

YOUNG ACADEMY OF SWEDEN © 2014
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COVER PICTURE: The colourful post-it notes contain answers to the questions "What research is most important?" (top) and "What can be of benefit?" (below). Each day during the Göteborg Book Fair 2013, we asked a question to people visiting our stand. They were invited to write brief answers on notes, which were used as the basis for discussions and new ideas. Examples of other questions were: "Where is time?" and "What is a thought?" The questions generated more than 500 replies and many interesting discussions.
Photo: Sara Åkerlind

YEAR 3

This was an eventful year for the Young Academy of Sweden as according to the original plans, it became a fully independent organisation.

The Foundation for the Young Academy of Sweden was formed on 24 October 2013 by the Royal Swedish Academy of Sciences (RSAS) and the Ragnar Söderberg Foundation. The third year of the academy has in other respects been filled with activities, including four lively academy meetings, two well-attended academic conferences, a visit from the Young Academy of Japan and a summer research camp for upper secondary school pupils. In addition, the Young Academy issued its first book, which was launched at the Book Fair in September. In a short time, the Young Academy

of Sweden has become an attractive meeting place for some of the most outstanding young scientists in the country. We have had the pleasure, for the second time, of admitting new members, who have enriched the academy with fresh perspectives. We now look forward with anticipation to welcoming more new members to the organisation next year (see page 29). The global Young Academy movement continues to grow. For example, this year we were present at the launch of a new sister organisation in Kenya. We now have another exciting academy year before us, starting with a new round of our summer school “Scientific Encounters” and a hearing on 5 September with Sweden’s general election this autumn in view.

Group photo from the academy meeting in Gothenburg, April 2014. Photo: Annika Moberg



YOUNG ACADEMY OF SWEDEN REBORN

The Young Academy of Sweden was founded on 27 May 2011 on the initiative of the Royal Swedish Academy of Sciences (RSAS), with the aim of creating an interdisciplinary forum and a research policy platform for young scientists in Sweden in all disciplines. Right from the start, the plan was that the Young Academy should be spun off from the RSAS and become a fully independent organisation. To this purpose, *the Foundation for the Young Academy of Sweden* has now been formed.

The Young Academy of Sweden plays a significant role in the global Young Academy movement that has emerged in the last few years. A commitment beyond one's own research area and the desire for a platform where scientists can meet across the disciplines unites the initiatives. The Young Academy of Sweden now has 40 members, and has since its inception carried out a number of successful activities to promote Swedish research and education. We are very happy to have met the initial expectations of becoming a useful meeting place for some of Sweden's most able young scientists, as well as a sought-after collaboration partner.

Jan-Eric Sundgren, chair of the first board of *the Foundation for the Young Academy of Sweden*. Photo: Magnus Bergström



YOUNG ACADEMY OF SWEDEN REBORN

During 2013, it was time for the Young Academy of Sweden to become a fully independent organisation. *The Foundation for the Young Academy of Sweden* was formed with the primary task of ensuring that the Young Academy is able to continue its activities independently. A ceremony was held at the RSAS on Thursday 24 October, when the founders signed the deed of foundation, the new board of the foundation took office and members of the Young Academy of Sweden presented the activities of the academy. We are highly grateful and proud to have such competent and distinguished members on the board, guaranteeing a safe future for the academy.

We would like to extend warm thanks to the members for accepting their appointments.

The foundation was established at the Royal Swedish Academy of Sciences, in Linnésalen where the Young Academy of Sweden was founded in 2011.
Photo: Magnus Bergström



Staffan Normark, the RSAS's Permanent Secretary signed the deed of foundation, making the Young Academy of Sweden an independent organisation, supervised by Chief Executive Officer Anna Sjöström Douagi. Photo: Annika Moberg



Members of the Young Academy of Sweden presented the activities of the academy; Palle Dahlstedt and Helene Andersson-Svahn.
Photo: Magnus Bergström



Mia Lindskog and Erik Lindahl. Photo: Magnus Bergström

ACTIVITIES

ACADEMY MEETINGS

The activities of the Young Academy of Sweden are based on the so called academy meetings; two-day residential gatherings currently held four times per year. The venue rotates between cities around Sweden and abroad to enable the academy to meet significant people and institutions in their local environments.

The academy members convene to discuss and make decisions about the academy's organisation and activities. New ideas are brought up and explored, members present their research to one another, and different interdisciplinary initiatives take place. On the main programme are also informal talks with special guests. The Young Academy of Sweden invites a wide spectrum of leading persons from different parts of society. During 2013–2014 we have met:

VICTORIA DYRING, science journalist, SVT (Swedish public service television)

KERSTIN ELIASSON, board member of *the Foundation for the Young Academy of Sweden*, chair of the Council for Research Infrastructure at the Swedish Research Council, chair of the Knowledge Foundation and former State Secretary

GÖRAN GROSSKOPF, chair of the Supervisory Board of Ingka Holding B.V., IKEA, former professor of law, tax law and jurisprudence at Lund University, Umeå University and Uppsala University

FRANZ HENNIES, scientist, Beamline Project Coordinator at the MAX IV Laboratory, Lund University

KARIN MARKIDES, professor of analytical chemistry, president and CEO of Chalmers University of Technology

SARAH MCPHEE, board member of the Foundation for the Young Academy of Sweden and CEO of SPP (savings and insurance)

SARA MONACO, analyst, Swedish Research Council

Intense interdisciplinary speed-dating at the academy meeting 4–5 February, Sästaholm. Photo: Anna Kjellström



ACTIVITIES

ACADEMY MEETINGS

STAFFAN NORMARK, board member of the *Foundation for the Young Academy of Sweden*, professor in medical microbiology and permanent secretary of the RSAS

KERSTIN SAHLIN, professor of public management, Uppsala University and secretary general of humanities and social sciences at the Swedish Research Council

PETER SCHURTENBERGER, professor of physical chemistry at Lund University, member of the Instrument Scientific and Technical Advisory panel for the European Spallation Source (ESS)

JAN-ERIC SUNDGREN, chair of the Foundation for the Young Academy of Sweden, professor of materials physics, senior adviser to the CEO Volvo Group and former president of Chalmers University of Technology

In Lund the Young Academy visited the Biomedical Centre (BMC) and received guests from ESS and Max IV. In Gothenburg we visited Chalmers University of Technology, and our guests included the president of Chalmers, Karin Markides, and the chair of our foundation board, Jan-Eric Sundgren. We aim to continue developing the format for the academy meetings at different locations in Sweden and abroad. The concept of invited guests and study visits offer unique opportunities for Young Academy members to gain insight into and influence important institutions which carry out, disseminate and make decisions about scientific research.

During the year, academy meetings were held in Gothenburg, Lund and Stockholm.

Guest at the academy meeting in February, Victoria Dyring, Swedish Television, talked about her work of describing science through the television programme *Vetenskapens värld* (World of Science). Photo: Annika Moberg



ACTIVITIES

ACADEMY MEETINGS

Members rehearsing a session of “Trend reporting supported by scientific evidence” before the Science Festival, at the academy meeting in Gothenburg, 2014.
Photo: Anna Kjellström



Jonas Larsson, David Håkansson and Fredrik Bäckhed continue their talks over coffee at the academy meeting in Lund, November 2013. Photo: Sara Åkerlind



Kristian Pietras giving an interdisciplinary presentation about his research in molecular medicine at the academy meeting in Lund, November 2013. Photo: Sara Åkerlind



Christian Broberger, convener of the panel for science policy, leads group discussions at the academy meeting in Gothenburg in April 2014.
Photo: Anna Kjellström

ACTIVITIES

ACADEMY MEETINGS

Tünde Fülöp planning future activities with the other members of the interdisciplinary panel, academy meeting Lund 2013.
Photo: Sara Åkerlind



Mia Lindskog giving a scientific presentation about her research in neuroscience at the academy meeting in February 2014. Photo: Anna Kjellström



Marie Wiberg, Andreas Ryve and Mia Lindskog recording an episode about schools for the coming Young Academy of Sweden podcast, Academy Pod. Photo: Anna Kjellström



Karin Markides, president and CEO of Chalmers University of Technology, visits the academy meeting in Gothenburg 2014. Photo: Anna Kjellström

ACTIVITIES

INTERDISCIPLINARY ACTIVITIES

The interdisciplinary aspect permeates almost all undertakings of the Young Academy of Sweden. One of the principal initial aims of the academy was to bring together young researchers from a large number of disciplines to promote new and unexpected ideas. Many great scientific breakthroughs are the result of interdisciplinary encounters. However, in today's world of increasingly specialised research, it is becoming more difficult for experts from different fields to come into contact with each other.

The Young Academy of Sweden enables young scientists from a wide spectrum of research areas to meet in stimulating surroundings, resulting in the setting up of meetings that would not otherwise have taken place. We try in different ways to increase contact opportunities and identify potential collaborations and requirements for successful interdisciplinarity. Collaborations could be e.g. joint standard scientific projects, but seminars and visits to each other's work places are also beneficial. Members from different disciplines have already written applications for collaboration projects or consult each other when they have questions relating to fields outside their own areas of expertise. Some examples of interdisciplinary activities during the year are presented below.

Henrik Zetterberg gave the presentation "Cerebrospinal fluid – more than a shock absorber for the brain" at the Young Academy's neuroscience symposium "Visions of the Brain – A tribute to Torsten Wiesel" at the Nobel Forum at Karolinska Institutet in December 2013.

Photo: Anna Sjöström Douagi



Guest of honour at the symposium Visions of the Brain, the Nobel Laureate in Medicine Torsten Wiesel, who is also the academy's Scientific Patron and Honorary Member. Torsten Wiesel, received his medical degree at KI, set up the department of neurobiology at Harvard, and was also the president of Rockefeller University during a large part of the 1990s. Photo: Sara Åkerlind



ACTIVITIES

INTERDISCIPLINARY ACTIVITIES

ACADEMIC CONFERENCES

A full house attended the international neuroscience symposium, “Visions of the Brain – A tribute to Torsten Wiesel”, organised by the Young Academy of Sweden in December 2013, at the Nobel Forum at Karolinska Institutet. The symposium coincided with the 50th anniversary of Torsten Wiesel’s discovery, which led to the Noble Prize in Physiology or Medicine in 1981. Torsten Wiesel sat in the first row, while different approaches to brain research were presented by scientists from the Young Academies of Denmark, Israel, and Sweden. Other keynote speakers included Cori Bargmann, Torsten N. Wiesel Professor at Rockefeller University and Elio Raviola, Bullard Professor of Neurobiology at Harvard University. This was the first, but hopefully not the last time, that we organised a scientific conference with representatives from our sister academies abroad.

In January 2014, the Young Academy of Sweden organised the well-attended one-day seminar “Gender Equality in Academia: From Figures to Action” at Chalmers University of Technology in Gothenburg. Members of the Young Academy together with a number of invited speakers took part. Mechanisms and structures behind inequality were highlighted along with good examples and possible solutions. An overall aim was to look for tangible tools to change a situation that is, in many respects, widely analysed. The seminar attracted much media attention and was documented by the Swedish educational broadcasting company UR/ Kunskapskanalen and the Swedish Radio programme SR/ Vetandets värld.

Flyer for the seminar “Gender Equality in Academia: From Figures to Action” held at Chalmers University of Technology. The seminar was filmed and can be seen on Swedish Television UR Play.

Birgitta Jordansson, Johanna Stadmark and Young Academy member Gustaf Arrhenius in a morning panel discussion with the audience at the seminar on Gender Equality in Academia. Photo: Annika Moberg



ACTIVITIES

INTERDISCIPLINARY ACTIVITIES

SCIENTIFIC PRESENTATIONS AND “SPEED-DATING”

When asked about the best aspects of the Young Academy of Sweden, the opportunity to meet peer members and gain insight and increased knowledge about other fields is often mentioned first. Many members testify that this has given a boost to their own research. Therefore, members presenting and discussing their work is a vital part of our academy meetings. New ideas about projects and activities are generally born at every academy meeting. The so called interdisciplinary “speed-dating”, when members meet in rotating pairs and have five minutes to draw up at least one

joint project, or find common points of interest, has been particularly successful. This creative exercise gives rise to many exciting ideas as well as good laughs. We believe that this is a great forum for new thinking, generating ideas that will live on far into the future.

Erik Lindahl gives a scientific presentation on his research in computational biophysics at the academy meeting in April 2014. Photo: Anna Sjöström Douagi



Camilla Svensson during the interdisciplinary speed-dating at the academy meeting in February 2014, where members in rotating pairs had five minutes to draw up at least one joint project. Photo: Anna Kjellström



ACTIVITIES

OUTREACH ACTIVITIES

An important issue for the academy is to increase the interest for science and research among young people and in society at large. We want to show the excitement and opportunities of a research career. We also want to communicate the latest discoveries to the public, demonstrating the implications for humans and society. Finally, we want to create an understanding for the importance of a scientific approach. There is high competence within the academy to carry out the above activities, with many members who are good at inspiring others. Below are some examples of our activities during the past year.

SCIENTIFIC ENCOUNTERS

In summer 2013, we initiated a summer camp called “Scientific Encounters”, which took place at the beautifully located Sven Lovén Centre for Marine Sciences outside Fiskebäckskil. Twenty-one pupils, selected in an open call to all upper secondary schools in Sweden, spent three days together with a number of academy members. In addition to scientific presentations aimed at this target group, discussions were held on e.g. research conditions, a-day-in-the life of scientists, and how to become a researcher. Scientific Encounters was highly appreciated both by pupils and participating members, and the Young Academy has decided to hold the summer camp again in summer 2014. In the evaluation, one pupil said: “Scientific Encounters is the best thing I’ve ever attended”, which strengthened our resolve to continue with the summer camp.

Group photo of all the participants in Scientific Encounters 14–16 August 2013.
Photo: Gabriel Berndtsson



Henrik Zetterberg with pupils attending Scientific Encounters 2013. During the summer camp, discussions are sandwiched between study visits, lectures and excursions. Photo: Mia Lindskog



ACTIVITIES

OUTREACH ACTIVITIES

“VÄGAR TILL VETENSKAPEN”

The Young Academy of Sweden published its first book in September 2013. “Vägar till vetenskapen – Sveriges unga akademi om att bli och vara forskare” (Roads to Science – the Young Academy of Sweden on becoming and being a scientist) is a collection of short autobiographies by the first generation academy members. The texts are personal and revolve around issues such as choice of career, driving forces and career strategies. How do you become a scientist? What does it take

to succeed? Since the members represent a wide spectrum of disciplines from philosophy to nanotechnology, the book offers valuable insight into today’s scientific landscape; its mission and challenges. The book was launched at the Göteborg Book Fair in September 2013.



The book “Vägar till vetenskapen” was launched by the Young Academy of Sweden at the Göteborg Book Fair 2013; Christer Nordlund edited the book. The cover shows a flowering meadow, the result of the bags of seeds that were handed out when the Young Academy was established in 2011.

Photo: Peter Svahn

Christer Nordlund, Gustaf Arrhenius, Annette Granéli, Christian Broberger and Anna Sjöström Douagi present the academy’s new book at the Göteborg Book Fair.

Photo: Sara Åkerlind



FORSKARTORGET (Research Square)

The Young Academy of Sweden was “Partner of the Year” at Forskartorget at the Göteborg Book Fair in September 2013. At the Young Academy stand, members presented our new book, met the public, and discussed research and science. Each day, we presented a question to the visitors, who were invited to write brief answers on post-it notes. These formed the basis for discussions and new ideas. The questions, such as “Where is time?” or “What is a thought?”, generated more than 500 answers and many interesting discussions. The public showed a great passion for such deep topics, and this is also an exercise we would like to repeat.

A lot of people wanted to answer the penetrating questions at our stand at the Book Fair.

Photo: Sara Åkerlind



ACTIVITIES

OUTREACH ACTIVITIES

The Young Academy participated in the following sessions at Forskartorget (Research Square):

- **WHEN COLLABORATION IS UNEXPECTEDLY FRUITFUL** with Klas Markström
- **ROADS TO SCIENCE** with Christer Nordlund, Gustaf Arrhenius, Christian Broberger, Annette Granéli and Anna Sjöström Douagi
- **ON THE ORIGIN OF LANGUAGE** with Jenny Larsson
- **ON PUSHING DUNG IN THE RIGHT DIRECTION** with Marie Dacke

At the Young Academy stand, we held the following discussions before the public:

- **CLIMATE CHOICE** with Gustaf Arrhenius, Beatrice Crona and Mia Lindskog
- **CREATIVITY** with Tobias Degsell from the Nobel Museum, Pelle Dahlstedt, Annette Granéli and Mia Lindskog
- **THE BRAIN** with Christian Broberger, Mia Lindskog and Henrik Zetterberg

SCIENTIFIC TALK SHOW

Members of the Young Academy of Sweden participated in a series of televised scientific discussions, “ π -talks”, arranged by the publishing house Fri Tanke (Free Thought) and broadcast on Kunskapskanalen (Knowledge Channel) and UR Play. We took part in the following programmes:

- “Does objective morality exist?”, Beatrice Crona
- “Artificial intelligence”, Danica Kragic Jensfelt
- “What is science?”, Jenny Larsson

NOBEL MUSEUM

The Young Academy of Sweden strives to identify partners for exciting and constructive collaborations. Together with the Nobel Museum, we arrange different activities in order to disseminate research; we supply scientists and the museum contributes with the format and a well-attended arena. Young Academy members have taken part in a series of popular seminars “Science café”, presenting their research and answering questions from the audience. We have also taken part in a Family Day at the museum and answered questions from children. The Nobel Museum also participated in our stand at the Book Fair.

Jenny Larsson in the discussion on “What is science?” from the talk show “ π -talks”.



Helena Sandberg (right) gave a presentation at the Nobel Museum Science café on the topic “Children and advertising” in November 2013. Photo: Annika Moberg



ACTIVITIES

OUTREACH ACTIVITIES

SCHOOL VISITS WITH NOBEL LAUREATES

Ever since the Young Academy of Sweden was established, we have participated in the RSAS' Nobel Week visits by Nobel Laureates to upper secondary schools in Stockholm. This year, our member Emma Sparr attended the visit to Värmdö Gymnasium by the Chemistry Prize Winners Michael Levitt and Arieh Warshel. Sebastian Björklund, one of Emma's PhD students, and Sven Lidin, chair of the Nobel Committee for Chemistry were also present. The Laureates entertained students with descriptions of their road to receiving the Nobel Prize. The panel, led by science journalist Ann Fernholm, talked about life as a scientist and answered questions from the students.

SCIENCE FESTIVAL

In May 2014, the Young Academy took part, for the third time, in the International Science Festival in Gothenburg, where we organised a session entitled "Forskarspaningar" (Science Trends) at the City Library. Nine scientists from different disciplines were asked to pursue a thesis supported by three pieces of scientific evidence, in a short time. The topic could be anything from popular culture to different phenomena in society, but the scientific evidence had to come from the trend searcher's own field of research. After the presentation, the audience was invited to talk to the scientists in person. Interesting and entertaining trend searches with enticing titles such as "Time for the introvert to stand in the limelight", "Muscle – the new brain", "Saturday all week– life should be enjoyable: about sweetification" and "Time for proto-languages!" were held. The presentations were filmed and will be shown on YouTube and on the Young Academy's website.

Sven Lidin, chair of the Nobel Committee for Chemistry, Emma Sparr and Arieh Warshel, Nobel Laureate in Chemistry during a visit to Värmdö Upper Secondary School. Photo: Annika Moberg



Marie Dacke challenged the audience and colleagues with her trend search on "Magnetic cows and parallel dogs" at the Science Festival in May 2014. Photo: Annika Moberg



ACTIVITIES

RESEARCH POLICY

Since the start, the Young Academy of Sweden has taken an active part in the research policy debate, with e.g. polemical articles and seminars. The Young Academy wants to be a voice for scientists at the start or in the middle of their careers, and believe that it can contribute a perspective particular to this group. Young scientists have special opportunities and challenges in a changing research landscape. In spring 2013, we circulated a proposal for a new career system to higher education institutions in Sweden, in order to stimulate discussion on an issue we believe is highly urgent. The Young Academy wants to help achieve optimal conditions for researchers in Sweden, to increase opportunities for high quality research with breakthrough potential in Sweden, and to be a constructive player. Below are some examples of the past year's research policy activities.

SEMINAR

The Young Academy, together with the Royal Skyttean Society, held the conference "University of Opportunities" at Umeå University on 23 October 2013. Questions that were raised included: Which long-term problems face Swedish universities? How can breadth and cutting-edge be secured within the universities? Which opportunities have been created by the so called autonomy reform? Participating members from the Young Academy were Annette Granéli and Christer Nordlund.

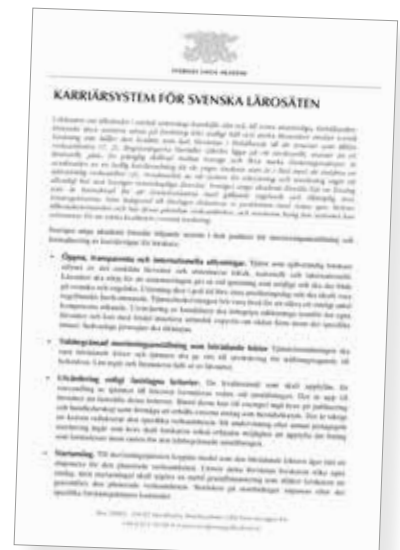
CAREER SYSTEM FOR SWEDISH HIGHER EDUCATION INSTITUTIONS

Our proposed career system, launched in early 2013, resulted in a number of invitations to participate in seminars, debates and informal talks. Over the year, Young Academy members have been active in different forums, presenting our proposed career system for universities, students, researchers and decision-makers.

"University of Opportunities" participants (from left): Linda Wedlin, Uppsala University; Lars-Erik Edlund, Umeå University and President of the Royal Skyttean Society; Annette Granéli, University of Gothenburg and the Young Academy of Sweden; Laura Enflo, KTH; and Christer Nordlund, Umeå University and the Young Academy of Sweden.



In January 2013, the Young Academy of Sweden presented a proposal for a new career system for young researchers. The proposal was sent to the presidents of the universities that belong to the Association of Swedish Higher Education (SUHF).



ACTIVITIES

RESEARCH POLICY

NETWORKING PROGRAMME WITH THE SWEDISH PARLIAMENT

During 2013–14, a second round of networking was held together with the Swedish Association of Members of Parliament and Scientists (RIFO). Five members of the Young Academy of Sweden were paired with MPs, with the aim of providing a mutual insight into each other's work and increasing the understanding between decision-makers and the scientific community. Participants visited each other's workplaces for a day and held discussions aimed to enlighten the elected representatives about scientists' conditions and everyday realities, while the scientists learned about drafting and decisions procedures in politics. Two full days were spent in Parliament House where we visited e.g. a party office, the Education Committee, and the Ministry of Education and Research.

SWEDISH RESEARCH COUNCIL

Over the year, the Young Academy of Sweden has conducted a dialogue with the Swedish Research Council (VR)

regarding their commission to submit a proposed model for resource allocation for part of the basic funding to universities and university colleges, involving peer review assessments. The discussions resulted in a written communication to the Swedish Research Council, where the Young Academy expressed which points it felt should be considered when formulating the model. We highly appreciate the opportunity for young researchers to submit opinions on matters that will affect this group in the future.

OPINION PIECE ABOUT SCHOOLS

In May 2014, the Young Academy of Sweden published an opinion piece in the Swedish Research Council's web magazine Curie on the importance of basing the school debate on research evidence. In view of the declining results presented by PISA and TIMS, the Young Academy felt it is high time to have an evidence-based school development and made a number of proposals to this effect. The proposed measures included: to develop concrete support for teachers, focus on reducing differences between schools, long-term implementation of research evidence into schools, and full funding of reorganisations.

Networking programme with the Swedish Parliament: Young Academy of Sweden members together with MPs and programme coordinators, 16–17 October. Photo: Anna Sjöström Douagi



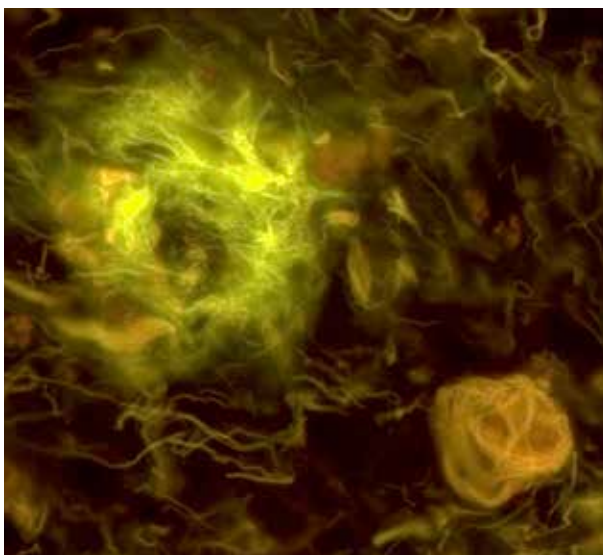
ACTIVITIES INTERNATIONAL

Young academies are established all over the world in what is called “the Young Academy Movement”. The first young academy, Die Junge Akademie, was formed in Germany in 2000, and today there are some 30 young academies worldwide, including the Global Young Academy. We had the honour of attending the establishment of the Kenyan National Young Academy of Science, the latest addition to the family of young academies. Since the start, the Young Academy of Sweden has been a strong force in the international cooperation and we continue to develop international collaborations.

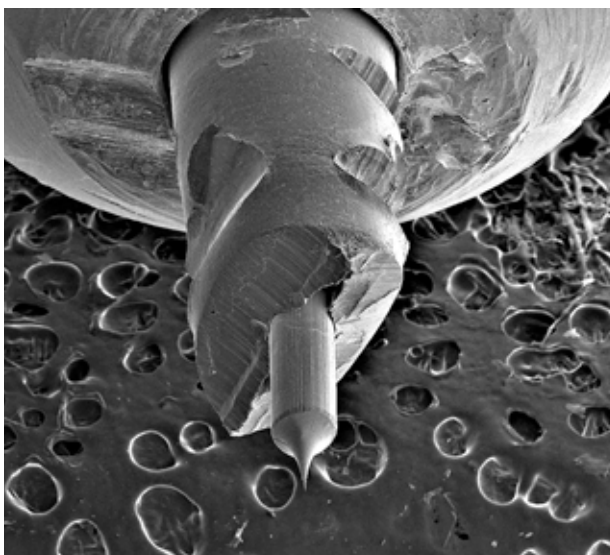
PHOTO COMPETITION

The photo competition “Visions and Images of Fascination” was a joint project with Die Junge Akademie of Germany, De Jonge Akademie of the Netherlands, the RSE Young Academy of Scotland, the Young Academy of Sweden and the Council for Young Scientists of the Russian Academy of Sciences. Scholars in the participating countries were invited to submit images along with a short statement describing their fascination and visualisation. One of the key objectives with the project was to increase the understanding of the humanities and sciences. The first prize went to Rozalyn Simon, Linköping University for the photo “Dying memories: Is this what forgetting looks like?”, showing brain tissue from an Alzheimer patient. The third prize also went to Sweden; Olof Persson from Lund University was awarded for his photo “Microscope tip imaged with another microscope”. The award ceremony took place at Die Junge Akademie’s gala in Berlin on 15 June 2013.

Rozalyn Simon, Linköping University, won the photo competition Visions and Images of Fascination with her representation of forgetfulness; degenerated brain cells in a patient with Alzheimers.
Photo: © Rozalyn Simon/Visions and Images of Fascination



Olof Persson, Lund University won third prize for his contribution: “Microscope tip imaged with another microscope”.
Photo: © Olof Persson/Visions and Images of Fascination



ACTIVITIES INTERNATIONAL

VISIT FROM THE YOUNG ACADEMY OF JAPAN AND BILATERAL VISITS

In June 2013, we hosted a visit from the Young Academy of Japan, for two days of scientific presentations and discussions. This gave us a unique opportunity to interact with a cross-discipline group comprising some of the most outstanding young Japanese scientists. In August 2013, we were invited to the annual meeting of the Young Academy of Scotland to present our activities and organisation. In September 2013, we attended the annual meeting of the Young Academy of Europe to share our experiences, and in July 2014, we are invited to the Young Academy of Europe annual meeting in Barcelona.

MONITOR AT THE AFRICAN YOUNG ACADEMIES REGIONAL CONFERENCE

The Young Academy of Sweden was invited to monitor the first Regional Conference of the African Young Academies, in Nairobi, February 2014. During the conference, the Kenyan National Young Academy of Science was launched, another addition to the string of African countries forming young academies in the last few years. Johan Åkerman attended the conference, packed with exciting meetings and discussions, and we anticipate more meetings with this dynamic region.

Visit from the Young Academy of Japan in June 2013, here with Anna Sjöström Douagi. Photo: Sara Åkerlind



Participants at the African Young Academies Regional Conference in Nairobi, Kenya, 3–5 February 2014.



ACTIVITIES INTERNATIONAL

PETITION “FUTURE EARTH”

The Young Academy of Sweden together with 10 other young academies signed the petition “A Future Earth for Future Generations?” addressed to the Future Earth Governing Council, Science and Engagement Committee in March 2014. The letter included eight steps to promote the involvement of young researchers. Future Earth is a new 10-year international research initiative with the aim to coordinate inter-disciplinary research on how to respond to risks and opportunities of global environmental change, and support transformation towards global sustainability in the coming decades.

PARIS DELEGATION

During a few days in March 2014, a delegation from the Young Academy of Sweden visited scientists and prominent research institutions in Paris, thanks to support from the French Embassy in Stockholm. The programme included visits to e.g. Academie de Sciences, the Ministry for Higher Education and Research and Université Paris-Saclay. The delegation was also invited to attend the “For Women in Science” events, including the prize ceremony of the L’Oréal-UNESCO Awards 2014. A visit to the L’Oréal Research Centre was also included, and we hope to have a sister academy in France before long.



Christian Broberger, Martin Högbom, Camilla Svensson, Anna Sjöström Douagi and Helena Sandberg in Paris on a visit organised by the French Embassy.



ACTIVITIES

INTERACTIONS AND COLLABORATIONS

In addition to the above activities, the Young Academy of Sweden has also participated and been invited to a number of different meetings and seminars. Below are a selection.

DOES IT MATTER WHO GOVERNS HIGHER EDUCATION?, seminar arranged by the Association of Swedish Higher Education (SUHF) Almedalen, July 2013

HOW CAN SWEDEN TAKE ON A LEADING ROLE AS A RESEARCH COUNTRY?, seminar arranged by European Spallation Source (ESS) and MAX IV Laboratory, Almedalen, July 2013

LET PRE-SCHOOL CHILDREN DISCOVER SCIENCE AND TECHNOLOGY, seminar arranged by BUNT (Science Kids) at the Nobel Museum, Stockholm, August 2013

SUMMER DAVOS MEETING FOR THE NEW CHAMPIONS, international summit arranged by the World Economic Forum, Dalian, China, September 2013

STOCKHOLM MEETING, seminar arranged by, among others, the Swedish Association of Professional Scientists (Naturvetarna) and the RSAS, Stockholm, September 2013

CREATIVE ENVIRONMENTS: WHAT ARE THEY, HOW ARE THEY CREATED AND MAINTAINED?, symposium arranged by the Royal Physiographic Society, Lund, September 2013

HOMEcoming DAY, arranged by the Wenner-Gren Foundations, Stockholm, September 2013

NATIONAL MEETING WITH JUNIOR AND FUTURE FACULTIES, Linköping, October 2013

WORKSHOP ON EUROPE, meeting of all young academies in Europe, Brussels, Belgium, October 2013

STRATEGIC RECRUITMENT AND CAREER PATHS, seminar arranged by the Knowledge Foundation, Stockholm, October 2013

JUNIOR FACULTY CAREER DAY, Linköping, November 2013

ASK AN INVENTOR, family day arranged by and at the Nobel Museum, Stockholm, November 2013

THE SCIENCE & SCILIFELAB PRIZE FOR YOUNG SCIENTISTS, Award ceremony hosted by Science for Life Laboratory and Science/ AAAS, Grand Hôtel, Stockholm, December 2013

THE SITUATION FOR YOUNG SCIENTISTS, seminar arranged by the Junior Faculty at the Faculty of Medicine, Umeå University, December 2013

JUNIOR FACULTY MEETING, Karolinska Institutet, Stockholm, January 2014

FORSKARLIV (SCIENTISTS' LIVES), radio programme, Vetenskapsradion, Swedish Radio, February 2014

LECTURE ON CAREER OPPORTUNITIES FOR YOUNG SCIENTISTS, arranged by the National Clinical Research School in Chronic Inflammatory Diseases at Karolinska Institutet, Stockholm, March 2013

YOUNG SCIENTISTS EXHIBITION arranged by the Swedish Federation of Young Scientists, the National Museum of Science and Technology, Stockholm, March 2014

JUNIOR FACULTY MEETING, Karolinska Institutet, Stockholm, April 2014

BRAIN DRAIN OR BRAIN GAIN – WHAT IS THE UNIVERSITY UP TO?, session at the Academics' higher education policy forum, arranged by the Swedish Confederation of Professional Associations (Saco), Stockholm, April 2014

RESEARCH IN HUMAN AND SOCIAL SCIENCES: IMPORTANCE, IMPACT AND HORIZONS, seminar arranged by the Royal Swedish Academy of Letters, History and Antiquities, The Swedish Central Bank Jubilee Fund and the Swedish Research Council, April 2014

MEETING WITH THE HUMAN RIGHTS COMMITTEE at the Royal Swedish Academy of Sciences, Stockholm, May 2014

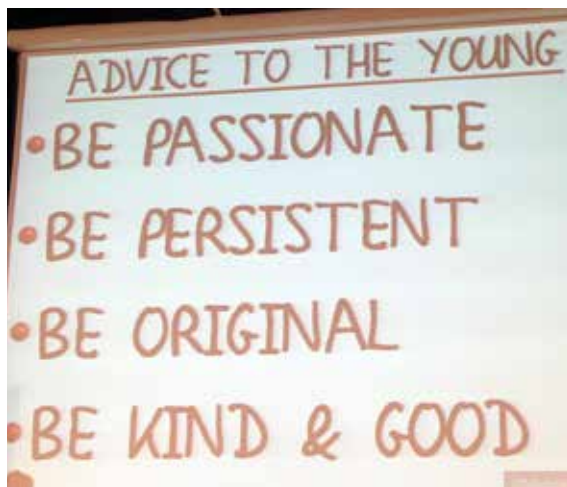
ACTIVITIES

THE YEAR IN PICTURES

Annette Granéli represented the Young Academy of Sweden at two seminars during the Almedalen Week 2013.
Photo: Anna Sjöström Douagi



Advice from the Nobel Prize Chemistry Laureate Michael Levitt to students at the visit to Värmdö Upper Secondary School during Nobel Week 2013. Photo: Anna Sjöström Douagi



Annette Granéli, Klas Markström, Christer Nordlund, Mia Lindskog, Jenny Larsson, Martin Högbom and administrator Sara Åkerlind at the Young Academy of Sweden stand at the Göteborg Book Fair 2013.
Photo: Anna Sjöström Douagi



The Young Academy of Japan visit in June 2013. Photo: Sara Åkerlind



A happy guest of honour, Torsten Wiesel, who during the symposium "Visions of the Brain – A Tribute to Torsten Wiesel" was awarded a medal by the Young Academy of Sweden for "World Champion Patron of Science", with his wife, the artist Mususa Wiesel.
Photo: Anna Sjöström Douagi

ACTIVITIES

THE YEAR IN PICTURES

Participants at “Visions of the Brain – A tribute to Torsten Wiesel”, December 2013: (top row, from left) Martin Högbom, Anna Sjöström Douagi, (middle row, from left) Christian Broberger, Elio Raviola, Torsten Wiesel, Cori Bargmann, Mia Lindskog, (bottom row, from left) Petrine Wellendorph, Henrik Zetterberg and Yael Hanein. Photo: Sara Åkerlind



At the visit to Paris in March 2014, the Young Academy was invited to the prize ceremony for the L'Oréal-UNESCO Awards 2014 and several other events within the “For Women in Science” initiative, which supports eminent female scientists. Photo: Christian Broberger



One of the exercises at a workshop on creativity at the Nobel Museum in 2013 involved building with Lego. Photo: Anna Sjöström Douagi



Anna Sjöström Douagi, Martin Högbom and Christian Broberger at the Sorbonne for the 2014 “For Women in Science” award ceremony. Photo: Emmanuel Salmon



Representatives from several young academies met their counterpart, the RSE Young Academy of Scotland on 29–30 August 2013 at Stirling University, UK.

MEMBERS 2013–2014



**HELENE
ANDERSSON
-SVAHN**
*Professor,
Nanobiotechnology,
KTH Royal Institute
of Technology*



**GUSTAF
ARRHENIUS**
*Professor,
Practical philosophy,
Stockholm University*



**CHRISTIAN
BROBERGER**
*Associate professor,
Neuroscience,
Karolinska Institutet*



**FREDRIK
BÄCKHED**
*Professor,
Microbiology,
University
of Gothenburg*



**ÖRJAN
CARLBORG**
*Professor,
Computational
genetics,
Swedish University of
Agricultural Sciences*



**JAN
CONRAD**
*Professor,
Astroparticle physics,
Stockholm University*



**BEATRICE
CRONA**
*Associate professor,
Systems ecology,
Stockholm University*



**MARIE
DACKE**
*Associate professor,
Functional zoology,
Lund University*

Photo: Private

Photo by Markus Marcellis as long as no other name is specified.



**PALLE
DAHLSTEDT**

*Associate professor,
Information technology
and music,
University
of Gothenburg and
Chalmers University
of Technology*



**PER
EKLUND**

*Associate professor,
Thin film physics,
Linköping University*



**HELENA
FILIPSSON**

*Associate professor,
Geobiosphere science,
Lund University*



**CHRISTIAN
FORSSÉN**

*Associate professor,
Subatomic physics,
Chalmers University
of Technology*



**TÜNDE
FÜLÖP**

*Professor,
Plasma physics,
Chalmers University
of Technology*



**ANNETTE
GRANÉLI**

*Assistant professor,
Biophysics,
University of Gothenburg*



**DAVID
HÅKANSSON**

*Associate professor,
Scandinavian
languages,
Uppsala University*



**MARTIN
HÖGBOM**

*Professor,
Structural biochemistry,
Stockholm University*



**ERIK
INGELSSON**

*Professor,
Molecular
epidemiology,
Uppsala University*



**STEFAN
JONSSON**

*Professor,
Business studies,
Uppsala University*





**DANICA
KRAGIC
JENSFELT**
*Professor,
Computer science,
KTH Royal Institute
of Technology*



**JENNY
LARSSON**
*Associate professor,
Baltic languages,
Stockholm University*



**JONAS
LARSSON**
*Associate professor,
Molecular medicine,
Lund University*



**ERIK
LINDAHL**
*Professor,
Computational
structural biology,
Stockholm University*



**MARIA
LINDSKOG**
*Assistant professor,
Neuroscience,
Karolinska Institutet*



**KLAS
MARKSTRÖM**
*Associate professor,
Mathematics,
Umeå University*



**CHRISTER
NORDLUND**
*Professor,
History of ideas,
Umeå University
and the Swedish
Collegium for
Advanced Study (SCAS)*



**KRISTIAN
PIETRAS**
*Professor,
Molecular medicine,
Lund University*



**ANNICA
POHL**
*Assistant professor,
Materials chemistry,
Uppsala University*



**ANDREAS
RYVE**
*Professor,
Mathematics education,
Mälardalen University
and Umeå University*



**HELENA
SANDBERG**
*Associate professor,
Communication and
media,
Lund University*



**EMMA
SPARR**
*Professor,
Physical chemistry,
Lund University*



Photo: Kennet Ruona

**CAMILLA
SVENSSON**
*Assistant professor,
Molecular pain
research,
Karolinska Institutet*



**MARIE
WIBERG**
*Associate professor,
Statistics,
Umeå School of
Business and
Economics*



**HENRIK
ZETTERBERG**
*Professor,
Neurochemistry,
University of Gothenburg*



**JOHAN
ÅKERMAN**
*Professor,
Spintronics,
University of
Gothenburg and
KTH Royal Institute
of Technology*



During the year, the Young Academy of Sweden held its third open call for new members, aimed at all scientists in Sweden who have presented their dissertation within the past ten years. The call takes place every year in late autumn. The criteria for election are scientific excellence and a proven interest in the current goals pursued by the Young Academy. The length of office for members is five years. An election panel consisting of members of the Young Academy of Sweden, led by Emma Sparr, carried out the process, including interviews. Seven new members will be welcomed into the Young Academy on 24 May 2014, for the period 2014–2019.

NEW MEMBERS

Photo: Private



**SANJA
BOGOJEVIC**
*Associate professor,
Environmental law,
Lund University*

Photo: Private



**ERICKA
JOHNSON**
*Associate professor,
Technology and
social change,
Linköping University*

Photo: Robert Cumming, OSO



**KIRSTEN
KRAIBERG
KNUDSEN**
*Assistant professor,
Astronomy,
Chalmers University
of Technology*

Photo: Johan Wingborg/GU



**STAFFAN I.
LINDBERG**
*Professor,
Political science,
University of
Gothenburg,
V-Dem Institute*

Photo: Private



**JOACHIM
OBERHAMMER**
*Associate professor,
Radio-frequency
microsystems
KTH Royal Institute
of Technology*

Photo: Jonas Strandberg



**SARA
STRANDBERG**
*Associate professor,
Elementary particle
physics,
Stockholm University*

Photo: Livia Rostovanyi



**MARIA
TENJE**
*Assistant professor,
Electrical
measurement
technology,
Lund University*

HONORARY MEMBERS



The Young Academy of Sweden has two honorary members:

TORSTEN WIESEL, professor, neuroscience, Nobel Prize Laureate in Physiology or Medicine 1981, Scientific Patron of the Young Academy of Sweden.

GUNNAR ÖQUIST, professor, plant physiology, permanent secretary of the Royal Swedish Academy of Sciences 2003–2010, led the initiative to form the Young Academy of Sweden.

Honorary membership is awarded by the Young Academy of Sweden as a sign of gratitude and is conferred only in exceptional cases. Torsten Wiesel and Gunnar Öquist were elected in May 2012.

Torsten Wiesel



Photo: Markus Marcellin

Gunnar Öquist



Photo: Yanan Li



ACADEMY BOARD

The Young Academy of Sweden is led by a chair, a vice chair and a further three members. The term of office for all board members is one year.

During the Young Academy's third year, 2013–2014, the board has consisted of:

ANNETTE GRANÉLI, chair (June 2013 – November 2013)

MARTIN HÖGBOM, vice chair (June 2013 – November 2013)
and chair (December 2013 – May 2014)

CHRISTIAN BROBERGER

JENNY LARSSON

EMMA SPARR

The CEO of the Young Academy of Sweden is permanently co-opted to the academy board.

STANDING COMMITTEES

In addition to the board, the Young Academy has four so called standing committees led by a convener and a secretary. There are also a number of working groups, which are formed and dissolved according to need. The standing committees are listed (right) with the members who served as convener and secretary in the third year:

INTERDISCIPLINARY FORUM

PALLE DAHLSTEDT, convener and **BEATRICE CRONA**, secretary.

OUTREACH ACTIVITIES

HELENA SANDBERG, convener and **JONAS LARSSON**, secretary.

RESEARCH POLICY

CHRISTIAN BROBERGER, convener and **GUSTAF ARRHENIUS**, secretary.

INTERNATIONAL GROUP

ERIK INGELSSON, convener and **ANNA SJÖSTRÖM DOUAGI**, secretary.

FOUNDATION BOARD

In 2013, *the Foundation for the Young Academy of Sweden* was formed and the first foundation board consists of a chair and four members. The first foundation board consists of:

JAN-ERIC SUNDGREN, chair, professor of materials physics, senior adviser to the CEO Volvo Group and former president of Chalmers University of Technology

MATS BENNER, member, professor in research policy, vice dean for research, School of Economics and Management, Lund University

KERSTIN ELIASSON, member, chair of the Council for Research Infrastructures at the Swedish Research Council, chair of the Knowledge Foundation och former State Secretary

SARAH MCPHEE, member, CEO of SPP (savings and insurance)

STAFFAN NORMARK, member, professor in medical microbiology and permanent secretary of the Royal Swedish Academy of Sciences

The chair of the Young Academy of Sweden is permanently co-opted to the foundation board.

Mats Benner, Kerstin Eliasson, Jan-Eric Sundgren, Sarah McPhee and Staffan Normark. Photo: Magnus Berglund



SECRETARIAT

The activities and the foundation are headed by the CEO
ANNA SJÖSTRÖM DOUAGI.

Other people who have been employed at the Young Academy
of Sweden during its third year:

SARA ÅKERLIND, administrator during April 2013 – January 2014

ANNIKA MOBERG, head of communications from August 2013

ANNA KJELLSTRÖM, administrator from January 2014

Anna Sjöström Douagi

Photo: Marcus Marceic



Sara Åkerlind

Photo: Marcus Marceic



Annika Moberg

Photo: Marcus Marceic



Anna Kjellström

Photo: Elin Yaman



FUNDERS

The Young Academy of Sweden would like to extend our gratitude to our funders who enable us to continue our efforts to strengthen science and research. Thank you!

ERLING-PERSSONS FAMILY FOUNDATION

KNUT AND ALICE WALLENBERG FOUNDATION

MINISTRY OF EDUCATION AND RESEARCH

RAGNAR SÖDERBERG FOUNDATION

RIKSBANKENS JUBILEUMSFOND
(THE SWEDISH FOUNDATION FOR HUMANITIES
AND SOCIAL SCIENCES)

Bibliothèque Mazarine in Paris. The Young Academy of Sweden is highly appreciative of the number of interesting visits to prominent research organisations in Paris, which were arranged and carried out with support from the French Embassy in Sweden.

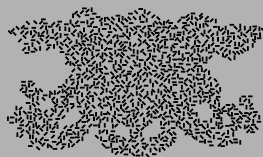
Photo: Anna Sjöström Douagi





Group photo in the making at the academy meeting in Gothenburg 2014.
Photo: Annika Moberg

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TWITTER: @UNGAAKADEMIN
FACEBOOK: SVERIGES UNGA AKADEMI



SVERIGES UNGA AKADEMI

The Young Academy of Sweden
c/o The Royal Swedish Academy of Sciences, Box 50005, SE-104 05 Stockholm, Sweden
phone +46 8 673 95 00 | info@sverigesungaakademi.se