exercise and Rehabilitation	📄 👤

## LOOKING FOR ABSTRACTS?

Session and poster abstracts  
are available at


[mediatheque.lindau-nobel.org](http://mediatheque.lindau-nobel.org)

and in the LNLN app.



## THE LINDAU MEETINGS: NOW AND THEN An Exhibition

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

<b>Partner Event</b> <b>07.00</b> Science Breakfast Hotel Bayer. Hof 	<b>Decoding Science Leadership: Developing Capacity for Leading Science Innovation in a Rapidly Evolving “24/7 World” with Disruptive Opportunities and Challenges</b> hosted by McKinsey & Company, Inc. <i>Frank Mattern</i> Senior Partner, McKinsey & Company, Inc., Germany <i>Hannah Price</i> L INO-CNR BEC Center, Università di Trento, Italy <i>Łukasz Marek Rudnicki</i> Center for Theoretical Physics, Polish Academy of Sciences, Poland <i>Brian P. Schmidt</i> The Research School of Astronomy and Astrophysics, The Australian National University, Australia <i>Moderator: Matthias Evers</i> Senior Partner, McKinsey & Company, Inc., Germany Access: with online pre-registration only
<b>09.00</b> Plenary Lecture Stadttheater	<i>Dan Shechtman</i> <b>The Science and Beauty of Soap Bubbles</b>
<b>09.30</b> Plenary Lecture Stadttheater	<i>Ada E. Yonath</i> <b>What was First, the Genetic Code or its Products?</b>
<b>10.00</b>	<b>Coffee Break</b>
<b>10.30</b> Plenary Lecture Stadttheater	<i>Martin Karplus</i> <b>Motion: Hallmark of Life. From Marsupials to Molecules</b>
<b>11.00</b> Plenary Lecture Stadttheater	<i>Carl E. Wieman</i> <b>A Scientific Approach to Learning Physics</b>
<b>11.30</b>	<b>Coffee Break</b>
<b>12.00</b> Plenary Lecture Stadttheater	<i>Brian P. Schmidt</i> <b>State of the Universe</b>

<b>12.30</b> Plenary Lecture Stadttheater	<i>Roy J. Glauber</i> <b>Recollections of Los Alamos - And the Nuclear Era</b>
<b>13.00</b> Catering Tent 	<b>Lunch Break</b> Access: young scientists, Nobel Laureates
<b>15.00</b> Panel Discussion Stadttheater	<b>Panel Discussion: Is Quantum Technology the Future of the 21st Century?</b> <i>Serge Haroche</i> Ecole Normale Supérieure, Collège de France, France <i>Gerardus 't Hooft</i> Institute for Theoretical Physics, Utrecht University, Netherlands <i>William D. Phillips</i> Laser Cooling and Trapping Group, National Institute of Standards and Technology, United States <i>David J. Wineland</i> Physical Measurement Laboratory, The National Institute of Standards and Technology (NIST), United States <i>Moderator: Christian Meier</i> Science Journalist, Scicaster, Germany
<b>16.30</b>	<b>Break</b>
<b>17.00</b> Discussion Hotel Bayer. Hof	<i>Roy J. Glauber</i> <b>Discussion with Young Scientists</b>
<b>17.00</b> Discussion Hotel Bayer. Hof	<i>Martin Karplus</i> <b>Discussion with Young Scientists</b>
<b>17.00</b> Discussion Evang. Hospital	<i>Brian P. Schmidt</i> <b>Discussion with Young Scientists</b>
<b>17.00</b> Discussion Landratsamt	<i>Dan Shechtman</i> <b>Discussion with Young Scientists</b>



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.

07.15

Lindau Harbour

**Check-In (Lindau)**

07.45

Lindau Harbour

**Departure (Lindau)**

08.00

Bad Schachen

**Arrival (Hotel Bad Schachen)**

08.15

Bad Schachen

**Departure (Hotel Bad Schachen)****Welcome***Simone Schwanitz*

Deputy Minister

Ministry of Science, Research and the Arts of Baden-Württemberg  
State Government of Baden-Württemberg, Germany

10.20

Mainau Island

**Arrival (Mainau Island)**

11.00

Mainau Island  
Castle Meadow**Welcome on Mainau Island***Countess Bettina Bernadotte and Count Björn Bernadotte*

11.10

**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

Lunch Break

Mainau Island

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

15.30

Castle Courtyard

**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

Mainau Harbour

**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)**



## ABOUT THE MEETINGS

### *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

## ABOUT THE MEETINGS

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

tend the Lindau Nobel Laureate Meetings. An international, multi-stage selection process makes sure that the scientific elite of the future is able to come together with the Nobel Laureates in Lindau. Every year, several thousand young scientists apply worldwide.

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

### *Lanyard Color Key*

---

Turquoise	Nobel Laureates, their Partners and Family Members
Grey	Young Scientists
Blue	Visiting Scientists
Red	Guests
Yellow	Journalists
Lime Green	Host Families
Purple	Lindau Citizens
Orange	Contractors
Brown	Contractors of Third Parties
Green	Council & Foundation
Black	Staff of the Executive Secretariat

## ABOUT THE MEETINGS

### *Programme Session Types*

---

The 66<sup>th</sup> 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.

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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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WANT TO DISCUSS SCIENCE?

Visit the meeting blog at  
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and anonymous benefactors

# LINDAU ISLAND MAP



Evangelisches Hospital

Toskanapark

Altes Rathaus

Stadtmuseum

Landratsamt

Stadttheater

Forum am See

Hotel Bayerischer Hof

Bus stop

Lindau Harbour

Lindau - Bregenz  
Lindau - Bad Schachen/Meersburg/Konstanz





# BUS LINES & TIME TABLE

## Daytime Bus Lines (5.18 - 20.54)



### 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 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).

earliest Saturday Sunday every hour at latest

earliest Saturday Sunday every hour at latest

Bus Line #1 from Oberhochsteg via ZUP to Main Station (Island)	Bus Line #1 from Main Station (Island) via ZUP to Oberhochsteg
Oberhochsteg	Hauptbahnhof/Insel
Rickenbach	Altes Rathaus
Bayerstraße	Stadttheater
Nobelstraße	Maxhof
Wannental	Toskana
Lugeck	Langenweg
Schule Reutin	Anheggerstraße (ZUP)
Wiedemannstraße	Bodensee-Gymnasium
Josefskirche	Blauwiese
Köchlin	Köchlin
Blauwiese	Josefskirche
Bodensee-Gymnasium	Wiedemannstraße
Anheggerstraße (ZUP)	Schule Reutin
Langenweg	Lugeck
Toskana	Wannental
Heidenmauer	Nobelstraße
Inselhalle	Bayerstraße
Hauptbahnhof/Insel	Rickenbach
	Oberhochsteg

Bus Line #2 from Unterreitnau via ZUP to Main Station (Island)	Bus Line #2 from Main Station (Island) via ZUP to Unterreitnau
Unterreitnau	Hauptbahnhof/Insel
Eggatsweiler	Altes Rathaus
Schönau	Stadttheater
Entenberg	Maxhof
Hoyren	Toskana
Hochbuch	Langenweg
Heimesreutin	Anheggerstraße (ZUP)
Gstäudweg	Christuskirche
Schloß Moos	Schloß Moos
Christuskirche	Gstäudweg
Anheggerstraße (ZUP)	Heimesreutin
Langenweg	Hochbuch
Toskana	Hoyren
Heidenmauer	Entenberg
Inselhalle	Schönau
Westliche Insel	Unterreitnau
Hauptbahnhof/Insel	

Bus Line #3 from Oberreitnau Nord via ZUP to Grenziedlung/Zech	Bus Line #3 from Grenziedlung/Zech via ZUP to Oberreitnau Nord
Oberreitnau Nord	Grenziedlung/Zech
Emersberg/Oberreitnau	Kunert
Marienplatz/Oberreitnau	Metzeler
Kapelle	Gewerbegebiet
Paradies	Von-Behring-Straße
Schönau	Stadtwerke
Entenberg	Kamelbuckel
Hoyren	Buttlerhügel
Krankenhaus	Berliner Platz
Holbeinstraße	Jugendherberge/LIMARE
Kapelle	Am Torggel
Anheggerstraße (ZUP)	Aeschach
LIMARE	Am Torggel
Toskana	Holbeinstraße
Langenweg	Krankenhaus
Wackerstraße	Hoyren
Musikschule	Entenberg
Inselhalle	Schönau
Heidenmauer	Paradies
Maxhof	Kapelle
Stadttheater	Marienplatz
	Oberreitnau Nord

Bus Line #4 from Rehlings/Weißenberg via ZUP to Alwind	Bus Line #4 from Alwind via ZUP to Rehlings/Weißenberg
Rehlings/Weißenberg	Alwind
Lindenstraße/Weißenberg	Degelstein
Motzacher Wald	Ebnet
Motzach	Johannes d. Täufer
Inselbrauerei	Enzisweiler Post
Rotmoosstraße	Schachener Hof
Rennerle	Schwesterberg
Friedhof Aeschach	Giebelbach
V.-Heider-Gymnasium	Wackerstraße
Anheggerstraße (ZUP)	Musikschule
Lärche	Lärche
Musikschule	Anheggerstraße (ZUP)
Wackerstraße	V.-Heider-Gymnasium
Giebelbach	Friedhof Aeschach
Schwesterberg	Rennerle
Schachener Hof	Rotmoosstraße
Enzisweiler Post	Inselbrauerei
Johannes d. Täufer	Hasenbank
Ebnet	Schönbühl
Degelstein	Niederhaus
Alwind	Rehlings/Weißenberg



**Opening Hours Registration Desk Young Scientists**

Saturday, 25 June	15.00 – 18.00
Sunday, 26 June	10.00 – 20.00
Monday, 27 June	08.30 – 18.00
Tuesday, 28 June	08.30 – 14.00
Wednesday, 29 June	08.30 – 14.00
Thursday, 30 June	08.30 – 20.00

**Opening Hours Registration Desk Guests and Press**

Sunday, 26 June	10.00 – 18.30
Monday, 27 June	08.30 – 18.00
Tuesday, 28 June	08.30 – 18.00
Wednesday, 29 June	08.30 – 20.00
Thursday, 30 June	08.30 – 20.00

**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 email	Tel +49 8382 91139 28 info@lindau-nobel.org
Emergency	112
Taxi	+49 8382 6006 or +49 8382 4455

**Scientific Chairmen of the 66<sup>th</sup> Lindau Nobel Laureate Meeting****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**

67<sup>th</sup> Lindau Nobel Laureate Meeting (Chemistry)  
25 June – 30 June 2017

6<sup>th</sup> Lindau Meeting on Economic Sciences  
22 – 26 August 2017

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

69<sup>th</sup> Lindau Nobel Laureate Meeting (Physics)  
30 June – 5 July 2019

70<sup>th</sup> Lindau Nobel Laureate Meeting (Interdisciplinary)  
28 June – 3 July 2020

## HAVE A BRILLIANT THOUGHT?

Share it with us on  
[twitter](#)

@lindaunobel #LiNo16





Pablo Picasso, Doro Maar with Reclining Head, 1939 (c) Succession Picasso VG Bild-Kunst, Bonn 2016


## NOTES

A series of horizontal dotted lines for taking notes, spanning the width of the page.

## PABLO PICASSO'S PASSIONS

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





Council for the Lindau Nobel Laureate Meetings  
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