

THE
NOBEL
PRIZE

Nobel Week Stockholm . 2025

Detailed information for the media
5 December 2025

This year's Nobel Prize laureates

This year, 14 Nobel Prizes were awarded to 14 laureates. Since 1901, the Nobel Prize has been awarded 633 times to 1,026 laureates. As some have been awarded the prize twice, a total of 990 individuals and 28 organisations have received a Nobel Prize or the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel. All laureates whose prizes will be awarded in Stockholm and Oslo on Nobel Day – 10 December 2025 – are presented below. Each laureate receiving their prize in Stockholm, and their significant other, may invite an official party of 14 people in addition to themselves to Nobel Week.

THE NOBEL PRIZE IN PHYSICS

THE 2025 NOBEL PRIZE IN PHYSICS has been awarded jointly to John Clarke, Michel H. Devoret and John M. Martinis *“for the discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit”*.

John Clarke was born in 1942 in Cambridge, United Kingdom. He is affiliated with the University of California, USA.

Michel H. Devoret was born in 1953 in Paris, France. He is affiliated with Yale University, USA and the University of California, USA.

John M. Martinis was born in 1958. He is affiliated with the University of California, USA and Qolab, USA.

THE NOBEL PRIZE IN CHEMISTRY

THE 2025 NOBEL PRIZE IN CHEMISTRY has been awarded jointly to Susumu Kitagawa, Richard Robson and Omar M. Yaghi *“for the development of metal-organic frameworks”*.

Susumu Kitagawa was born in 1951 in Kyoto, Japan. He is affiliated with Kyoto University, Japan.

Richard Robson was born in 1937 in Glusburn, United Kingdom. He is affiliated with the University of Melbourne, Australia.

Omar M. Yaghi was born in 1965 in Amman, Jordan. He is affiliated with the University of California, USA.

THE NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

THE 2025 NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE has been awarded jointly to Mary E. Brunkow, Frederick J. Ramsdell and Shimon Sakaguchi *“for their discoveries concerning peripheral immune tolerance”*.

Mary E. Brunkow was born in 1961. She is affiliated with the Institute for Systems Biology, USA.

Frederick J. Ramsdell was born in 1960 in Elmhurst, USA. He is affiliated with Sonoma Biotherapeutics, USA.

Shimon Sakaguchi was born in 1951 in Nagahama, Shiga, Japan. He is affiliated with the University of Osaka, Japan.

THE NOBEL PRIZE IN LITERATURE

THE 2025 NOBEL PRIZE IN LITERATURE has been awarded to Hungarian author László Krasznahorkai *“for his compelling and visionary oeuvre that, in the midst of apocalyptic terror, reaffirms the power of art”*.

László Krasznahorkai was born in 1954 in Gyula, Hungary.

THE NOBEL PEACE PRIZE

THE 2025 NOBEL PEACE PRIZE has been awarded to Maria Corina Machado *“for her tireless work promoting democratic rights for the people of Venezuela and for her struggle to achieve a just and peaceful transition from dictatorship to democracy”*.

Maria Corina Machado was born in 1967 in Venezuela.

THE PRIZE IN ECONOMIC SCIENCES

THE SVERIGES RIKSBANK PRIZE IN ECONOMIC SCIENCES IN MEMORY OF ALFRED NOBEL 2025 was awarded “*for having explained innovation-driven economic growth*”

with one half to Joel Mokyr “*for having identified the prerequisites for sustained growth through technological progress*”

and the other half jointly to Philippe Aghion and Peter Howitt “*for the theory of sustained growth through creative destruction*”.

Joel Mokyr was born in 1946 in Leiden, the Netherlands. He is affiliated with Northwestern University, USA and the Eitan Berglas School of Economics, Tel Aviv University, Israel.

Philippe Aghion was born in 1956 in Paris, France. He is affiliated with Collège de France, France, INSEAD, Paris, France and the London School of Economics and Political Science, United Kingdom.

Peter Howitt was born in 1946 in Canada. He is affiliated with Brown University, USA.

Laureates from previous years

Every year, a number of laureates from previous years are invited to Nobel Week Dialogue, an international conference organised during Nobel Week. This year, **Frances Arnold**, chemistry laureate 2018, **Paul Nurse**, medicine laureate 2001, Javid Abdelmoneim, president of **Médecins Sans Frontières** – the organisation that received the Nobel Peace Prize in 1999, and **Jean Tirole**, economic sciences laureate 2014, will participate in the conference to discuss *Health for all*.

The 2025 Nobel Week

Nobel Week offers a packed programme of press conferences, Nobel Prize lectures, a concert, panel discussions, the Nobel Prize award ceremony and the banquet. Many of these events are recurring, while others are developed and added so that more people can meet and be inspired by the laureates, their discoveries and achievements.

There is a long tradition of laureates visiting schools during Nobel Week. A new initiative has been introduced this year where 100 young students are for the first time invited to the award ceremony on 10 December. This offers an opportunity to experience Nobel Week and be a part of when this year's laureates receive their medals and diplomas.

This year's divertissement on the Nobel Prize banquet is created by a number of brilliant Swedish talents who are also successful on the international stage. Composer Jacob Mühlrad is in charge of all music during the evening, which, for example, includes a world premiere of a piece inspired by quantum physics and dedicated to this year's Nobel Prize laureates. This piece includes a marimba solo performed by the percussionist Adélaïde Ferrière. The visual director during the evening is the artist Alexander Wesselly.

A new kind of cutlery will also be used this year: a popular element in Sweden in the form of a carved butter knife made of wood. The butter knife is very dear to many people, and it helps highlight the Swedish handicraft tradition. The 1,300 butter knives are manufactured by Van Le in collaboration with the chef duo at a small woodwork shop in southern Sweden. The butter knife is made of oak from the region.

The light festival Nobel Week Lights will be organised for the sixth time. The festival invites international and local artists, designers and students to create light artworks inspired by the Nobel Prize. This year, the festival has grown in scope and is exhibited in both the city centre and the suburb of Tensta with nineteen artworks that light up the city at the darkest time of the year.

The laureates gather at the Nobel Prize Museum

The 2025 Nobel Week begins with a visit to the Nobel Prize Museum on Stortorget, the main square in Stockholm's Old Town on 6 December. At the museum, the laureates will be welcomed to an eventful week in Stockholm and meet each other for the first time. In keeping with tradition, the visit to the museum will end with the laureates autographing chairs at Bistro Nobel and donating an artefact to the museum's collection. It may be an artefact that tells us who they are or is linked to the achievements for which they have been recognised. These tangible objects help bring life to the laureates' stories, which are retold in exhibitions and by the guides at the museum.

Press conferences

(Central European Time, CET)

5 December

08:45

The Nobel Foundation's press conference regarding Nobel Week will be held at the Nobel Prize Museum. The chef and pastry chef for the Nobel Prize banquet will be presented. At the press conference, the creations made by fashion students from Beckmans College of Design, inspired by this year's Nobel Prizes, will also be on display.

6 December

15:00

Press conference for the Nobel Prize laureates in physiology or medicine at the Nobel Assembly at Karolinska Institutet, Nobel Forum.

7 December

09:30

Press conference for the Nobel Prize laureates in physics and chemistry as well as the recipients of the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel at the Royal Swedish Academy of Sciences.

In addition to the laureates' press conferences, the media will be offered a number of press tours related to Nobel Week Lights, a guided tour of Konserthuset Stockholm where the award ceremony takes place and a visit to the florists who prepare the floral decorations for Nobel Week. The media may also participate in a number of tours of the current exhibitions at the Nobel Prize Museum.

The complete press programme with all times can be found at:
<https://www.nobelprize.org/press-programme-for-nobel-week-2025/>

Nobel Prize lectures

During Nobel Week, in keeping with the statutes of the Nobel Foundation, all laureates will present a Nobel Prize lecture regarding the discovery or achievements for which they have been recognised. With a few exceptions, this has been done since the first Nobel Prizes were awarded in 1901. Attending the lectures requires registration.

All Nobel Prize lectures will be live-streamed on nobelprize.org, YouTube, Facebook, X and LinkedIn:
www.nobelprize.org/ceremonies/streams-during-nobel-week-2025/

The Nobel Prize lectures in physiology or medicine

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

7 December

14:00

Shimon Sakaguchi: *Regulatory T cells for Immune Tolerance: Discovery and Clinical Prospects*

Mary E. Brunkow: *FoxP3/Scurfin: A Key Driver of Peripheral Immune Tolerance*

Frederick J. Ramsdell: *Translating Basic Science to Therapeutic Opportunities: the Treg Example*

The Nobel Prize lecture in literature

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

7 December

17:00

László Krasznahorkai

The 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

John Clarke: *From SLUGs to macroscopic quantum phenomena*

Michel H. Devoret: *From macroscopic quantum phenomena to artificial atom*

John M. Martinis: *Prehistoric Superconducting Qubits*

11:20–13:10

The Nobel Prize in Chemistry

Richard Robson: *Design and Construction of Targeted Extended Structures using Pre-Organized Building Blocks*

Susumu Kitagawa: *The Usefulness of the Useless — How MOFs Transformed the Concept of Porous Matter*

Omar M. Yaghi: *Metal-Organic Frameworks – From Molecules to Society*

14:30–16:20

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

Joel Mokyr: *The Past and Future of Innovation: Can Progress be sustained?*

Philippe Aghion: *The Economics of Creative Destruction*

Peter Howitt: *Creative Destruction and Economic Growth*

Nobel Week at the Nobel Prize Museum

On 10 December, Nobel Day will be celebrated at the museum with family activities and an exclusive three-course lunch inspired by the Nobel Prize banquets. The artefacts donated to the museum by this year's laureates and the chairs they autograph when they arrive in Stockholm will be on display during Nobel Day.

The award ceremonies in both City Hall in Oslo and Konserthuset Stockholm will be broadcast live on a big screen. During the day, the museum will offer guided tours of its permanent exhibition *These things changed the world*.

To recognise and honour the 2025 laureates and achievements, fashion students at Beckmans College of Design have interpreted this year's prizes in the form of fashion creations. These will be on display at the museum throughout Nobel Week.

The final of the project Help a Scientist will also take place during Nobel Week. This year's theme is *The Hunt for Bacteria*. Throughout the year, more than 1,500 students aged 15–16 from all over Sweden have participated in this project. On 5 December, two students from each school will participate, where they compete with the posters they have made to describe the project and its results.

Three press conferences will be organised at the Nobel Prize Museum during the week. On 5 December, the programme of the week will be presented, while this year's chef and pastry chef will also be revealed. On 7 December, the objects donated by the laureates to the museum and the chairs signed by them the day before will be shown to the public. On 9 December, a special media tour will be offered focusing on the objects donated to the museum by Japanese laureates over the years. These objects are part of the exhibition *These things changed the world*.

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

The Nobel Prize Concert

On 8 December, this year's Nobel Prize Concert will take place at Konserthuset Stockholm – a musical highlight featuring the young star violinist María Dueñas and the award-winning conductor Semyon Bychkov. Together with the Royal Stockholm Philharmonic Orchestra, they will perform music by Bryce Dessner, Felix Mendelssohn-Bartholdy and Antonín Dvořák.

María Dueñas' fascinating qualities here interact with the extensive experience characterising Semyon Bychkov. The internationally acclaimed and multi-award-winning conductor Semyon Bychkov is the chief conductor of the Czech Philharmonic.

The Nobel Prize Concert is an annual event of the highest international standard, where the Royal Stockholm Philharmonic Orchestra performs alongside world-leading artists. The concert is part of the official Nobel Week programme and serves as a tribute to the Nobel Prize laureates that year.

Read more at: www.nobelprize.org/nobel-prize-concert/

Nobel Week Dialogue

Nobel Week Dialogue 2025 takes place on 9 December in Gothenburg. It brings together Nobel Prize laureates, academics, innovators and policymakers to explore one of the most urgent challenges of our time: how to deliver equitable, effective and sustainable healthcare for all.

This year's event – *Health for all* – will address issues such as how mental health, diseases related to ageing and the prevention of chronic diseases must be emphasised to a greater extent in political agendas. The participants will also tackle how new discoveries and technologies can be harnessed for the common good. Discussions will include healthy diets, the future of drug discovery, the rise of antimicrobial resistance and the economics of sustainable and affordable health provision.

This year, Frances Arnold, chemistry laureate 2018, Paul Nurse, medicine laureate 2001, Javid Abdelmoneim, president of Médecins Sans Frontières—the organisation that received the Nobel Peace Prize in 1999, and Jean Tirole, economic sciences laureate 2014, will participate in the conference to discuss *Health for all*.

Read more at: <https://www.nobelprize.org/events/nobel-week-dialogue/gothenburg-2025/>

Nobel Minds

Since the 1960s, the laureates have during Nobel Week gathered for a round table discussion for television called *Nobel Minds*. The programme has a popular science approach and examines general questions related to science, research and literature.

Several of the 2025 laureates from the scientific disciplines participate in the conversation. The programme is recorded at the Bernadotte Library in the Royal Palace on 9 December in front of an invited audience. The Crown Princess and her husband will also attend. The programme is produced by Sveriges Television and BBC World News. The discussion will for the first time be moderated by Lucy Hockings from the BBC. Lucy Hockings is a chief presenter on BBC News who also anchors weekend editions of the news bulletins on BBC One.

This year, Michel H. Devoret, John M. Martinis, Susumu Kitagawa, Omar M. Yaghi, Mary E. Brunkow, Frederick J. Ramsdell, Joel Mokyr and Philippe Aghion will take part in the conversation.

The Nobel Prize award ceremony in Stockholm

A complete programme and schedule are attached.

Nobel Day, 10 December, begins with the traditional Nobel Prize award ceremony at Konserthuset Stockholm (the Stockholm Concert Hall), which will start at 16:00. There will be presentation speeches about this year's prizes before an audience of about 1,560 guests, who will then watch the laureates as they each receive their medals and diplomas from the hand of H.M. the King of Sweden. The seats closest to the stage are primarily reserved for the laureates' families, representatives of the prize awarding institutions and members of the Swedish government and Riksdag (Parliament).

Seated on the stage will be about 90 people. In addition to the 2025 laureates, there will also be laureates from earlier years. Others seated on the stage will include 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 the Swedish Royal Family: H.M. King Carl XVI Gustaf, H.M. Queen Silvia, H.R.H. Crown Princess Victoria and H.R.H. Prince Daniel. In the first row closest to the stage, the following guests will be seated: H.R.H. Prince Carl Philip, as well as H.R.H. Princess Madeleine and Mr Christopher O'Neill.

Representatives from the Swedish parliament and government will participate in the Nobel Prize award ceremony. Some individuals from the government will also attend the banquet. The diplomatic corps is represented by the doyen, meaning the ambassador having served the longest time in Sweden and who, according to protocol, represents the entire diplomatic corps. This year, it is the ambassador of Croatia.

Presentation speeches

The Chair of the Board of the Nobel Foundation, Professor Astrid Söderbergh Widding, will present an introductory speech. After that, the 2025 Nobel Prize laureates will be presented.

The presentation speeches will be presented as follows:

Physics – Professor Göran Johansson

Chemistry – Professor Olof Ramström

Physiology or Medicine – Professor Olle Kämpe

Literature – Professor Anders Olsson
(presented in Swedish according to tradition)

Economic Sciences – Professor John Hassler

Musical interludes

The Royal Stockholm Philharmonic Orchestra performs the music at the Nobel Prize award ceremony, led by Mika Eichenholz. The soprano Maria Bengtsson is the soloist during the ceremony. Music by, among others, Wolfgang Amadeus Mozart, Aaron Copland, Anna Clyne and Ture Rangström will be performed.

Maria Bengtsson

Swedish soprano Maria Bengtsson has emerged as one of the leading lyrical voices of our time, not least in the repertoire of Wolfgang Amadeus Mozart and Richard Strauss. She regularly performs on stages such as Opéra de Paris, Royal Opera House Covent Garden in London, La Scala in Milan and Wiener Staatsoper.

Mika Eichenholz

Swedish Mika Eichenholz is a sought-after conductor, not only in Scandinavia but also in Europe and South America. Since 2019, he has served as the chief conductor of the Concepción Orchestra in Chile. He has conducted more than 200 concerts with the Schönbrunn Orchestra in Europe and has also toured internationally with a number of opera productions.

Magnificent floral donation since 1905

In homage to Alfred Nobel, who spent his last years in Sanremo in Italy, where he died on 10 December 1896, the City of Sanremo and the Chamber of Commerce of Riviera di Liguria have, in collaboration with Regione Liguria, since 1905 donated flowers used to decorate Konserthuset Stockholm and the Stockholm City Hall.

This year's floral decorations at the award ceremony

For over two decades, Helén Magnusson, Head Florist at Hässelby Blommor, has designed the floral decorations for the award ceremony. Together with twelve florists, the work begins on 5 December to create the arrangements that will adorn the Concert Hall.

This year's decoration concept draws inspiration from nature's seasonal shifts, giving autumn's colors and shapes new life through a combination of fresh cut flowers and carefully selected dried materials. Exclusive blooms such as orchids and anthuriums enhance the expression and add a modern, artistic touch. The soft color palette – in apricot, beige, and pink – harmonizes with the Concert Hall's interior and highlights its architectural character.

Over four intensive days, 2,500 fern leaves were harvested and dried in greenhouses, along with 1,500 dried hydrangea flowers. Other flowers used include carnations, ranunculus, eucalyptus, lisianthus, and amaryllis.

The Nobel Prize banquet in Stockholm

The 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 in City Hall.

In 1901, the first Nobel Prize banquet, which was held in the Hall of Mirrors at the Grand Hôtel, had 113 guests. Today, the Nobel Prize banquet is served to about 1,300 guests.

Chef and pastry chef

This will be presented at a separate press release on 5 December.

Menu and table setting

The menu has been developed in close collaboration with the Nobel Foundation's gastronomic advisors: Fredrik Eriksson of Långbro Vårdshus och Restaurang Nationalmuseum, Ulrika Karlsson of Krakas Krog and Gert Klötzke, professor of gastronomy at Umeå University. Fredrik Eriksson and Ulrika Karlsson are also creative directors at the 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 the three Swedish designers Karin Björquist (Rörstrand/Gustavsberg), Gunnar Cyrén (Orrefors) and Ingrid Dessau (Klässbols Linneväveri). This year, a hand-carved oak butter knife made by Van Le is also used.

The approximately 60 tables in the Blue Hall will be covered with some 800 metres of linen tablecloth, 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 twelfth year that Stadshusrestauranger and its CEO Maria Stridh will be responsible for presenting the Nobel Prize banquet. Chef de Cuisine for his twenty-first Nobel Prize banquet will be Gunnar Eriksson. Forty-four chefs and 190 servers will be working during the evening.

The Nobel Prize Museum Tea Blend will be served at the banquet. This is the museum's own tea, whose flavours come from various places where Alfred Nobel lived and worked.

Divertissement

Jacob Mühlrad is in charge of this year's divertissement and has composed the music. During the evening, new versions of his earlier pieces are interwoven with one another. There will be a solo tenor, string orchestra, mixed choir, marimba and clarinet in newly composed musical arrangements. One of these works is an interpretation of Swedish House Mafia's *One*. For Mühlrad, music serves as a bridge between people, cultures and worlds. The concept he has used is inspired by the spirit of Nobel, where research, literature and humanism come together.

The evening will also present the world premiere of the piece *Superposition*, which is newly composed by Mühlrad. This work is dedicated to this year's Nobel Prize laureates and has been inspired by quantum physics. The piece includes a marimba solo performed by percussionist Adélaïde Ferrière.

The visual director is the artist Alexander Wessely, who has collaborated with Jacob Mühlrad for several years. The light festival Nobel Week Lights, which was organised for the first time in 2020, has resulted in the celebration of the Nobel Prize laureates being brought out into the city. This year, this light is also brought into the Blue Hall with the help of Alexander Wessely.

The Stockholm Concert Orchestra, led by Sofia Winiarski, is also part of the divertissement, as are Vokalharmonin, led by Fredrik Malmberg, and Magnus Holmänder on clarinet. Arrangements by Petter Ekman.

The works of composer Jacob Mühlrad have been performed by, among others, the Royal Stockholm Philharmonic Orchestra and the Swedish Radio Choir, as well as at international institutions such as Suntory Hall in Tokyo, Sphere in Las Vegas and Radio France in Paris with conductors and musicians such as Pablo Heras-Casado and Martin Fröst. He is known for his existential music and his diverse collaborations with international artists such as Anyma, 070 Shake and Swedish House Mafia, as well as music for theatre and film.

Alexander Wessely works as a visual artist and creative director. His artistic practice moves between sculpture, spatial installations, film and large-scale scenography, where body, light and architecture are intertwined in visual worlds. Wessely has created works and scenography for artists such as The Weeknd, FKA Twigs and Arca, as well as works presented at the Royal Dramatic Theatre and Konserthus Stockholm. His works have been exhibited in international venues such as Sphere in Las Vegas, Museu del Disseny de Barcelona and Madison Square Garden in New York.

The internationally renowned concert percussionist, Adélaïde Ferrière, has performed in more than thirty countries. She has appeared at prestigious venues including the Philharmonie de Paris, the Snow Concert Hall in Canberra and the Tokyo New National Theater. She has performed as a soloist with numerous orchestras, including the Orchestre National de France, the Brno Philharmonic Orchestra, the Istanbul State Symphony Orchestra, and the Geneva Chamber Orchestra, under the baton of Sir George Benjamin, Matthias Pintscher, Holly Choe, and others. Winner of the 24th *Victoires de la Musique Classique* in 2017.

This year's floral decorations for the banquet

Per Benjamin is in charge of the floral decorations in City Hall for the eleventh time. Before the banquet, he enlists the help of his team as well as a number of florist students. They consist of over 30 people working for a week, from morning to evening, to create a magical floral experience.

The colours in this year's arrangements are green, orange, brown, violet, purple, red, sienna, apricot, honey and gold. The circular shape of the Nobel Prize medal is in focus, and the decorations contain flowers, berries and apples. The Blue Hall is decorated with round shapes and details that shimmer and sparkle. The Table of Honour is decorated with low and round decorations with integrated lighting as well as candelabras placed in the middle of the table.

All designs are reused from year to year to ensure a sound and minimal use of materials. This year, the flowers, a total of almost 25,000 that largely come as a gift from Sanremo, consist of a large variety of greenery complemented by classic flower from Sanremo.

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, the 2025 laureates will present 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 in which Alfred Nobel listed the prizes in his will:

Physics: Michel H. Devoret
Chemistry: Omar M. Yaghi
Physiology or Medicine: Mary E. Brunkow
Literature: László Krasznahorkai
Economic Sciences: Joel Mokyr

End of the evening

The banquet will conclude at around 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 Catharina Bauer and the artworks on the diplomas for the chemistry laureates by Johan Sandell. Lars Eje Larsson was the artist for the economic sciences diplomas.

The calligraphy for the physics and economics diplomas was created by Marie A. Györi, and the calligraphy for the chemistry diplomas was created by Marianne Pettersson Söld and Marie A. Györi. The calligrapher for the medicine and literature diplomas was Susan Duvnäs. The diplomas and medal cases were produced by Leonard Gustafssons Bokbinderi in Stockholm. The Nobel Prize medals were made by Svenska Medalj in Eskilstuna.

The artwork on the peace prize diploma was created by Sverre Bjertnæs, while the calligraphy was created by Christopher Haanes. Kristine Bekkevold at Merkur Grafisk AS has made the diplomas and medal cases for the peace prize. Photo reproduction by Thomas Widerberg. The peace prize medals are made by Norske Myntverket.

The design of the Nobel Prize diplomas and medal cases

In 2018, the Nobel Foundation launched a new, coherent graphic expression for the activities linked to the Nobel Prize. It is based on Erik Lindberg's medal from 1901 and its timeless typography. A wordmark soon emerged – The Nobel Prize. Along with gold and a colour scale taking 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.

The Nobel Week concludes

The laureates visit the Nobel Foundation

On 11 and 12 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 concluding reception at the Nobel Foundation.

Other activities during the week

Meetings with students

Several collaborations with schools are organised during Nobel Week to enable students and teachers to experience Nobel Week and meet this year's laureates.

A number of the laureates visit primary and secondary schools. Here, students will have the opportunity to listen to short lectures and present their own questions to the laureates. Some school classes have also learned more about this year's laureates and worked on their own projects, which they are now able to show to the laureates.

A hundred students and teachers are now for the first time invited to the Nobel Prize award ceremony in Konserthuset Stockholm to see the laureates being awarded their medals and diplomas. Some of the schools have been in contact with the Nobel Prize Museum's activities in the past, while for other schools, this will be their first encounter with the Nobel Prize's public activities. The goal is to get a good variety of students from schools in Stockholm County and nearby counties who are able to travel to Stockholm over the day.

The final of the project Help a Scientist will also take place during Nobel Week. Throughout the year, more than 1,500 students aged 15–16 from all over Sweden participated in the project. The students have helped researchers to collect soil samples from preschool yards, which have then been analysed to see what the bacterial diversity looks like. In the longer term, the researchers want to study whether there is a link between bacterial biodiversity in the environment where children grow up and the risk of developing asthma, allergies and type 1 diabetes. At the final on 5 December, two students from each participating school will participate, where they compete with the posters they have made to describe the project and its results. They also get to meet Nobel Prize laureate Frederick J. Ramsdell.

For the second time, fifth graders from Husbygårdsskolan will participate in the light festival Nobel Week Lights. By engaging in practical and experience-based activities, they have learned about space, exoplanets and the prerequisites for life. In collaboration with Studio Resonans from Hyper Island, they have created an interactive light installation that brings visitors into a solar system created by the students' imagination that can be seen on Sergels torg.

During Nobel Week, the Nobel Prize Museum also receives school classes in the museum, while digital school tours are offered to many classes around the country on Nobel Day to celebrate this day together with the museum.

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 in a new light. This year, the festival area has been expanded with light installations in both Tensta and the city centre. The festival will run from 6 to 14 December and features 19 works in 20 different locations in Tensta and central Stockholm. The light festival is free of charge.

Many different kinds of activities are organised in both the city centre and Tensta during the festival. 63 guided tours are offered in 10 languages, where Northern Sami, Somali and Tigrinya are new additions this year.

Nobel Week Lights is presented by the Nobel Prize Museum and initiated and produced by Annika Levin, Alexandra Manson, Lara Szabo Greisman and Troika AB.

Read more at: www.nobelprizemuseum.se/en/nobel-week-lights/

These things changed the world

9 March 2024 marked the opening of the Nobel Prize Museum's permanent exhibition *These things changed the world*. The museum displays a large selection of items from its collection of artefacts from Nobel Prize laureates. These objects tell stories of remarkable discoveries and life achievements. More than 250 artefacts bear witness to revolutionary inventions, courageous peace efforts, groundbreaking ideas and innovative literature.

In the exhibition *These things changed the world*, you can discover how your life and the world you live in have changed thanks to researchers, writers and activists who have worked in the fields of science, literature and peace. Their discoveries and accomplishments have been awarded the Nobel Prize and given us new perspectives on our lives and our future.

Read more at: www.nobelprizemuseum.se/en/these-things-changed-the-world/

Nobel Creations

The exhibition *Nobel Creations 2025* presents six fashion designs related to this year's Nobel Prizes. These interpretations, in the form of wearable formal wear, are created by first-year students attending the fashion programme at Beckmans College of Design.

These creations explore what unites Nobel Prize laureates, artists and creators: creativity – the courage to think in new ways, to dare question established theories and to create innovative combinations of insights from different fields.

Nobel Creations 2025 opens on 5 December at the Nobel Prize Museum.

Read more: nobelprizemuseum.se/utställning/nobel-creations-2025/

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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 the laureates since 1901. Other digital channels – Facebook, X (Twitter), Instagram, YouTube, LinkedIn and Threads – offer 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 covers Nobel Week

The Nobel Prize award ceremonies in Oslo and Stockholm will be live-streamed on the official website nobelprize.org, YouTube, Facebook, X and LinkedIn on 10 December at 13:00 and 16:00 CET, respectively.

The complete presentation speeches at the award ceremonies will be published at the same times, and the menu from the Nobel Prize banquet at Stockholm City Hall will be published at 19:00. During the evening, press photos of the various dishes served at the banquet will also be published. The speeches of thanks presented 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 be broadcast live on nobelprize.org at the times specified above under the heading “Nobel Prize lectures”. As the literature lecture and the peace lecture are live-streamed, they will also be published in text form.

Broadcasts on SVT

Swedish Television (SVT) will broadcast live from the Nobel Prize award ceremony and the Nobel Prize banquet on 10 December. SVT1 will also broadcast its Nobelstudion programme at 19:00–19:30 on 4, 5, 8 and 9 December. The Nobel Prize Concert will not be broadcast live this year, but it will be broadcast in an edited version on SVT2 at 20:15 on 13 December.

Nobel Minds will be shown on SVT2 and on SVT Play at 20:00 on 15 December. In addition, presentations of the laureates, their Nobel Prize lectures and the Nobel Week Dialogue will be broadcast.

All presentations of the laureates will be released on SVT Play at 02:00 on 4 December. The same evening, the literature prize presentation will be broadcast at 20:00–20:30, the peace prize presentation at 22:30–22:45 and the economic sciences prize presentation at 22:45–23.00, all on SVT2.

International distribution of the programmes

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

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, while there was an orchestra or choir on the stage. 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. Up 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, this became the new venue for the Nobel Prize award ceremony. 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 Stockholmsmässan (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 the Avicii Arena (then called the Stockholm Globe Arena).

During the years 1914–1919 and 1939–1944, the award ceremony was cancelled due to the situation in the world, as well as in 1924 as 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 in the Stockholm City Hall in 2020. In 2021, an award ceremony took place with a small, invited audience present in the Blue Hall. No laureates participated in these ceremonies on site; instead, video material was shown of 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 a trial television broadcast took place as early as 1950. The ceremony has been broadcast on TV regularly since 1959. The early Nobel Prize award ceremonies mainly featured Swedish music. Over time, the organisers have 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* followed by Mozart's *March in D major, KV 249* when the laureates enter. The ceremony closes with the national anthem *Du gamla, du fria* followed by *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, followed by 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.

Up until 1933, the banquet took place at the Grand Hôtel in Stockholm. As early as 1930, the banquet was held in the Golden Hall at City Hall, but it moved back to the Hall of Mirrors at the Grand Hôtel. 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 as all laureates were prevented from attending; in 1956, when the organisers, out of consideration for the political situation (the Soviet Union's military occupation of Hungary), 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 places such 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.

Nobel was a philanthropist already during his lifetime. 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. Here, 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. 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 first 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. . Pristagarna utses av Kungl. Vetenskapsakademien, men priset finansieras av Sveriges Riksbank.

Preliminary schedule for the 2025 Nobel Prize award ceremony

- 16:00 *Drumroll*, Royal Family's Entrance to the Swedish Royal Anthem
Kungssången by Otto Lindblad. Lyrics by Carl Vilhelm August
Strandberg
- 16:02 *Marsch D-dur*, KV 249 by Wolfgang Amadeus Mozart – the
laureates enter the stage
- 16:05 Speech by Professor Astrid Söderbergh Widding, Chair of the
Nobel Foundation
- 16:10 *E Susanna non vien... Dove sono...* from *The Marriage of Figaro* by
Wolfgang Amadeus Mozart

PHYSICS

- 16:17 Presentation of the 2025 Nobel Prize in Physics to Professor
John Clarke, Professor Michel H. Devoret and Professor
Emeritus John M. Martinis following an introductory speech by
Professor Göran Johansson

CHEMISTRY

- 16:25 Presentation of the 2025 Nobel Prize in Chemistry to Professor
Susumu Kitagawa, Professor Richard Robson and Professor
Omar M. Yaghi following an introductory speech by Professor
Olof Ramström
- 16:33 *Fanfare for the Common Man* by Aaron Copland

PHYSIOLOGY OR MEDICINE

- 16:36 Presentation of the 2025 Nobel Prize in Physiology or Medicine
to Dr Mary Brunkow, Dr Frederick J. Ramsdell and Professor
Shimon Sakaguchi following an introductory speech by
Professor Olle Kämpe
- 16:44 *Sunrise* from *The Chosen* by Ture Rangström.
Lyrics by Hjalmar Gullberg

LITERATURE

16:46 Presentation of the 2025 Nobel Prize in Literature to author László Krasznahorkai following an introductory speech by Professor Anders Olsson

16:52 *Restless Oceans* by Anna Clyne

ECONOMIC SCIENCES

16:56 Presentation of the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2025 to Professor Joel Mokyr, Professor Philippe Aghion and Professor Peter Howitt following an introductory speech by Professor John Hassler

17:04 The Swedish National Anthem *Du gamla, Du fria*. Lyrics by Richard Dybeck, arrangement by Jari Eskola

17:06 *The Queen of Sheba's Festivity March* from *The Prodigal Son* by Hugo Alfvén

17:09 The ceremony ends

Music performed by
The Royal Stockholm Philharmonic Orchestra
Conductor: Mika Eichenholz
Soprano soloist: Maria Bengtsson

Preliminary schedule for the 2025 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 music
- 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**
- 19:31 The first course is served – Parade via the grand stairway
- 19:49 Photo opportunity at the Table of Honour (2 x 2 min)
- 20:14 **Divertissement II**
- 20:30 The main course is served – Parade via the grand stairway
- 21:10 The main course plates and cutlery are cleared
- 21:25 Dessert wine is served
- 21:39 **Divertissement III and IV**
- 21:45 Dessert parade via the grand stairway
- 22:14 Coffee and liqueur are served
- 22:32 Toastmaster takes the podium – Swedish students parade flags on the balustrade and grand stairway
- 22:35 The laureates' speeches of thanks
- 23:00 A signal is given when the guests may rise from the table

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