



NOBELPRISET

The Nobel Prize



The 2017 Nobel Week in Stockholm

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Content

THE 2017 NOBEL LAUREATES	3
THE 2017 NOBEL WEEK	
Press Conferences	6
Nobel Lectures	6
Nobel Prize Concert	8
Nobel Week Dialogue – The Future of Truth	8
THE NOBEL PRIZE AWARD CEREMONY IN STOCKHOLM	
Presentation Speeches	11
Musical Interludes	12
This Year’s Floral Decorations, Concert Hall	12
THE NOBEL BANQUET IN STOCKHOLM	
Divertissement	14
This Year’s Floral Decorations, City Hall	16
Speeches of Thanks	16
End of the Evening	17
Nobel Diplomas and Medals	17
Previous Nobel Laureates	17
THE NOBEL WEEK CONCLUDES	
FOLLOW THE NOBEL PRIZE	
The Nobel Prize Digital Channels	20
Nobelprize.org	20
Broadcasts on SVT	21
International Distribution of the Programmes	21
The Nobel Center and The Nobel Museum	21
HISTORICAL BACKGROUND	23
PRELIMINARY TIMETABLE FOR THE 2017 NOBEL PRIZE AWARD CEREMONY	25
SEATING PLAN ON THE STAGE, 2017 NOBEL PRIZE AWARD CEREMONY	26
PRELIMINARY TIME SCHEDULE FOR THE 2017 NOBEL BANQUET	28
SEATING PLAN FOR THE 2017 NOBEL BANQUET ..	29
CONTACT DETAILS	30

The 2017 Nobel Laureates

THE 2017 LAUREATES are 12 in number, including the International Campaign to Ban Nuclear weapons (ICAN), which has been awarded the Nobel Peace Prize. Since 1901, the Nobel Prize has been awarded 585 times to 923 Laureates. Because some have been awarded the Prize twice, a total of 892 individuals and 24 organisations have received a Nobel Prize or the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel.

All of the Laureates whose prizes are awarded in Stockholm on the Nobel Day – December 10, 2017 – are presented below. The Laureates and their respective significant other may invite an official party of 14 people to the Nobel Week in Stockholm.

THE NOBEL PRIZE IN PHYSICS

THE 2017 NOBEL PRIZE IN PHYSICS has been awarded to Rainer Weiss, Barry C. Barish and Kip S. Thorne “*for decisive contributions to the LIGO detector and the observation of gravitational waves*”.

PROFESSOR EMERITUS RAINER WEISS was born in 1932 in Berlin, Germany. He is affiliated with the LIGO/VIRGO Collaboration, Massachusetts Institute of Technology (MIT), Cambridge, MA, USA. He is arriving in Stockholm accompanied by his family, including his wife Rebecca Weiss, two children and a grandchild, as well as colleagues and friends.

PROFESSOR EMERITUS BARRY C. BARISH was born in 1936 in Omaha, NE, USA. He is affiliated with the LIGO/VIRGO Collaboration, California Institute of Technology (Caltech), Pasadena, CA, USA. He is arriving in Stockholm accompanied by his family, which includes his wife Dr Samoan Barish, two children and three grandchildren, as well as friends and colleagues. His party includes former Laureates Sheldon Glashow (Physics, 1979) and Samuel Ting (Physics, 1976).

PROFESSOR EMERITUS KIP S. THORNE was born in Logan, UT, USA. He is affiliated with the LIGO/VIRGO Collaboration, California Institute of Technology (Caltech), Pasadena, CA, USA. He is arriving in Stockholm accompanied by his wife Professor Carolee Winstein, two children and one grandchild, as well as colleagues and friends, among them his ex-wife Linda Thorne.

THE NOBEL PRIZE IN CHEMISTRY

THE 2017 NOBEL PRIZE IN CHEMISTRY has been awarded to Jacques Dubochet, Joachim Frank and Richard Henderson “*for developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution*”.

HONORARY PROFESSOR JACQUES DUBOCHET was born in 1942 in Aigle, Switzerland. He is affiliated with the University of Lausanne, Switzerland. His party during the Nobel Week includes his wife Christine Dubochet-Wiemken, two children, friends and colleagues.

PROFESSOR JOACHIM FRANK was born in 1940 in Siegen, Germany. He is affiliated with Columbia University, New York, NY, USA. He is arriving in Stockholm accompanied by his wife Carol J. Saginaw, two children and other relatives, as well as colleagues and friends.

DR. RICHARD HENDERSON was born in 1945 in Edinburgh, Scotland. He is affiliated with the MRC Laboratory of Molecular Biology, Cambridge, United Kingdom. He is arriving in Stockholm accompanied by his family, which includes his wife Dr Jade Li, two children and six grandchildren, as well as colleagues.

THE NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

THE 2017 NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE has been awarded to Jeffrey C. Hall, Michael Rosbash and Michael W. Young “*for their discoveries of molecular mechanisms controlling the circadian rhythm*”.

PROFESSOR EMERITUS JEFFREY C. HALL was born in 1945 in New York, NY, USA. He is affiliated with the University of Maine, Orono, Maine, ME, USA. He is arriving in Stockholm accompanied by a brother and his wife, as well as various colleagues and friends.

PROFESSOR MICHAEL ROSBASH was born in 1944 in Kansas City, MO, USA. He is affiliated with Brandeis University, Waltham, MA, USA and the Howard Hughes Medical Institute. He is arriving in Stockholm accompanied by his wife Nadja Abovich and by two daughters and their partners, as well as friends and colleagues.

PROFESSOR MICHAEL W. YOUNG was born in 1949 in Miami, FL, USA. He is affiliated with the Rockefeller University, New York, NY, USA. He is arriving in Stockholm with a party that includes his wife Professor Laurel Eckhardt, two daughters and other relatives, as well as colleagues and friends.

THE NOBEL PRIZE IN LITERATURE

THE 2017 NOBEL PRIZE IN LITERATURE has been awarded to Kazuo Ishiguro, “*who, in novels of great emotional force, has uncovered the abyss beneath our illusory sense of connection with the world*”.

MR KAZUO ISHIGURO was born in 1954 in Nagasaki, Japan. He lives in Great Britain since early childhood. He is arriving in Stockholm accompanied by his wife Lorna Ishiguro and daughter Naomi Ishiguro, as well as colleagues – mainly publishers – and friends.

THE PRIZE IN ECONOMIC SCIENCES

THE 2017 SVERIGES RIKSBANK PRIZE IN ECONOMIC SCIENCES IN MEMORY OF ALFRED NOBEL has been awarded to Richard H. Thaler “*for his contributions to behavioural economics*”.

PROFESSOR RICHARD H. THALER was born in 1945 in East Orange, NJ, USA. He is affiliated with the University of Chicago, IL, USA. His party in Stockholm includes his wife Dr France Leclerc and three children, as well as various friends and colleagues.

The 2017 Nobel Week

THE 2017 NOBEL WEEK will begin with a visit to the Nobel Museum on Stortorget, the main square in Stockholm's Old Town, on December 6. Here this year's Laureates and their families will be welcomed to an eventful week in Stockholm and will also meet as a group for the first time. At the Museum, they can view the exhibition *Literary Rebellion*. The visit to the Nobel Museum will end with Laureates autographing chairs at Bistro Nobel, in keeping with tradition, and donating an artefact to the Nobel Museum's collections.

PRESS CONFERENCES

- Dec 6 13.00 CET Press conference for the Laureate in Literature at the Swedish Academy.
- Dec 6 14.00 CET Press conference for the Laureates in Physiology or Medicine at the Nobel Forum.
- Dec 7 09.30 CET Press conference for the Laureates in Physics, Chemistry and Economic Sciences at the Royal Swedish Academy of Sciences.

NOBEL LECTURES

During the Nobel Week, in keeping with the statutes of the Nobel Foundation, all the Laureates will hold a Nobel Lecture concerning the discovery or achievements they have been rewarded for. With few exceptions, this has been done since the first Nobel Prizes were awarded in 1901. The Nobel Lectures will be open to the general public and free of charge. It is not possible to reserve seats in the Aula Magna or in the Aula Medica, so it is important to arrive early.

NOBEL LECTURES IN PHYSIOLOGY OR MEDICINE

Aula Medica, Nobels Väg 6, Karolinska Institutet, Campus Solna, December 7, 13.00 CET.

"The Little Flies: Multifaceted Basic Research Coming Out Better than Intended"
Jeffrey C. Hall

"The circadian clock, transcriptional feedback and the regulation of gene expression"
Michael Rosbash

"Time travels: A 40 year journey from Drosophila's clock mutants to human circadian disorders"
Michael W. Young

NOBEL LECTURE IN LITERATURE

Börssalen (the Grand Hall) of the Swedish Academy, December 7, 17.30

Kazuo Ishiguro

NOBEL LECTURES IN PHYSICS AND CHEMISTRY, PRIZE LECTURE IN ECONOMICS

Aula Magna, Stockholm University, December 8

9.00 Introduction to the 2017 Nobel Lectures and Prize Lecture

09.05–10.55 The Nobel Prize in Physics

“Gravitational waves finally captured”

Rainer Weiss

Barry C. Barish

Kip S. Thorne

11.20–13.10 The Nobel Prize in Chemistry

“Cool microscope technology revolutionises biochemistry”

Jacques Dubochet

Joachim Frank

Richard Henderson

14.00–14.40 The Sveriges Riksbank Prize in Economic Sciences
in memory of Alfred Nobel

“Integrating economics with psychology”

Richard H. Thaler

NEW VIRTUAL REALITY EXPERIENCES

For the very first time two of the year’s Nobel Prizes will be presented as virtual reality experiences during Nobel Week. The VR experience *The Circadian Rhythm* visualises the 2017 Nobel Prize in Physiology or Medicine awarded to Jeffrey C. Hall, Michael Rosbash and Michael W. Young. It takes viewers on a journey into the cellular level of the human body, where they are able to learn about and interact with our biological clock. This unique VR experience explains how plants, animals and humans adapt their biological rhythm so that it is synchronised with the Earth’s revolutions.

In the VR experience *The Day the World Changed* the Nobel Peace Prize awarded to ICAN can be experienced as a unique journey through the history of nuclear weapons. Viewers will stand in the ruins of Hiroshima after the bomb explosion, witness survivor testimony and realise the potential to disarm these horrific weapons through a united global effort.

The Day the World Changed, created by YesPleaseThankYou, and a pre-view version of the “The Circadian Rhythm”, created by HTC VIVE, will be available at the Nobel Museum during December 6-12.

In addition, the first work in virtual reality by internationally acclaimed artist Anish Kapoor will be unveiled in Gothenburg in Sweden on 9 December 2017 as part of the Nobel Week Dialogue.

NOBEL CREATIONS – THE 2017 NOBEL PRIZE

Can artistic interpretations explain a Nobel Prize? During December, student creations inspired by the 2017 Nobel Prize are on display at the Skrapan Mall, the Stockholm Concert Hall and the Royal College of Music – presented by Nobel Center c/o in cooperation with Beckmans College of Design, the Stockholm School of Photography and the Royal College of Music.

MUSIC AND SCIENCE THAT CHANGE THE WORLD

The Nobel Museum in Stockholm's Old Town will present an evening devoted to music and science from 18.00–19.30 on December 6. Gustavo Dudamel, Music Director of the Los Angeles Philharmonic and conductor of this year's Nobel Prize Concert, will speak about his work aimed at making classical music available to children, based on a strong belief that music can change the world. Another speaker will be Professor Frank Wilczek, 2004 Nobel Laureate in Physics, who is also passionately interested in how the meeting between science and art can enrich society. Students from the Royal College of Music in Stockholm will perform newly composed music from the Nobel Creations project.

NOBEL PRIZE CONCERT

The Nobel Prize Concert will take place at 19.00 CET on December 8 at the Stockholm Concert Hall. The internationally renowned conductor Gustavo Dudamel, Music Director of the Los Angeles Philharmonic, will lead the Royal Stockholm Philharmonic Orchestra in a programme comprising Mozart's *Symphony No. 41 ("Jupiter")* and *Also sprach Zarathustra* by Richard Strauss.

The Concert will be broadcast in its entirety starting at 19.30 on December 9 on the *Kulturstudion* programme on Swedish Television's SVT2 channel. The Nobel Prize Concert is a joint project between Nobel Media and the Stockholm Concert Hall. It is part of the official Nobel Week programme.

NOBEL DAY AT THE NOBEL MUSEUM

On December 10 the Nobel Day will be celebrated with free admission to the entire Nobel Museum. During the day there will be talks about fashion, music, the Prize Award Ceremony and the Banquet. A Nobel lunch will be served, inspired by the Nobel Banquets of past years. There are two lunch sittings, at 12.00 and 15.00, and advance reservations are required. The 2017 Prize Award Ceremonies at both the Oslo City Hall and the Stockholm Concert Hall will be live-streamed on a giant screen at the Museum.

NOBEL WEEK DIALOGUE – THE FUTURE OF TRUTH

On December 9, seven Nobel Laureates will exchange thoughts and ideas with some of the world’s most inspiring opinion leaders and experts during the Nobel Week Dialogue in Gothenburg, Sweden. This annual event during the Nobel Week offers discussions about a central theme – both on-site and online – which are aimed at motivating people to seek knowledge, to ask questions and to understand and improve the world. This year’s theme is “The Future of Truth”. What does truth mean? What is the meaning of “scientific” truth? Can the truth change? And how can facts be verified?

SEVEN NOBEL LAUREATES AND NUMEROUS OTHER EXPERTS ON HAND

Seven Nobel Laureates will participate in the 2017 Nobel Week Dialogue. During this full-day seminar, the stage at the Swedish Exhibition & Congress Centre (Svenska Mässan) will be filled with lectures, interviews and panel discussions in various exciting constellations.

JOSEPH E. STIGLITZ, 2001 Laureate in Economic Sciences, Zeynep Tufekci, researcher at the University of North Carolina, and Michael Hayden, former director of the Central Intelligence Agency (CIA) and the National Security Agency (NSA) will explore issues related to political truths and the value of trust. Peter Wolodarski, Editor-in-Chief of the Swedish daily newspaper Dagens Nyheter, will be among the moderators. Shirin Ebadi, 2003 Peace Prize Laureate, will lecture on “My Truth and Other Versions”.

MAGGIE HABERMAN, White House correspondent for The New York Times, will discuss source-based criticism and related issues along with Katherine Maher, Executive Director of the Wikimedia Foundation, Fran Wilczek, 2004 Laureate in Physics and Emma Frans, a medical researcher who recently won Sweden’s Grand Prize for Journalism in the category Voice of the Year. Steven Chu, 1997 Physics Laureate and former US Secretary of Energy, will share his thoughts on the climate change debate.

WORLD PREMIERE OF ANISH KAPOOR’S NEW VR ART WORK

The first work in virtual reality by internationally acclaimed artist Sir Anish Kapoor will be unveiled in Gothenburg in Sweden on December 9, 2017 as part of the Nobel Week Dialogue.

“Into Yourself–Fall is my first VR work. In it I think of the body falling into itself and turning itself inside out. Vertigo as descent inward”, says Anish Kapoor.

The work of the British artist has always challenged our perceptions of what is real – or true. As part of the Nobel Week Dialogue programme Anish Kapoor will also have an onstage conversation on the theme of “Artistic Truth in Virtual Space” with Daniel Birnbaum, director of the Moderna Museet in Stockholm.

PANELLISTS

The names of the more than 20 panellists can be found here: <https://www.nobelprize.org/events/nobel-week-dialogue/2017/event-info/panellists.html>

PROGRAMME

The full programme for The Future of Truth:

<https://www.nobelprize.org/events/nobel-week-dialogue/2017/event-info/programme.html>

The event will be webcast live all day on December 9 at www.nobelweekdialogue.org and viewers can participate in the discussion via #Nobeldialogue.

POP-UP DIALOGUE AS AN APPETISER

Discussions on the theme “The Future of Truth” will begin with a pop-up dialogue in central Gothenburg on December 8, the day before the main event. Participants will be Peter Doherty, 1996 Nobel Laureate in Physiology or Medicine, Orlando von Einsiedel, director of the Oscar-winning documentary *The White Helmets*, and medical researcher Emma Frans. The pop-up dialogue will be held at the Clarion Hotel Post from 15.30–16.30 CET. It will be free of charge, with no advance reservation required. Seats will be available on a first-come first-served basis.

LUNCHTIME LECTURE AT THE UNIVERSITY OF GOTHENBURG

On December 8, David J. Gross, 2004 Laureate in Physics, will hold a lunchtime lecture at Wallenbergsalen, University of Gothenburg. The lecture, entitled “The Frontiers of Fundamental Physics”, is co-sponsored by the University of Gothenburg and Chalmers University of Technology.

The Nobel Prize Award Ceremony in Stockholm

A complete programme and time schedule are attached.

The Nobel Day, December 10, will begin with the traditional Nobel Prize Award Ceremony at the Stockholm Concert Hall. There will be presentation speeches about the year's prizes before an audience of about 1,570 guests, who will then watch the Laureates as they receive their medals and diplomas one by one from the hand of H.M. the King of Sweden. The seats closest to the stage are reserved primarily for the Laureates' families, representatives of the prize-awarding institutions, members of the Swedish government and Riksdag (Parliament) and the diplomatic corps. Seated on the stage will be nearly 100 people. They are members of the Royal Swedish Academy of Sciences, the Nobel Assembly of Karolinska Institutet and the Swedish Academy, members of the Board of Directors of the Nobel Foundation and previous Laureates.

In front of them will sit the 2017 Laureates and members of Sweden's Royal Family: H.M. King Carl XVI Gustaf, H.M. Queen Silvia, H.R.H. Crown Princess Victoria and H.R.H. Prince Daniel.

H.R.H. Prince Carl-Philip and H.R.H. Princess Sofia as well as H.R.H. Princess Madeleine and Mr. Christopher O'Neill will sit in the first row closest to the stage.

PRESENTATION SPEECHES

The Chairman of the Board of the Nobel Foundation, Professor Carl-Henrik Heldin, will hold an opening address. After that, the year's Nobel Laureates and the Economics Prize Laureate will be presented.

Physics: Professor Olga Botner

Chemistry: Professor Peter Brzezinski

Physiology or Medicine: Professor Carlos Ibáñez

Literature: Professor Sara Danius

Economic Sciences: Professor Per Strömberg

The formal ceremony will be framed by brief musical interludes and floral arrangements. When the ceremony is over and the Royal Family has left the stage, family members and colleagues will pour onto the stage to congratulate their Laureates.

MUSICAL INTERLUDES

The Royal Stockholm Philharmonic Orchestra (RSPO), under the baton of conductor Joana Carneiro, will provide musical interludes during the award ceremony. Joana Carneiro is one of the world's most prominent young conductors and is known for her vibrant performances. In 2009 she was named music director of the Berkeley Symphony in California, becoming the third music director in the orchestra's 40-year history. She is currently serving as official guest conductor of the Gulbenkian Orchestra in Portugal. In 2014 she was named principal conductor of the Orquesta Sinfónica Portuguesa at the Teatro Nacional de São Carlos. She has conducted the RSPO on a number of occasions.

The soloists at the award ceremony are Camilla Tilling, soprano, and Joakim Agnas, trumpet.

THIS YEAR'S FLORAL DECORATIONS, CONCERT HALL

In homage to Alfred Nobel, who spent his final years in Sanremo, Italy, where he died on December 10, 1896, Regione Liguria, the City of Sanremo and the Chamber of Commerce of Riviere di Liguria send flowers to decorate the Concert Hall and the City Hall in Stockholm every year.

For the 17th consecutive year Helén Magnusson, chief florist at Hässelby Blommor, has designed the floral decorations for the Nobel Prize Award Ceremony. Together with 12 florists, she is working for four days to create the decorations that will adorn the stage at the Concert Hall. The flowers grown in and donated from Sanremo are delivered on December 4 in two tractor-trailers to Hässelby Blommor in Järfälla near Stockholm, where the task of preparing the flowers with fresh-cut surfaces and watering ahead of the decoration work begins immediately.

This year, winter will make an appearance on the stage. Flowers in nuances of white together with cool grey-green foliage will enable the guests to experience the Swedish winter while inside the Concert Hall.

There will be about 300 kg of foliage and 25,000 flowers, including carnations in white and cream-coloured nuances, white orchids, eucalyptus, white amaryllis, roses, ranunculus and French tulips in various white and cream-coloured nuances as well as different kinds of evergreen plants.

The wall behind the stage will be decorated with a flowerbed featuring ranunculus, lisianthus, roses and eucalyptus.

The magnificent floral wall in the middle of the stage, which is 15 square metres in size, will be decorated with 9,000 roses, carnations and chrysanthemums in white and cream-coloured nuances.

The Nobel Banquet in Stockholm

The time schedule for the Banquet is attached

After the ceremony at the Concert Hall, it will be time for the evening's Nobel Banquet at the Stockholm City Hall. The banquet programme will follow tradition and begin with the entry procession of the Royal Family and other guests of honour down the grand stairway and into the Blue Hall at 19.00. Prior to this, the guests of honour will have been presented to the Royal Family in the Prince's Gallery of the City Hall. Behind the Master of Ceremonies will be two female attendants followed by H.M. the King with his dinner companion and H.M. the Queen with Professor Carl-Henrik Heldin, Chairman of the Board of the Nobel Foundation and the host of the evening's banquet. In 1901 the first Nobel Banquet, held in the Hall of Mirrors of the Grand Hôtel, had 113 guests. Today the Nobel Banquet is served to about 1350 guests.

This year's chef is Tom Sjöstedt and the year's pastry chef is Daniel Roos, both of them celebrated Swedish culinary innovators.

TOM SJÖSTEDT operates the Lilla Ego restaurant together with Daniel Råms. Tom was named Sweden's Chef of the Year in 2008. He was a member of the Swedish Culinary Team in 2005–2012, including when the team won the gold medal at the 2012 Culinary Olympics.

The Nobel Banquet menu is based on top-quality ingredients and Swedish flavours. Tom prefers to work with ingredients in their natural form during the right season. In this year's Banquet menu he lets vegetables play an important role, and for the first time in many years an all-vegetarian starter will be served. Tom likes to talk about creating expectations and building up small surprises during the meal, which guests will experience as the menu unfolds.

DANIEL ROOS, who is in charge of the Banquet dessert for the fourth consecutive year, was a member of the Swedish Culinary Team in 2009–2012, including when it won the gold medal at the 2012 Culinary Olympics. He manages K-märkt Restaurant and K-märkt Patisserie & Bageri. Daniel also created the dessert for the wedding of Sweden's Crown Princess Victoria in 2010.

The task of composing the menu for the Nobel Banquet has been under way since early last spring, including a number of cooking and taste tests.

The menu has been developed in close collaboration with the Nobel Foundation's gastronomic advisors: Fredrik Eriksson of Långbro Vårdshus, Artistic Leader of Restaurangakademien; Gert Klötzke, Professor of Gastronomy at Umeå University; and Gunnar Eriksson, Chef de Cuisine at Stadshusrestauranger (City Hall Restaurants). The menu will be revealed only when all guests have been seated at 19.00 CET.

The tables will be set with the Nobel tableware created for the 90th anniversary of the Nobel Prize in 1991 by three Swedish designers, Karin Bjorquist (Rörstrand/Gustavsberg), Gunnar Cyrén (Orrefors) and Ingrid Dessau (Klässbols Linneväveri). The more than 60 tables in the Blue Hall will be covered with some 500 metres of linen cloth, and the meticulous table setting will comprise no fewer than some 7,000 porcelain pieces, 5,400 glasses and 10,000 items of silverware. This will be the sixth year that Stadshusrestauranger and its CEO Maria Stridh will be responsible for presenting the Nobel Banquet. Chef de Cuisine for his fifteenth Nobel Banquet is Gunnar Eriksson.

Those who will be working with the banquet meal during the evening include a total of more than 40 chefs and 190 servers.

This year for the third time, the Nobel Banquet will serve the Nobel Museum Tea Blend, which was created in honour of Alfred Nobel. The Nobel Museum in Stockholm writes the following: “In honour of our distinguished scientist, we have composed a special tea blend.... The blend is based on a Chinese Keemun tea produced in Qimen County situated in Anhui Province.” The Nobel Museum Tea Blend was created in collaboration with tea specialist Vernon Mauris and is sold exclusively at the Nobel Museum in Stockholm.

DIVERTISSEMENT

This year music, food and floral arrangements together form a tribute to the icy Arctic landscape.

The musical divertissement in three acts is inspired by ice and the northern lights, Aurora Borealis, and was produced by Lisa Långbacka and Mats Jankell. The music is a hymn to its Arctic foundations and moves from the tones of ice instruments to the sound of melting water. There is an interplay between the floral decorations in the Blue Hall, the lighting and the ice sculptures created by the Icehotel in Jukkasjärvi. Among the performers during the evening are Cullbergbaletten (the Cullberg Ballet), Ane Brun, Lena Willemark and Lisa Långbacka – the latter two featuring pieces of music specially composed for the Nobel Banquet. Also Cullbergbaletten will perform a piece created especially for this occasion.

Ane Brun tells about her relationship with nature and the Nordic climate:

“I grew up close to the great sea on the north-western coast of Norway, with winter storms and powerful winds both inside the fjords and in the outer archipelago. The power of the sea and the waves are stored in my soul, in my cells. And I have also learned to have a great respect for their superior force. You cannot resist nature when it shifts into top gear. In that context, we humans become very helpless – something I think we are also noticing more and more because of climate change.”

Singer Lena Willemark on her childhood in Älvdalen, northern Sweden:

“My recollection is that there were often northern lights when I was growing up. And now and again, they spread out across the whole sky, with snakes and sparkles. Curtains of light. It was fantastic, as if someone were speaking to us humans from other worlds. Ice also speaks. And beneath the ice, we also hear music.”

LISA LÅNGBACKA has her artistic origins in folk music, but her openness to other genres brings her and her accordion to diverse musical worlds: from collaborations with pop, jazz and folk musicians to opera and theatre. Lisa has a Master's degree from the Royal Academy of Music in Stockholm. In 2015 she was elected Accordionist of the Year by the Swedish Accordion Association.

CULLBERGBALETTEN is the leading repertoire company for contemporary dance in Sweden, with tours all over the world. Cullbergbaletten works with a range of international choreographers and artists. The company currently has 16 dancers from nearly as many countries, and guest dancers are continuously invited to various projects.

ANE BRUN, singer and songwriter, possesses one of Scandinavia's most distinctive voices and can be heard on a dozen albums since her debut in 2003 with *Spending Time with Morgan*. Since then, she has been awarded three Norwegian Grammy prizes, with her albums topping the charts and going platinum in Scandinavia while gaining widespread acclaim on a wider world stage.

LENA WILLEMARCK has become a central feature of Swedish folk music and a groundbreaking genre crossing singer. From her upbringing in Älvdalen, northern Sweden, she carries a musical treasure, but after her years at the Royal College of Music in Stockholm she has continually expanded her expression. She has received many awards, including five Grammys.

MALIN BROMAN began playing the violin at the age of five. She pursued her studies at the Royal Danish Academy of Music in Copenhagen and Guildhall School of Music & Drama in London. Highlights in her successful solo career include performances with the Gothenburg Symphony Orchestra and the Swedish Radio Orchestra. In 2015 she became Artistic Director of the Musica Vitae Chamber Orchestra. Malin Broman is a member of the Royal Swedish Academy of Music.

MUSICA VITAE CHAMBER ORCHESTRA is an ensemble that brings live music – indeed the music of life. The vast realm that is art music is handled with the utmost precision and elegance by its 15 string players. Malin Broman, the ensemble's Artistic Director, presents musically unconventional constellations, continually forging new ties with leading soloists, conductors and composers worldwide.

ULLA PIRTTIJÄRVI is a traditional yoiker and a singer/composer. She grew up in a reindeer herder family on the border between Finland and Sweden and is one of the leading Sami artists, singing in constellations like ULDA and Transjoik. Ulla Pirttijärvi has received the Áillohaš award and the cultural prize given by the Saami Council.

TERJE ISUNGSET is a percussionist and composer from Norway. He is well known for crafting his own instruments out of elements from nature like stones, wood and ice. Isungset invented the ice music concept in 1999 and he is still seen as the only professional ice musician in the world.

SEBASTIAN RING is a professional musician, composer and percussionist. He has worked for several music and theatre institutions in Sweden. Over the course of his career, he has also recorded and toured extensively with the Swedish percussion ensemble Komodo and the pop group SeLest. He has also performed with artists such as Mia Skäringer and First Aid Kit.

LUDVIG DAAE is a Norwegian choreographer and dancer. Daae is currently touring two of his own shows; Hyperfruit, a dance and film collaboration with Joanna Nordahl, and his latest performance Dance To Dance To that premiered in February 2017 and which the piece for the Nobel Banquet is based on.

ADOLF FREDRIKS KYRKAS KAMMARKÖR is a mixed choir linked to Adolf Fredriks Church in Stockholm. Its repertoire is mostly classical, both sacred and profane. The choir has participated in several choir competitions, most recently in the 14th International Choir Festival in Tallinn, Estonia, where it was awarded the Grand Prix of the festival.

MATS JANKELL has long experience of directing large events, and he produced the divertissement at the 2015 Nobel Banquet. He has also made documentaries featuring such leading musical artists as the Rolling Stones, Bruce Springsteen and Annie Lennox.

THIS YEAR'S FLORAL DECORATIONS, CITY HALL

For the third consecutive year, Per Benjamin will be in charge of the floral decorations at the City Hall. He won the Fleurop Interflora World Cup in 2002 and has been active on the international scene since then.

The theme of this year's floral decorations is a winter day, when all the colours of ice and snow appear in the reflections of sunlight and the northern lights. The shapes are strict and geometric, but they contain blossoming life and movement.

The Table of Honour is a long flowering bed of driven snow, where obelisks of ice slowly melting like a thaw on a sunny winter day. Under the ice obelisks, and on white frost-clad icicles on the pillars, lighting will be installed that will shift the perceptions of the floral decorations in rhythm with the music.

Sanremo has donated the flowers used at the City Hall, as well as at the Concert Hall. Per Benjamin chose carnations as the main flower for the Banquet decorations, since carnations are among the best-known flowers from the growers of Sanremo and Per's personal favourite. This year about 25,000 stems, flowers and pieces of foliage will be used to decorate the City Hall.

SPEECHES OF THANKS

Towards the end of the Banquet, students will assemble with massed standards on the grand stairway and the balustrade above the Blue Hall. Colleges and universities from all parts of Sweden will be represented among the standards. When coffee and liqueurs are served, Laureates will hold speeches of thanks after being introduced by the evening's toastmaster, Johanna Kuniholm. Only one Laureate from each prize category will speak, in "Nobel order", that is, in the order that Alfred Nobel listed the prizes in his will:

Physics: Rainer Weiss
 Chemistry: Jacques Dubochet
 Physiology or Medicine: Michael Rosbash
 Literature: Kazuo Ishiguro
 Economic Sciences: Richard H. Thaler

END OF THE EVENING

The Banquet will conclude at about 22.50. Dancing will then begin upstairs in the Golden Hall, with music by the Ambassadeur orchestra.

NOBEL DIPLOMAS AND MEDALS

In the Golden Hall, the Nobel medals and diplomas will be shown in display cases during the evening. This year Richard Vakil did the art work on the diplomas for the Laureates in Physics, Berndt Wennström created the art work on the diplomas for the Laureates in Chemistry and Ingela Berntsson produced the art work on the diploma for the Laureate in Economic Sciences.

Marie A. Györi did the calligraphy for the Physics, Chemistry and Economic Sciences diplomas, while Marianne Pettersson Soold did the monograms. Susan Duvnäs has created the calligraphy in the Literature diploma as well as the diplomas in Physiology or Medicine.

Leonard Gustafssons Bokbinderi AB – established in 1888 and located in the Östermalm district of Stockholm – was in charge of binding all the diplomas.

The 2017 Nobel medals were made by Svenska Medalj in Eskilstuna, Sweden. The cases in which the medals are kept were handcrafted by Anders Eriksson's atelier.

PREVIOUS NOBEL LAUREATES

In 2017 a number of previous Laureates will attend the Nobel Prize Award Ceremony and the Nobel Banquet. They are Elizabeth H. Blackburn (Physiology or Medicine, 2009), Linda Buck (Physiology or Medicine, 2004), Serge Haroche (Physics, 2012), Edvard I. Moser (Physiology or Medicine, 2014), Dan Shechtman (Chemistry, 2011), Frank Wilczek (Physics, 2004), David Gross (Physics, 2004), Joseph Stiglitz (Economic Sciences, 2001), Michael Levitt (Chemistry, 2013), Peter Doherty (Physiology or Medicine, 1996), Shirin Ebadi (Peace, 2003), Steven Chu (Physics, 1997), Sheldon Glashow (Physics, 1979), Samuel Ting (Physics, 1976), Eric S. Maskin (Economic Sciences, 2007), Carlo Rubbia (Physics, 1984), Thomas A. Steitz (Chemistry, 2009), Torsten Wiesel (Physiology or Medicine, 1981), Bengt Samuelsson (Physiology or Medicine, 1982) and Roger D. Kornberg (Chemistry, 2006).

The Nobel Week concludes

VIDEOTAPING OF THE TV PROGRAMME NOBEL MINDS

Since the 1960s, during the Nobel Week the Laureates have gathered for a round-table discussion for television, *Nobel Minds*. The programme has a popular science touch and examines general questions related to science and research. The programme will be videotaped on December 11 in Grünwald Hall (Grünwaldssalen) at the Stockholm Concert Hall. In the audience will be a number of students as well as some of the Laureates' guests. The programme is a production of Swedish Television and BBC World. The discussion will be moderated by Zeinab Badawi of the BBC.

THE LAUREATES VISIT THE NOBEL FOUNDATION

On December 11, 12 and 13, the Laureates will make individual visits to the Nobel Foundation. Here they will retrieve their medals and diplomas, which will have been displayed in the Golden Hall of the City Hall during the Nobel Banquet. At the Nobel Foundation, they will also discuss the details concerning the transfer of their prize money. On December 12, the Laureates will be invited to a reception at the Nobel Foundation.

NOBEL LAUREATES AT THE SWEDISH RIKSDAG (PARLIAMENT)

All of Sweden's MPs have been invited by the Speaker of Parliament to meet some of the 2017 Laureates on December 12. The seminar is being organised in cooperation with the Nobel Center and will deal with how the path to a Nobel Prize may look and what role politicians can play in furthering research.

THE OFFICIAL NOBEL WEEK PROGRAMME ENDS

The Laureates will attend a number of activities outside of the official Nobel Week programme. On December 12, arrangements include seminars at Karolinska Institutet and at the Stockholm School of Economics. School visits will be hosted by the Royal Swedish Academy of Sciences. In keeping with tradition, the Royal Dramatic Theatre (Dramaten) will also pay tribute to the year's Laureate in Literature by presenting an event on its main stage at 19.00 on December 12. The programme will feature a conversation between Kazuo Ishiguro, the 2017 Laureate, and Malin Ullgren, literature editor at the newspaper *Dagens Nyheter*, as well as actors from the Dramaten ensemble.

UNIVERSITY VISITS AND LUCIA CELEBRATIONS

From December 13 onward, the Laureates have been invited to a number of universities and colleges. Many Laureates will visit Uppsala University. Örebro University and Nobel's Björkborn Manor in Karlskoga will be visited by Physiology or Medicine Laureates Michael Rosbash and Michael Young, while Chemistry Laureate Jacques Dubochet will lecture at Umeå University. The Laureates are also invited to attend the Stockholm University Student Union's Lucia Ball or the Medical Students' Union Lucia Ball on the evening of December 13.

Follow the Nobel Prize

THE NOBEL PRIZE DIGITAL CHANNELS

The Nobel Prize digital channels aim to engage, inspire and inform people about the Nobel Prize and the major issues of our era related to science, humanism and peace. Their ambition is to achieve a global reach, and they have grown rapidly over the past two years. The Nobel Prize has more than 3,950,000 Facebook followers and more than 300,000 on Twitter. On Instagram, the number of followers is growing rapidly. The digital channels have recently devoted editorial resources to storytelling and explanations in video format, as well as live broadcasts from meetings around the world and naturally from the announcements of new Nobel Laureates. During this year's Prize announcement period in October, the Nobel Prize digital channels reached an average of 13 million individuals per day.

The Nobelprize.org website contains official information about all the Laureates since 1901. Using the Nobel Prize as a recurring theme, it ties together history, the present and the future. Here the digital channels have access to numerous stories and can mix Nobel Prize-winning discoveries like DNA, gravitational waves, tenacious peace efforts, ground-breaking literary works and biographies with discussions of artificial intelligence and future recipes for education.

The audience that follows the Nobel Prize digital channels can be described as global, curious and engaged. It consists of people who are interested in discussions and in playing their part in social progress. Many of them are located in countries like India, Brazil, the United States, Egypt, Japan, the United Kingdom and Nigeria. The Nobel Prize digital channels reach approximately as many women as men. The largest single age category is 18–25 years old.

What is especially engaging is the stories that these channels disseminate about the usefulness of Nobel Prize-awarded discoveries and achievements – how they have contributed to a better world.

NOBELPRIZE.ORG

The Nobel Prize Award Ceremonies in Oslo and Stockholm will be webcast live on Nobelprize.org at 13.00 and 16.30 CET, respectively, on December 10. The complete presentation speeches at the Nobel Prize Award Ceremonies will be posted at the same times, and the menu from the Nobel Banquet at the Stockholm City Hall will be published at 19.00. Press photos of the various dishes served at the Nobel Banquet will be published during the evening. The speeches of thanks held by Laureates during the Banquet will be posted later the same evening. However, the seating plan for the Table of Honour will be published earlier, at 10.00 on December 9. The Nobel Lectures will also be webcast live on Nobelprize.org at the above-stated times.

BROADCASTS ON SVT

Sveriges Television (SVT) will broadcast live from the Nobel Prize Award Ceremony and the Nobel Banquet. In addition to its live broadcasts from the Stockholm Concert Hall and the Stockholm City Hall on December 10, SVT will broadcast its live *Nobelstudion* programme during the period December 5 to 10. It will also broadcast portraits of the Laureates, their Nobel and Prize Lectures and the Nobel Week Dialogue during December. The Nobel Prize Concert will be broadcast live on SVT Play on Friday, December 8 at 19.00 and on SVT2 on Saturday, December 9 at 21.00.

INTERNATIONAL DISTRIBUTION OF THE PROGRAMMES

International media that will broadcast television coverage from the Nobel Prize Award Ceremony are the European Broadcasting Union (EBU), which will also distribute material from the Banquet, as well as Associated Press Television News (APTN) and Thomson Reuters.

THE NOBEL CENTER AND THE NOBEL MUSEUM

The Nobel Prize shows that ideas can change the world. The courage, creativity and persistence of the Nobel Laureates inspire us and give us hope for the future. Based on the Nobel Prize's unique combination of fields – natural sciences, literature and peace – the Nobel Center would like to invite you to exhibitions, school programmes, lectures and dialogues about the great issues of our time. The future Nobel Center building in Stockholm will be a natural destination for visitors from all over the world – tourists, Stockholm residents, researchers and school pupils.

Over the past 20 years, public activities related to the Nobel Prize have expanded. They include school programmes for thousands of curious pupils. Exhibitions, international meetings, digital channels and activities in Stockholm and Oslo have helped bring about new encounters between people – people who dare to challenge the status quo, who want to ask new questions and think new thoughts, who want to contribute to a better world. There is a lot of good experience to make use of, and new activities are being developed concurrently ahead of the opening of the Nobel Center. During 2017 this has included working together with libraries, theatres and other institutions and organising seminars and discussions where both Stockholm residents and tourists have both been able to celebrate and learn more about the year's Nobel Prizes. The Nobel Center's first international conference for educators, the Nobel Teacher Summit, gathered 350 teachers from 15 countries. It was the beginning of a major effort to create a global network for teachers and school administrators.

The task of creating a Nobel Center began in 2011. After an extensive architectural competition, in 2014 David Chipperfield and Christoph Felger emerged as the winners and were commissioned to design the building. Development of the Nobel Center is taking place in close collaboration with the City of Stockholm, which owns the site on the Blasieholmen peninsula in central Stockholm where the Center will be built. When the Center opens a few years from now, the ambition is to welcome more than 600,000 visitors per year.

In the meantime – under the “Nobel Center c/o” label – public activities related to the Nobel Prize will pop up at various venues around Stockholm and at the Nobel Museum’s current site in the Old Town. In addition to new school and programme activities, Museum visitors can view the permanent exhibition *Cultures of Creativity*, which draws on the Nobel Laureates to examine the qualities that characterise an individual’s creative talents. The Nobel Museum offers daily guided tours, a bistro, a shop and a library.

<http://www.nobelcenter.se>

Historical background

THE NOBEL PRIZE AWARD CEREMONY

The Nobel Prize Award Ceremony assumed its fundamental shape as early as 1901. During the early years, the programme was the same as today in all essential respects, but there were differences in the format of the ceremony. Both the Laureates and the Royal Family sat in the seats closest to the stage, and on the stage there was an orchestra or choir. There were also floral decorations and the same bust of Alfred Nobel that is still being used. In charge of the decorations was Palace Architect Agi Lindegren. Until 1925, the Nobel Prize was awarded at the Royal Swedish Academy of Music, but when the Stockholm Concert Hall was completed in 1926 the Nobel Prize began to be awarded there. This has been the case except in 1971 and 1972, when a renovation caused the Award Ceremony to move first to Filadelfiakyrkan, a large church in Stockholm, and then to Stockholm International Fairs (then called S:t Eriksmässan) in Älvsjö south of the city centre. In 1975 S:t Eriksmässan was used again, in conjunction with the 75th anniversary of the Prize. In 1991 the Prize Award Ceremony took place at the Ericsson Globe (then called the Stockholm Globe Arena). During the years 1914–1919 and 1939–1944, the Prize Award Ceremony was cancelled due to the world situation and in 1924 because no Laureates came to Stockholm.

In 1928 the Nobel Prize Award Ceremony was broadcast on the radio for the first time, and as early as 1950 a trial television broadcast took place, but the Ceremony has been broadcast on TV regularly since 1959. At the early Nobel Prize Award Ceremonies, mainly Swedish music was played. Over time, the organisers tried to adapt the choice of music to the Laureates' countries of birth, but today they look for a suitable theme in a varied repertoire. At the opening and closing, the same pieces of music recur: first the royal anthem *Kungssången* and then Mozart's *March i D major, KV 249* when the Laureates enter. The ceremony closes with the national anthem *Du gamla, du fria* and then *The Queen of Sheba's Festivity March* by Hugo Alfvén.

THE NOBEL BANQUET

The Banquet following the Prize Award Ceremony has grown from a small dinner for the Nobel Laureates and representatives of the prize-awarding institutions into an internationally renowned banquet.

During the early decades, between 100 and 300 people were invited, and the dinners consisted of five courses. They began with hors d'oeuvres or soup, then fish, meat and fowl, plus dessert. As the number of guests has increased, the number of courses has decreased, first to four and then to the current three. The menus have also followed increasingly well-thought-out themes based on Swedish cuisine.

Until 1933 the Banquet took place at the Grand Hôtel. As early as 1930 the Banquet was held in the Golden Hall of the City Hall, but it moved back to the Hall of Mirrors at the Grand. Starting in 1934, the Banquet has been held at the Stockholm City Hall every year, first in the Golden Hall and since 1974 in the Blue Hall. The exceptions were in 1924, when the festivities were cancelled because all the Laureates were prevented from attending; in 1956, when out of consideration for the political situation (the Soviet Union's military occupation of Hungary) the organisers chose to hold a smaller dinner at the Grand Hall (Börssalen) of the Swedish Academy; as well as during the war years 1914–1919 and 1939–1944.

ALFRED NOBEL

Alfred Nobel (1833–1896) is best known as the inventor of dynamite. He was also a businessman with extensive international operations. He was born in Stockholm, but spent most of his life outside the borders of Sweden, in such places as St. Petersburg, Hamburg, Paris and Sanremo. His life consisted largely of travel and work, and he never started a family. As a young man, Nobel was interested in literature, but his education focused on natural science. While staying in Paris, he came into contact with nitroglycerine, an effective but dangerous explosive. Dynamite, a mixture of nitroglycerine and kieselguhr (a kind of sand) was Nobel's way of making the explosive safer and easier to handle. This led to an industrial breakthrough, and Nobel established more than 90 factories in 20 countries. During his lifetime, Nobel was already a philanthropist. In particular, he was involved in the European peace movement. Nobel was influenced by the ideals of the Enlightenment – which was apparent from the will he signed in Paris on November 27, 1895. In the will, Nobel stipulated that his fortune should be transformed into a fund, whose interest should constitute prizes awarded to person who “shall have conferred the greatest benefit on mankind”. The structure of the prize categories shows the breadth of Nobel's thinking. In order to create a more peaceful and prosperous world, progress was needed in both science and literature, as well as through political efforts.

SELECTING THE LAUREATES

The task of selecting Nobel Laureates is based on a nomination procedure whose principles were devised during negotiations in 1897–1900. For each prize category, there is a Nobel Committee, and in September this committee sends out invitations to Academy members, university professors, other researchers, parliamentarians, previous Laureates etc. to submit nominations. These must be in the hands of the committee no later than January 31. From February until early October, the prize-awarding institutions work on evaluating the nominees. When a decision is made, the Laureate is notified and then the general public at a press conference. In 1968 Sveriges Riksbank (Sweden's central bank) established the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, which is awarded at the same prize ceremony. The Laureates are selected by the Royal Swedish Academy of Sciences, but the Prize is funded by Sveriges Riksbank.

PRELIMINARY TIMETABLE FOR THE 2017 NOBEL PRIZE AWARD CEREMONY

- 16.30 *Drumroll, Royal Family proceed to their seats onstage, the Swedish royal anthem, Kungssången*
- 16.31 *March in D Major, KV 249 by Wolfgang Amadeus Mozart, Laureates proceed to their seats onstage*
- 16.35 Speech by Professor Carl-Henrik Heldin, Chairman of the Board of the Nobel Foundation
- 16.43 *2nd movement Alla siciliana from Gaelic Symphony by Amy Beach*

PHYSICS

- 16.51 Presentation of the 2017 Nobel Prize in Physics to Professor Emeritus Rainer Weiss, Professor Emeritus Barry C. Barish and Professor Emeritus Kip S. Thorne after a presentation speech by Professor Olga Botner

CHEMISTRY

- 16.58 Presentation of the 2017 Nobel Prize in Chemistry to Honorary Professor Jacques Dubochet, Professor Joachim Frank and Dr Richard Henderson after a presentation speech by Professor Peter Brzezinski
- 17.05 *Aria "Jauchzet Gott in allen Landen" from Cantata No. 51 by Johann Sebastian Bach*
Soloists: Camilla Tilling, soprano, and Joakim Agnas, trumpet

PHYSIOLOGY OR MEDICINE

- 17.11 Presentation of the 2017 Nobel Prize in Physiology or Medicine to Professor Emeritus Jeffrey C. Hall, Professor Michael Rosbash and Professor Michael W. Young after a presentation speech by Professor Carlos Ibáñez
- 17.18 *Liebesbriefchen* by Eric Wolfgang Korngold
Soloist: Camilla Tilling, soprano

LITERATURE

- 17.21 Presentation of the 2017 Nobel Prize in Literature to Mr Kazuo Ishiguro after a presentation speech by Professor Sara Danius
- 17.27 *Congratulations from Frösö Flowers* by Wilhelm Peterson-Berger

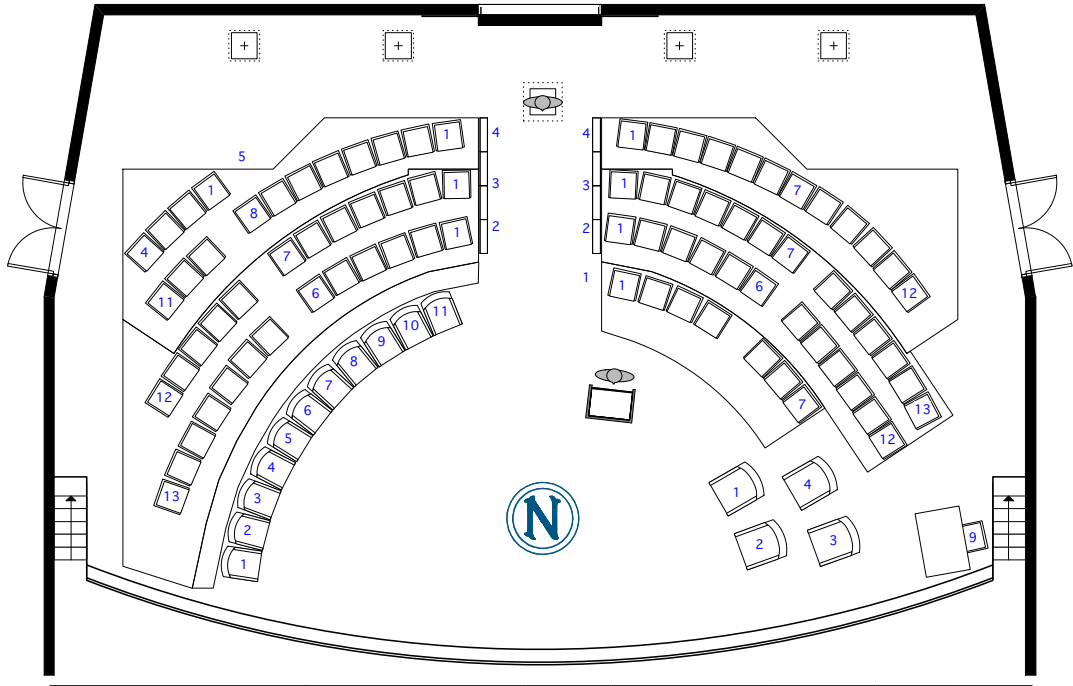
ECONOMIC SCIENCES

- 17.31 Presentation of the 2017 Sveriges Riksbank Prize in Economic Sciences to Professor Richard H. Thaler after a presentation speech by Professor Per Strömberg
- 17.37 The Swedish national anthem *Du gamla, Du fria*
- 17.39 *The Queen of Sheba's Festivity March* from *The Prodigal Son* by Hugo Alfvén Played while the guests are leaving the auditorium
- 17.42 The Ceremony ends

MUSIC PERFORMED BY:

The Royal Stockholm Philharmonic Orchestra
Conductor: Joana Carneiro

SEATING PLAN ON THE STAGE, 2017 NOBEL PRIZE AWARD CEREMONY



				Side	Row	Seat
	H.M The Queen			Right		1
	H.M. the King			Right		2
	H.R.H. Crown Princess Victoria			Right		3
	H.R.H. Prince Daniel			Right		4
Professor	Grandin		Karl	Right		9
Professor	Heldin		Carl-Henrik	Right	1	1
Professor	Hansson	K.	Göran	Right	1	2
Executive Director, Dr	Heikensten		Lars	Right	1	3
Professor	Danius		Sara	Right	1	4
MSc	Nicolin	R.	Tomas	Right	1	5
Professor	Perlmann		Thomas	Right	1	6
Professor	Ingelman		Gunnar	Right	1	7
Professor	Larsson		Mats	Right	2	1
Professor	Hansson		Thors Hans	Right	2	2
Professor	Haviland	B.	David	Right	2	3
Professor	Irbäck		Anders	Right	2	4
Professor	Snogerup Linse		Sara	Right	2	5
Professor	Brzezinski		Peter	Right	2	6
Professor	Botner		Olga	Right	2	7
Professor	von Heijne		Gunnar	Right	2	8
Professor	Mårtensson		Nils	Right	2	9
Professor	Danielsson		Ulf	Right	2	10
Professor	Ibáñez		Carlos	Right	2	11
Professor	Strömberg		Per	Right	2	12
Professor	Gustafsson		Claes	Right	3	1
Professor	Åqvist		Johan	Right	3	2
Professor	Somfai		Peter	Right	3	3
Professor	Ramström		Olof	Right	3	4
Professor	Linke		Heiner	Right	3	5
Professor	Zierath	R	Juleen	Right	3	6
Professor	Sjögren		Camilla	Right	3	7
Professor	Wedell		Anna	Right	3	8
Professor	Olsson		Tomas	Right	3	9
Director	Berge		Gunnar	Right	3	10
Professor	Björner		Anders	Right	3	11

				Side	Row	Seat
Professor	Moberg		Christina	Right	3	12
Dr	Björck		Jonas	Right	3	13
Professor	Schneider		Gunter	Right	4	1
Professor	Ernfors		Patrik	Right	4	2
Professor	Höög		Christer	Right	4	3
Professor	Kiehn		Ole	Right	4	4
Professor	Larsson		Nils-Göran	Right	4	5
Professor	Andersson		Jan	Right	4	6
Professor	Holmdahl	M:son	Rikard	Right	4	7
Professor	Kämpe		Olle	Right	4	8
Professor	Kärre		Klas	Right	4	9
Professor	Masucci		Maria	Right	4	10
Professor	Smith		Edvard	Right	4	11
Professor	Toftgård		Rune	Right	4	12
Professor Emeritus	Weiss		Rainer	Left		1
Professor Emeritus	Barish	C.	Barry	Left		2
Professor Emeritus	Thorne	S.	Kip	Left		3
Honorary Professor	Dubochet		Jacques	Left		4
Professor	Frank		Joachim	Left		5
Dr	Henderson		Richard	Left		6
Professor Emeritus	Hall	C.	Jeffrey	Left		7
Professor	Rosbash		Michael	Left		8
Professor	Young	W.	Michael	Left		9
Mr	Ishiguro		Kazuo	Left		10
Professor	Thaler	H.	Richard	Left		11
Professor	Ting	C.C.	Samuel	Left	2	1
Professor	Glashow		Sheldon	Left	2	2
Professor	Rubbia		Carlo	Left	2	3
Dr	Chu		Steven	Left	2	4
Professor	Gross	J.	David	Left	2	5
Professor	Wilczek		Frank	Left	2	6
Professor	Haroche		Serge	Left	2	7
Professor	Steitz	A	Thomas	Left	2	8
Professor	Shechtman		Dan	Left	2	9
Professor	Levitt		Michael	Left	2	10
President Emeritus	Wiesel	N.	Torsten	Left	2	11
Professor	Samuelsson		Bengt	Left	2	12
Professor	Doherty		Peter	Left	2	13
Professor	Buck		Linda	Left	3	1
Professor	Blackburn	H.	Elizabeth	Left	3	2
Professor	Moser	I.	Edvard	Left	3	3
Mrs	Ebadi		Shirin	Left	3	4
Professor	Stiglitz		Joseph	Left	3	5
Professor	Maskin	S.	Eric	Left	3	6
Professor	Allén		Sture	Left	3	7
Writer, Professor	Espmark		Kjell	Left	3	8
Writer	Wästberg		Per	Left	3	9
Professor	Engdahl		Horace	Left	3	10
Professor	Ralph		Bo	Left	3	11
Professor	Englund	M.	Peter	Left	3	12
Writer	Lugn		Kristina	Left	4	1
Writer	Svenbro		Jesper	Left	4	2
Professor	Olsson		Anders	Left	4	3
Professor	Riad		Tomas	Left	4	4
Writer	Östergren		Klas	Left	4	5
Writer	Stridsberg		Sara	Left	4	6
Professor	Persson		Torsten	Left	4	7
Professor	Krusell		Per	Left	4	8
Professor	Svensson		Jakob	Left	4	9
Professor	Gårdenfors		Peter	Left	4	10
Professor	Johannesson		Magnus	Left	4	11
Professor	Mörk		Eva	Left	5	1
Professor	Rootzén		Holger	Left	5	2
Professor	Hassler		John	Left	5	3
Professor	Fredriksson		Peter	Left	5	4

PRELIMINARY TIME SCHEDULE FOR THE 2017 NOBEL BANQUET

- 18.30 Guests are welcomed into the Blue Hall and requested to take their seats.
- 19.03 **FANFARES** – Guests at the Table of Honour enter in procession to organ and trumpet
- 19.13 Guests have taken their seats – champagne is served at the Table of Honour
- 19.16 **FANFARE** – His Majesty’s toast is proposed by the host of the evening’s events
- 19.18 **FANFARE** – A toast to Alfred Nobel’s memory is proposed by His Majesty the King
- 19.20 Photo opportunity at the Table of Honour, (2x2 min)
- 19.24 **DIVERTISSEMENT I** (6 min)
- 19.32 The first course is served – parade via the grand stairway
- 19.52 Photo opportunity at the Table of Honour (2x2 min)
- 20.21 **DIVERTISSEMENT II** (7:30) min
- 20.40 The main course is served – parade via the grand stairway
- 21.16 The main course plates and cutlery are cleared
- 21.27 Dessert wine is served
- 21.40 **DIVERTISSEMENT III** (7 min)
- 21.47 **DIVERTISSEMENT IV** (4:30 min)
- 21.47 Dessert parade via the grand stairway
- Coffee and liqueur are served
- 22.22 The students of Sweden parade their flags, balustrade and grand stairway
- 22.25 The Laureates’ speeches of thanks
- 22.50 (estimate) A signal is given when the guests may rise from the table

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