

THE
NOBEL
PRIZE

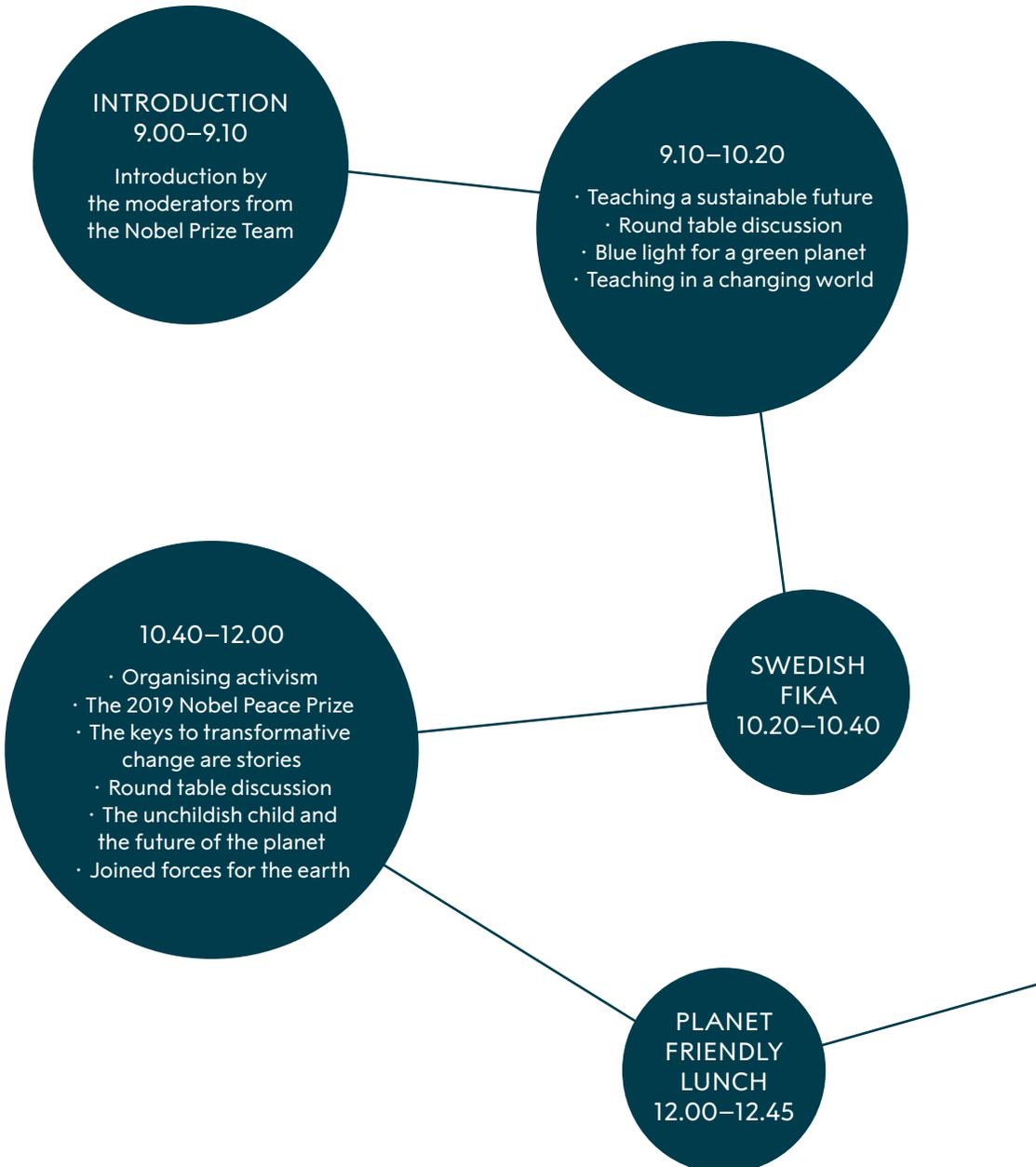
Nobel Prize
Teacher Summit
2019

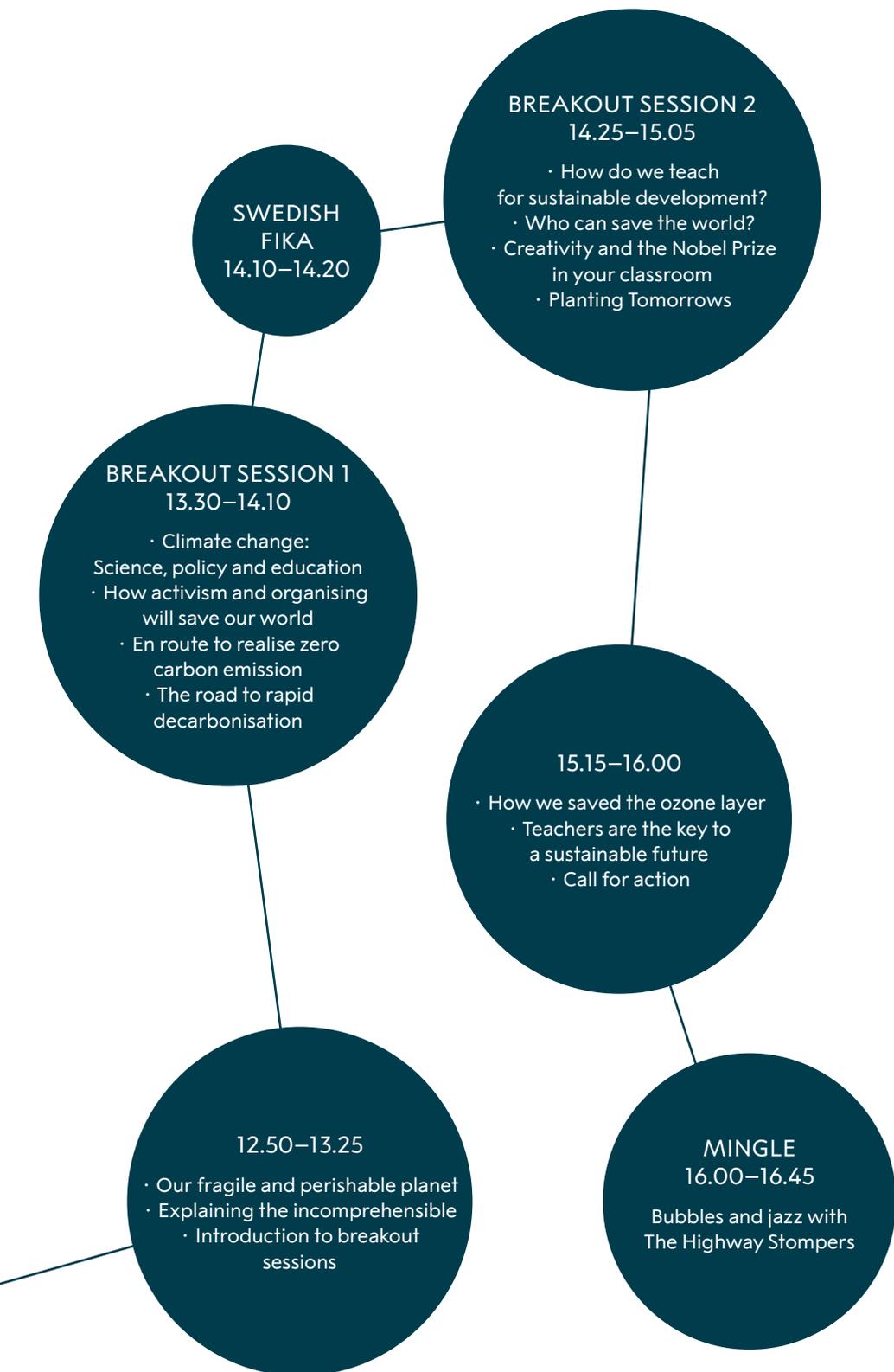
Climate Change
Changes Everything

Today's ride

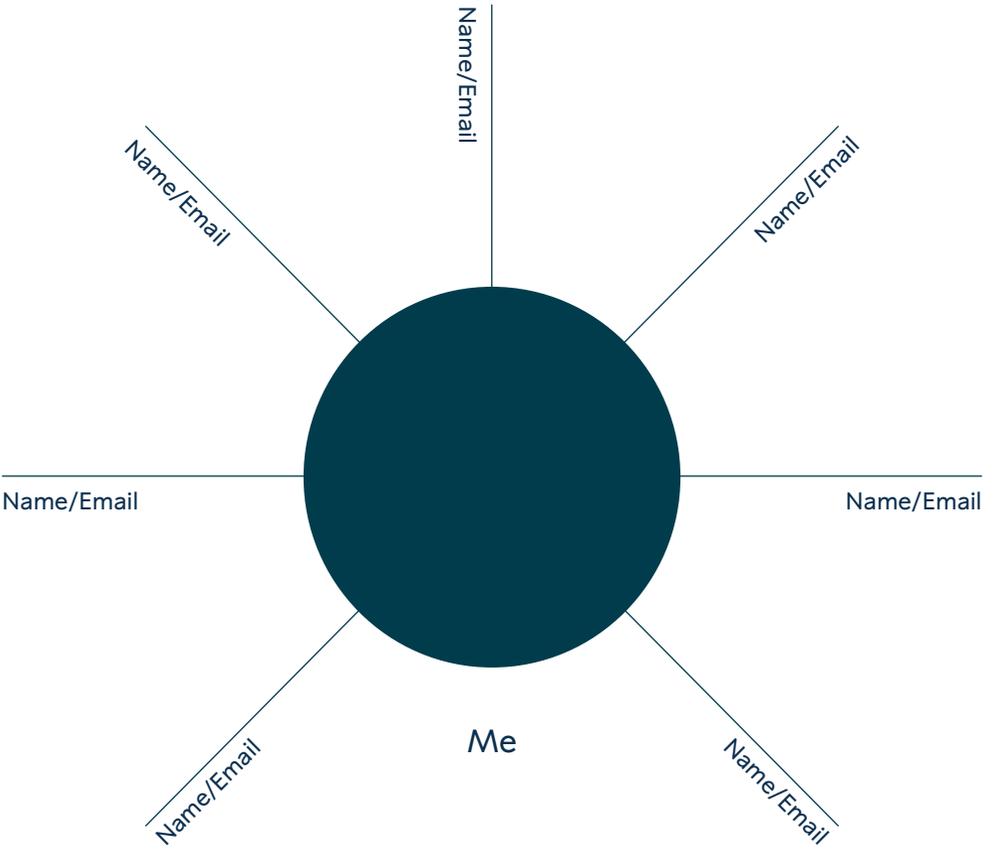
Climate Change Changes Everything. This year's teacher summit is about climate change – how we address it in education and the impact it will have on the life of future generations. How do we fulfil our duty to educate, without creating anxiety and fear? How do we support our students to transform their urge to make a difference into constructive action?

8.30–9.00 Registration, coffee and a small sandwich





Friends at my table



Quotes to remember

Welcome to the 2019 Nobel Prize Teacher Summit!

Introduction by the moderators from the Nobel Prize Team: Annika Hedås Falk, Vice President Education and Pontus Thunblad, Teacher and Museum Educator.

Teaching a sustainable future

Lecture + Q&A

“Either we leave our descendants an endowment of zero poverty, zero fossil-fuel use, and zero biodiversity loss, or we leave them facing a tax bill from Earth that could wipe them out.”

Professor Johan Rockström, an internationally recognised scientist on global sustainability issues opens our conference with a lecture that draws on recent insights from climate research and discusses how that knowledge can be used to envision a just, sustainable and healthy future for all communities globally. We will take a closer look at scientific and political frameworks for this future vision, including the Planetary Boundaries and Sustainable Development Goals.

Round table discussion

Blue light for a green planet

Interview + Q&A

“I’ve never thought I wanted to quit in my research. I would always fail in experiments, which I did at least three times a day.”

We meet Hiroshi Amano, 2014 Nobel Laureate in Physics, for a talk on how the invention of the blue LED-light – and its tremendous practical implications – has contributed to socially sustainable development in parts of the world without a functioning electric grid. The energy efficient LED-lamp is a clear example of a Nobel Prize that has changed the world “for the benefit of humankind.”

Teaching in a changing world

Panel discussion

What are the challenges of teaching in a world where the conditions for living are changing fast.

Hiroshi Amano, 2014 Nobel Laureate in Physics
Johan Rockström, Professor at the Potsdam Institute for Climate Impact Research
Anders Jonsson, Teacher
Annika Hedås-Falk, moderator



Organising activism

Interview

“We’re not done yet. The job isn’t done until nuclear weapons are gone”

Listen to Beatrice Fihn, the General Secretary of ICAN, who received the 2017 Nobel Peace Prize in Oslo talk about how nuclear weapons are an existential threat to humankind, and yet are not illegal. This is what ICAN struggles to change. The Nobel Peace Prize was both an acknowledgement of ICAN’s important work and a way to support their future struggle.

The 2019 Nobel Peace Prize announcement

Who will get the Nobel Peace Prize this year?

The Nobel Prize Museum’s peace experts, Gustav Källstrand and Carl-Johan Markstedt will guide us.

The keys to transformative change for global sustainability are stories

Lecture

“We need a historical depth to analyse and gain a better understanding of how societies have handled crises in the past”

We meet Steven Hartman, Professor of English, to learn more about how stories not only help to shape sustainable values and create communities of purpose, but also have truly revolutionary, transformative potential for building sustainable societies. Poetry, novels, art, music, film, history, and social movements serve as crucial touchstones throughout people’s lives, both in formal and informal learning contexts.

Round table discussion

The unchildish child and the future of the planet

Lecture

The future of our children is a common argument when talking about climate change. The child becomes the reason to act, but also the one we invest our hope in – the pure, untouched soul that is supposed to act responsibly for the future of the planet. Listen to Malin Ideland, Professor of Educational Science, discuss what it means when children are pointed out as responsible for the future, and if we need to rethink the role of the adult world.

Joined forces for the earth

Panel discussion

How do we join forces to achieve real change for the climate? Is it possible to bridge the gap between generations, daily politics and countries to build a sustainable future?

Beatrice Fihn, General Secretary of ICAN
Malin Ideland, Professor of Educational Science
Ell Ottosson Jarl and Melda Nahnfelt, #FridaysForFuture
Patrick Gallagher, Teacher
Annika Hedås Falk, moderator

12.50–13.25

Our fragile and perishable planet

Lecture

“I had a hard time really appreciating the mild weather. Instead, I got the feeling of being exposed to something not only unnatural but also unhealthy and basically dangerous.”

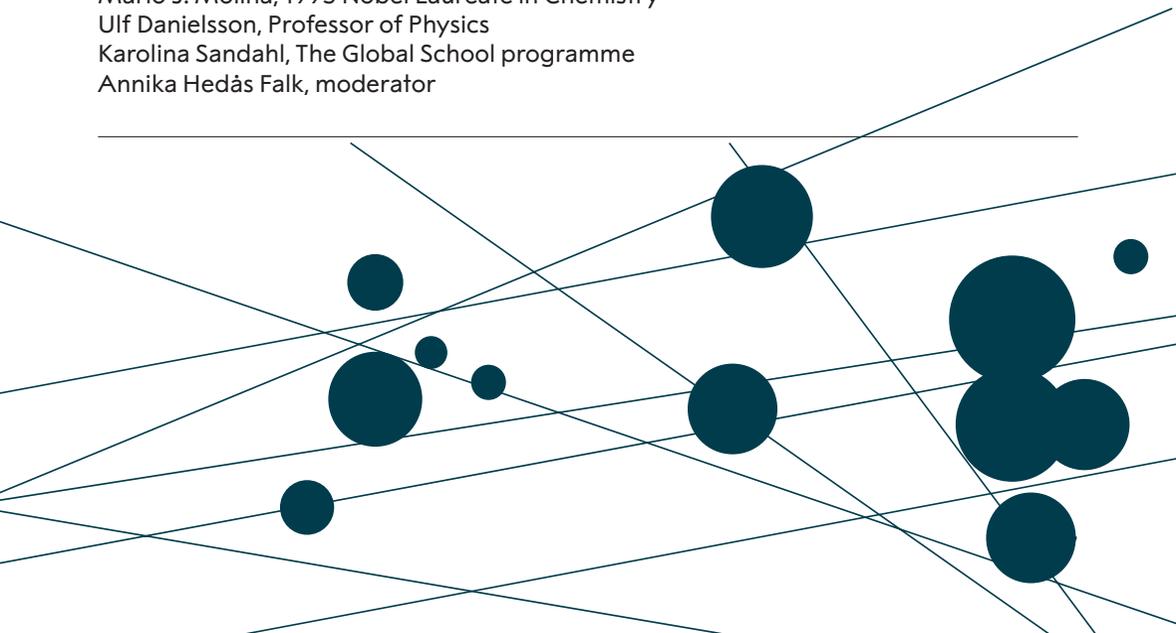
Listen to Ulf Danielsson, Professor of Theoretical Physics at Uppsala University, talk about how a view of the Earth from a cosmic perspective reveals our origin and helps us realise who we are. The lecture argues that to handle climate change, and survive into the future, we need to know our true place in the universe.

Explaining the incomprehensible

Panel discussion

Climate change is one of many complex problems that we need to teach to students – and it is not only young people who find this huge issue difficult to overlook. How can we approach the incomprehensible in the classroom?

Mario J. Molina, 1995 Nobel Laureate in Chemistry
Ulf Danielsson, Professor of Physics
Karolina Sandahl, The Global School programme
Annika Hedås Falk, moderator



Mario J. Molina

Climate change: Science, policy and education

Location: FOGELSTRÖM

Climate change is the most serious environmental challenge facing society in the 21st century. The consensus among experts is that it is very likely that human activities are causing the observed changes in Earth's climate in recent decades. Climate change education is fundamental to develop a society that better understands the nature of the problems that affect our planet.

Mario J. Molina received the Nobel Prize in Chemistry for making the world understand how freons destroy the ozone layer.

Beatrice Fihn

How activism and organising will save our world

Location: GALLERIET

A discussion about the importance of regular people working together to change policies and behaviour. Beatrice will highlight inspirational victories from social movements around the world and give practical tips on how to create change based on experience from achieving a treaty prohibiting nuclear weapons.

Beatrice Fihn is the executive director of ICAN, the international coalition that received the Nobel Peace Prize in 2017 for their work against nuclear weapons.

Hiroshi Amano

En route to realise zero carbon emission

Location: ARKADEN

In this lecture, professor Amano estimates the cost of reducing carbon emissions all over the world, from an engineering standpoint. Renewable energy-based infrastructure is essential to reduce carbon emissions, although it is not sufficient to realise zero emissions. This session is a discussion about how to realise zero carbon emissions.

Hiroshi Amano received the Nobel Prize in Physics 2014 for developing the LED-lamp.

Johan Rockström

The road to rapid decarbonisation

Location: RIDDARSALEN

Global warming and the mass extinction of plant and animal species show that humanity has become a global force on the planet. What will it take to realise sustainable development within the planetary boundaries, and how can we succeed in stabilising the Earth's system in a safe and just operating space for humanity and non-human life?

Johan Rockström is the environmental scientist that made planetary boundaries understandable.

Karolina Sandahl and Mathias Demetriades

How do we teach for sustainable development?

Location: FOGELSTRÖM

In a complex, fast-changing and interconnected world, the issues we teach are often difficult. During the workshop we will try some methods and reflect on how teaching and education can make problems such as climate change meaningful to young people and how it can contribute to developing action competence.

Karolina Sandahl and Mathias Demetriades work for the governmental agency "The Swedish Council for Higher Education" (UHR) to implement the programme "The Global School" to strengthen the educational system's ability to educate young people to be able to take action for a sustainable development in a multicultural society.

Malin Ideland

Who can save the world?

Location: GALLERIET

The need for educating children into a sustainable way of being in the world is one of the most urgent tasks for schools of today. But what comes along with the good intentions to educate for a sustainable society? The idea of the environmentally friendly life is entangled in norms for social class, whiteness and national exceptionalism. We need to question if this is the best way to educate for a sustainable and equal world.

Malin Ideland works at Malmö University as Professor in Educational Sciences with specialisation in Ethnology.

The Nobel Prize Education team

Creativity and the Nobel Prize in your classroom

Location: ARKADEN

The Nobel Prize shows that hard work and good ideas really can change the world. So let's try some creativity methods and Nobel Prize resources that you can bring back to your classroom!

Andrea Hvistendahl and Ulrika Florin

Planting Tomorrows

Location: RIDDARSALEN

In the strive to alter the scenario of climate change; artists Andrea Hvistendahl and Ulrika Florin invite us to interact, experience and make imprint in the artistic driven installation Planting Tomorrows, that is built around four nodes, mirroring important systemic aspects. We zoom from a hovering perspective carried by wings, through the clouds, towards our soft globe, and the grounded child.

Ulrika Florin is a Senior Lecturer in Information Design and the Coordinator of the Bachelor Program; Spatial Design – Information Design at Mälardalen University. Andrea Hvistendahl is a Visual Artist and a Lecturer in Information Design at Mälardalen University.

15.15–16.00

How we saved the ozone layer

Interview + Q&A

“Scientists can depict the problems that will affect the environment based on available evidence, but their solution is not the responsibility of scientists, but of society as a whole”

We meet Mario J. Molina, 1995 Nobel Laureate in Chemistry, and will have the opportunity to listen to him talk about how the discoveries of him and his colleagues in the 1970s led towards limiting the use of freons. Thanks to the Montreal Protocol in 1987 the use of freons has declined, giving the ozone layer the chance to recover. Molina’s story shows that knowledge can lead to political action for the environment. Today, Molina is an outspoken advocate for action against climate change.

Teachers are the key to a sustainable future

Lecture + Q&A

“The key to a successful implementation of Agenda 2030 is that the entire community participates. The school has a central role in spreading knowledge about the global and national goals to the students so that together we can achieve a sustainable and fair future”

Anna Ekström, Sweden’s Minister for Education, joins us to share her view on the importance of teachers.

Call for action

Climate Change Changes Everything, and the way we address it in education will have a huge impact on the future.

Conclusions and reflections about what this really means.

16.00–16.45 MINGLE

Bubbles and jazz with The Highway Stompers

Nobel Prize Teacher Summit 2019