



LINDAU
NOBEL LAUREATE
MEETINGS

70

Programme

70th Lindau
Nobel Laureate
Meeting

27 June - 2 July 2021

Sessions

Scientific sessions,
social functions,
partner events,
networking breaks

Speakers

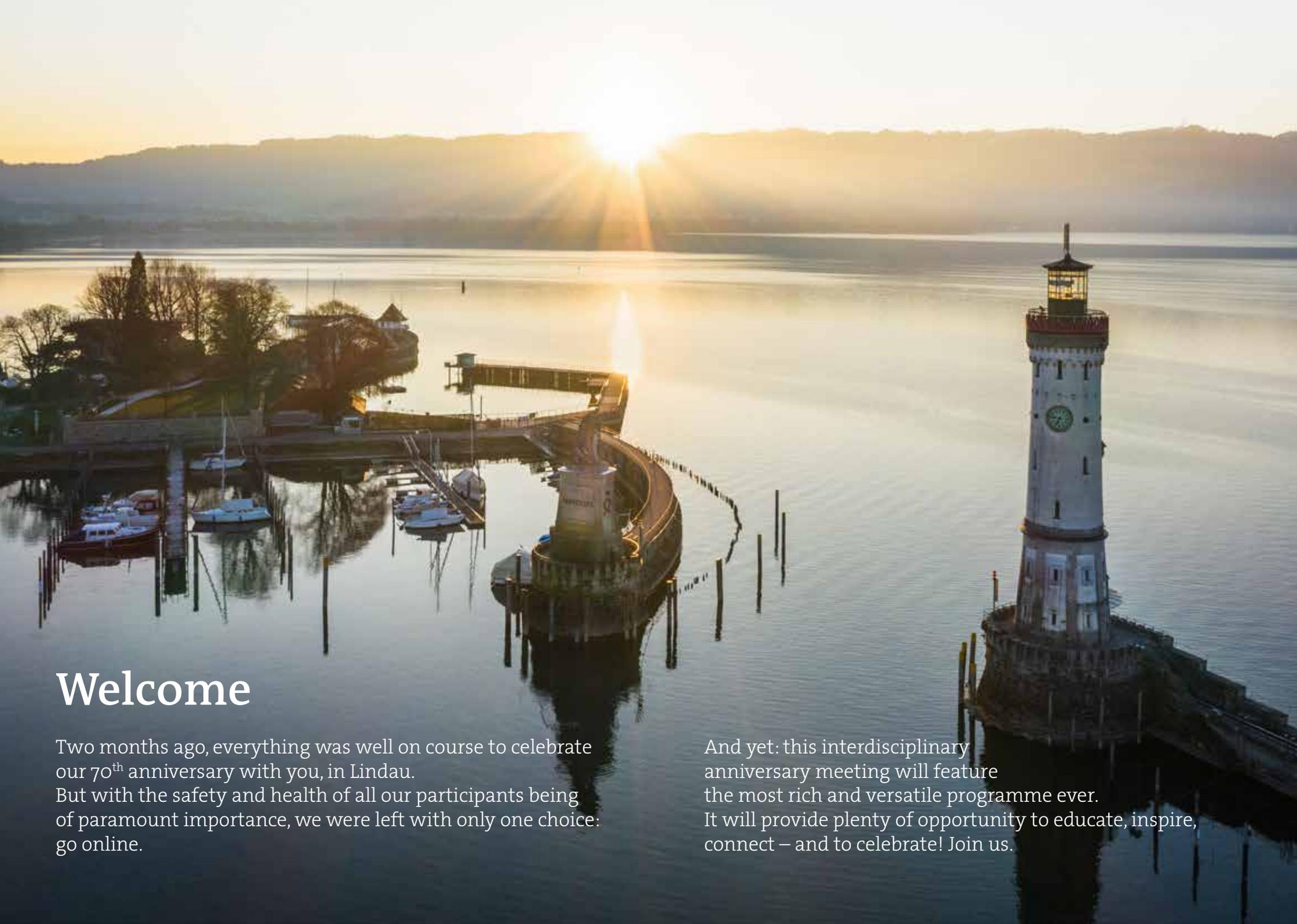
Nobel Laureates,
young scientists,
invited experts,
moderators

Access

Clear guidance
to all viewing
and participation
options

Background

Everything else
there is to know
for a successful
meeting



Welcome

Two months ago, everything was well on course to celebrate our 70th anniversary with you, in Lindau. But with the safety and health of all our participants being of paramount importance, we were left with only one choice: go online.

And yet: this interdisciplinary anniversary meeting will feature the most rich and versatile programme ever. It will provide plenty of opportunity to educate, inspire, connect – and to celebrate! Join us.

4 PARTICIPATING LAUREATES

PARTICIPATING LAUREATES 5



6 PROGRAMME OVERVIEW

PROGRAMME OVERVIEW 7

Time (Zones)	Sunday, 27 June	Monday, 28 June	Tuesday, 29 June	Wednesday, 30 June	Thursday, 1 July	Friday, 2 July
07 B13 / T14 / C15 D10 ³⁰ / N01 / S22*						
08 B14 / T15 / C16 D11 ³⁰ / N02 / S23 ¹		Partner Events • BASF SE, Germany • vfa, Verband forschender Pharma-Unternehmen	Partner Events • Austrian Federal Ministry of Education, Science and Research • Mars, Incorporated • Rolex SA	Panel Discussion Energy and Climate Chu, Haug, Laughlin, Mengis, Michel, Schmidt	Panel Discussion Open Science Blackburn, Dateris, Jex, Schekman young scientists	
09 B15 / T16 / C17 D12 ³⁰ / N03 / S24 ¹		Break Workout	Break Networking	Break Workout	Break Networking	Welcome from Mainau Island
10 B16 / T17 / C18 D13 ³⁰ / N04 / S01		Lecture Queloz	Conversation Fischer	Lecture Honjo	Next Gen Science presentations by young scientists	Panel Discussion Why Trust Science? Abderrahman, Heldin, Rheinberger, Schmidt
11 B17 / T18 / C19 D14 ³⁰ / N05 / S02		Agora Talk • Ciechanover, Feringa • Hoffmann • von Klitzing	Agora Talk • Huber, Michel, Wüthrich • Evans, Lindahl • zur Hausen, Marshall	Conversation Satyarthi		Panel Discussion Why Trust Science? Abderrahman, Heldin, Rheinberger, Schmidt
12 B18 / T19 / C20 D15 ³⁰ / N06 / S03		Break Networking	Social Programme Concert: Max Raabe	Break Networking	Social Programme Concert: Kerber Brothers Bavarian Breakfast	Closing
13 B19 / T20 / C21 D16 ³⁰ / N07 / S04		Panel Discussion Gene Editing Buxy, Charpentier, Jansing, Nüsslein-Volhard	Open Exchange Evans, Haroche, Huber, Kajita, Levitt, Marshall, Michel, Novoselov, Rubbia, Wüthrich, zur Hausen	Lecture Henderson	Lecture Yonath	
14 B20 / T21 / C22 D17 ³⁰ / N08 / S05	Opening Ceremony	Project: Lindau Guidelines	Project: Mentoring Hub	Next Gen Science presentations by young scientists	Conversation Kissinger	
15 B21 / T22 / C23 D18 ³⁰ / N09 / S06	Panel Discussion Corona and Emerging Pandemics Alter, Barré-Sinoussi, Neher, Huisman	Agora Talk • Agre, Amano • Lehn • Frank, Hell	Agora Talk • Haroche, Phillips • Nüsslein-Volhard • Rubbia	Open Exchange Gilbert, Henderson, Hershko, Josephson, Moser, Mourou, Yonath	Project: Lindau Online Sciathon	
16 B22 / T23 / C24 D19 ³⁰ / N10 / S07		Open Exchange Agre, Alter, Barré-Sinoussi, Charpentier, Feringa, Frank, Genzel, Hell, Lehn, Queloz	Lecture Leggett	Lecture Allison	Panel Discussion Artificial Intelligence: Promises and Threats Cerf, Eckhoff, ElHarouni, Karatz, Levitt, Schölkopf	
17 B23 / T24 / C01 ¹ D20 ³⁰ / N11 / S08	Break: Networking	Break Networking	Break: Workout	Break: Networking	Break: Workout	
18 B24 / T01 ¹ / C02 ¹ D21 ³⁰ / N12 / S09	Lecture Charpentier	Lecture Barish	Lecture Semenza	Agora Talk • Chalfie, Schekman • Hall, Mourou, Strickland • Hartwell	Lecture Smith	
19 B01 ¹ / T02 ¹ / C03 ¹ D22 ³⁰ / N13 / S10	Lecture Genzel	Lecture Thorne	Lecture Kaelin	Panel Discussion Dark and Black Genzel, Gross, Perlmutter, Plura, Weiss	Lecture Südhof	
20 B02 ¹ / T03 ¹ / C04 ¹ D23 ³⁰ / N14 / S11	Break: Networking	Next Gen Science presentations by young scientists	Next Gen Science presentations by young scientists	Heidelberg Lecture Dean	Agora Talk • Chu, Moerner • Grubbs, Schrock • Perlmutter, Riess	
21 B03 ¹ / T04 ¹ / C05 ¹ D00 ³⁰ / N15 / S12	Social Programme Concert: Karl Frierson Icebreaker Party	Agora Talk • Kobilka, Lefkowitz • Warshel	Open Exchange Blackburn, Kaelin, Leggett, Marcus, Murad, Phillips, Semenza, Ting, Whittingham	Open Exchange Allison, Chalfie, Gross, Hall, Hartwell, Laughlin, Perlmutter, Schekman, Strickland, Weiss	Open Exchange Chu, Grubbs, Haldane, Kosterlitz, Riess, Schrock, Rosbash, Smith	
		Open Exchange Barish, Kobilka, Lefkowitz, Thorne, Warshel			Social Programme Concert: Hazmat Modine Sunset Party	

Time Zones
The reference times on the left side are stated as Central European Summer Time (CEST).
Additional times zones are provided as smaller print.
B = Beijing (JST)
T = Tokyo (JST)
C = Canberra (AEST)
D = Delhi (IST)
N = New York (EDT/DST)
S = San Francisco (PDT/DST)
¹ = day before
¹ = day after
³⁰ = plus 30 minutes



Important Note

All times in this programme are stated as CEST, not as UTC.

How can I participate in the 70th Lindau Nobel Laureate Meeting (#LINO70)?

Full participation in the meeting on our conference platform Hopin is only possible for accepted young scientists and Nobel Laureates.

Supporters, guests, alumni and friends of the meetings may follow parts of the programme in our livestream at www.lindau-nobel.org. Note that you need to register in advance for the livestream.

A registration form will be available on our website shortly before the meeting.

Why are not all parts of the programme available in the livestream?

Some sessions are exclusively for young scientists, such as the open exchanges. In other cases, there can be limitations in distribution rights for some of the content.

Will the programme be available for on-demand viewing afterwards?

Yes. Usually, one or two days after the live programme, all sessions that are part of the livestream are also available at mediatheque.lindau-nobel.org.

I am a participant, but I have not received my access credentials.

Please write to your known contact, or to support@lindau-nobel.org.

I have technical problems accessing the meeting.

Please write to support@lindau-nobel.org, text to „Tech Support“ in Hopin, or visit the „Tech Support“ expo booth.

I am a speaker, panelist or NGS presenter at the meeting – can I show slides?

Yes, via screenshare, like in any other video call application.

Are there Q&As? Can I ask questions?

Yes, most of the sessions feature Q&A parts. You can ask your questions either in the Hopin Q&A tool, or you can request to join the stage, sharing your audio and video, and ask the question directly.

What networking options are there?

Hopin has a built-in networking function that works like speed dating. You can also contact all your peers on Hopin via the messaging system. Additionally, we offer networking on wonder.me – check out the information provided on Hopin how to access it.

Is there a meeting hashtag?

Sure: #LINO70. We will feature the meeting on Twitter, Facebook, LinkedIn and Instagram.

Can I sign the Lindau Guidelines?

You are most welcome to do so at www.lindauguidelines.org.

Why could the meeting not take place in Lindau?

First, we were convinced that the risks for everyone's health and well-being are still too high, unfortunately. Second, it is simply currently not legally allowed to hold such meetings with this number of participants.

To what timezone do the times stated in the programme refer?

All times refer to CEST, Central European Summer Time, or Lindau time. CEST in two hours ahead of UTC (+2).

Social Function**Opening of the 70th Lindau Nobel Laureate Meeting**

13:30

Welcome*Countess Bettina Bernadotte, President of the Council***Welcome Address***Frank-Walter Steinmeier, Federal President of Germany***Greetings from Stockholm****Welcome Speech***Anja Karliczek, German Federal Minister of Education and Research***Welcome Address***Bernd Sibler, Minister of Science and the Arts, Bavaria*

The Lindau Virtual Symphonic Orchestra

Discussion:**Made in Germany: Perspectives for International Young Scientists***with Reinhard Genzel, Anja Karliczek, and Bernd Sibler***Congratulatory Message***Heinz Faßmann, Minister of Education, Science and Research, Austria***Programme Highlights***with the meeting's scientific chairpersons Wolfgang Lubitz and Rainer Blatt*

The Lindau Virtual Band

Moderator: Jeanne Rubner*Bayerischer Rundfunk, Germany*

Panel Discussion**Corona and Emerging Pandemics**

15:00

Harvey J. Alter

National Institute of Health, USA

Françoise Barré-Sinoussi

Institut Pasteur, France

Jana Huisman

ETH Zurich, Switzerland

Richard Neher

University of Basel, Switzerland

Moderator: Stefan Kaufmann

Max Planck Institute for Infection Biology, Germany

Break**Networking Break**

16:30

with Brian Malow and guests

Lecture**Opening Lecture**

17:00

Emmanuelle Charpentier

Max Planck Unit for the Science of Pathogens, Germany

Lecture**A 40-Year Journey**

17:45

Reinhard Genzel

Max Planck Institute for Extraterrestrial Physics, Germany

Lecture**Hepatitis C: The End of the Beginning and Possibly the Beginning of the End**

18:30

Harvey J. Alter

National Institute of Health, USA

SUNDAY JUNE 27 15

Live Concert & Icebreaker Party

KARL FRIERSON

Live from the Zeughaus in Lindau

Icebreaker Party on wonder.me

Sunday June 27, 19.15 CEST



Partner Event

07:15

**vfa, Verband forschender Pharma-Unternehmen
New Vaccines Against New (and Old) Threats?**

Françoise Barré-Sinoussi
Institut Pasteur, France

Jyaysi Desai
Erasmus Medical Center, The Netherlands

Stefan Kaufmann
Max Planck Institute for Infection Biology, Germany

Han Steutel
vfa, Germany

Moderator: Kai Kupferschmidt
Science Journalist, Germany

Partner Event

07:15

**BASF SE, Germany
Sustainability Drives BASF. BASF Drives Sustainability.**

Melanie Maas-Brunner
Member of the Board, BASF SE, Germany

Yaqian Liu
BASF Advanced Chemicals, China

Priya Anand
BASF SE, Germany

Stefan Haefner
BASF SE, Germany

Kerstin Schierle-Arndt
BASF SE, Germany

Norman Funk
BASF Services Europe

Moderator: Jens Aßmann
BASF SE, Germany

Break

08:30

**Workout
»Antara - Feel your Spine «****Lecture**

09:15

The Exoplanet Revolution

Didier Queloz
ETH Zürich, Switzerland

Agora Talk

10:00

Next Generation Medicine

Aaron Ciechanover
Technion - Israel Institute of Technology, Israel

Ben L. Feringa
University of Groningen, The Netherlands

Moderator: Klas Kärre
Karolinska Institute, Sweden

Agora Talk

10:00

Practical Impact of the SI System

Klaus von Klitzing
Max Planck Institute for Solid State Research, Germany

Moderator: Heiner Linke
Lund University, Sweden

Agora Talk

10:00

Innate Immunity

Jules A. Hoffmann
Université de Strasbourg, France

Moderator: Stefan Kaufmann
Max Planck Institute for Infection Biology, Germany

Break

11:00

Networking Break

with Brian Malow and guests
Networking on wonder.me

Panel Discussion

12:00

Gene Editing

Alena Buyx
German Ethics Council / Technical University Munich, Germany

Emmanuelle Charpentier
Max Planck Unit for the Science of Pathogens, Germany

Julia Jansing
Maastricht University, The Netherlands

Christiane Nüsslein-Volhard
Max Planck Institute for Developmental Biology, Germany

Moderator: Adam Smith
Nobel Prize Outreach, Sweden

Project**Lindau Guidelines**

13:30

Learn more about the Lindau Guidelines, initiated 2018 by Elizabeth Blackburn, and endorsed by more than 30 Nobel Laureates.

See www.lindauguidelines.org for details.

Agora Talk**Light, Clean Water and Diseases**

14:00

Peter Agre

Johns Hopkins Malaria Research Institute, USA

Hiroshi Amano

Nagoya University, Japan

Moderator: Heiner Linke

Lund University, Sweden

Agora Talk**Pushing the Limits of Microscopy**

14:00

Joachim Frank

Columbia University, USA

Stefan W. Hell

Max Planck Institute for Biophysical Chemistry, Germany

Moderator: Adam Smith

Nobel Prize Outreach, Sweden

Agora Talk**Supramolecular Chemistry**

14:00

Jean-Marie Lehn

Université de Strasbourg, France

Moderator: Wolfgang Lubitz

Max Planck Institute for Chemical Energy Conversion, Germany

Open Exchange**Open Exchange with Peter Agre**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Harvey J. Alter**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Françoise Barré-Sinoussi**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Emmanuelle Charpentier**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Ben Feringa**

15:00

The Joy of Discovery

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Joachim Frank**

15:00

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Open Exchange**Open Exchange with Reinhard Genzel**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Stefan W. Hell**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Jean-Marie Lehn**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Didier Queloz**

15:00

Only open for Nobel Laureates and young scientists on Hopin.

Break**Networking Break**

16:30

with Brian Malow and guests

Networking on wonder.me

Lecture**How to Detect Gravitational Waves**

17:45

Barry C. Barish

*Caltech - California Institute of Technology, USA***Lecture****Storms in Spacetime from Colliding Black Holes**

18:30

Kip S. Thorne

*Caltech - California Institute of Technology, USA***Agora Talk****New Models to Understand Molecular Dynamics**

19:15

Arieh Warshel

University of Southern California, USA

Moderator: Wolfgang Lubitz

*Max Planck Institute for Chemical Energy Conversion, Germany***Agora Talk****Review and Outlook: The Nobel Prize in Chemistry 2012**

19:15

Brian K. Kobilka

Stanford University, USA

Robert J. Lefkowitz

Duke University, USA

Moderator: Klas Kärre

*Karolinska Institute, Sweden***Open Exchange****Open Exchange with Barry C. Barish**

20:15

The Role of Curiosity, in Science and Life

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Brian K. Kobilka**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Robert J. Lefkowitz**

20:15

A Tale of Two Callings

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Kip S. Thorne**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Arieh Warshel**

20:15

Multi Scale Simulations of the Action of Complex Biological Systems

Only open for Nobel Laureates and young scientists on Hopin.

Partner Event

07:15

**Austrian Federal Ministry of Education, Science and Research
From Science to Practice: Was the Pandemic an Accelerator?**

Johanna Gassler

Institute of Molecular Biotechnology (IMBA), Austria

Harald zur Hausen

German Cancer Research Center, Germany

Moderator: Eva Schernhammer

*Medical University of Vienna, Austria***Partner Event**

07:15

**Mars, Incorporated
How Can Genomics Help Achieve Global Food Security?**

Abigail Stevenson

Mars Advanced Research Institute (MARI), USA

Ada E. Yonath

Weizmann Institute of Science, Israel

María Clara Miserendino

Universidad Nacional de Córdoba, Argentina

Moderator: Adam Smith

*Nobel Prize Outreach, Sweden***Partner Event**

07:15

**Rolex SA
Excellence in Science for Society**

Felix Brooks-church

Social entrepreneur and inventor, USA and Tanzania

Konstantin S. Novoselov

*University of Manchester, United Kingdom**National University of Singapore, Singapore*

Fatima Enam

Stanford University, USA

Moderator: Faith McLellan

*World Health Organization WHO, Switzerland***Break**

08:30

Networking Break

with Brian Malow and guests

Networking on wonder.me

Conversation

09:15

Questions to Edmond H. Fischer

Edmond H. Fischer

University of Washington, USA

Moderator: Stefano Sandrone

*Imperial College, UK***Agora Talk**

10:00

Preserving and Controlling Genetic Information

Martin J. Evans

United Kingdom

Tomas Lindahl

Francis Crick Institute, UK

Moderator: Kai Kupferschmidt

*Science Journalist, Germany***Agora Talk**

10:00

Structural Biology and its Key Role in the Life Sciences

Robert Huber

Max Planck Institute of Biochemistry, Germany

Hartmut Michel

Max Planck Institute of Biophysics, Germany

Kurt Wüthrich

The Scripps Research Institute (TSRI), USA

Moderator: Wolfgang Lubitz

*Max Planck Institute for Chemical Energy Conversion, Germany***Agora Talk**

10:00

Infectious Agents and Cancer

Harald zur Hausen

German Cancer Research Center, Germany

Barry J. Marshall

The University of Western Australia, Australia

Moderator: Klas Kärre

Karolinska Institute, Sweden



Inspiration Concert

MAX RAABE &
PALASTORCHESTER

From Berlin, Germany

Tuesday, June 29, 11.00 CEST

Open Exchange**Open Exchange with Martin J. Evans**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Serge Haroche****History of the Science of Light**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Harald zur Hausen****The New Infectious Agents in Colon, Breast and Prostate Cancer**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Robert Huber****Academic Research and Spin-Off, My Experience**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Takaaki Kajita**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Michael Levitt****How to Deal with Future Crises**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Barry J. Marshall**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Hartmut Michel**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Konstantin S. Novoselov**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Carlo Rubbia**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Kurt Wüthrich**

12:00

Only open for Nobel Laureates and young scientists on Hopin.

Project**Mentoring Hub**

13:30

Learn more about the winning project of the 2020 Lindau Online Sciathon, developing an open-source mentoring platform solution, available first for Lindau Alumni.

Agora Talk**Animal Beauty**

14:00

Christiane Nüsslein-Volhard

Max Planck Institute for Developmental Biology, Germany

Moderator: Adam Smith

*Nobel Prize Outreach, Sweden***Agora Talk****Quantum Science**

14:00

Serge Haroche

Collège de France, France

William D. Phillips

National Institute of Standards and Technology (NIST), USA

Moderator: Rainer Blatt

*University of Innsbruck, Austria***Agora Talk****Particles Generated on Earth and in the Cosmos**

14:00

Carlo Rubbia

CERN European Organization for Nuclear Research, Switzerland

Moderator: Olaf Reimer

*University of Innsbruck, Austria***Lecture****Why Can't Time Run Backwards?**

15:00

Anthony J. Leggett

*University of Illinois at Urbana-Champaign, USA***Lecture****Storage Is Ready to Address Climate Change**

15:45

M. Stanley Whittingham

Binghamton University (SUNY), USA

Break**Workout »Bodyweight Workout - Breath the Strength«**

15:30

Lecture**Hypoxia-Inducible Factors in Physiology and Medicine**

17:00

Gregg L. Semenza
Johns Hopkins School of Medicine, USA

Lecture**The von Hippel-Lindau Hereditary Cancer Syndrome: From Bedside to Bench to Bedside**

17:45

William G. Kaelin, Jr.
Harvard Cancer Center, USA

Next Gen Science**Research by Young Scientists**

18:30

Data-Driven Experiment Planning in Chemistry

Matteo Aldeghi
Vector Institute & University of Toronto, Canada

Self-Supervised Learning Resolves Subcellular Protein Localization and More

Hirofumi Kobayashi
Chan Zuckerberg Biohub, USA

Confocal Fluorescence-Lifetime Single-Molecule Localization Microscopy

Jan Christoph Thiele
Georg-August University Göttingen, Germany

How T Cells Avoid Traffic Jams

Jérémy Postat
McGill University, Canada

Upscaling Solar-Driven Artificial Photosynthesis for Converting CO₂ Into Fuels: From Laboratory Research to Real-World Implementation in the \$20m Carbon Xprize Finals

Xiangkun (Elvis) Cao
Massachusetts Institute of Technology (MIT), USA

Spying on Viruses: Translation and Replication Dynamics of +Rna Viruses

Sanne Boersma
Hubrecht Institute - KNAW, The Netherlands

Synaptic Diversity Can Broaden the Range of Sound We Can Hear

Özge Demet Özçete
Harvard Medical School, USA

Open Exchange**Open Exchange with Elizabeth H. Blackburn**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with William G. Kaelin, Jr.**

20:15

**Preclinical Validation of Cancer Drug Targets:
The Importance of Experimental Design and Logic**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Anthony J. Leggett**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Rudolph A. Marcus**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Ferid Murad**

20:15

**Discovery of the Nitric Oxide and Cyclic GMP Signaling Pathway
and Application to Drug Development**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with William D. Phillips**

20:15

**Quantum Information; The New Quantum Metric System;
Laser Cooling; Cold Quantum Gases**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Gregg L. Semenza**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Samuel C. C. Ting**

20:15

Unexpected Results From the Cosmos

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with M. Stanley Whittingham**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Panel Discussion**Energy and Climate**

07:00

Steven Chu

Stanford University, USA

Gerald Haug

Leopoldina - National Academy of Sciences, Germany

Robert B. Laughlin

Stanford University, USA

Nadine Mengis

Geomar, Helmholtz Centre for Ocean Research, Germany

Hartmut Michel

Max Planck Institute of Biophysics, Germany

Brian P. Schmidt

The Australian National University, Australia

Moderator: Jim Skea

*Imperial College, UK***Break****Workout »Qui Gong - Contact the Elements «**

08:30

Lecture**Serendipities of Acquired Immunity**

09:15

Tasuku Honjo

*Kyoto University Graduate School of Medicine, Japan***Conversation****Corona: The Impact on Children in Developing Countries**

10:00

Kailash Satyarthi

Kailash Satyarthi Children's Foundation, India

Moderator: Countess Bettina Bernadotte

*Council for the Lindau Nobel Laureate Meetings, Germany***Break****Networking Break**

11:00

with Brian Malow and guests

Networking on wonder.me

Lecture

12:00

**60 Years of Structural Biology:
From Myoglobin and X-Ray Crystallography
to the Recent Impact of Electron Cryomicroscopy**Richard Henderson
*MRC Laboratory of Molecular Biology, UK***Next Gen Science****Research by Young Scientists**

12:45

**Controlling Chemistry With Mirrors: How Strong Interaction
Between Light and Matter Can Modify Chemistry and Physics**Christian Schäfer
*Max Planck Institute for the Structure and Dynamics of Matter, Germany***Photoelectrochemical Hydrogen Production in Microgravity
Environments**Katharina Brinkert
*University of Warwick, United Kingdom***Early Development of the Gut Bacteriome and Virome and Their
Interactions**Sanzhima Garmaeva
*University Medical Center Groningen, University of Groningen, The Netherlands***Estimating the Effective Reproductive Number of Sars-Cov-2 From
Clinical Case Reports and Viral Concentrations in Wastewater**Jana Huisman
*ETH Zurich, Switzerland***Proteome-Scale Discovery of Protein Interactions With Structural
Resolution Using Sequence Coevolution**Hadeer Elhabashy
*Max Planck Institute for Developmental Biology, Germany***Towards a Quantum Network: Entangled Crystals in the Barcelona
Area**Samuele Grandi
*ICFO - The Institute of Photonic Sciences, Spain***Open Exchange**

14:15

Open Exchange with Walter Gilbert

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Richard Henderson

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Avram Hershko**Lessons From the Discovery of the Ubiquitin System:
How to Approach a Problem in Science**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Brian D. Josephson**Beyond the 'Theory of Everything' Paradigm:
Synergetic Patterns and the Order of the Natural World**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Edvard I. Moser**Neural Network Mechanisms for Space**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Gérard A. Mourou**Extreme Light and Scientific and Social Applications**

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

14:15

Open Exchange with Ada E. Yonath

Only open for Nobel Laureates and young scientists on Hopin.

Lecture

15:45

**Immune Checkpoint Blockade in Cancer Therapy:
New Insights Into Therapeutic Mechanisms**James P. Allison
*The University of Texas, USA***Break**

16:30

Networking Breakwith Brian Malow and guests
Networking on wonder.me

Agora Talk

17:00

Cell Biology

Martin Chalfie
Columbia University, USA

Randy W. Schekman
University of California, Berkeley, USA

Moderator: Stefan Kaufmann
Max Planck Institute for Infection Biology, Germany

Agora Talk

17:00

Application of Laser Technology: From Health to Metrology

John L. Hall
University of Colorado, USA

G rard A. Mourou
Universit  Paris-Saclay, France

Donna Strickland
University of Waterloo, Canada

Moderator: Rainer Blatt
University of Innsbruck, Austria

Agora Talk

17:00

Science Education

Leland H. Hartwell
Arizona State University, USA

Moderator: Karan Khemka

Panel Discussion

18:00

Dark & Black

Reinhard Genzel
Max Planck Institute for Extraterrestrial Physics, Germany

David J. Gross
University of California, Santa Barbara, USA

Saul Perlmutter
University of California, Berkeley, USA

Saskia Plura
Johannes Gutenberg-University Mainz, Germany

Rainer Weiss
LIGO MIT, USA

Moderator: Sibylle Anderl
Frankfurter Allgemeine Zeitung & ARD-alpha, Germany

Heidelberg Lecture

19:30

A Golden Decade of Advances in Computing Driven by Deep Learning

Jeffrey Dean
Google Inc., USA

Open Exchange

20:15

Open Exchange with James P. Allison

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange

20:15

Open Exchange with Martin Chalfie

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Open Exchange with David J. Gross

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Open Exchange with John L. Hall

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Open Exchange with Leland H. Hartwell

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Open Exchange with Robert B. Laughlin

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Open Exchange**Open Exchange with Saul Perlmutter**

20:15

Novel Approaches to Scientific Style Critical Thinking Education and Science Research Topics

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Open Exchange**Open Exchange with Randy W. Schekman**

20:15

ASAP (Aligning Science Across Parkinson's), an Initiative to Advance Basic Research and Value of Collaboration

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Open Exchange**Open Exchange with Donna Strickland**

20:15

Only open for Nobel Laureates and young scientists on Hopin.

Open Exchange**Open Exchange with Rainer Weiss**

20:15

Gravitational Waves

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Panel Discussion**Open Science**

07:00

Elizabeth H. Blackburn

University of California, San Francisco, USA

George Datseris

Max Planck Institute for Meteorology, Germany

Michal Jex

Czech Technical University, Czech Republic

Randy W. Schekman

University of California, Berkeley, USA

Moderator: Stephanie Dawson

ScienceOpen, Germany

Break**Networking Break**

08:30

with Brian Malow and guests

Networking on wonder.me

Next Gen Science**Research by Young Scientists**

09:15

Learning From the Past to Inform a Better Future for Our Oceans

Nicole Foster

Flinders University, Australia

Light-Controlled Polymer Formation and Recycling

Christoph Jurissek

Humboldt-Universität zu Berlin, Germany

Dynamics and Plasticity of the Human Brain Network During Cognition

Karolina Finc

Nicolaus Copernicus University in Toruń, Poland

Quantum Computational Advantage with Photons

Yuhao Deng

University of Science and Technology of China, China

Engineering Uterine Environment for Peri-Implantation Mouse Embryogenesis

Vladyslav Bondarenko

European Molecular Biology Laboratory, Germany

Design of Next-Generation Semiconductor Materials

Maria Gélvez Rueda

Delft University of Technology, The Netherlands

Multifunctional Fe₃O₄-MOF Core-Shell Nanoparticles for Cancer Therapy

Romy Ettliger

University of Augsburg, Germany

Bavarian Breakfast

THE KERBER BROTHERS

Live from the Engel in Lindau

Thursday July 1, 11.00 CEST

Introduction by Bernd Sibler,
Minister of Science and the Arts, Bavaria



Lecture**Next Generation Antibiotics**

12:00

Ada E. Yonath
Weizmann Institute of Science, Israel

Conversation**Science, Politics and the New World Order**

12:45

Henry Kissinger

Moderator: Adam Smith
Nobel Prize Outreach, Sweden

Project**Lindau Online Sciathon 2021**

13:30

After the highly successful first edition in 2020, the next Lindau Online Sciathon will take place in September 2021 – learn more about the details in this session.

Agora Talk**Time and Localization**

14:00

Edvard I. Moser
Norwegian University of Science and Technology, Norway

Michael M. Rosbash
HHMI/Brandeis University, USA

Moderator: Anna Sjöström Douagi
Nobel Prize Center, Sweden

Agora Talk**Topology of New Materials**

14:00

F. Duncan M. Haldane
Princeton University, USA

J. Michael Kosterlitz
Brown University, USA

Moderator: Heiner Linke
Lund University, Sweden

Agora Talk**Neutrino Oscillations and Observatories**

14:00

Takaaki Kajita
University of Tokyo, Japan

Arthur B. McDonald
Queen's University, Canada

Moderator: Adam Smith
Nobel Prize Outreach, Sweden

Panel Discussion**Artificial Intelligence: Promises and Threats**

15:00

Vinton G. Cerf
Google, Inc., USA

Marco Eckhoff
Georg-August-Universität Göttingen, Germany

Dina ElHarouni
German Cancer Research Center, Germany

Michael Levitt
Stanford University, USA

Eleni Karatza
University of North Carolina, USA

Bernhard Schölkopf
Max Planck Institute for Intelligent Systems, Germany

Moderator: Tarek Besold
DEKRA, Germany

Break**Workout »Body & Mind «**

16:30

Lecture **Scientific Achievements Are Nobody's Intellectual Property**

17:00

George P. Smith
*University of Missouri, USA***Lecture** **Neuroscience Research in the 21st Century**

17:45

Thomas C. Südhof

Agora Talk **Expansion of the Universe**

18:30

Saul Perlmutter
*University of California, Berkeley, USA*Adam G. Riess
*Johns Hopkins University, USA*Moderator: Rainer Blatt
*University of Innsbruck, Austria***Agora Talk** **New Chemical Reactions, Catalysis, Green Chemistry**

18:30

Robert H. Grubbs
*California Institute of Technology, USA*Richard R. Schrock
*MIT Massachusetts Institute of Technology, USA*Moderator: Wolfgang Lubitz
*Max Planck Institute for Chemical Energy Conversion, Germany***Agora Talk** **New Methods for Biological Imaging**

18:30

Steven Chu
*Stanford University, USA*William E. Moerner
Stanford University, USA

Moderator: Susanne Schultz-Hector

Open Exchange **Open Exchange with Steven Chu**

19:30

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Open Exchange **Open Exchange with Robert H. Grubbs**

19:30

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Open Exchange **Open Exchange with F. Duncan M. Haldane**

19:30

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Open Exchange **Open Exchange with J. Michael Kosterlitz**

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Open Exchange **Open Exchange with Adam G. Riess**

19:30

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Open Exchange **Open Exchange with Richard R. Schrock**

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Open Exchange **Open Exchange with Michael M. Rosbash**

19:30

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Open Exchange **Open Exchange with George P. Smith**

19:30

Only open for Nobel Laureates and young scientists on Hopin.



Concert & Sunset Party
HAZMAT MODINE
from New York City
Sunset Party on wonder.me
Thursday July 1, 21.00 CEST

Social Function**Welcome from Mainau Island**

08:30

Welcome in Baden-Württemberg*Minister-President Winfried Kretschmann, Baden-Württemberg***Welcome from Mainau Island***Countess Bettina Bernadotte, President of the Council***Panel Discussion****Why Trust Science?**

09:00

Balkees Abderrahman

The University of Texas MD Anderson Cancer Center, USA

Carl-Henrik Heldin

Nobel Foundation / Uppsala University, Sweden

Brian P. Schmidt

The Australian National University, Australia

Hans-Jörg Rheinberger

Max Planck Institute for the History of Sciences, Germany

Moderator: Adam Smith

*Nobel Prize Outreach, Sweden***Social Function****Closing Ceremony**

10:45

Induction of Dr. Volkmar Denner, Chairman of the Board of Management - Robert Bosch GmbH, into the Honorary Senate of the Foundation Lindau Nobel Laureate Meetings**Farewell****Programme Session Types***Lectures*

Lectures are given by Laureates only. They may choose a topic of their liking – be it their Nobel Prize research, be it something else. A 15 minutes Q&A session follows immediately afterwards.

Agora Talks

Flexible and interactive. One laureate presenting or several Laureates interacting in presentation/discussion of a topic; in both cases, a qualified moderator leads Q&A from the audience, discussion or even an interview. Up to three parallel events.

Conversations

These sessions usually feature special topics, often in an interview/conversation style.

Panel Discussions

Several panellists jointly discuss one topic. Up to half of the time is dedicated to Q&A with the audience.

Open Exchanges

Most Laureates offer discussion sessions, usually in addition to lectures and agora talks. These research-oriented discussions are strictly limited to laureates and young scientists, and switching between sessions should be avoided.

Next Gen Science Sessions

Oral presentations by young scientists. Each presentation is 10 minutes, followed by a short Q&A.

Workouts

Need a break? Join our workouts.

Partner Events

Partners of the Lindau Meetings are invited to organise side events outside the core programme. As for the content of the presentations, several types are possible, e.g. panel discussion, world café, normal dinner, pitch presentations, etc. Note that partner events may not be available in the livestream.

The Meetings

The Lindau Nobel Laureate Meetings – established in 1951: 70 years ago – provide a globally recognised forum 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 Council.

The Foundation was established in the year 2000 by the Council and the Bernadotte family on the initiative of 50 Nobel Laureates. Following Prof. Wolfgang Schürer, since 2016 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 350 Nobel Laureates are members of the Founders' Assembly of the Foundation and demonstrate – through their membership and their engagement with the Lindau Spirit – their support for the mission 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 financial 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 worldwide.

The world's best young scientists of tomorrow submit applications to attend the Lindau Nobel Laureate Meetings. An international, multi-stage selection process guarantees that the scientific elite of the future is able to gather with the Nobel Laureates in Lindau. Every year, several thousand young scientists apply worldwide.

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Check out the Hopin meeting app
for mobile participation.

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ABSTRACTS

Session abstracts are available at
[mediatheque.lindau-nobel.org/
abstracts/meeting-2021](https://mediatheque.lindau-nobel.org/abstracts/meeting-2021)

&

[mediatheque.lindau-nobel.org/
program/meeting-2021](https://mediatheque.lindau-nobel.org/program/meeting-2021)

ALUMNI NETWORK

Meet your peers at
alumni.lindau-nobel.org

REWATCH

Most of the sessions will be available
afterwards in our mediatheque:

[mediatheque.lindau-nobel.org/
program/meeting-2021](https://mediatheque.lindau-nobel.org/program/meeting-2021)

IN-DEPTH COVERAGE

Check our blog for additional
in-depth coverage:
blog.lindau-nobel.org

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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02 Cooperate Globally on Global Problems

03 Share Knowledge

04 Publish Results Open Access

05 Publish Data to Repositories

06 Work Transparently & Truthfully

07 Change Reward Systems

08 Support All Talent

09 Communicate to Society

10 Engage in Education

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Greetings by Heinz Faßmann
Minister of Education, Science and Research, Austria

Introduction by Daniel Froschauer
Chairman of the Vienna Philharmonic, Austria





Scientific Chairpersons of the 70th Lindau Nobel Laureate Meeting*Lars Bergström*

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Theoretical Physics, Stockholm University, Sweden

Rainer Blatt

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Institute for Experimental Physics, University of Innsbruck, Austria
Institute for Quantum Optics and Quantum Information Innsbruck, Austria

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Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Sweden
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Member, Nobel Committee for Chemistry, Sweden

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Max Planck Institute for Chemical Energy Conversion, Germany

Future Meetings*71st Lindau Nobel Laureate Meeting (Chemistry)*

26 June to 1 July 2022

7th Lindau Meeting on Economic Sciences

23 August to 27 August 2022

72nd Lindau Nobel Laureate Meeting (Physiology/ Medicine)

25 June to 30 June 2023

73rd Lindau Nobel Laureate Meeting (Physics)

30 June to 5 July 2024

74th Lindau Nobel Laureate Meeting (Chemistry)

29 June to 4 July 2025

8th Lindau Meeting on Economic Sciences

26 August to 30 August 2025

75th Lindau Nobel Laureate Meeting (Interdisciplinary)

28 June to 3 July 2026



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www.lindau-nobel.org