

THE
NOBEL
PRIZE

Nobel Week Stockholm · 2023

Detailed information for the media
6 December 2023

This year's Nobel Prize laureates

This year's laureates are 11 in number. Since 1901, the Nobel Prize has been awarded 621 times to 1,000 laureates. Because some have been awarded the prize twice, a total of 965 individuals and 27 organisations have received a Nobel Prize or the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel. All laureates whose prizes are awarded in Stockholm on the Nobel Day – 10 December 2023 – are presented below. Each laureate and their significant other may invite an official party of 14 people to the Nobel Week in Stockholm.

THE NOBEL PRIZE IN PHYSICS

THE 2023 NOBEL PRIZE IN PHYSICS has been awarded to Pierre Agostini, Ferenc Krausz and Anne L'Huillier *“for experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter”*.

Pierre Agostini was born on 23 July 1941 in Tunis, French protectorate of Tunisia. He is affiliated with The Ohio State University, USA.

Ferenc Krausz was born on 17 May 1962 in Mór, Hungary. He is affiliated with the Max Planck Institute of Quantum Optics, Germany and Ludwig-Maximilians-Universität München, Germany.

Anne L'Huillier was born on 16 August 1958 in Paris, France. She is affiliated with Lund University, Sweden.

THE NOBEL PRIZE IN CHEMISTRY

THE 2023 NOBEL PRIZE IN CHEMISTRY has been awarded to Mounqi G. Bawendi, Louis E. Brus and Aleksey Yekimov *“for the discovery and synthesis of quantum dots”*.

Mounqi G. Bawendi was born in 1961 in Paris, France. He is affiliated with the Massachusetts Institute of Technology (MIT), USA.

Louis E. Brus was born in 1943 in Cleveland, USA. He is affiliated with Columbia University, USA.

Aleksey Yekimov was born in 1945 in the Soviet Union (now Russia). He is affiliated with Nanocrystals Technology Inc., USA.

THE NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

THE 2023 NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE has been awarded to Katalin Karikó and Drew Weissman *“for their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19”*.

Katalin Karikó was born on 17 January 1955 in Szolnok, Hungary. She is affiliated with Szeged University, Hungary and the University of Pennsylvania, USA.

Drew Weissman was born on 7 September 1959 in Lexington, MA, USA. He is affiliated with the Penn Institute for RNA Innovations, University of Pennsylvania, USA.

THE NOBEL PRIZE IN LITERATURE

THE 2023 NOBEL PRIZE IN LITERATURE has been awarded to Norwegian author Jon Fosse “*for his innovative plays and prose which give voice to the unsayable*”.

Jon Fosse was born on 29 September 1959 in Haugesund, Norway. He lives in Norway and Austria.

THE PRIZE IN ECONOMIC SCIENCES

THE 2023 SVERIGES RIKSBANK PRIZE IN ECONOMIC SCIENCES IN MEMORY OF ALFRED NOBEL has been awarded to Claudia Goldin “*for having advanced our understanding of women’s labour market outcomes*”.

Claudia Goldin was born in 1946 in New York, NY, USA. She is affiliated with Harvard University, Cambridge, USA.

Earlier laureates

Every year, a number of earlier laureates are invited to the international Nobel Week Dialogue, which is held during Nobel Week, this year in Gothenburg. **Steven Chu**, 1997 laureate in physics; **Abdulrazak Gurnah**, 2021 laureate in literature; and **Ardem Patapoutian**, 2021 laureate in medicine, will participate in the 2023 Nobel Week Dialogue, a conference that will discuss the issue of migration.

The following laureates will participate as guests during the Nobel Week: **Richard Roberts**, 1993 laureate in medicine; and **Louis Ignarro**, 1998 laureate in medicine.

The 2023 Nobel Week

The 2023 Nobel Week will begin with a visit to the Nobel Prize Museum on Stortorget, the main square in Stockholm's Old Town (Gamla Stan) on 6 December. At the museum, the laureates will be welcomed to an eventful week in Stockholm and will also get to meet each other as a group for the first time. In keeping with tradition, the visit to the museum will end with laureates autographing chairs at Bistro Nobel and donating an artefact to the museum's collections. It may be an artefact that tells about who they are, or that has a connection to the achievements for which they have been rewarded. These tangible objects help bring to life the laureates' stories, which are retold in exhibitions and by the guides at the museum.

Press conferences

(Central European Time, CET)

6 December

13:15

The Nobel Foundation's press conference regarding the Nobel Week. The chef and pastry chef for the Nobel Prize banquet will be presented. At the press conference, the artefacts that this year's Nobel Prize laureates donated to the Nobel Prize Museum earlier the same day will also be on display, and the media will have an opportunity to see creations by fashion students from Beckmans School of Design, inspired by this year's Nobel Prizes. (The artefact from Jon Fosse will be on display on 9 December.)

15:00

Press conference for the laureates in physiology or medicine at the Nobel Forum.

7 December

09:30

Press conference for the laureates in physics, chemistry and economic sciences at the Royal Swedish Academy of Sciences.

9 December

10:00

Literature laureate Jon Fosse's artefact will be on display at the Nobel Prize Museum (Other laureates' artefacts will be on display on 6 December.)

13 December

13:00

Representatives of this year's peace prize laureate will visit the Nobel Prize Museum.

Nobel Prize lectures

During the Nobel Week, in keeping with the statutes of the Nobel Foundation, all the laureates will hold a Nobel Prize lecture concerning the discovery or achievements they have been rewarded for. With a few exceptions, this has been done since the first Nobel Prizes were awarded in 1901. The scientific lectures will be open to the public and free of charge. Some of the lectures require registration.

The Nobel Prize lectures in physiology or medicine

Venue: Aula Medica, Nobels väg 6, Karolinska Institutet, Campus Solna

7 December

14:00

“Developing mRNA for therapy”

Katalin Karikó

“Nucleoside Modified mRNA-LNP Therapeutics”

Drew Weissman

The Nobel Prize lecture in literature

Venue: Grand Hall (Börssalen), Swedish Academy, Källargränd 4, Old Town, Stockholm

7 December

17:00

“Eit taust språk / Ett tyst språk / A silent language”

Jon Fosse

Nobel Prize lectures in physics, chemistry and economic sciences

Venue: Aula Magna, Stockholm University

8 December

09:00–10:55

The Nobel Prize in Physics

“The route to attosecond pulses”

Anne L’Huillier

“The Genesis of an Attosecond Pulse Train”

Pierre Agostini

“Attosecond physics: exploring sub-atomic motions”

Ferenc Krausz

11:20–13:10

The Nobel Prize in Chemistry

“Spatial confinement of electronic & vibronic excitations in QDs”

Aleksey Yekimov

“Chemical Quantum Dots”

Louis E. Brus

“A Synthesis Born of Necessity Unlocks a Nano-World of Wonders”

Moungi G. Bawendi

14:00–14:40

The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel

“An Evolving Economic Force”

Claudia Goldin

The Nobel Week at the Nobel Prize Museum

On 8 December, the museum will hold the concluding conference of this year's Help a Scientist project, in which students in grades 7–9 from all over Sweden have helped researchers collect seaweed. Medicine laureate Katalin Karikó will participate and meet the students. That same evening, the museum will offer guided tours about this year's Nobel Prizes and how they benefit and change the world around us. During the evening, Nobel ice cream will be served, inspired by desserts from the Nobel Prize banquet.

On 10 December, the Nobel Day will be celebrated at the museum with family activities and an exclusive three-course lunch inspired by the Nobel Prize banquets. (Lunch must be pre-booked.)

The artefacts that this year's laureates donated to the museum, and the chairs they signed when they arrived in Stockholm, will be on display during the Nobel Day. The award ceremonies from both the City Hall in Oslo and from Konserthuset Stockholm will be broadcast live on a big screen. During the day, the museum will offer guided tours of this autumn's exhibition *Fungi – In art and science*.

To recognise and honour this year's laureates and their achievements, fashion students at Beckmans College of Design have interpreted this year's prizes in the form of fashion creations. Some of the students will be at the museum on the Nobel Day to talk about their creations, which will be on display throughout December.

Read more at <https://nobelprizemuseum.se/en>.

The Nobel Prize Concert

The Nobel Prize Concert will take place at 19:00 on 8 December at Konserthuset Stockholm (Stockholm Concert Hall). The audience will see world-renowned conductor Esa-Pekka Salonen and acclaimed violinist Julia Fischer, together with the Royal Stockholm Philharmonic Orchestra. Works by Boccherini, Brahms and Ravel will be performed on the Konserthuset Stockholm stage. The audience can also hear a work by the exciting young composer Gabriella Smith.

Finnish-born conductor and composer Esa-Pekka Salonen is one of the leading figures in today's classical music world. He has often combined the core repertoire with bold and innovative programming, and at the same time he has emerged as a razor-sharp, forward-looking spokesperson for the entire genre.

Johannes Brahms' captivating *Violin Concerto* will be part of the programme during this year's concert. The soloist will be German violinist Julia Fischer, admired worldwide for her astonishing versatility. The 2023 Nobel Prize Concert marks her debut with the Royal Stockholm Philharmonic Orchestra.

The audience will also hear Maurice Ravel's ballet music for the classic love story of Daphnis and Chloé. He created two orchestral suites from the ballet and this *Suite No. 2* is the most popular, elegant and colourful music, starting with the sun rising over the landscape in spectacular fashion. Adding to this, there will be music by Luigi Boccherini in Luciano Berio's festive arrangement for orchestra and American composer Gabriella Smith's *Tumblebird Contrails* with its hallucinatory evocation of the sounds of the Pacific Ocean.

The Nobel Prize Concert will be broadcast on SVT Play at 19:00 on Thursday 8 December and on Swedish Television's SVT2 channel at 19:00 on Saturday 17 December. The concert is a joint project between Nobel Prize Outreach and Konserthuset Stockholm.

Read more: <https://www.nobelprize.org/nobel-prize-concert/>.

The Nobel Week Dialogue

On 9 December Nobel Prize laureates will exchange ideas with some of the world's most prominent experts on migration during the Nobel Week Dialogue in Gothenburg, Sweden. This annual event during the Nobel Week offers discussions about a theme – both on-site and online – aimed at inspiring people to seek knowledge, ask questions and strive to understand and improve the world.

Over the centuries, our societies have been shaped and reshaped by migration. All indications are that the factors that drive people to seek a new life elsewhere will increase – regardless of whether the cause of their displacement is famine or war, our changing climate or the desire for a better life. Migration is the theme of the 2023 Nobel Week Dialogue at the Swedish Exhibition & Congress Centre (Svenska Mässan) in Gothenburg. Conference participants will examine what migration flows have looked like over the years, what the situation is today and what we can expect in the future.

Three Nobel Prize laureates will attend the conference to talk about their personal experiences. Literature laureate Abdulrazak Gurnah was forced to leave Zanzibar for England in the 1960s. Physics laureate Steven Chu grew up in the United States as a second-generation immigrant. Also speaking at the event will be medicine laureate Ardem Patapoutian. He was born in Beirut, Lebanon, but when he was 18 years old he emigrated to the United States, leaving behind his friends and parents.

During the conference, leaders from various international organisations – such as the United Nations High Commissioner for Refugees (UNHCR), the International Federation of Red Cross and Red Crescent Societies (IFRC) and the International Organisation for Migration (IOM) – will meet in a unique conversation about migration in the world today.

During the Nobel Week Dialogue, Andrea Spehar and Ron Davis Alvarez will take a deep dive into how Gothenburg (Göteborg) has approached the issue of migration, both historically and in the present. The “Dream Orchestra” from Gothenburg will also participate in the programme. The orchestra was founded in April 2016. Today it consists of 184 children and young people from about 18 countries. Many came to Sweden in the autumn of 2015, while others have lived here all their lives. Musician Diva Cruz will also perform.

The conference will be free of charge, but registration is required. The first come, first served principle will apply. The programme will run from 10:00 to 15:00.

The Nobel Week Dialogue is held every other year in Stockholm and every other year in Gothenburg. Read more at nobelprize.org/future-of-migration.

Nobel Minds

Since the 1960s, during the Nobel Week the Nobel Prize laureates have gathered for a round table discussion for television, *Nobel Minds*. The programme has a popular science approach and examines general questions related to science, research and literature. The 2023 laureates from scientific disciplines will participate in this conversation. The programme will be recorded in the Bernadotte Library at the Royal Palace on 9 December in front of an invited audience. The programme is produced by Sveriges Television and BBC World News. The discussion will be hosted by Zeinab Badawi of the BBC.

This year Ferenc Krausz, Anne L’Huillier, Mounji G. Bawendi, Louis E. Brus, Katalin Karikó, Drew Weissman and Claudia Goldin will participate in the conversation.

The Nobel Prize award ceremony in Stockholm

A complete programme and time schedule are attached

The Nobel Day, 10 December, begins with the traditional Nobel Prize award ceremony at Konserthuset Stockholm (Stockholm Concert Hall), which will start at 16:00 CET. There will be presentation speeches about the year's prizes before an audience of about 1,560 guests, who will then watch the laureates as they receive their medals and diplomas 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 about 90 people. In addition to the 2023 laureates, there will be laureates from earlier years. Also seated onstage will among others be members of the Royal Swedish Academy of Sciences, the Nobel Assembly of Karolinska Institutet, the Swedish Academy and the Board of Directors of the Nobel Foundation. Seated in front of them on the stage will be this year's laureates and members of Sweden's Royal Family: H.M. King Carl XVI Gustaf, H.M. Queen Silvia, H.R.H. Crown Princess Victoria och H.R.H. Prince Daniel. In the first row closest to the stage will be H.R.H. Prince Carl Philip and H.R.H. Princess Sofia.

The entire Swedish government is invited to the Nobel Prize award ceremony. Among those invited to both the award ceremony and the banquet are the speaker of the Riksdag (Parliament), the prime minister, the minister for foreign affairs, the minister for culture, the minister for finance and the minister for education, as well as the chairperson of Sveriges Riksbank's General Council.

Presentation speeches

The Chair of the Board of the Nobel Foundation, Professor Astrid Söderbergh Widding, will hold an opening address. After that, the 2023 Nobel Prize laureates will be presented. The presentation speeches will take place as follows:

Physics – Professor Eva Olsson

Chemistry – Professor Heiner Linke

Physiology or Medicine – Professor Gunilla Karlsson Hedestam

Literature – Professor Anders Olsson

Economic Sciences – Professor Kerstin Enflo

Musical interludes

The Royal Stockholm Philharmonic Orchestra, under the baton of Alexander Hanson, will provide the music. Soprano Julia Sporsén will be the vocal soloist at the award ceremony. Music by Valentin Silvestrov, Hector Berlioz and Edvard Grieg will be performed.

Julia Sporsén

Swedish soprano Julia Sporsén has been praised for her intense and expressive role portrayals. In 2023, she was awarded the Svenska Dagbladet Opera Prize after the success of her title role in Bellini's opera *Norma* at Folkoperan in 2022. She can be seen on opera stages both in Sweden and internationally. She is currently starring in Jonas Forssell's *Death and the Maiden* at Malmö Opera.

Alexander Hanson

Alexander Hanson is a regular guest conductor with a number of prominent orchestras in the Nordic region and has been frequently engaged at the Göteborg Opera. Internationally, he has worked with the Rotterdam Philharmonic and the Prague Radio Symphony Orchestra, among others. He has conducted the Royal Stockholm Philharmonic Orchestra on several occasions in recent years, and since 2018 he has been Chief Conductor and Artistic Director of the Royal Swedish Navy Band in Karlskrona.

Magnificent floral donation since 1905

In homage to Alfred Nobel, who spent his final years in Sanremo, where he died on 10 December, Italy – in collaboration with Regione Liguria, the City of Sanremo and the Chamber of Commerce of Riviera di Liguria – has donated flowers since 1905 to decorate Konserthuset Stockholm and the Stockholm City Hall. During the pandemic, there was a pause, but now the collaboration is up and running again.

This year's floral decorations at the award ceremony

For two decades Helén Magnusson, chief florist at Hässelby Blommor, has designed the floral decorations for the Nobel Prize award ceremony. Together with her florists, she works for four days to create the decorations that will adorn the main stage at Konserthuset Stockholm. The flowers that have been selected to frame this year's award ceremony mainly consist of poppies and ranunculus in various colours, roses, mimosa flowers, orchids, olive branches, eucalyptus and several different kinds of green twigs.

The Nobel Prize banquet in Stockholm

The time schedule for the banquet is attached

After the ceremony at Konserthuset Stockholm, it will be time for the evening's Nobel Prize banquet at 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 CET. 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 attendants followed by H.M. the King with Professor Astrid Söderbergh Widding, Chair of the Board of the Nobel Foundation and the host of the evening's banquet, as well as H.M. the Queen with Vidar Helgesen, Executive Director of the Nobel Foundation.

In 1901 the first Nobel Prize banquet, held in the Hall of Mirrors of the Grand Hôtel, had 113 guests. Today the Nobel Prize banquet is served to about 1,250 guests.

Chef and pastry chef

For the first time, chef Jacob Holmström will be responsible for the first course and main course at the year's Nobel Prize banquet. Annie Hesselstad is returning to take charge of this year's dessert. The menu draws inspiration and ingredients from the sea and from nature in Sweden and Norway.

Jacob Holmström

Jacob Holmström will be responsible for the first course and main course at this year's Nobel Prize banquet. He is a Swedish chef and restaurateur from Simlångsdalen, near Halmstad. Together with Anton Bjuhr, he ran Gastrologik restaurant in Stockholm, which was awarded one Michelin star in 2013 and two stars in 2019. Holmström won the 2021 *Kockarnas kamp (Battle of the Chefs)* competition on Sweden's TV4. In 2022, he was awarded the Gastronomic Academy's Gold Medal as well as the title *Kockarnas Kock (Chef of the Year)*. Early in 2023 Jacob Holmström moved home to Halmstad, where he plans to open a new restaurant next year.

Having grown up on the west coast, Jacob Holmström likes to use what the sea has to offer in his cooking. This year, the banquet will thus feature a fish and shellfish-based menu. He prefers to work with locally produced ingredients, and the ingredients for the 10 December menu have been sourced from Sweden and Norway – a great combination, just like the Nobel Prize, which is awarded in both Sweden and Norway. He will also cut out 21,000 petal-like edible decorations using beets.

Annie Hesselstad

Annie Hesselstad is in charge of the dessert for the second year in a row. She was a member of the Swedish National Culinary Team in 2015 to 2016 and competed in the 2016 Culinary Olympics. She lived and worked for many years in both France and Austria. At the beginning of the pandemic, she studied foraging and locally produced ingredients at Örebro University. Today she is the creative director of the patisserie and bakery at Artipelag, an art gallery in the Stockholm archipelago, where her pastries are inspired by nature and the surrounding art exhibitions. She also works at Riksgränsen on Sweden's northern border with Norway as head pastry chef at a small boutique hotel, Niehku Mountain Villa, where she devotes much of her leisure time to skiing, hiking and fishing.

Her banquet dessert is a tribute to Sweden, with ingredients sourced from north to south. Among other things, the dessert will include 50 kilos of lingonberries picked in Mockträsk, outside the northern town of Boden. Tar syrup from Högtorp farm in Mellösa in central Sweden will also be used.

Menu and table setting

The menu has been developed in close collaboration with the Nobel Foundation's gastronomic advisors: Fredrik Eriksson of Långbro Vårdshus and Restaurant Nationalmuseum; Ulrika Karlsson of Krakas Krog; and Gert Klötzke, Professor of Gastronomy at Umeå University. Fredrik Eriksson and Ulrika Karlsson are also creative leaders at Restaurangakademien.

The menu will only be revealed when all the guests have sat down at their tables at 19:00 on 10 December.

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 Björquist (Rörstrand/Gustavsberg), Gunnar Cyrén (Orrefors) and Ingrid Dessau (Klässbols Linneväveri). The approximately 60 tables in the Blue Hall will be covered with some 800 metres of linen cloth, and the meticulous table setting will comprise no fewer than some 9,240 porcelain pieces, 5,230 glasses and 9,240 items of cutlery.

This will be the tenth year that Stadshusrestauranger and its CEO Maria Stridh will be responsible for presenting the Nobel Prize banquet. Chef de Cuisine for his nineteenth Nobel Prize banquet is Gunnar Eriksson. Those who will be working with the banquet meal during the evening include 44 chefs and 190 servers.

The Nobel Prize banquet will serve the Nobel Prize Museum Tea Blend – the museum’s own tea, whose flavours come from various places where Alfred Nobel lived and worked.

Divertissement – A Century of Echoes

This year's Nobel Prize banquet coincides with the 100th anniversary of the Stockholm City Hall. This has inspired the evening's divertissement, which is based on the theme of *echo*. It is about the physical echo of sound waves bouncing between the building's high walls, but also about the echo of history that reaches us in our era and the echo that this year's festivities pass on to the future.

The musical repertoire will span eras and genres – moving seamlessly between jazz, funk, opera, folk and baroque. Deepening the theme of the divertissement is the fact that its musical elements also examine what is often called *groove* or *rhythm*. At the Nobel Prize banquet in Stockholm City Hall, guests are traditionally invited to dance in the Golden Hall after their meal is over, but this year's divertissement will try to make the guests feel like dancing while still seated at their tables.

Participants will include 14 musicians from the Västerås Sinfonietta, 35 singers from the girls' choir of Västerås Music Classes at Fryxellska skolan, three musicians from Blacknuss – one of the foremost bands in Sweden's funk scene – and opera singer Elisabeth Meyer. The artistic direction is by Linus Fellbom and by Magnus Lindgren, who also arranges, conducts and plays the flute and saxophone.

Västerås Sinfonietta

Västerås Sinfonietta is a chamber orchestra with a widely varied repertoire, in which preserving tradition constantly meets development and innovation. The orchestra takes on everything from the classical masters to newly written works by today's composers. Västerås Sinfonietta has been recognised for several critically acclaimed albums. It also received a Swedish Grammy in 2017.

The girls' choir of Västerås Music Classes at Fryxellska School
Västerås Music Classes was founded in 1962 by Bror Samuelson, a pioneer of Swedish music education who had a passionate commitment to choral music and a conviction in the power of music to bring people together. The girls' choir is an opportunity for those students who want to sing more during their years at Fryxellska School. Choir leader Daniel Frisk endeavours to develop the students' choral skills through a classical and modern repertoire and outside collaborations.

Blacknuss

The Blacknuss collective was founded in 1991 at Fasching, a renowned Stockholm music venue and night club. Ever since then, it has been the epicentre of modern soul music in Stockholm. Since its inception, the band has been led by energetic drummer and conductor Martin Jonsson. Over the years, the collective's list of artist collaborations has grown into something totally unique, with Sweden's soul elite such as Robyn, Titiyo, Lisa Nilsson, Eric Gadd, Christian Falk, Mary N'Diaye, Prince Mpedzisi and Desmond Foster performing at one time or another with the band. Blacknuss is known for its timeless, irresistible dance hits such as *Dinah*, *Last night a DJ saved my life* and *Thinking of you*.

Elisabeth Meyer

Swedish-Swiss soprano Elisabeth Meyer is a nationally and internationally celebrated opera singer who, among other things, made an unforgettable impression with her four female portraits in *The Tales of Hoffman* at Folkoperan. Elisabeth has regularly sung leading roles on stages such as the Royal Swedish Opera, Gothenburg Opera, Malmö Opera, Norrland Opera and Drottningholm Court Theatre, to name a few. In 2018, she was awarded the prestigious Birgit Nilsson Scholarship. In a Nobel context, she most recently participated as a soloist at the Nobel Prize award ceremony in 2020.

Magnus Lindgren

Magnus Lindgren has had a multifaceted career going back nearly 30 years. In his capacity as a composer, arranger and soloist, he has received several awards, including the Swedish Grammy, Swedish Radio's prize for Swedish jazz album of the year and jazz magazine *OrkesterJournalen's* Golden Record. In 2023, the album *Bird Lives*, which Magnus Lindgren made with John Beasley and the SWR Big Band, received an American Grammy. Twenty years ago, Magnus Lindgren composed and performed the music for the Nobel Prize banquet – which we will hear traces (or echoes) of in this year's divertissement.

Linus Fellbom

Linus Fellbom works as a director, set designer and lighting designer, with over 250 productions on opera and theatre stages around the world behind him. He directed the divertissement during the 2016 Nobel Prize banquet, directed the specially adapted artistic performances during the 2020 and 2021 award ceremonies at Stockholm City Hall and served as artistic director of the 2022 divertissement.

This year's floral decorations at the City Hall

Per Benjamin is responsible for the floral decorations at Stockholm City Hall for the 9th time. He won the Fleurop Interflora World Cup in 2002 and works around the world with floral design and inspiration. He will prepare the City Hall decorations with the help of his team and eager florist students. Nearly 30 people will be working for a full week from morning until evening to create floral magic.

The theme for this year's floral decorations is *Tutticolore, echoes, reflections of colour and joy*.

The colours are all the joyful pastels and strong bright colours of spring in a mix of gold, orange, warm yellow, copper, raspberry, pink, cerise, red, eggplant, ochre, amber, terracotta, linden blossom green and pistachio. *Tutticolore*. The interplay between lightness, transparency and playfulness will permeate all round geometric shapes with a driven circular movement and rhythm.

As always, there will be a strong focus on technology and sustainability perspectives, but even more so this year. The Table of Honour will be decorated with circular-shaped *floral crowns* in flower fakirs (Kenzans). All structures are reused from year to year to have a healthy and minimal impact on the environment.

The flowers – a total of almost 25,000 stems – consist of joyful spring varieties such as anemones, ranunculus, poppies, mimosas, willows and exotic beauties such as Venus slipper and cymbidium and reliable carnations both large and small, complemented by shimmering grasses, leaves and straws such as olive, birds of paradise, phormium, spider flowers, eucalyptus and panicum. All this in a joyful mix!

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 will be represented among the standards. When coffee and liqueurs are served, 2023 laureates will hold speeches of thanks after being introduced by the evening's toastmaster, Kamila Marzynska.

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: Ann L'Huiller

Chemistry: Mounji G. Bawendi

Medicine: Katalin Karikó

Literature: Jon Fosse

Economics: Claudia Goldin

End of the evening

The banquet will conclude at about 23:00. Dancing will then begin in the Golden Hall, with music by the Laszlo Royale Dance Orchestra, featuring Malena Laszlo and Joachim Bergström.

Nobel Prize diplomas

Each Nobel Prize laureate receives a diploma and a Nobel Prize medal delivered in a case. Some of the diplomas include original artworks.

The artworks on the diplomas for this year's physics laureates were created by Elisabeth Biström and the artworks on the diplomas for the chemistry laureates by Lars Eje Larsson. The artist for the economic sciences diploma was Anja Richardt Krabbe.

The calligraphy for the physics and chemistry diplomas was created by Marianne Pettersson Sould and the calligraphy for the economic sciences diploma was created by Marie A. Györi. The calligrapher for the physiology or medicine and literature diplomas was Susan Duvnäs.

The diplomas and the medal cases were produced by Leonard Gustafssons Bokbinderi in Stockholm.

The Nobel Prize medals were made by Svenska Medalj in Eskilstuna.

The artwork in the peace prize diploma was created by Haakon Bleken and the calligraphy was created by Christopher Haanes. Julius & Ørenberg Bokbinderi crafted the peace prize diplomas and medal cases.

The peace prize medals were made by Det Norske Myntverket.

The design of the Nobel Prize diplomas and medal cases

During 2018 the Nobel Foundation launched a new, coherent graphic expression for the activities connected to the Nobel Prize. It is based on Erik Lindberg's medal from 1901 and its timeless typography. A word mark soon emerged – The Nobel Prize. Along with gold and a colour scale that has drawn its inspiration from the era when the prize was established, the new typography created a visual identity that has now also been incorporated into the Nobel Prize diplomas and medal cases.

Nobel Calling Space

On 11 December the Nobel Prize Museum in Stockholm along with the International Space Station (ISS) will offer a unique live conversation between 2023 Nobel Prize laureates Ferenc Krausz and Mounji G. Bawendi, and Danish ESA astronaut Andreas Mogensen. Swedish ESA astronaut Marcus Wandt, who will take off on his space mission early next year, will join the conversation from the Houston Mission Control Center in the US.

Over the years the Nobel Prize has awarded numerous achievements unravelling the mysteries of our vast universe but also, like this year, discoveries that give us completely new insights into the very smallest components of our existence. This will be a chance for two scientists who received their Nobel Prize medals the day before for the discoveries of attoseconds and quantum dots to hold a conversation with astronauts about the importance of basic research, how we are constantly expanding our knowledge about the universe and the challenges of conducting experiments in space.

It will also be a chance for Ferenc Krausz and Mounji G. Bawendi to connect with their fellow Nobel Prize laureates Niels Bohr (physics, 1922) and Selma Lagerlöf (literature, 1909). Join us at the event to find out how!

The event will begin with a question-and-answer session with Ferenc Krausz and Mounji G. Bawendi moderated by Carin Klaesson, curator at the Nobel Prize Museum. The event is being organised by the Nobel Prize Museum and the European Space Agency.

Read more at <https://nobelprizemuseum.se/en/nobel-calling-space-3/>

The Nobel Week concludes

Visit by representatives of the peace prize laureate

This year's Nobel Peace Prize laureate Narges Mohammadi will be honoured in Oslo on the Nobel Day, 10 December. Because she is imprisoned in Iran, she will be represented at the award ceremony by her two children, 17-year-old Ali and Kiana Rahmani. On 13 December, they will visit the Nobel Prize Museum in Stockholm together with their father Taghi Rahmani, the husband of Narges Mohammadi. During their visit, a number of artefacts will be donated to the museum by Narges Mohammadi. They will also attend the reception at the Nobel Foundation marking the end of Nobel Week. There they will meet the other laureates.

The Nobel Week ends and the laureates visit the Nobel Foundation

On 11, 12 and 13 December, the laureates will make individual visits to the Nobel Foundation. Here they will retrieve their medals and diplomas and discuss the details concerning the transfer of their prize money. On 12 December, the laureates will be invited to a reception at the Nobel Foundation.

Other activities during the week

School visits

Nobel Prize laureates have been invited to schools to meet students and teachers in Stockholm during the Nobel Week. For example, literature laureate Jon Fosse will meet students in Tensta and Rinkeby. A number of other elementary, lower secondary and upper secondary schools around the Swedish capital will also be visited by laureates.

Nobel Week Lights Stockholm

The Nobel Week Lights festival invites international and local artists, designers and students to create artistic light installations inspired by the Nobel Prize. These installations shed light on the laureates' scientific discoveries, literary works and peace efforts in new ways, while giving us the opportunity to see the city with new eyes. This year's festival runs during 2–10 December and features seventeen artworks in different locations in the inner city. The light festival is free of charge.

Read more at <https://nobelweeklights.se/?lang=en>

Fungi – In Art and Science

On 30 September this year, the Nobel Prize Museum's exhibition *Fungi – In Art and Science* opened. The exhibition explores the world of fungi through artworks, design objects, fashion and contemporary scientific research.

The transboundary nature of fungi, with their capacity for symbiosis and transformation, has always inspired artists. Some examples of artists whose works will be exhibited, are Carsten Höller, Olle Norås, Seana Gavin, Anna Dumitriu and the artist collective Marshmallow Laser Feast.

Read more: <https://nobelprizemuseum.se/en/fungi-in-art-and-science/>

Follow the Nobel Prize

Follow 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. The nobelprize.org website contains official information from the prize-awarding institutions, interesting stories, detailed biographies and in-depth information about all the laureates since 1901. Other digital channels – Facebook, X (Twitter), Instagram, YouTube and LinkedIn – provide live broadcasts, exclusive video material, interviews and unique behind-the-scenes looks with a strong focus on telling the stories behind the laureates' discoveries and advances.

Nobelprize.org follows the Nobel Week

The Nobel Prize award ceremonies in Oslo and Stockholm will be live streamed on the official website [Nobelprize.org](https://nobelprize.org) at 13:00 and 16:00 CET, respectively, on 10 December. The complete presentation speeches at the Nobel Prize award ceremonies will be posted at the same times, and the menu from the Nobel Prize banquet at the Stockholm City Hall will be published at 19:00. Press photos of the various dishes served at the 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 13:00 on 9 December. The Nobel Prize lectures will also be live streamed 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 Prize banquet. In addition to its live broadcasts from Konserthuset Stockholm (Stockholm Concert Hall) and Stockholm City Hall on 10 December, SVT will broadcast its *Nobelstudion* programme on 5, 6, 7 and 8 December. It will also broadcast portraits of the laureates, their Nobel and prize lectures and the Nobel Week Dialogue. The Nobel Prize Concert will be broadcast live on SVT Play on 8 December and will be broadcast in an edited version including interviews on SVT at 19:00 on 9 December. *Nobel Minds* will be shown on SVT2 and on SVT Play at 20:00 on 18 December.

International distribution of the programmes

International media that will broadcast television coverage from the Nobel Day will include the European Broadcasting Union (EBU), among others.

Historical background on the Nobel Prize award ceremony

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 Konserthuset Stockholm (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 Nobel Prize award ceremony took place at what is now Avicii Arena (then called the Stockholm Globe Arena). During the years 1914–1919 and 1939–1944, the award ceremony was cancelled due to the world situation and in 1924 because no laureates came to Stockholm. In 2020 and 2021, the Nobel

Prize medals and diplomas were presented to the laureates in their countries of residence due to the coronavirus pandemic. A ceremony with no audience present was held in the Golden Hall of the Stockholm City Hall in 2020. In 2021, an award ceremony took place with a small, invited audience on hand in the Blue Hall. No laureates participated in these ceremonies on-site; instead, video material was shown from when they received their medals and diplomas in their home countries.

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 Swedish royal anthem *Kungssången* and then Mozart's

March in 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 Prize banquet

The banquet following the award ceremony has grown from a small dinner for the Nobel Prize laureates and representatives of the prize-awarding institutions into an internationally renowned celebration. 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 in Stockholm. 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. The Nobel Prize banquet was also cancelled in 2020 and 2021 due to the coronavirus pandemic.

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 encountered 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 27 November 1895. In the will, Nobel stipulated that his fortune should be transformed into a fund, whose interest should constitute prizes awarded to persons who “conferred the greatest benefit to humankind”. 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 Prize 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 31 January. From February until early October, the prize-awarding institutions work on evaluating the nominees. When a decision is made, the laureates are notified and then the general public at press conferences in early October. 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 2023 Nobel Prize award ceremony

- 16:00 *Drumroll*, Royal Family proceed to their seats onstage, the Swedish royal anthem, *Kungssången*
- 16:02 *March D Major, KV 249* by Wolfgang Amadeus Mozart, laureates proceed to the stage
- 16:05 Speech by Professor Astrid Söderbergh Widding, Chair of the Board of the Nobel Foundation
- 16:10 *Evening Serenade* from *Silent Music* by Valentin Silvestrov

PHYSICS

- 16:15 Presentation of the 2023 Nobel Prize in Physics to Emeritus Professor Agostini, Professor Dr Ferenc Krausz and Professor Anne L'Huillier after a presentation speech by Professor Eva Olsson

CHEMISTRY

- 16:22 Presentation of the 2023 Nobel Prize in Chemistry to Professor Moungi G. Bawendi, Professor Louis E. Brus and Dr Aleksey Yekimov after a presentation speech by Professor Heiner Linke
- 16:29 *Le spectre de la rose* from *Les nuits d'été* by Hector Berlioz
Lyrics by Théophile Gautier

PHYSIOLOGY OR MEDICINE

- 16:34 Presentation of the 2023 Nobel Prize in Physiology or Medicine to Professor Katalin Karikó and Professor Drew Weissman after a presentation speech by Professor Gunilla Karlsson Hedestam
- 16:41 *Meine Lippen, sie küssen so heiss* from *Giuditta* by Franz Lehár
Libretto by Paul Knepler and Fritz Löhner-Beda

LITERATURE

- 16:46 Presentation of the 2023 Nobel Prize in Literature to author Jon Fosse after a presentation speech by Professor Anders Olsson
- 16:52 *Anitra's Dance* from *Peer Gynt* *Homage March* part of *Sigurd Jorsalfar* by Edvard Grieg

ECONOMIC SCIENCES

- 16:58 Presentation of the 2023 Sveriges Riksbanks Prize in Economic Sciences in Memory of Alfred Nobel to Professor Claudia Goldin after a presentation speech by Professor Kerstin Enflo
- 17:04 The Swedish national anthem *Du gamla, Du fria*
- 17:05 *The Queen of Sheba's Festivity March* from *The Prodigal Son* by Hugo Alfvén, played while the guests are leaving the auditorium
- 17:08 The ceremony ends

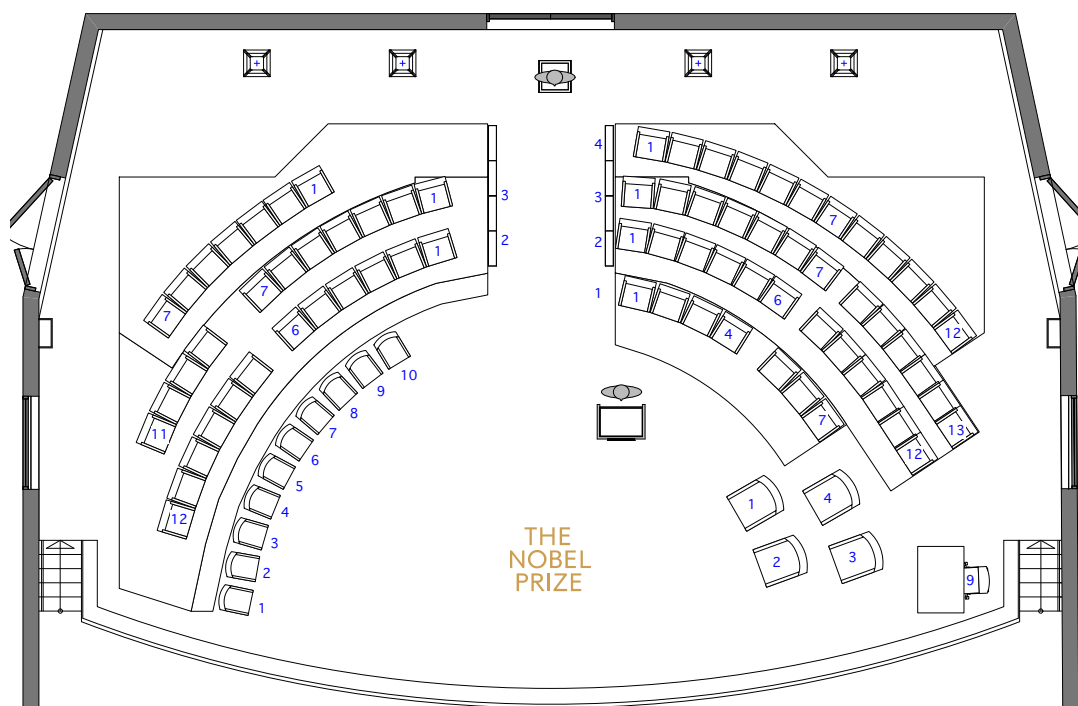
MUSIC PERFORMED BY:

The Royal Stockholm Philharmonic Orchestra

Conductor: Alexander Hanson

Soloist: Julia Sporsén

Seating plan on the stage, 2023 Nobel Prize award ceremony



			Side	Row	Seat
	H.M. The King				1
	H.M. The Queen				2
	H.R.H. Crown Princess Victoria				3
	H.R.H. Prince Daniel				4
Chair	Söderbergh Widding	Astrid	Right	1	1
Executive Director	Helgesen	Vidar	Right	1	2
Professor	Ellegren	Hans	Right	1	3
Professor	Perlmann	Thomas	Right	1	4
Professor	Malm	Mats	Right	1	5
Hon Dr of Business	Nyman	Sven	Right	1	6
Professor	Syse	Henrik	Right	1	7
Professor	Danielsson	Ulf	Right	2	1
Professor	Brzezinski	Peter	Right	2	2
Professor	Eriksson	Olle	Right	2	3
Professor	Larsson	Mats	Right	2	4
Professor	Zou	Xiaodong	Right	2	5
Professor	Olsson	Eva	Right	2	6
Professor	Wittung-Stafshede	Pernilla	Right	2	7
Professor	Karlsson Hedestam	Gunilla	Right	2	8
Professor	Olsson	Anders	Right	2	9

			Side	Row	Seat
Professor	Enflo	Kerstin	Right	2	10
Professor	Delsing	Per	Right	2	11
Professor	Henriques Normark	Birgitta	Right	2	12
Professor	Haviland	David	Right	3	1
Professor	Irbäck	Anders	Right	3	2
Professor	Moons	Ellen	Right	3	3
Professor	Johansson	Göran	Right	3	4
Professor	Pearce	Mark	Right	3	5
Professor	Linke	Heiner	Right	3	6
Professor	Sandberg	Rickard	Right	3	7
Professor	Svensson	Jakob	Right	3	8
Professor	Ramström	Olof	Right	3	9
Professor	Åqvist	Johan	Right	3	10
Professor	Somfai	Peter	Right	3	11
Professor	Chabes	Andrei	Right	3	12
Permanent Under-Secretary	Edvardsson	David	Right	3	13
Professor	Höög	Christer	Right	4	1
Professor	Wiman	Klas	Right	4	2
Professor	Kämpe	Olle	Right	4	3
Professor	Svenningsson	Per	Right	4	4
Professor	Linnarsson	Sten	Right	4	5
Professor	El Manira	Abdel	Right	4	6
Professor	Pan Hammarström	Qiang	Right	4	7
Professor	Hellström Lindberg	Eva	Right	4	8
Professor	Karlsson	Anna	Right	4	9
Professor	Larsson	Nils-Göran	Right	4	10
Professor	Strömblad	Staffan	Right	4	11
Professor	Ernfors	Patrik	Right	4	12
Professor	Grandin	Karl	Right	6	9
Professor Emeritus	Agostini	Pierre	Left		1
Professor	Krausz	Ferenc	Left		2
Professor	L'Huillier	Anne	Left		3
Professor	Bawendi	Moungi	Left		4
Professor	Brus	Louis	Left		5
Dr	Yekimov	Aleksey	Left		6
Professor	Karikó	Katalin	Left		7
Professor	Weissman	Drew	Left		8
Author	Fosse	Jon	Left		9
Professor	Goldin	Claudia	Left		10
Dr	Roberts	Richard	Left	2	1
Professor	Chu	Steven	Left	2	2
Professor	Ignarro	Louis	Left	2	3
Professor Dr	Patapoutian	Ardem	Left	2	4
Author	Gurnah	Abdulrazak	Left	2	5
Justice	Runesson	Eric	Left	2	6
Professor	Ralph	Bo	Left	2	7
Author	Carlberg	Ingrid	Left	2	8
Professor	Wikforss	Åsa	Left	2	9
PhD, author	Svenbro	Jesper	Left	2	10
Author	Mattson	Ellen	Left	2	11
Professor	Englund	Peter	Left	2	12
Author	Wästberg	Per	Left	3	1
Author	Swärd	Anne	Left	3	2

			Side	Row	Seat
Author	Sem-Sandberg	Steve	Left	3	3
Poet	Mossaed	Jila	Left	3	4
PhD, author	Engdahl	Horace	Left	3	5
Author	Forsström	Tua	Left	3	6
Professor	Wedell	Anna	Left	3	7
Professor	Zierath	Juleen	Left	3	8
Professor	Östman	Arne	Left	3	9
Professor	Andersson	Tommy	Left	3	10
Professor	Edling	Christofer	Left	3	11
Professor	Johansson	Per	Left	4	1
Associate Professor	Boppart	Timo	Left	4	2
Professor	Werner	Ingrid	Left	4	3
Professor	Krusell	Per	Left	4	4
Professor	Fredriksson	Peter	Left	4	5
Professor	Hassler	John	Left	4	6
Professor	Hjalmarsson	Randi	Left	4	7

Preliminary time schedule for the 2023 Nobel Prize banquet

18:15	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
19:19	Photo opportunity at the Table of Honour (2 x 2 min)
19:23	Divertissement I
19:30	The first course is served – parade via the grand stairway
19:50	Photo opportunity at the Table of Honour (2 x 2 min)
20:15	Divertissement II
20:32	The main course is served – parade via the grand stairway
21:10	The main course plates and cutlery are cleared
21:26	Dessert wine is served
21:40	Divertissement III
About	
21:45	Divertissement IV
21:45	Dessert parade via the grand stairway
22:14	Coffee and liqueur are served
22:35	The toastmaster takes the podium
22:40	The laureates’ speeches of thanks
About	
23:00	A signal is given when the guests may rise from the table

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