

SUOMALAINEN TIEDEAKATEMIA

FINNISH ACADEMY OF SCIENCE AND LETTERS
ACADEMIA SCIENTIARUM FENNICA

Suomalainen Tiedeakatemia

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GREETINGS

For the benefit of science, for the good of society 2024

Tuula Linna

Freedom of expression – freedom of science

Greeting from the President

Under a democratic state governed by the rule of law, freedom of expression is the foundation of social participation. According to Section 12 of the Constitution of Finland, everyone has the freedom of expression. Freedom of expression entails the right to express, disseminate and receive information, opinions and other communications without prior prevention by anyone. Freedom of expression is not only a fundamental political right, but also guarantees freedom of science, art, culture, entertainment and other forms of selfexpression. The freedom of science, the arts and higher education are guaranteed as educational rights under Section 16 of the Constitution. Freedom of science is the freedom to choose the subject and method of research and the right to publish research results.

Traditionally, freedom of expression has provided protection against those in power and against preventive censorship. This is also reflected in Article 10 of the European Convention on Human Rights,

which guarantees freedom of expression "without interference by public authority". In contrast, the protection of freedom of expression against other users of this freedom has been given less attention, even though the development of expression platforms and technologies has taken the issue of "co-users" of freedom of expression to a whole new level. There is a lot of constructive, forward-looking civil discourse in society, but in addition, everyone has to put up with the abuse of freedom of expression by other people, including bad behaviour, vulgar expressions and unfair criticism. However, there is too much online hate and targeted harassment that goes beyond the boundaries of freedom of expression, especially on social media.

Targeted harassment usually refers to mass harassment, pressuring or hate speech directed at a specific person with the intention of interfering with their work. Targeted harassment is often directed at people who exercise public authority in their work, such as judges, prosecutors, police



officers and social welfare authorities. Another target group is people who exercise freedom of expression in their work, such as journalists, researchers and artists.

While you are allowed to criticise another person's actions, even strongly, cruel mockery or putting pressure on a person is not part of freedom of expression. Online hate and targeted harassment create a chilling effect and erode freedom of expression from within. For example, a researcher who chooses a research topic related to gender, equality, development aid or immigration issues is at risk of becoming a target. Research funding decisions can also easily cause controversy, if people feel that the research in question is useless. For example, a study on the position of women in developing countries may be subject to ridicule.

In addition to the chilling effect, the dissemination of misinformation and disinformation has a harmful effect on the freedom of expression and science. While science aims to produce the most reliable knowledge possible, data and research results may be deliberately distorted or invalidated by disinformation. For example, false information contrary to scientific evidence may be provided for example about climate change, biodiversity loss, vaccinations, cancer treatment or nutrition. Those who spread misinformation, on the other hand, may act in good faith and believe strongly in the accuracy of the information they disseminate.

According to the World Economic Forum Global Risks Report 2024, misinformation and disinformation are considered the most severe global risks over a two-year period – ahead of extreme weather events, societal polarisation and cyber insecurity. AI-generated false information is seen as particularly dangerous. On the other hand,

the result shows that the dangers of false information are now recognised: it is not only storms and floods that pose dangers, but also unfounded "information". Misinformation and disinformation threaten not only scientific results, but also democracy and the principle of the rule of law.

Academic freedom has declined across the world, according to the Academic Freedom Index (AFI) 2024 report, which assesses levels of academic freedom based on five indicators: freedom to research and teach; freedom of academic exchange and dissemination; institutional autonomy; campus integrity; and freedom of academic and cultural expression.² On average, academic freedom has regressed to where it was in 1973. Although Finland's ranking was good (13/179), it has dropped a few places since the previous report. The decline in academic freedom follows the same trend as the global decline in political rights and liberties over the last two decades. The Freedom in the World 2025 report states that the role of democracy and global freedom will continue to face serious challenges in 2025.3 Despite the decline in academic freedom, citizens in different countries still have a relatively high level of trust in scientists and science. Finland, however, ranks only in the middle of the list of countries in an international comparison published in Nature in January 2025.4 The Finnish Science Barometer 2024 study provides a different picture: Finns' trust in science has remained high and is extremely high by international comparison.⁵

Freedom and responsibility are two sides of the same coin: if we allow our liberties to be eroded, we are also reducing the responsibility of others to respect them. But what can we do to defend academic freedom? Targeted harassment should be criminal-

ised, even though criminalisation is a last resort and often not even an effective means of curbing harmful phenomena. There have been two studies in Finland on the criminalisation of targeted harassment, but there has been no political will to move the issue forward.

Representatives of the media have sometimes contacted people who have expressed extreme opinions on social media to ask whether they really meant what they said. Artificial intelligence could effectively manage this task of holding people accountable for their opinions. The EU Digital Services Act (EU) 2022/2065 could include provisions on the introduction of AI-based screening systems so that, for example, a message identified by algorithms as hate speech would be transferred into a "penalty box", where the sender would have to verify their identity and confirm the message or otherwise it would be deleted.

Or is it the case that social media is losing its power as more and more people, feeling tired or frustrated, are deleting their social media accounts? However, with billions of social media users worldwide, the decisions of individual users to boycott social media are of little consequence. It is also worth remembering that social media can be a vital lifeline for people experiencing loneliness or reduced mobility. As such, social media is not harmful, but the abuse of freedom of expression on social media is detrimental.

The people who will be exercising their freedom of expression in the future are currently sitting in classrooms. Young people need to be told that freedom of expression also includes taking responsibility for their words. Through insight, they should be shown that research-based knowledge is the foundation for health and a good life. Various "Ask a Researcher" and "Meet a Researcher" projects may spark an interest in science in a child or young person and, ideally, an appreciation for scientific outcomes. In the name of cultural and social sustainability, I want to believe that future generations will respect both freedom of expression and freedom of science.

> 11 April 2025 Tuula Linna

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Pekka Aula

Ukraine needs support – what can the scientific community do

Greeting from the Secretary General

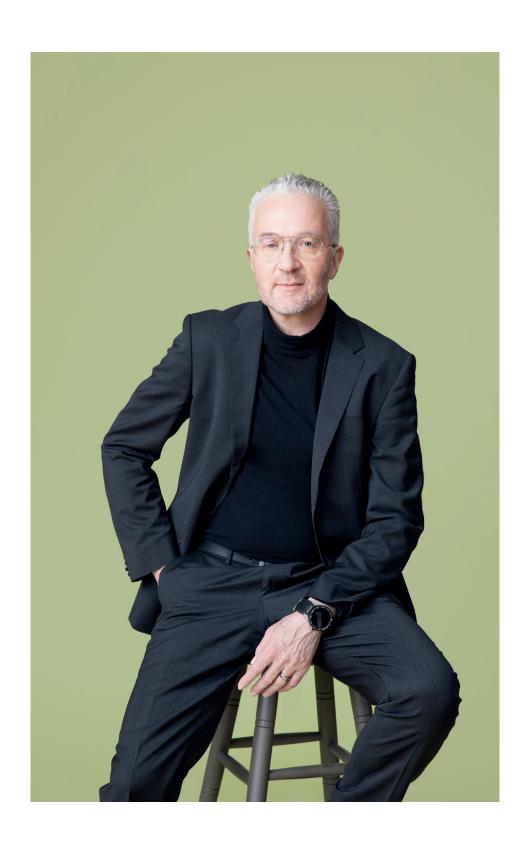
The war in Ukraine has had a profound impact on society and has dramatically affected the country's scientific community as well. Laboratories have been destroyed, infrastructure damaged and many scientists have been forced to leave the country. Despite the difficult circumstances, researchers in Ukraine are striving to continue their work. In this situation, support from the international scientific community is essential.

A seminar hosted by ETH Zurich in March 2025, entitled "Strengthening Ukraine's Science and Innovation System: A Workshop," brought together science stakeholders and government representatives from the United States, Europe and Ukraine to discuss how Ukraine's science and innovation system can survive the crisis and find a new direction. The seminar identified several ways in which the international scientific community can show its support. Meanwhile, it is worth considering what role the Finnish Academy of

Science and Letters could play in this context.

CONCRETE WAYS TO SHOW SUPPORT

The international scientific community can show its support in many different ways; one key means is to strengthen bilateral cooperation projects with Ukrainian universities, the National Academy of Sciences and research institutes. For example, the US National Academy of Sciences (NAS) is planning a programme similar to the Fulbright programme that would offer international researchers the opportunity to visit Ukraine for extended periods. The Finnish Academy of Science and Letters could also participate in this work – particularly by supporting the integration of young Ukrainian researchers into international networks and research communities.



Participation in international coalitions also provides a channel for supporting the reconstruction of Ukraine's research infrastructure, strengthening the research community, and developing the national science advisory system. The Finnish Academy of Science and Letters could play a significant role in this, particularly as a developer of international multidisciplinary science advice. Modern solutions for science advice provide decision-makers with research-based knowledge quickly and efficiently. This is exactly what is needed to support decisions made in the middle of a crisis.

Strengthening science diplomacy is also an important means of providing support. This means highlighting the importance of supporting Ukraine to decision-makers also at the national level and ensuring that the scientific community in Ukraine remains part of the international science networks. The Finnish Academy of Science and Letters has experience in such lobbying, including cooperation with the central government of Finland.

INTELLECTUAL CAPITAL OF SCIENCE ACADEMIES IS PARTICULARLY IMPORTANT

The seminar in Zurich taught us that the continuity and development of science is important for Ukraine's long-term stability. Through science, we can find solutions to the social and economic challenges caused by the war and build a foundation for future growth. This requires strengthening both human capital and intellectual capital.

Supporting science in Ukraine is not only a scientific endeavour, but also a

humanistic and social pursuit. At the heart of this multifaceted support is the idea that education, research and international cooperation can help build more permanent structures that support peace, justice and reconstruction.

In this work, the strength of academies of science lies not only in their financial resources but above all in their intellectual capital: their expertise, multidisciplinarity and extensive international networks. The Finnish Academy of Science and Letters has the opportunity to offer these resources for common use – for example by providing experts for international workshops, building cooperation with NAS and the German National Academy of Sciences Leopoldina, and continuing its efforts to strengthen science advice also in Finland.

SCIENCE PLAYS A ROLE IN UKRAINE'S RECONSTRUCTION

The role of science in Ukraine's reconstruction should be given greater prominence also in Finnish political debate. Science is not currently part of Finland's support packages for Ukraine, but it could play an important role as part of sustainable, future-oriented support.

The international community has shown that science can be a powerful force in supporting stability and development. The Finnish Academy of Science and Letters also has the opportunity to contribute to this work by making its expertise and networks available for the reconstruction of Ukraine. Supporting the Ukrainian scientific community is an investment in peace, stability and future opportunities. There are many things that the interna-

tional scientific community – Finland included – can do to ensure that research and education will remain part of Ukraine's reconstruction. Even small actions can have far-reaching consequences.

Secretary General Pekka Aula participated in the seminar entitled "Strengthening Ukraine's Science and Innovation System: A Workshop," hosted by ETH Zurich in March 2025.

17 April 2025 Pekka Aula

PRIZES **AWARDS** AND

The Academy awards prizes each year to both experienced scholars in recognition of their life's work and researchers at an early stage in their career who have already achieved international reputation.

Markku Kulmala

Academician of Science Markku Kulmala is a pioneer in the physics and chemistry of atmospheric nanoparticles and one of the leading experts in the field worldwide. Kulmala's research focuses particularly on atmospheric phenomena, interactions between the atmosphere and the Earth's surface, as well as climate change and air pollutants. His scientific work has significantly enhanced our understanding of the mechanisms affecting the climate. In recognition of his scientific career, the Finnish Academy of Science and Letters awarded him the Academy Award. The award sum is 30 000 euros.

"I started working in the forest as a young boy, planting tree seedlings and doing other forest-related work. That was the beginning of a lifelong interest," Kulmala explains.

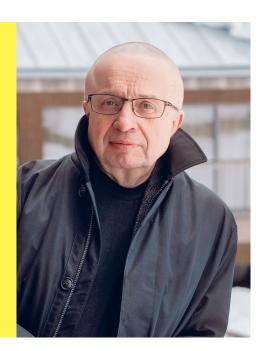
Kulmala, originally a physicist, obtained his Ph.D. in physics in 1988. His career as an atmospheric scientist was set on course during his master's thesis, which addressed the risks associated with new and renewable energy sources: "I noticed that nothing was known about the risks coming through the atmosphere to human health and nature. That's what I started to investigate."

"The Chernobyl nuclear accident in 1986 had a significant impact on my career. It made us understand how radioactive material travels through the atmosphere to forests, plants, and soil, and how substances move in the environment. A few years after the nuclear accident, we set up the first SMEAR measuring station to observe the interaction between the atmosphere and forests."

Kulmala's research group currently operates four SMEAR stations in Finland (Station for Measuring Earth Surface - Atmospheric Relations). The SMEAR II station in Hyytiälä, Southern Finland continuously measures over 1200 variables related to the local atmosphere, soil, and vegetation.

Markku Kulmala serves as a professor of aerosol and environmental physics at the

Markku Kulmala is a pioneer in the reserach of atmospheric nanoparticles



University of Helsinki. He also leads the University's Institute for Atmospheric and Earth System Research (INAR), conducting research at both the molecular and global levels. The research is multidisciplinary, based on physics, chemistry, meteorology, forestry, environmental sciences, and social sciences.

Currently, Kulmala also serves as the director of the Finnish Academy's flagship program Atmosphere and Climate Competence Center (ACCC), a project spanning eight years (2020–2028). The center develops solutions to improve climate and air quality worldwide. Its goal is to increase understanding of climate change and air pollution, provide research data to achieve climate goals, and support decision-makers.

In global atmospheric research, Markku Kulmala plays a key role, particularly as a developer of international research infrastructures. He has been involved in several international research projects and has published numerous scientific articles in top journals throughout his career.

"My dream for the future is that research stations will continue operating in Finland for the next hundred years. We have the world's longest and most comprehensive series of measurements of atmospheric aerosols, greenhouse gases, and energy flows, and we are the best in the world in this regard unless we stop our activities ourselves."

"Another dream, of course, is that there would be measurement stations not only in Finland but all around the world. They are significant so that we can respond to global challenges in the future, such as climate change, air quality, and the sufficiency of water and food."

Visa Kurki

The Prize for the Humanities is awarded to a scholar of humanistic sciences in the beginning of their career, who has already earned international renown. Prize for the Humanities is worth 15,000 euros. In 2024 the prize went to Associate Professor Visa Kurki.

Kurki works as an Associate Professor of Jurisprudence at the University of Helsinki's Faculty of Law. His research has long focused on various legal persons and is in the field of legal theory and legal philosophy.

"I wrote my Bachelor's thesis on the Finnish Animal Welfare Act, and I became interested in the question of whether an animal can be a legal person, i.e. whether an animal can have rights in the eyes of the law. I wrote my Master's thesis on this topic and thus became interested in the concept of legal personhood more broadly," Kurki says.

Kurki graduated with a Master of Laws degree from the University of Helsinki in 2012. He then relocated to the University of Cambridge in the UK, where he completed his Doctor of Philosophy (PhD) degree in 2017. His doctoral thesis, A Theory of Legal Personality, was awarded the Yorke Prize and the Salje Medal at the University of Cambridge.

Kurki's publications have received wide international attention, and his research has been cited in several animal rights trials in the United States. In addition to his own research, Kurki also serves as the director of the Helsinki Animal Law Centre where research concerning animal law is conducted.

"The treatment of animals and its connection to the sustainability crisis is one of the biggest questions of our time, but it's also an area of scientific interest because it's still so under-researched. I can thus create something truly new," concludes Kurki.

In addition to animals, Kurki has analysed and developed the concept and content of legal personhood in relation to children, legally incompetent people and artificial intelligence, among others. Cur-

Visa Kurki's reserach has focused on various legal persons



rently, Kurki is leading the ERC Starting Grant project Agency in Law, funded by the European Research Council for €1.5 million.

The project, led by Kurki, examines how the idea of agency has changed over the past decades and how new agents should be perceived. For example, children have not traditionally been considered agents who can make decisions for themselves in the eyes of the law. The concept of agency is changing, however – International agreements require children and, for example, people with disabilities to be treated as agents. Research can help both

courts and legislators to better understand the changing nature of agency.

Kurki is a member of Young Academy Finland for the 2022–2026 term. He is actively involved in the Finnish Animal Rights Law Society and the Finnish Regional Section of the International Association for the Philosophy of Law and Social Philosophy, among others. Kurki has also served as editor and editor-in-chief of several scientific publications.

Every year, many aspiring law students are introduced to the basics of the discipline through Kurki's book *Haluatko juristiksi*? ("Do You Want to Be a Lawyer?").

Eveliina Peltola

Väisälä Prize is awarded annually to distinguished scientists in mathematics and science who are in the active part of their careers. The prizes are worth 15,000 euros.

Eveliina Peltola is currently working as Associate Professor at Aalto University and as Professor at the University of Bonn in Germany. Peltola's research focuses on mathematical physics, seeking to understand the mathematics behind theories of physics. In particular, she studies two-dimensional lattice models, which describe, for example, the structure of matter, and two-dimensional field theory, which is also necessary to describe the structure of the universe.

"I have always been interested in the natural sciences. During my university studies, it became clear to me that mathematics was closest to my heart. It provided the best way for me to understand the structure of the world," says Peltola.

"I also realized that I found mathematics aesthetically most appealing: I saw

beauty and structure in it, something greater than in other subjects. In a way, this inner beauty and intuition guide the otherwise abstract study of mathematics in a concrete way."

Peltola completed her PhD at the University of Helsinki in 2016. Her journey to the University of Bonn went via Geneva, where Peltola worked as a postdoctoral researcher for three years.

Peltola currently leads a €1.4 million ERC Starting Grant project funded by the European Research Council. The project aims to bring new tools to the research of random geometry and mathematical physics models and to create connections between different areas of mathematics. Peltola is also Principal Researcher at the Research Council of Finland's Centre of Excellence in Randomness and Structures and has received funding from the Research Council for her research project Conformal invariance in planar random geometry.

Peltola has published several articles in leading journals in her field and has lec-

Eveliina Peltola's reserach is seek-ing to understand the mathematics behind theories of physics



tured at numerous international conferences and universities. She is an active member of the scientific community and has been the main organizer of major conferences. Peltola is also a member of Young Academy Finland 2020–2024 and a member of the Publication Forum Mathematics and Statistics panel 2025–2028.

For a researcher, the best moments are the ones where you discover the solution to a problem that you have been working on for a long time.

"Sometimes, when you have been thinking about a problem for a long time,

you experience an aha moment – this could be it! These are bigger highlights than any career-related achievements."

"I don't really have a favourite problem that I dream of solving, but finding solutions to certain questions and understanding them in more depth is naturally one of my goals. I also want to develop Finnish mathematics and especially mathematical physics in Finland and internationally. I also hope to show that anyone can be a mathematician, without having to fit into any particular mould," says Peltola.

ACTIVITIES

The Academy is committed to supporting high-quality research, improving the esteem in which academic work is held and increasing scholars' interaction with each other and with society at large.

Annual report of the Finnish Academy of Science and Letters

GOVERNING BOARD AND SECRETARY GENERAL

The year 2024 was the 117th year of operation of the Finnish Academy of Science and Letters. The President of the Governing Board in 2024 was Tuula Linna and the Vice President was Heikki Mannila. Hannu Vartiainen was the Treasurer of the Board, Juha Kinnunen the Secretary of the Section of Science and Päivi Pahta the Secretary of the Section of Humanities. The ordinary members were Olli Ikkala, Riitta Julkunen-Tiitto, Tiina Kinnunen and Juhani Knuuti. The Governing Board held twelve meetings during the year, two of which were e-mail meetings. Pekka Aula continued as Secretary General.

The members of the Governing Board served during the year as trustees of the Emil Öhmann Foundation and the Hilkka and Otto Brusiin Foundation.

The compositions of the committees and working groups set up by the Governing Board were as follows:

- Financial Management Committee: Tuula Linna (chairman), Heikki Mannila, Hannu Vartiainen, Pekka Aula, Juha Kinnunen, Päivi Pahta, and expert advisory members Anders Ekholm and Ralf Sunell. The secretary was Hannu Vartiainen.
- Prizes Committee: Tuula Linna (chairman), Heikki Mannila, Juha Kinnunen, Päivi Pahta, Olli Ikkala and Tiina Kinnunen. The secretary of the committee was Nina Rapelo.
- Publications Committee: editors-inchief Anna Mauranen and Risto Nieminen; Secretary General Pekka Aula, Heikki Mannila (chairman), Päivi Pahta (member, vice chairman); editors of publication series Jari Eloranta, Jaakko Husa, Heta Pyrhönen, Tapio Salmi, Hannu Sariola and Erkki Tomppo. The secretary of the committee was Anna Chydenius.
- Ethics Committee: Päivi Pahta and Juha Kinnunen. The secretary of the committee was Leila Sarajärvi.



Marcia McNutt, President of the National Academy of Sciences, visited Finland in October at the invitation of the Academy of Sciences, and held discussions at the Academy on knowledge-based decision-making and science diplomacy. Those present at the discussion at Mariankatu were Academy Secretary Jaakko Kuosmanen, President Tuula Linna, President Marcia McNutt, Vice President Heikki Mannila and Secretary General Pekka Aula.

- Working group for the amendment of the rules and strategy: Tuula Linna (chairman), Heikki Mannila, Päivi Pahta and Pekka Aula. The secretary of the working group was Leila Sarajärvi.
- Working group on statements: Tuula Linna, Heikki Mannila, Pekka Aula, Riitta Julkunen-Tiitto and Juhani Knuuti. The secretary of the working group was Nina Rapelo.
- Trustees of the Emil Aaltonen Fund: Tuula Linna (chairman), Hannu Vartiainen and Pekka Aula, together with Olavi Nevanlinna as the representative of the Emil Aaltonen Foundation. The secretary was Leila Sarajärvi.

The members of the Selection Committee for the Section of the Humanities until the Autumn Meeting 2024 were

Ilkka Arminen, Tuomas Forsberg, Petri Kuoppamäki, Marja-Kristiina Lerkkanen, Pirjo Markkola, Martti Nissinen (chairman), Minna Palander-Collin and Sirkka Saarinen. Nissinen and Saarinen stepped down in the Autumn Meeting and Pekka Ilmakunnas and Pamela Slotte Russo were elected as new members of the Selection Committee.

The members of the Selection Committee for the Section of Science up until the Autumn Meeting 2024 were Kari Enqvist, Jyrki Heino (chairman), Matti Hämäläinen, Sirpa Jalkanen, Riitta Keiski, Pekka Niemelä, Ilkka Norros and Kaisa Poutanen. Enqvist and Norros stepped down in the Autumn Meeting and Tuomo Kuusi and Johanna Mappes were elected as new members of the Selection Committee.

GOVERNING BOARD 2024

Member	Position	Term
Tuula Linna	President, chairman of the Governing Board	2024-2025
Heikki Mannila	Vice President, vice chairman of the Governing Board	2024-2025
Hannu Vartiainen	Treasurer	2024-2028
Päivi Pahta	Secretary, Section of Humanities	2024-2028
Juha Kinnunen	Secretary, Section of Science	2024-2028
Olli Ikkala	member	2024 (1st term)
Riitta Julkunen-Tiitto	member	2024 (2nd term)
Tiina Kinnunen	member	2024 (2nd term)
Juhani Knuuti	member	2024 (1st term

MEMBERSHIP

The Finnish Academy of Science and Letters had 847 ordinary members, 159 external members and seven honorary members at the end of 2024. Altogether 19 new ordinary members and two new external members were elected in the Spring Meeting on 19 April.

The new members elected to the Section of Science were Gerrit Groenhof (University of Jyväskylä), Mark Hindmarsh (University of Helsinki, University of Sussex), Camilla Hollanti (Aalto University), Juha Huiskonen (University of Helsinki), Peter Johansson (University of Helsinki), Pekka Katajisto (University of Helsinki), Tuukka Petäjä (University of Helsinki), Arri Priimägi (Tampere University), Mari Sandell (University of Helsinki), Tuuli Toivonen (University of Helsinki) and Xiao Zhong (University of Helsinki).

Altogether 21 new members were elected in the Spring Meeting

The new members elected to the Section of the Humanities were Erkko Autio (Imperial College London), Louis Clerc (University of Turku), Marjaana Helminen (University of Helsinki), Johanna Kantola (University of Helsinki), Teija Kujala (University of Helsinki), Sari Lindblom (University of Helsinki), Sari Pietikäinen (University of Jyväskylä) and Roope Uusitalo (University of Helsinki, VATT).

The new external members were Jukka-Pekka Onnela (Harvard University) and Arttu Rajantie (Imperial College London). The facilities of the Academy on the 2nd floor at Mariankatu were available to members and they were actively reserved over the course of the year.

The Academy mourned the deaths of the following ordinary members: Markku Filppula, Tapani Harviainen, Veikko Jääskeläinen, Jaakko Kangasjärvi, Jorma Keski-Oja, Pekka Korhonen, Henrik Lilius, Jukka Nevakivi, Lauri Niinistö, Annamari Ranki, Kalevi Suominen, Kari-Pekka Tiitinen, Nikolai Tkachenko, Jari Valkonen and Olli-Pekka Vehviläinen.

News was also received of the death of external members Walter J. Heikkilä, Rolf Jeltch, Lars-Göran Nilsson and George Picket.

GRANTS

The Finnish Academy of Science and Letters distributed over 2.7 million euros in grants in 2024. The majority of these grants were for young post-graduate researchers.

Grant applications were reviewed by reviewers appointed by the Governing Board of the Academy, who then prepared recommendations on the grants to be awarded. The final decisions were made by the Board on the basis of the reviewers' recommendations. The possible conflicts of interest of grant reviewers and the board members have been taken into account when processing the grants of the funds and foundations administered by the Academy.

A full-year grant for post-graduate study was worth 27,000 euros. No grants were awarded to Academy members.

This was the 60th time that grants for research in mathematics and natural

sciences were distributed from the Vilho, Yrjö and Kalle Väisälä Fund. Approximately 1.69 million euros (1.65 million in 2023) was awarded in grants. The fund received a total of 326 (305) applications, with a combined sum of roughly 7.4 (6.9) million euros.

Grants from the Väisälä Fund were awarded to 74 (75) applicants. These included 54 (53) post-graduate grants of 27,000 euros for full-time academic study for a duration of one year and 12 (18) grants for part of a year. In connection with the post-graduate grants, 8 (0) grants were also awarded for research costs. A total of 6 (4) grants were awarded for short-term research visits abroad.

The Väisälä project grants of the Finnish Academy of Science and Letters were awarded for the second time this year. These grants are intended for researchers working in Finland at the early stages of the tenure track to set up their research group and cover the group's research costs. The three-year project grant worth 150,000 euros was awarded to two researchers.

The Eino Jutikkala Fund distributed grants for research in the humanities for the 17th time. The application fields under the Academy's Section of the Humanities are divided into two baskets, and applications in archaeology, history, jurisprudence and social sciences were invited this year. The fund received a total of 272 (294 in 2023) applications, amounting to roughly 7.6 (7.9) million euros altogether. Due to the division into baskets, the figures are not directly comparable between two consecutive years.

Grants from the Jutikkala Fund were awarded to 19 (19) applicants, about 519,060 (499,640) euros in total. A total

of 3 (2) grants were awarded for research costs in addition to post-graduate grants. All these grants were for the commencement of doctoral studies.

The Academy's Mathematics Fund distributed roughly 35,700 (32,440) euros in grants and prizes. The Emil Öhmann Foundation, managed by the Academy, distributed 56,900 (57,000) euros in grants. The foundation also awarded 3 (2) grantees an Institute grant worth 3,000 (3,000) euros for short-term research at the Finnish Institute in Germany in Berlin. The Hilkka and Otto Brusiin Foundation, managed by the Academy, distributes grants every two years, and awarded 50,700 euros in grants in 2024 (48,200 in 2022).

The year 2024 was the ninth year in which the Academy took part in the Finnish Foundations' Post Doc Pool. The grants awarded in 2024 amounted to 160,000 euros from the Väisälä Fund and 42,000 euros from the Jutikkala Fund.

PRIZES

The 2024 Academy Award of the Finnish Academy of Science and Letters, a sum of 30,000 euros, was presented to Academician of Science Markku Kulmala for his influential career. Kulmala was also presented with Academy Medal No. 40.

The Finnish Academy of Science and Letters Prize for the Humanities, amounting to 15,000 euros, was awarded to Associate Professor Visa Kurki.

The Academy's Väisälä Prize 2024 was awarded to Professor Eveliina Peltola. The prize was awarded for the 26th time and it is worth 15,000 euros.

During the year under review, the Academy nominated candidates for the



The new members of the Finnish Academy of Science and Letters in 2024 were celebrated at the House of Nobility in September.

following prizes: Balzan Prize, Gad Rausing Prize, Keio Medical Science Prize, Körber Prize and Louis-Jeantet Prize. As for national awards, the Academy nominated a candidate during the year for the Science Award of the Federation of Finnish Learned Societies.

THE HISTORY OF SCIENCE IN FINLAND

The year saw the continuation of the History of Science in Finland project,

launched the previous year, with the Finnish Academy of Science and Letters and the Finnish Society of Science and Letters as the project coordinators. The aim of the project is to produce new knowledge, a series of books and an online database on the history of science in Finland during its independence. The project makes extensive use of individual interviews and recollections. The project manager is Stefan Nygård who works at the Academy, and the editors of the upcoming book series are Heini Hakosalo, Henrik Meinander and Jari Ojala. The steering group of the

project includes representatives from seven organisations.

During the year, the project received significant additional funding from the Alfred Kordelin Foundation (Major cultural projects, 270 000 euros) and the Society of Swedish Literature in Finland (498 000 euros), in addition to support from the project initiators (the Academy and the Society of Science and Letters). The project has also received funding to establish a Nordic cooperation network with Lund University. Docent Katariina Parhi and PhD Heikki Mikkonen were recruited for the project.

The project has received some 70 written submission to the oral history and individual recollections of the History of Science in Finland – organised in cooperation with the Finnish Literature Society (SKS) and the Society of Swedish Literature in Finland (SLS). In terms of SKS, the collection of recollections closed on 31 December 2024. SKS will however continue to accept individual submissions in 2025. As for SLS, the collection will continue and recollections in English can also be submitted. A collaboration with SKS was launched to add biographies of scientists to the National Biography of Finland.

The interviews for the project started in autumn 2024 (aiming for around 200 interviews in total). The first group of interviewees consists of Academicians of Science. During the year, the project has engaged in extensive cooperation and coordination discussions with major partner organisations (National Library, National Archives, SKS and SLS). Researchers have communicated about the project by giving presentations at various universities and scientific organisations, writing blog posts, visiting podcasts and organising discussion events.

MEETINGS AND EVENTS

During 2024, the Finnish Academy of Science and Letters organised public events throughout the year, with the exception of the summer months. Evenings dedicated to science were held at the House of Nobility. The events were also streamed live online. These events gathered a total of approximately 1,200 participants. The recordings of the events are available for the time being on the website of the Academy.

- 12 Feb. Ilta tieteelle: Mitä nuorille kuuluu? ("Evening dedicated to science: How are young people doing?")
- Speakers: Professor Päivi Honkatukia, Professor Emeritus Hannu Simola and Programme Director Kristiina Laitinen
- 11 Mar. Ilta tieteelle: Tieto ja turvallisuus ("Evening dedicated to science: Information and security")
- Speakers: Professor, Colonel Aki-Mauri Huhtinen, Professor Mikko Siponen, Professor Sasu Tarkoma and Professor Katja Valaskivi
- 9 Sept. Ilta tieteelle ("Evening dedicated to science")
- Speakers: Academician of Science Kaisa Häkkinen, Professor Johanna Kantola and Professor Arri Priimägi
 Oct. Ilta tieteelle ("Evening dedicated to science")
- Keynote speaker: Academician of Science Martti Koskenniemi, on the theme of the language of law as part of modern warfare
- The Finnish Academy of Science and Letters Prize for the Humanities was presented at the event and the grantees of the Eino Jutikkala Fund, Emil



In autumn 2024, Academicians of Science Kaisa Häkkinen (pictured), Martti Koskenniemi and Riitta Hari spoke at public events organised by the Academy at the House of Nobility.

Öhmann Foundation and Hilkka and Otto Brusiin Foundation were announced

11 Nov. Ilta tieteelle: Disinformaatio: onko taistelu jo hävitty? ("Evening dedicated to science: Disinformation: is the battle already lost?")

- Discussion by CEO of Finnish
 Broadcasting Company Merja YläAnttila and Professor Tuula Linna,
 President of the Finnish Academy of
 Science and Letters
- 9 Dec. Ilta tieteelle ("Evening dedicated to science")
- Keynote speaker: Academician of Science Riitta Hari, on the theme of the connections between neuroscience and art
- The Väisälä Prize of the Finnish Academy of Science and Letters was

presented at the event and the grantees of the Vilho, Yrjö and Kalle Väisälä Fund were announced

Each evening was preceded by an informal meeting exclusively for members at the facilities of the Academy at Marian-katu.

A Science Matinee was organised for members on 16 May at the Väisälä Hall of the Academy. The theme of the event was "How is AI changing science?" The topic was presented by Professor Samuel Kaski.

During the year, the Academy also engaged in cooperation with other parties in the field in terms of events:

25 Jan. "Laidunmaista sivistykseen – Kruununhaan kiehtova historia" ("From pas-

tures to civilization – the fascinating history of Kruununhaka")

- Event organised as part of the Night of Science at the facilities of the Academy on Mariankatu
- Speakers: Professor Laura Kolbe and Docent Stefan Nygård
- 29 Jan. "The Europeanisation of Research and Higher Education: A Perspective from the History of Knowledge"
- Seminar organised as part of the History of Science in Finland project at the facilities of the Finnish Society of Science and Letters
- Speakers: Professor Johan Östling and Professor Marja Jalava
- 17 Apr. UniOulu Science Day
- The Academy has traditionally organised one event per calendar year in cooperation with a Finnish university. In 2024, this event was organised in cooperation with the University of Oulu. The day included workshops and presentations.
- 12 Sept. "Vaikuttavaa tutkimusta nuorten tutkijoiden iltapäivä" ("Impactful research an afternoon for young researchers")
- Training in cooperation with Young Academy Finland and the Committee for Public Information at the House of Science and Letters
- The training focused on the impact of research and was open to all researchers in the early stage of their careers.
- 3 Oct. "Policy for Public Good: Does Science Matter"
- Public lecture by NAS President Marcia McNutt at Aalto University.
 President McNutt visited Finland at the invitation of the Academy.
- 24 Oct. "Great Nobel debate"
- In cooperation with other academies of science and Helsingin Sanomat.

- Sanoma House and live stream online
- The event featured presentations on the 2024 Nobel laureates, their research topics and the significance of their research

The meetings of the sections of the Finnish Academy of Science and Letters were held in March at the House of Science and Letters. In terms of regular meetings, the Spring Meeting was held in April at Musiikkitalo and the annual gala dinner at Grand Central Helsinki. The Autumn Meeting was held in November at the Mariankatu facilities of the Academy.

Of the groups of the Academy, the Geosciences group organised two public events at the facilities of the Academy during the year: "Satellite positioning in our uncertain world" and "Geospatial modelling of urban dynamics and sustainability".

SCIENCE AND POLICY

During 2024, the Academy's Science and Policy activities strengthened both national and international visibility, produced knowledge syntheses for the Prime Minister, conducted science sparring with the Prime Minister's Office and piloted the use of artificial intelligence. In addition, materials focused on promoting research impact were published, including an online course, an English version of the Researcher's Handbook on Science-for-Policy and a toolkit for knowledge brokers.

Over the course of the year, more than 150 researchers and 20 research organisations contributed to the Science and Policy activities. The activities were strengthened by the recruitment of an AI expert and a

writing professional with a background in journalism. The results of this work were widely publicised in the media. The content of the knowledge syntheses was featured in several national media outlets such as Helsingin Sanomat and Yle, and for example a news article in MustRead about the knowledge synthesis on economic growth was the most read article of the week. International recognition was also received in Nature, where the activities were described as worthy of international attention. We acted as strategic advisors for a seven-country science advisory project run by the European Commission and the OECD.

The Academy issued three statements in response to requests during the year: concerning Finnish Government's proposal for a law amending the Act on the Academy of Finland, the report on updating the Act on the Openness of Government Activities, and the multiannual plan on the use of research and development funding. Jaakko Kuosmanen represented the Academy and was heard as a science and foresight expert at the Parliament's Human Rights Centre.

Highlights of the activities in 2024:

• Production of written knowledge syntheses. Five knowledge syntheses were produced during the year: 1) Creating economic growth in Finland: researchers' views; 2) Bullying and violence among children and young people; 3) Science brief: People with a foreign background in Finland; 4) Science brief: Wellbeing and characteristics of young people aged 15–19 in Finland; 5) Ecological connectivity in land use planning. The first three of these were produced at the request of the Prime Minister's Office. In addition, a new digital format for knowledge syntheses was tested by pro-

- ducing the web-based Näkökulmain tool on the theme "AI becoming more common in diagnostics: will it make hospitals more efficient?
- Researcher's Handbook. During the year, a version of the Researcher's Handbook for the international scientific community was published. The Handbook has been disseminated through several international networks (such as SAPEA, INGSA, Global Young Academy). The Handbook has also been widely disseminated in Finland. The first print edition was sold out and received a highly positive review in the journal Tiedepolitiikka.
- Science sparring. A science sparring sprint was launched in autumn 2024 to further strengthen the science sparring model. Sparring was carried out with the Prime Minister's Office (Monitoring and Evaluation Plan for State R&D Funding, Prime Minister's Office); Systemic work on demographic change (Prime Minister's Office, DE-MOGRAPHY programme); and with the Ministry of the Environment (implementation of the EU Nature Restoration Regulation, Ministry of the Environment, Ministry of Agriculture and Forestry, scientific panels). The sprint will continue in 2025.
- Harnessing artificial intelligence. Early
 in the year, an AI pilot in collaboration
 with medical foundations was completed, where funding applications
 were analysed using a language model.
 AI was also used e.g. to produce knowledge syntheses and to analyse large
 public data sets for science-for-policy
 (e.g. data from parliamentary hearings).
- International cooperation and dialogue. The Academy was involved in

the organisation of The International Network for Governmental Science Advice (INGSA) conference in Kigali in May. We also presented our impact training work and our AI pilots at the event. International networks were strengthened with countries such as Canada, Singapore, Japan and the UK. Keynote presentation invitations were received from Quebec and Brussels. Direct discussions were held with representatives from 15 different countries.

The following activities and events also took place during the year under review:

- Roundtable on the future of scientific publishing
- Meetings of the network of knowledge brokers (spring and autumn)
- International Risk and Evidence-Informed Decision-Making seminar
- Impact sparring for SRC programme managers
- University of Oulu Impact Days seminar as part of UniOulu Science Day
- Science-Policy Dialogue event with the Swiss Academy of Sciences
- Science, AI and foresight dialogue with the US Department of State
- "Vau, mikä vaikutus!" podcast: How can knowledge brokerage help promote impact?
- International Capacity Building Workshop for Knowledge Brokers, TSI Project, EU & OECD, speech
- Organising the seminar "Impactful research an afternoon for young researchers" in cooperation with the Committee for Public Information & Young Academy Finland
- Hanken School of Economics: Researcher's Handbook on Science-for-Policy seminar

- Science for Policy podcast: On writing a handbook for Finnish researchers
- Sustainability Science Days panel discussion (How Can We Design Effective Science-Policy Interface? Learning from the Best Practices and Experiences from Future Earth's National Committees)
- STN-Literacy summer days, speech
- Workshop of the CoE in the History of Experiences, speech
- Launch of the RESET Profiling Action panel discussion
- Two roundtables focused on the Finnish science and policy system
- "Vau, mikä vaikutus!" podcast: How does evidence-based knowledge reach policy-makers?
- ACCC Flagship Impact Week workshop (Impact Café: Tools and channels to enhance the impact of research)

INTERNATIONAL ACTIVITIES

In 2024, the Finnish Academy of Science and Letters strengthened existing international relationships and built new strategic relationships, particularly with frontline actors working with science-for-policy. During the year, the Academy carried out country visits to Canada (including the Prime Minister's Office, Royal Society of Canada, McGill University, Quebec Research Foundation) and Singapore (Prime Minister's Office, Singapore National Academy of Science, National University of Singapore, National Research Foundation). The Academy also co-organised an international conference of The International Network of Governmental Science Advice (INGSA) in Kigali, Rwanda. In Brussels, it participated in panel discus-



In 2024, several Science sparrings were organised at Mariankatu. Science sparring is an interactive scientific support between researchers and decision-makers to strengthen the knowledge base for policy-making.

sions at the Joint Research Centre (JRC) of the European Commission and gave the keynote opening lecture at the national foresight days in Quebec. The Academy hosted a seminar on Risk and Evidence-Informed Policy-Making, bringing together representatives from five countries, a dialogue on AI and foresight for the US Department of State and a dialogue on science-for-policy with the Swiss Academy of Sciences SCNAT. NAS President Marcia McNutt visited Finland in October at the invitation of the Academy and held discussions at the Academy on the topics of science-for-policy and science diplomacy.

Contacts with international scientific organisations by the Finnish Academy of Science and Letters took place mainly under the auspices of the Council of Finnish Academies (CoFA), the cooperative body for the science academies in Finland. The President was a member of the executive committee of CoFA, and the Vice President acted as the deputy. The Secretary General was also a member of the executive committee, but without a vote. The Academy was represented on CoFA's International Affairs Committee (IAC) by Anna Mauranen, who also acted as the chairman of the committee, and by Kimmo Kaski. The chairman of CoFA's Human Rights Committee was Liisa Laakso.

CoFA plays an important role in the reform of the Finnish system of academies of science and will be crucial in determining the direction this system will take in the future. Within the framework of their agreement, the academies of sci-

ence will participate even more actively in developing the scientific community and its internationalisation.

Through the medium of CoFA, members of the Finnish Academy of Science and Letters held positions of trust in several international scientific organisations: Mats Gyllenberg and Craig Primmer in EASAC; Anna Mauranen, Ahti Salo and Mari Vaattovaara in ISC; Mika Kajava in UAI; Liisa Laakso in the International Human Rights Network; Risto Kunelius, Päivi Pahta and Krista Varantola in ALLEA; Jukka Seppälä in SAPEA; and Elina Ikonen in IAP.

The Academy appoints members to various national committees. The representatives on the National Committee for Radio Science (URSI) were Esa Kallio and Karri Muinonen, with Ilya Usoskin as the deputy. Kimmo Kahma was the representative on the Finnish National SCOR Committee, Juha Pekka Lunkka on the National Committee for Quaternary Research (INQUA), Ilkka Norros on the National Committee on Theoretical and Applied Mechanics (IUTAM) and Juha Pekka Lunkka on the National Committee for Geology (IUGS).

The Academy was represented by President Tuula Linna and Secretary General Pekka Aula at the Science and Technology in Society (STS) Forum in Kyoto, Japan.

YOUNG ACADEMY FINLAND

The year 2024 was the seventh full year of operation for Young Academy Finland (YAF), founded with the aim of promoting science, especially from the viewpoint of young researchers who are just starting their academic careers. The Board of Young

Academy Finland was chaired by Lasse Lehtonen. Young Academy Finland had a total of 79 members and 95 alumni at the end of 2024.

The establishment of Young Academy Finland was to a large extent made possible by the donation of one million euros in 2017 from the Emil Aaltonen Foundation to the Finnish Academy of Science and Letters for establishing YAF. A separate Emil Aaltonen Fund was set up as a result of this donation. Young Academy Finland works in association with the Finnish Academy of Science and Letters. It issues its own annual report every year and submits it to the Governing Board of the Academy.

PUBLICATIONS

Two issues of Annales Academiae Scientiarum Fennicae (AASF), the multidisciplinary publication series of the Finnish Academy of Science and Letters, were published as planned: AASF 1/2024 in June and AASF 2/2024 in December. The issues contained a total of 11 research articles and featured all three languages of the publication - Finnish, English and Swedish. In addition, two new sections, "Keskustelua" ("Discussion") and "Foorumi" ("Forum") were added to the series. The publication is freely available online at journal.fi and is also sold at Bookstore Tiedekirja. The editors-in-chief of the series are Anna Mauranen and Risto Nieminen and the editorial assistant is Anna Chydenius.

The Year Book of the Academy 2023 was published in 2024 in Finnish and in English. The Year Book is freely available online on the Academy's website. The print version of the Year Book is sent to all mem-

bers and stakeholders and is also sold at Bookstore Tiedekirja. The editor-in-chief of the publication is Pekka Aula, and the editorial assistant is Nina Rapelo.

During the year, the following publications were produced, mainly under the Science and Policy theme: Researcher's Handbook; Talouskasvun luominen Suomessa: tutkijoiden näkemyksiä ("Creating economic growth in Finland: researchers' views"), a report for the Prime Minister's Office; Will AI revolutionise the work of doctors? infographic; Miten kiusaamista ja väkivaltaa voidaan torjua? ("How can bullying and violence be prevented?"), a knowledge synthesis for the Prime Minister's Office: Science briefs: 15-19-vuotiaiden nuorten hyvinvointi ja erityispiirteet Suomessa ("Wellbeing and characteristics of young people aged 15-19 in Finland") and Ulkomaalaistaustaiset Suomessa ("People with a foreign background in Finland") for the Prime Minister's Office; Ekologinen kytkeytyvyys ja luonnon monimuotoisuus alueidenkäytön suunnittelussa ("Ecological connectivity and biodiversity in land use planning") for the Ministry of the Environment; and online articles "Tekoälyä tutkijoille: Kielimallit sopivat kokeneen tutkijan käyttöön" ("AI for researchers: language models are suitable for experienced researchers"), "Ihmisen ja koneen yhteispeli kirjallisuuskatsauksissa" ("Human-machine interplay in literature reviews") and "Mitä tutkijan tulee tietää tekoälyn läpinäkyvyydestä?" ("What a researcher should know about AI transparency").

The Academy received a government grant of 19,900 (25,000 in 2023) euros for its publications; the grant was for the AASF series. Exchange of the Academy's publications is managed by the Exchange Centre for Scientific Literature run by the

Federation of Finnish Learned Societies. The Academy had 44 (53) overseas exchange partners at the end of the year 2024, and a total of 45 (54) publications were sent out in this way.

In 2024, the revenue from publication sales was approximately 5,100 euros (c. 9,500 euros in 2023).

Two issues of AASF series were published as planned in 2024

A joint publishing committee was established in the beginning of 1996 to coordinate the publications of the Finnish Academy of Science and Letters and the Finnish Society of Sciences and Letters. The committee is elected for a three-year term, and a representative of either the Academy or the Society is elected as chairman of the committee in alternating terms. The representative of the Academy for the 2024–2026 term is Tiina Kinnunen.

COMMUNICATIONS

Letters to members and invitations to public events were sent to the Academy's members using a newsletter tool. The letter sent to members was published 11 times during the year. The Academy's Newsletter, which is sent to the stakeholders of the Academy and can be subscribed to on the Academy's website, was published twice during the year.

The website was developed during the year to better meet the demands of



The theme of the Night of Science in January 2024 was the history of Kruununhaa. A packed audience in Mariankatu heard a presentation by Professor Laura Kolbe, among others.

increased activities. In particular, the Science and Policy as well as Publications sections were developed. During the year, news were actively published on the website: a total of 131 news articles were posted. The website had a steady flow of visitors throughout the year, and the number of visits was approximately 50,000 during the year. The most popular content included the list of new members of the Academy, the Researcher's Handbook and the grants and prizes awarded by the Academy.

In addition to the website and the newsletters, the key communication channels of the Academy were Facebook, LinkedIn, X and to some extent Instagram. A press release distribution service and a media monitoring tool were used in external communication. Communication was systematically carried out while taking into account the defined target groups, key messages and channels.

Video productions were one of the priorities in communications. During the year, videos were produced, for example, on the winners of the Academy Award and the Prize for the Humanities and the doctoral course series. Videos were also produced on topics such as "Why is science important?" and the impact of the nature footprint on our society.

Communications were planned and executed widely in the Communications Team, which also includes individuals from the Administrative Team and the Science and Policy team.

FINANCES AND ASSET MANAGEMENT

The Financial Management Committee, the advisory body of the Governing Board on financial matters, consisted in 2024 of Tuula Linna (chair), Heikki Mannila, Hannu Vartiainen, Juha Kinnunen, Päivi Pahta and Pekka Aula. Anders Ekholm and Ralf Sunell served as expert advisors. The Academy's assets were managed in accordance with the investment strategy for the Academy itself, its funds and the foundations under its administration. This strategy was updated in 2021.

The total value of the assets held by the Academy and its various funds at the end of 2024 was approximately 223 million euros (208 million euros at the end of the previous year), with a further sum of 5 million euros held by the foundations under the Academy's administration at the end of 2024. These assets, comprising portfolios of shares and bonds, shares in Vaisala Oyj, and alternative investments, were managed by Nordea and Evli. Alternative investments consist of the property at Mariankatu 5 and units in real estate funds, as well as private equity investments, the most significant of which are units in the Hamilton Lane Club Fund. The return on investment assets, consisting of dividends, interest, rents and changes in the value of assets, was 15.3% in the year under review (6% in the previous year). The return on the portfolio excluding the Vaisala Oyj shares was 11.3% (8% in the previous year). During 2024, Vaisala Oyj's K shares were exchanged for listed A shares, of which 686 thousand shares have been sold. The proceeds from the sale are included in the Academy's other investment assets and are treated as part of the Academy's asset management.

The auditor of the Academy's accounts and administrative procedures in 2023 was KHT auditor Riku Kärnä, with KHT auditor Helena Sinisalo as his deputy.

STAFF

The Academy's Secretary General was Professor Pekka Aula. Leila Sarajärvi served as the Academy's Administrative Manager, Nina Rapelo as Administrative Secretary, Emilia Lähde as Administrative Assistant and Säde Kunnas as Coordinator from October. The Head of Communications was Anna Chydenius, and the Communications Specialist was Aleksi Kylmälahti. The part-time Science Coordinator of Young Academy Finland was Riikka Hiltunen. The service "Meet a Researcher" was coordinated by Kim Krappala, and the same service in Swedish by Seija Taipale.

The Science and Policy team consisted of Academy Secretary Jaakko Kuosmanen, Knowledge Broker Iiris Koivulehto until her family leave in May and, as her deputy, Laura Väliniemi from September. The Phenomenon Map project involved Knowledge Brokers Vaula Helin until November, Linda Lammensalo, Antti Kailio, and, working part-time, Laura Perälä, Lauri Pykälä and, from October, Aleksis Oreschnikoff.

The staff of the Academy attended a wide variety of training events and seminars. During the year, events were also organised on the theme of well-being at work.

During the year under review, the Academy paid a salary or remuneration to a total of 70 people.

OTHER ACTIVITIES

Pekka Aula represented the Academy at the annual general meeting of the Mariankatu 5–7 property company in May and the extraordinary general meeting in August. Pekka Ilmakunnas was the representative of the Academy on board of the property company and also served as chair of the board until the annual general meeting. At the annual general meeting, Hannu Vartiainen was elected as the new representative of the Academy on the board.

During the year, the Governing Board of the Academy proposed members for several working groups and bodies by request. The Academy has representatives in several institutions and organisations both in Finland and abroad.

The Academy is a member of the Association of Finnish Foundations and the Federation of Finnish Learned Societies (TSV). It was represented on the board of TSV by Heta Pyrhönen (deputy Johanna Mappes) and Kimmo Kaski (deputy Tuula Linna). Leila Sarajärvi represented the Academy at TSV's spring meeting in March, and Pekka Aula at its autumn meeting in September. The Academy was represented by Kimmo Kaski on the programme committee of the Science Forum and Pekka Aula on the steering committee.

The Academy was represented on the Board of Directors of the Alfred Kordelin Foundation by Jukka Seppälä (deputy Kimmo Kaski) and Anna Mauranen (Mari Vaattovaara). The representatives in the Foundation's section for science were Sami Pihlström (Tuomas Forsberg) and Tapio Mappes (Gabriel Sandu). The representative in the section for public education was Markku Löytönen (Risto Nieminen), and in the section for literature Sari Kivistö (Tomi Huttunen). Helmi Järviluoma-Mäkelä (Arto Haapala) sat in the section for arts.

The Academy's representatives on the Finnish Zoological and Botanical Publish-

ing Board were Jaana Bäck and Riitta Julkunen-Tiitto, while Tapio Raunio represented the Academy in the Foundation for Foreign Policy Research. The Academy's representative in the Finnish Foundations' Post Doc Pool was Anna Mauranen, with Kaisa Nyberg as her deputy, and Secretary General Pekka Aula served as the Academy's representative on the national LUMA Advisory Board. Anna Mauranen was nominated by the Academy as a member of the Board of Directors of the Finnish Research Impact Foundation.

The following members of the Academy sat on the scientific councils of the Research Council of Finland at the end of 2024: Petri Karonen and Matti Miestamo on the Scientific Council for Social Sciences and Humanities; Ari Jokinen, Timo Repo and Marjo Yliperttula on the Scientific Council for Natural Sciences and Engineering; and Jussi Kukkonen, Toni Laaksonen, Jorma Palvimo and Anne Toppinen on the Scientific Council for Biosciences, Health and the Environment. Petri Karonen and Jussi Kukkonen also acted as chairs of their respective councils. Klaus Elenius, Johanna Myllyharju as chair and Kirsi Tirri have served on the Board of the Research Council of Finland. Anne Kovalainen has been a member of the Strategic Research Council.

Risto Nieminen was the Academy's representative at the annual meeting of the Finnish Zoological and Botanical Publishing Board in March. The Academy was represented by Pekka Aula at the spring and autumn meetings of the Association of Finnish Foundations. Hannu Vartiainen represented the Academy at the shareholders' meeting of Vaisala Oyj in March.



Does the history of science matter?

The significance of the history of science is not limited to listing past achievements or collecting historical anecdotes. The history of science offers us multidimensional insight into the nature of scientific thinking, the interaction between scientific and other activities in society, and the relationship between local and global scientific communities.

The history of science reminds us, for example, that major changes rarely occur suddenly or are brought about by individual people. Bruno Latour, who studied the relationship between science and society (Les Microbes: guerre et paix, 1984), has questioned the myth of Louis Pasteur as a lone hero scientist. Latour argues that the success of Pasteur's microbiological discoveries was not only due to scientific breakthroughs, but also to how Pasteur managed to link his work to broader societal interests and networks. Pasteur's success was based on his ability to shift the interests of different actors so that they began to support his scientific endeavours. Farmers, hygienists, doctors and politicians came to see Pasteur's microbiological work as a solution to their problems. Therefore, scientific innovation did not succeed simply because of its intrinsic scientific value, but because it mobilized a strong support network around itself. In a way, Pasteur expanded his laboratory into society and brought society into his laboratory.

Charles Darwin's theory of evolution can in turn be positioned within the structures of colonial power. Darwin's famous voyage on the HMS Beagle (1831–1836) was a mapping expedition that combined the goals of science and empire. The colonial infrastructure enabled access to global ecosystems and the collection of samples from around the world, even though Darwin himself was critical especially of slavery. In a Latourian sense, the success of the naturalist was based on his ability to create networks that combined the interests of science, natural history collecting, the British Empire and Victorian society.



The History of Finnish Science project makes extensive use of interview and memoir data. Interviews for the project started in autumn 2024, and the first group of interviewees consisted of Academicians of Science. One of the interviewees was Academician Ilkka Niiniluoto.

These examples show how scientific production is intertwined with broader social and international structures. The history of academies of science can also be viewed in this light. Scientific academies and societies founded in the mid-17th century, such as the Royal Society in London and the Académie des Sciences in Paris, created a model for public expert debate based on rational argumentation and empirical evidence. This model of public debate later expanded to include discussion of social issues and had a significant impact on the development of modern democracy and civil society.

When studying the history of science in individual countries, such as Finland, the

focus can be on both local characteristics. and the interaction between national and international scientific life. From a comparative perspective, women entered the field of science relatively early in Northern Europe. Lydia Sesemann, a chemist from Vyborg, was one of the first women to earn a doctorate in chemistry in Europe (Zurich, 1874), while mathematician Sofya Kovalevskaya became the first female professor of mathematics in Sweden in 1884. Chemist Johan Gadolin and explorer A. E. Nordenskiöld put Finnish and Nordic scientific achievements on the European stage by documenting unique natural and cultural phenomena – scientific practice often served both universal knowledge and the formation of a regional or national identity. The development of the Nordic welfare state is an example of the interaction between science and the history of society in a later

The history of science reminds us that major changes rarely occur suddenly or are brought about by individual people

period: after the Second World War, economic and social policy researchers, such as Gunnar Myrdal in Sweden and Pekka Kuusi in Finland, built the theoretical foundation for the Nordic welfare models.

These are the types of questions and perspectives that guide the project on the history of science in the Republic of Finland, which was launched by the Finnish Academy of Science and Letters and the Finnish Society of Sciences and Letters. The planned publications of the project are a continuation of the Society's multi-volume series on the history of sciences during the period of autonomy and the series edited by Päiviö Tommila and Allan Tiitta at the turn of the millennium on the history of science in Finland from the Middle Ages to the end of the 20th century. Since the publication of these works, research into the history of science has expanded in two directions. Alongside the history of science, we now have the history of knowledge, which studies all forms of knowledge, their production, dissemination and use in society, regardless of whether they have emerged through scientific methods or not. The global history of science, on the other hand, has broadened our understanding of the emergence of scientific knowledge as a complex, interactive process influenced by many cultures and information systems around the world, as exemplified by Darwin and Pasteur.

> Stefan Nygård Project manager The History of Science in Finland



Professor Yrjö Väisälä working with his assistants at the Department of Physics at the University of Turku in the 1940s. On the right, observer Liisi Oterma, in front of the bookshelf Professor Yrjö Väisälä, and in the middle, under the ceiling light, assistant V. Laiho.

Image: Pekka Kyytinen / National Board of Antiquities

Väisälä project grant of the Finnish Academy of Science and Letters

The Väisälä project grants, worth 150 000 euros each, were awarded by the Finnish Academy of Science and Letters for the second time this spring. The awarded grants will be used to study algebraic geometry and the movements of the Earth's crust in Antarctica.

Forms of support for setting up a research group are rare in Finland. "All the applications we received this spring were of outstanding scientific quality," says Vice-President of the Academy, Professor Heikki Mannila. "There is an obvious need for this type of funding in Finland to support the establishment of individual research groups."

The piloted project grant is intended for researchers working in Finland at the early stages of the tenure track (assistant professor level) to cover costs of setting up their research group and to further cover group's research costs. The funding provided by the Academy is flexible and can be tailored to the applicant's needs.

OSCAR KIVINEN: ALGEBRAIC GEOMETRY

The main focus of the research conducted by Assistant Professor Oscar Kivinen is on algebraic geometry and representation theory and their relations to string theory. Algebraic geometry studies solutions to systems of polynomial equations, whereas representation theory studies the representation of various algebraic structures by matrices. These are basic structures in mathematics, with numerous applications e.g. in quantum physics, machine vision, cryptography and data science. String theory can be used, for example, when studying the packing of long molecules, such as DNA.



The Väisälä project grants were awarded to Oscar Kivinen and Maaria Nordman

The awarded grants
will be used to study
the physics of
soft materials, and the
internal structures of
celestial bodies



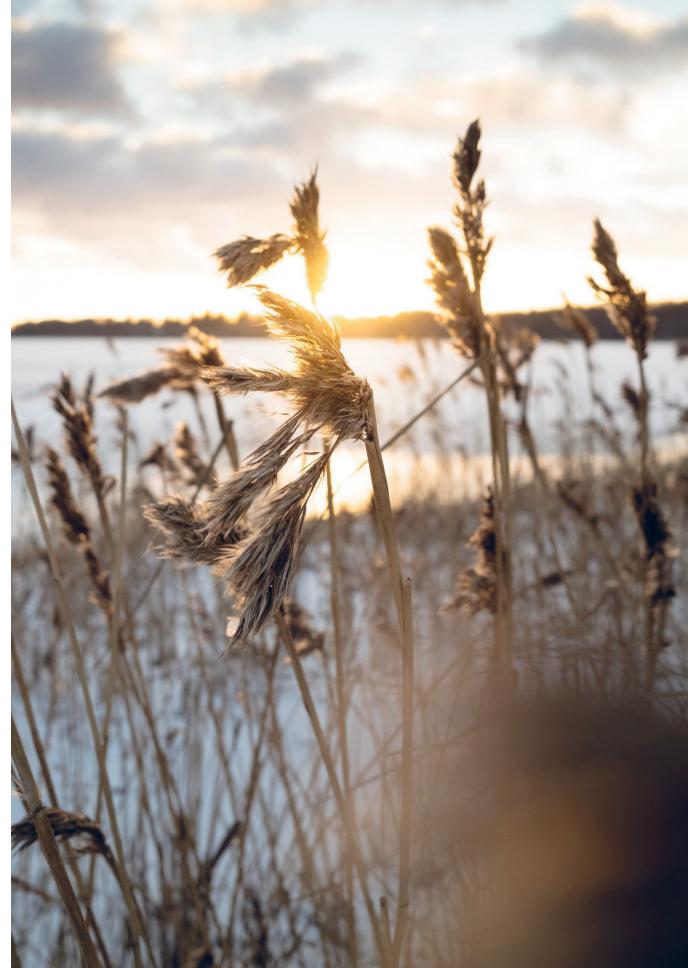
"The Väisälä project grant allows me to expand my research team and also invite international visiting scholars to Aalto," says Kivinen. "The fields mentioned above are still underrepresented in Finland compared to the global scientific community and I believe that the awarded project grant will help remedy this situation."

MAARIA NORDMAN: CRUSTAL MOVEMENTS IN ANTARCTICA

The project of Assistant Professor Maaria Nordman studies the movements of the Earth's crust in Queen Maud Land, Antarctica.

"The awarded grant allows us to expand the research group in terms of the direction of research and possibly recruit new researchers. Our group has studied the same phenomena in the northern hemisphere where observations are easily available. It is interesting to expand the area of research to Antarctica where there are significantly fewer observations," says Nordman. "In Antarctica, the ice sheet is still largely in place, so it is an interesting and challenging environment due to the conditions."

Information about crustal movements under the Antarctic ice sheet is necessary, for example to measure changes in the ice mass more accurately. These measurements can be used to derive predictions of how the ice sheets will affect the rise of the global sea level. A better understanding of crustal movements also improves the time series underlying global coordination systems, improving the quality and accuracy of these systems.



Grants

EINO JUTIKKALA FUND 14 OCTOBER 2024

- MSS, MA Mirka Elovainio, University of Helsinki, 27 000, Aikuissosiaalityön vaikuttavuus – AVAIN-mittarin ja laadullisen analyysin tuottama tieto. (social sciences)
- MA Selcen Johansson, University of Turku, 27 000, Portrayal of Finland in Turkish media with a focus on Finland's NATO membership: A Corpus-assisted Discourse Study. (linguistics)
- MA Dina Gillham, University of Helsinki, 27 000, The Perpetual Virginity of Mary: Origins, Development, and Impact on Gender Expectations. (theology)
- LLM Kim Hakala, University of Helsinki, 27 000, Euroopan unionin jäsenvaltioiden kansainvälisen yksityisoikeuden metamorfoosi. (jurisprudence)
- MA Saara Hellström, University of Turku, 29 160, Vertaileva rekisteritutkimus kielenkäytön vaihtelusta monikielisessä Internetissä. (linguistics)
- MSS Meeri Kataja, Montana State University, 28 900, "Looking for the Hardiest

- Type of Settlers": Northern European Immigrants in Alaska 1867-1945. (history)
- MSS Elina Laakso, University of Helsinki, 27 000, Intohimoa vai turvaa: puolisoiden kumppanuuden tunnehistoriaa perheissä 1900-luvun Suomessa. (history)
- MSS Andrea Lorenz-Wende, University of Jyväskylä, 27 000, Omaisolettama rajanvetoa työikäisten omaisten ja julkisen vallan hoivavastuun välillä ikääntyneiden hoivassa. (social sciences)
- LLM Roope Marttila, University of Helsinki, 27 000, The Hidden Cost of Deep Decarbonizing the Future Energy Mix:

 Comparing the External Costs and the Relative Regulatory Burden of Nuclear Power to Other Energy Sources. (jurisprudence)
- MA Tuan Viet Nguyen, University of Turku, 27 000, Determinants and impacts of



Recipients of the Eino Jutikkala Fund, Emil Öhmann Foundation, and Hilkka and Otto Brusiin Foudation grants were celebrated at the House of Nobility in October. The Eino Jutikkala Fund awarded grants 519 000 euros to 19 researchers, all of whom are early-stage PhD students. The studies include for example a survey of Alaskan migrants from Northern Europe, research on elderly care and the boundary between caring for the elderly and caring for the elderly by relatives and public authorities, a study of the Turkish media's perception of Finland's membership of NATO, and a study of the impact of school bullying on brain structure and function.

- digital services in Finnish primary care. (social sciences)
- MA Birgitta Paranko, University of Turku, 27 000, CHALLENGE: Koulukiusaamisen akuutit ja pitkäaikaiset vaikutukset aivojen rakenteeseen ja toimintaan. (psychology)
- MA, MD Nikolai Paukkonen, University of Helsinki, 27 000, Evaluation of Photogrammetry and Laser Scanning as Archaeological Documentation Tools. (archeology)
- MA Sini Peltokorpi, University of Turku, 29 000, Näkömonivammaisten lasten ja heidän vanhempiensa välinen vuorovaikutus ja sen tukeminen. (social sciences)
- MAT Kukka-Maaria Polso, University of Helsinki, 27 000, Motivated choices in the upper secondary school transition: Linking subject-specific motivation with emerging educational pathways. (pedagogy)

- MSc Jukka-Pekka Pyylampi, University of Helsinki, 27 000, Measuring Finnish Output Gap and Rules-Based Fiscal Guidance: Past & Present Estimates. (social sciences)
- MA Arwen Rosenberg-Meereboer, Åbo Akademi University, 27 000, Ethical Ecologies: Tove Jansson and Sven Nordqvist as an ecocritical approach to ethics.

 (philosophy)
- MSS Ville Sava, University of Turku, 27 000, Commemorating Defeat: Remembering the Boshin War in Aizuwakamatsu City in Japan. (history)
- MSc Juuso Villanen, University of Jyväskylä, 27 000, Essays on health economics and economics of education. (social sciences)
- MA Milla Virolainen, University of Jyväskylä, 27 000, Parliamentarians Debating Democracy in a Time of Crisis: How was Democracy Viewed and Defined by French Politicians 1927-1940. (history)

VILHO, YRJÖ AND KALLE VÄISÄLÄ FUND 9 DECEMBER 2024

Biology, biosciences, environmental science

- MSc Rahul Jagadeesan, Tampere University, 27 000, Gene expression dynamics in operons during energy-driven genomewide stresses. (PhD grant)
- MA Alisa Koski, University of Jyväskylä, 27 000, Taimenen lisääntymisekologia ja levittäytyminen uusiin uomiin. (PhD grant)
- MSc Shrinidhi Madhusudan, University of Helsinki, 27 000, CRISPR activation of DLX5 guides neural progenitor cells

- towards the GnRH neuron cell fate. (PhD grant)
- MA Jesse Simola, University of Eastern Finland, 27 000, Saimaannorpan (Pusa hispida Samensis) kudosten elohopean ja PFOS:in pitoisuusmääritykset sekä Saimaan elohopeapitoisuuksien kehityksen mallinnus muuttuvassa ilmastossa. (PhD grant)
- MA Joonatan Sipola, Tampere University, 27 000, Enhancing treatment of metastatic castration resistant prostate cancer via analysis of plasma liquid biopsies. (PhD grant)

MSc Ville Tuominen, FMI, 30 000, Euroopan turvemaiden kasvihuonekaasupäästöt ja -nielut maankäytön, ilmastonmuutoksen ja äärimmäisten sääilmiöiden vaikutuksessa prosessipohjaisen mallinnuksen avulla. (PhD grant)

Physics

- MSc Ahmed Abdelmagid, University of Turku / University of Cologne, 2 051, visiting grant
- MSc Kameyab Raza Abidi, University of Jyväskylä, 20 250, Understanding of Buckling in Two-Dimensional Metals. (PhD grant)
- MA Pejk Amoroso, University of Helsinki, 27 000, Point defects in novel Ge-based materials for advanced radiation sensors. (PhD grant)
- MSc Kristian Arjas, Aalto University, 13 500, Connecting weak- and tight-binding models in plasmonic lattices. (PhD grant)
- MSc Dana Avramescu, University of Jyväskylä, 27 000, Transport of hard probes in the Glasma. (PhD grant)
- MSc Carlisle Casuga, University of Jyväskylä, 27 000, Global Analysis of Non-linear QCD Dynamics in Deep Inelastic Scattering. (PhD grant)
- MA Zhehao Chen, University of Helsinki, 27 000, Säteilyvaurioiden Perusominaisuudet Monen Pääelementin Satunnaisseoksissa (MPEAs). (PhD grant)
- MA Markku Hahto, University of Turku, 27 000, Temporal quantum networks. (PhD grant)
- MSc Patin Inkaew, University of Helsinki, 27 000, Exploiting real-time analysis for Higgs boson measurements at the CMS experiment. (PhD grant)
- MA Heini Järvinen, University of Jyväskylä, 28 800, DNA-assisted fabrication of

- metasurfaces. (PhD grant ja visiting arant)
- MA Elina Kauppinen, University of Jyväskylä, 9 000, Calculations on the double-beta decay. (PhD grant)
- MSc Jaclyn Tayla Lang, University of Turku, 27 000, Disentangling the acceleration mechanisms in solar energetic particle events. (PhD grant)
- MSc Ilari Lilja, Aalto University, 27 000, Jatkuvan muuttujan klusteritilojen muodostaminen ja ohjaus Josephsonin parametrisissä systeemeissä. (PhD grant)
- MSc Isaac Yair Miranda Valdez, Aalto University, 32 651, Unveiling the multiscale nature of soft materials through fractional order viscoelasticity, University of Helsinkiperspectral imaging, and machine learning. (PhD grant ja visiting grant)
- MA Sanna Normo, University of Turku, 27 000, The origin and propagation of fast particles using radio observations during solar eruptions. (PhD grant)
- MSc Meysam Norouzi Inallu, LUT University / University of the Basque Country, 3 000, visiting grant
- MA Harri Parkkinen, University of Jyväskylä, 18 000, Quantum kinetic theory for coherently mixing neutrinos. (PhD grant)
- MA Joose Peitola, University of Eastern Finland, 27 000, Personalized muscle forcedriven musculoskeletal finite element modeling platform to optimize rehabilitation planning of patients with osteoarthritis. (PhD grant)
- MA Tomi Ruosteoja, University of Helsinki, 30 000, Transport properties of cold and dense quark matter. (PhD grant ja vieraiuapuraha)
- MA Topi Sirkiä, University of Helsinki, 27 000, Uusia rajoja aksioneille ja aksionin-kaltaisille hiukkasille suoran



The Vilho, Yrjö and Kalle Väisälä Fund grants and the Väisälä prizes were announced at the House of Nobility during the December event. A total of 1.7 million euros in grants were awarded in the autumn 2024 distribution, to a total of 74 researchers. Grants were awarded in particular to researchers working on their doctoral theses. The studies include for example determining mercury levels in Saimaa ringed seal tissues, studying radiation-resistant materials and extreme weather-induced tremors, developing diagnostics for ADHD, assessing the impact of wildfires on the carbon cycle, and exploring knot theory.

- havaitsemisen kokeista sekä superradianssista mustissa aukoissa ja neutronitähdissä. (PhD grant)
- MA Nico Stirling, University of Helsinki, 27 000, Quantum field theoretical aspects of neutrino oscillations and interactions. (PhD grant)
- MA Saara Takala, University of Helsinki, 27 000, Characterizing properties and early dynamics of solar eruptions with X-ray spectroscopy. (PhD grant)

Geophysics

- MPhil Benoit Espinola, FMI, 30 980,
 Ympäristöseurannan tehostaminen
 merialueilla koneoppimispohjaisella
 haitallisten aineiden jäljityksellä. (PhD
 grant, grant for expenses, visiting grant)
- MA Veera Juntunen, University of Oulu, 27 000, Auringon ilmastovaikutusten merkitys yhteiskunnan energiankulutukselle ja -tuotannolle. (PhD grant)
- MSc Emma-Riikka Kokko, University of Oulu, 30 000, Sään ääri-ilmiöiden aiheuttamien routajäristysten riskiarviointi arktisilla ja subarktisilla alueilla. (PhD grant)
- MSc Xinfang Zhang, FMI, 27 000, Enhancement of Earth system model simulation through integrated sea ice observational studies. (PhD grant)

Chemistry, biochemistry

- MSc Christine Gonsalves, Aalto University, 27 000, Advancing Atomic Layer Deposition for Sustainable Heterogeneous Catalysis. (PhD grant)
- MSc Hanan Ibrahim, University of Jyväskylä, 27 000, Understanding ligand-directed acrolein selective hydrogenation into propenol on Pd(111) surface: DFT study. (PhD grant)

- MA Mari Tienhaara, University of Turku, 27 000, Identification of key kinase / phosphatase nodes regulating drug tolerance in oncogene-addicted cancer. (PhD grant)
- MSc Sami Vesamäki, Tampere University, 27 000, Kosteuden vaikutus atsobentseenien isomerisaatioon ja ilmiön hyödyntäminen sovelluksissa. (PhD grant)

Medicine, health sciences

- MSc Nazli Eskici, University of Helsinki, 27 000, DLK1:n roolin tutkiminen ihmisen GnRH-neuroneiden kehityksessä. (PhD grant)
- MSc Liia Merzon, Aalto University, 9 000, Combining Virtual Reality and Machine Learning to Improve ADHD Diagnostics. (PhD grant)
- MSc Tuija Tolonen, Aalto University, 13 500, Aivojen laajat hermoverkostot ADHDaikuisilla ja tyypillisessä kehityksessä: moniulotteinen magneettikuvantamistutkimus. (PhD grant)

Medical technology, biophysics

- PhD Arjen Gebraad, University of Eastern Finland / University of Life Sciences, 4 500, visiting grant
- MA Annele Heikkilä, Tampere University, 27 000, Potilaan asetteluvirheiden vaikutuksen minimoiminen ulkoisessa sädehoidossa. (PhD grant)
- MSc Suvi Heinonen, University of Helsinki, 27 000, Incorporating molecular dynamics simulations into the development of liposome-based vaccine adjuvants and other lipid-based formulations. (PhD grant)
- MSc Bilour Khan, University of Eastern Finland, 18 000, Valon etenemisen mallin-

- nus pehmytkudoksissa elementtimenetelmää ja Monte Carlo -simulaatiota käyttäen. (PhD grant)
- MSc Sofia Tauriainen, Aalto University, 27 000, Aktiivisuuden ja tarkkaavuuden häiriön oireiden mittaaminen objektiivisesti luonnollisessa kontekstissa. (PhD grant)

Mathematics

- MA Veeti Ahvonen, Tampere University, 27 000, New directions in descriptive complexity. (PhD grant)
- MSc Kalle Alaluusua, Aalto University, 27 000, Community recovery in sparse random graphs. (PhD grant)
- MSc Theo Elenius, Aalto University, 27 000, Parabolic variational problems of linear growth. (PhD grant)
- MSc Kai Hippi, Aalto University, 27 000, Quantum chaos on random Riemann surfaces. (PhD grant)
- MSc Matilda Häggblom, University of Helsinki / Utrecht University, University of Amsterdam, 4 000, visiting grant
- MA Tuomas Kelomäki, Aalto University, 27 000, Discrete Morse theory for Khovanov homology. (PhD grant)
- Professor Risto Korhonen, University of Eastern Finland / Kanazawa University, University College London, 3 200, visiting grant
- MSc Okko Makkonen, Aalto University, 8 100, Turvallisen hajautetun laskennan matemaattinen perusta. (PhD grant)
- MA Katariina Paturi, University of Turku, 27 000, Dynamical properties of nonuniform cellular automata. (PhD grant)
- MA Mika Sipilä, University of Jyväskylä, 27 000, Nonlinear blind source separation for spatial and spatio-temporal data. (PhD grant)

- MA Ensio Suonperä, University of Helsinki, 27 000, Tehokkaita ratkaisumenetelmiä bilevel-ongelmien optimointiin. (PhD grant)
- MSc Lauri Särkiö, Aalto University, 27 000, Regularity of parabolic double phase systems. (PhD grant)
- MA Yu-Liang Wu, University of Oulu, 27 000, Shrinking targets and recurrence set problem. (PhD grant)

Meteorology

- MSc Miguel Aldana, FMI 27 000, The Impact of the Gulfs of Finland and Bothnia and Associated Coastal Areas on Thunderstorms in Finland. (PhD grant)
- MSc Carla Maria Di Natale, FMI, 27 000, Maalla ja merellä tehtävän hiilidioksidin poiston vaikutus planetaarisiin rajoihin. (PhD grant)
- MSc Marta Fregona, University of Helsinki, 27 000, Modeling greenhouse gas exchanges in freshwater ecosystems.

 (PhD grant)
- MA Outi Kinnunen, FMI 33 000, Maastopalojen vaikutus hiilenkiertoon Pohjois-Euroopassa. (PhD grant)
- MSc Snehitha Kommula, University of Eastern Finland, 1800, visiting grant
- MA Johannes Mikkola, University of Helsinki, 27 000, Aerosol transport to the free troposphere in mountainous regions: combining meteorology, air-chemistry and aerosol physics. (PhD grant)
- MSc Jenna Ritvanen, FMI 27 000, Konvektiosateen lähihetkiennustaminen kaksoispolarisaatiotutkien ja fysiikkaan perustuvien koneoppimismenetelmien avulla. (PhD grant)
- MA Olli Saranko, FMI 13 500, Maankäytön vaikutus helteiden kehittymiseen Suomen kaupungeissa. (PhD grant)

Computer science, computer engineering

- MSc Leevi Lignell, Tampere University, 27 000, Litiumioniakkujen reaaliaikainen tila-analyysi. (PhD grant)
- MSc Markus Lindén, University of Turku, 27 000, Data analysis tools for longitudinal and single-cell proteomics. (PhD grant)

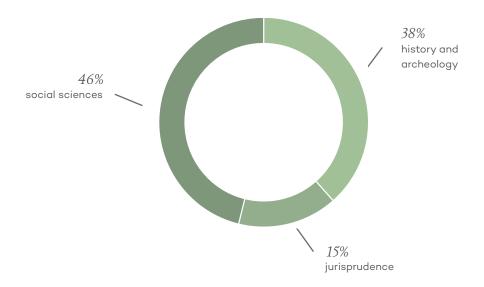
Astronomy

- MA Yasir Abdul Qadir, University of Turku, 13 500, Tähtijärjestelmien moniaallonpituinen optinen polarimetria, joka osoittaa vaihtelevaa sisäistä polarisaatiota. (PhD grant)
- MA Sofia Forsblom, University of Turku, 27 000, Study of polarized emission

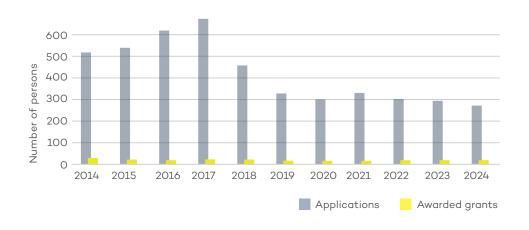
- from highly magnetized neutron stars in the X-ray band. (PhD grant)
- MA Pouya Kouch, University of Turku / MAGIC telescopes, La Palma, 2 500, visiting grant
- MA Katja Matilainen, University of Turku, 27 000, Obscured supernovae in luminous infrared galaxies. (PhD grant)
- Title of Docent Stepan Poluianov, University of Oulu / North-West University, 2 900, visiting grant
- MA Mikko Pöntinen, University of Helsinki, 13 500, ESA Euclid -mission hyödyntäminen asteroidien spektrihavainnoissa. (PhD grant)
- MSc Sicheng Yu, University of Oulu, 27 000, Hyvin vanhojen kataklysmisten muuttujien piilotetun populaation etsintä. (PhD grant)

GRANTS FROM THE EINO JUTIKKALA FUND IN 2024

GRANTS AWARDED BY FIELD OF STUDY (2024 APPLICATION FIELDS)

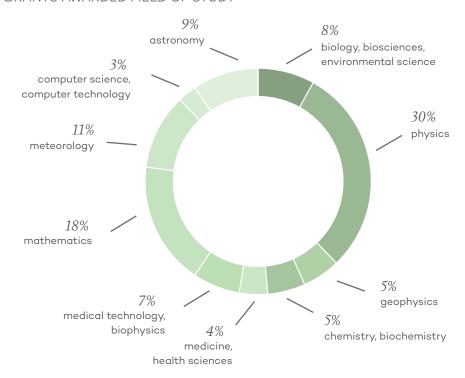


APPLICATIONS RECEIVED AND GRANTS AWARDED IN 2014-2024



GRANTS FROM THE VILHO, YRJÖ AND KALLE VÄISÄLÄ FUND IN 2024

GRANTS AWARDED FIELD OF STUDY



APPLICATIONS RECEIVED AND GRANTS AWARDED IN 2014-2024



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The Academy pursues its aims by, for example, issuing statements of opinion and proposals for action, supporting better utilisation of high-quality research in decision-making, and editing, publishing and distributing scientific and other academic publications.

Publications 2024

ANNALES ACADEMIAE SCIENTIARUM FENNICAE AASF 1/2024

- Pertti Ahonen: Essentializing Ethnicity:
 Expellees and Ethno-National Categorizations in the European Postwar Moment,
 1943-1948
- Jari Hietanen: Sosiaalinen neurotiede nyt Esa Lehtinen: Multimediaalisuus ikkunana työelämän digitalisaatioon
- Camilla Wide: Språk, land och kommunikativa mönster
- Ville Pönkä: Osuuskuntien sääntely ja osuustoimintaperiaatteet – Mihin suuntaan osuuskuntalakia olisi kehitettävä?
- Timo Kivimäki: Learning From the Global Experience in Conflict Prevention
- Pedro Echenique & Risto Nieminen:

 Philip W. Anderson: monipuolinen ja poikkeuksellinen tiedemies. Muistokirjoitus.

ANNALES ACADEMIAE SCIENTIARUM FENNICAE AASF 2/2024

- Markku Kulmala, Runlong Cai, Tom Kokkonen, Anna Lintunen, Veli-Matti Kerminen: Ilmakehän pienhiukkasten muodostumisen merkitys ilmastolle ja ilmanlaadulle
- Marjaana Helminen: OECD:n ohjeiden kasvava merkitys kansainvälisessä verotuksessa
- Outi Haapanen: From respiratory supercomplexes to megacomplexes
- Tuire Oittinen: Vuorovaikutuskompetenssin rooli videovälitteisessä yhteistoiminnassa
- Sari Lindblom: Yliopistopedagogiikka yliopistojen strategisen kehittämisen ytimessä
- Keskustelua Tuuli Toivonen & Riku Reunamäki: Akateeminen johtajuus etenee murroksesta toiseen – Pohdintoja johtamisesta yliopistouran alkuvaiheessa



OTHER PUBLICATIONS

Year Book 2023. Ed. Pekka Aula

Researcher's Handbook

Talouskasvun luominen Suomessa: tutkijoiden näkemyksiä ("Creating economic growth in Finland: researchers' views"), a report

Mullistaako tekoäly lääkärin työn? ("Will Al revolutionise the work of doctors?"), infographic

Knowledge synthesis':

Miten kiusaamista ja väkivaltaa voidaan torjua? ("How can bullying and violence be prevented?")

 Ekologinen kytkeytyvyys ja luonnon monimuotoisuus alueidenkäytön suunnittelussa ("Ecological connectivity and biodiversity in land use planning")

Science briefs:

- 15–19-vuotiaiden nuorten hyvinvointi ja erityispiirteet Suomessa ("Wellbeing and characteristics of young people aged 15–19 in Finland")
- Ulkomaalaistaustaiset Suomessa ("People with a foreign background in Finland")

Online articles:

- Tekoälyä tutkijoille: Kielimallit sopivat kokeneen tutkijan käyttöön ("Al for researchers: language models are suitable for experienced researchers")
- Ihmisen ja koneen yhteispeli kirjallisuuskatsauksissa ("Human-machine interplay in literature reviews")
- Mitä tutkijan tulee tietää tekoälyn läpinäkyvyydestä? ("What a researcher should know about Al transparency").

NEW BERS

The Academy invites distinguished and widely respected Finnish and foreign scholars to become members.

The list of the members is also available on the Academy's website (www.acadsci. fi). Members are encouraged to report any changes in their personal details to the Academy's office (Finnish Academy of Science and Letters, Mariankatu 5 A, FIN-00170 Helsinki, e-mail acadsci@acadsci.fi, tel. +358-50-4620 889).

Honorary members 31 December 2024

Elina Haavio-Mannila Marjatta Hietala Bengt Holmström Risto Ihamuotila Risto Nieminen Kari Raivio Jarmo Visakorpi

Presidents since 1981

Tuula Linna	2024-	Olli Martio	1996-1997
Kimmo Kaski	2022-2023	Elina Haavio-Mannila	1995-1996
Anna Mauranen	2020-2021	Olavi Granö	1994-1995
Risto Nieminen	2018-2019	Jouko Paunio	1993-1994
Kirsi Tirri	2016-2017	Olli V. Lounasmaa	1992-1993
Eva-Mari Aro	2014-2015	Pertti Pesonen	1991–1992
Jorma Sipilä	2012-2014	Lauri Myrberg	1990-1991
Sirpa Jalkanen	2010-2012	Lauri Honko	1989-1990
Arto Mustajoki	2008-2010	Jorma K. Miettinen	1988-1989
Kari Raivio	2006-2008	Jaakko Honko	1987-1988
Simo Knuuttila	2004-2006	Kaarlo Hartiala	1986-1987
Risto Ihamuotila	2002-2004	Yrjö Blomstedt	1985-1986
Risto Näätänen	2000-2002	Pentti Laasonen	1984-1985
Jarmo Visakorpi	1998-2000	Osmo Ikola	1982-1984
Heikki Solin	1997-1998	Väinö Hovi	1982

Finnish members 31 December 2024

Each member's name, year of birth and year of election to membership is given, followed by the person's academic qualification and present affiliation or last affiliation before retirement.

- **Aaltonen**, *Lauri* Antti, b. 1963, elected 2002, Section of Science, M.D., Prof., University of Helsinki
- Aartolahti, *Toive* Yrjö Aleksi, b. 1934, elected 1973, Section of Science, PhD, Prof. emer., University of Helsinki
- **Abrahamsson**, *Pekka* Kalevi, b. 1972, elected 2020, Section of Science, PhD, Prof., Tampere University
- Acjmelaeus, Anneli Pirjo Marjukka, b. 1948, elected 1992, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- Aejmelaeus, *Lars* Jaakko Tapani, b. 1945, elected 2005, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- **Ahonen,** *Pertti* Tapio, elected 2023, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
- Ahti, Teuvo Tapio, b. 1934, elected 1977, Section of Science, PhD, Prof. emer., University of Helsinki
- Ahtiala, Kaarlo *Pekka*, b. 1935, elected 1986, Section of the Humanities, PhD, Prof., Tampere University

- Ahvenainen, *Jorma* Juhani, b. 1930, elected 1984, Section of the Humanities, PhD, Prof. emer, University of Jyväskylä
- **Aittokallio,** *Tero* Antero, b. 1974, elected 2023, Section of Science, PhD, Prof., University of Oslo
- **Aksela**, *Helena*, b. 1947, elected 2002, Section of Science, PhD, Prof. emer., University of Oulu
- **Alakukku**, *Laura* Elina, b. 1958, elected 2013, Section of Science, D.Sc., Prof., University of Helsinki
- **Alasuutari**, *Pertti* Juhani, b. 1956, elected 2004, Section of the Humanities, DSocSci, Prof., Tampere University
- Alestalo, *Matti* Juhani, b. 1944, elected 1997, Section of the Humanities, DSocSci, Prof. emer., Tampere University
- **Alho,** *Kimmo* Antero, b. 1958, elected 2012, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Alhoniemi**, *Alho* Esa Vesa, b. 1933, elected 1981, Section of the Humanities, PhD, Prof. emer., University of Turku
- **Alitalo**, *Kari* Kustaa, b. 1952, elected 1991, Section of Science, M.D., Academician of Science, Prof. emer., University of Helsinki
- Andersson, Harri Olavi, b. 1946, elected 2006, Section of Science, DSocSci, Prof. emer., University of Turku
- Andersson, Leif, b. 1944, elected 2006, Section of Science, M.D., Prof. emer., University of Helsinki

- Annila, Erkki Aulis, b. 1937, elected 1992, Section of Science, PhD, D.Sc., Prof. emer, Finnish Forest Research Institute
- Anttonen, Anneli Maria Irmeli, elected 2018, Section of the Humanities, DSocSci, Prof. emer.,
 Tampere University
- Anttonen, Veikko Kalevi, b. 1948, elected 2011, Section of the Humanities, PhD, Prof. emer., University of Turku
- **Apo**, *Satu*, b. 1947, elected 2002, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Arjas, Elja, b. 1943, elected 2001, Section of Science, PhD, Prof. emer., Prof. emer., University of Helsinki, Research Prof. emer., National Public Health Institute of Finland
- Arjava, Antti Juhani, b. 1961, elected 2017, Section of the Humanities, PhD, Secretary General, Prof., retired, Finnish Cultural Foundation
- Arminen, *Ilkka* Ari Tapani, b. 1963, elected 2018, Section of the Humanities, DSocSci, Prof., University of Helsinki
- Aro, Eva-Mari, b. 1950, elected 2001, Section of Science, PhD, Academician of Science, Prof. emer., University of Turku
- **Aspi**, *Jouni* Olavi, b. 1958, elected 2021, Section of Science, PhD, Prof., University of Oulu
- **Astala**, *Kari*, b. 1953, elected 1997, Section of Science, PhD, Prof., University of Helsinki
- Astola, Jaakko, b. 1949, elected 2002, Section of Science, PhD, Prof. emer., Tampere University of Technology
- Aunesluoma, *Juhana* Hannu, b. 1967, elected 2022, Section of the Humanities, D.Phil, Prof., University of Helsinki
- Aunola, Kaisa, b. 1973, elected 2022, Section of the Humanities, PhD (Psych.), Prof., University of Jyväskylä
- Autio, Erkko Tapio, b. 1963, elected 2024, Section of the Humanities, D.Sc. (Tech.), Prof., Imperial College London
- Auvinen, Petri Olli Viljami, b. 1960, elected 2017, Section of Science, PhD, Prof. emer., University of Helsinki

- Back, Ralph-Johan, b. 1949, elected 2002, Section of Science, PhD, Prof. emer., Åbo Akademi University
- Backman, Janne Tapio, b. 1968, elected 2019, Section of Science, M.D., Prof., University of Helsinki
- Bamford, Dennis Henry, b. 1948, elected 2002, Section of Science, PhD, Prof. emer., University of Helsinki
- Bartens, *Raija* Raakel, b. 1933, elected 1982, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Bobacka**, *Johan* Bengt Mikael, b. 1962, elected 2021, Section of Science, D.Sc. (Tech.), Prof., Åbo Akademi University
- Byckling, *Eero* Arvi, b. 1936, elected 1974, Section of Science, D.Sc. (Tech.), Prof. emer., Helsinki University of Technology
- **Bäck**, *Jaana* Kaarina, b. 1961, elected 2018, Section of Science, PhD, Prof., University of Helsinki
- Cantell, *Kari* Juhani, b. 1932, elected 1981, Section of Science, M.D., Research Prof. emer., National Public Health Institute of Finland
- Castrén, *Eero* Hemminki, b. 1958, elected 2004, Section of Science, M.D., Prof., University of Helsinki
- **Chen**, *Ruizhi*, b. 1963, elected 2021, Section of Science, PhD, Prof. of geo-information science, Wuhan University
- Clerc, *Louis*, b. 1976, elected 2024, Section of the Humanities, Prof., University of Turku
- Corander, *Jukka*, b. 1971, elected 2018, Section of Science, PhD, Prof., University of Oslo; Prof., University of Helsinki
- **Donner,** *Joakim* Jalmar, b. 1926, elected 1973, Section of Science, PhD, Prof. emer., University of Helsinki
- Dunderberg, Ismo Olavi, b. 1963, elected 2011, Section of the Humanities, ThD, Prof., University of Helsinki
- Eerola, Paula Anna Maria, b. 1962, elected 2012, Section of Science, PhD, President, Academy of Finland

- **Elenius**, *Klaus* Peter, b. 1965, elected 2020, Section of Science, M.D., Prof., University of Turku
- **Eloranta**, *Jari*, b. 1970, elected 2020, Section of the Humanities, Prof., University of Helsinki
- Engeström, *Yrjö* Henrik Mikael, b. 1948, elected 2011, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Enqvist, Kari Pekka, b. 1954, elected 2004, Section of Science, PhD, Prof. emer., University of Helsinki
- **Erola**, *Jani* Petteri, b. 1974, elected 2021, Section of the Humanities, PhD, Prof., University of Turku
- Eskola, *Kari* Juhani, b. 1963, elected 2013, Section of Science, PhD, Prof., University of Jyväskylä
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- **Forsberg,** *Tuomas* Antero, b. 1967, elected 2012, Section of the Humanities, PhD, Prof., Tampere University; Prof., University of Helsinki
- Forsberg, *Ulla-Maija*, b. 1960, elected 2001, Section of the Humanities, PhD, Prof., University of Helsinki
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- **Gahmberg**, *Carl* Gustav, b. 1942, elected 1982, Section of Science, M.D., Prof. emer., University of Helsinki
- **Garavelli,** *Enrico*, b. 1969, elected 2017, Section of the Humanities, PhD, Prof., University of Helsinki
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- **Grönlund,** *Henrietta*, elected 2023, Section of the Humanities, ThD, Prof., University of Helsinki
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- Haapala, *Ilmari* Johannes, b. 1939, elected 1985, Section of Science, PhD, Prof. emer., University of Helsinki
- Haapala, Pertti Olavi, b. 1954, elected 2004, Section of the Humanities, PhD, Prof., Tampere University
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- Haaparanta, Pertti Juhani, b. 1954, elected 1999,Section of the Humanities, PhD, Prof. emer.,Aalto University
- Haario, Heikki Eino Tapani, b. 1953, elected 2016, Section of Science, PhD, Prof., LUT University
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- Haddington, Pentti Olavi, b. 1970, elected 2020, Section of the Humanities, PhD, Prof., University of Oulu
- Haila, Yrjö Antero, b. 1947, elected 2002, Section of Science, PhD, Prof. emer., Tampere University
- Hakamies, Harri *Pekka*, b. 1953, elected 2009, Section of the Humanities, PhD, Prof. emer., University of Turku

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- Hakkarainen, *Kai* Pekka Juhani, b. 1956, elected 2016, Section of the Humanities, PhD, Prof., University of Helsinki
- Hakkila, Pentti Tapani, b. 1935, elected 1986, Section of Science, D.Sc., Prof. emer., Finnish Forest Research Institute
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- **Haltia**, *Matti* Jouko Johannes, b. 1939, elected 1993, Section of Science, M.D., Prof. emer., University of Helsinki
- Hanski, Eero Johannes, b. 1954, elected 2008, Section of Science, PhD, Prof., University of Oulu
- Hantula, Jarkko Ilmari, b. 1961, elected 2013, Section of Science, PhD, Prof., Natural Resources Institute Finland
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- Hatakka, Annele Inkeri, b. 1948, elected 2012, Section of Science, D.Sc., Prof. emer., University of Helsinki
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- Haukka, Matti Olavi, b. 1964, elected 2019, Section of Science, PhD, Prof., University of Jyväskylä
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- Hautojärvi, Pekka Juhani, b. 1944, elected 1982, Section of Science, D.Sc. (Tech.), Prof. emer., Helsinki University of Technology
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- Heino, Jyrki Johannes, b. 1958, elected 2011, Section of Science, M.D., Prof., University of Turku
- **Heinämaa**, *Sara*, b. 1960, elected 2022, Section of the Humanities, Prof., University of Jyväskylä
- **Heiskala**, *Risto* Kalevi, b. 1956, elected 2015, Section of the Humanities, DSocSci, Prof., Tampere University
- **Helander**, *Eila* Marjatta, b. 1946, elected 1999, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Helariutta**, *Yrjö* Eero, b. 1965, elected 2014, Section of Science, PhD, Prof., University of Helsinki, Academy Prof.
- **Helasvuo**, *Marja-Liisa*, elected 2013, Section of the Humanities, PhD, Prof., University of Turku
- Helkama, *Klaus* Eeronpoika, b. 1945, elected 2002, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- **Helkkula**, *Mervi* Anneli, b. 1957, elected 2014, Section of the Humanities, PhD, Prof., University of Helsinki
- **Helminen**, Hilkka *Marjaana*, b. 1968, elected 2024, Section of the Humanities, LL.D., Prof., University of Helsinki
- **Hemmo**, *Mika* Antero, b. 1968, elected 2011, Section of the Humanities, LL.D., Prof., University of Helsinki
- Hentilä, Seppo Juhani, b. 1948, elected 2005, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- **Henttonen**, *Heikki* Antero, b. 1950, elected 2009, Section of Science, PhD, Prof., Natural Resources Institute Finland
- Hidén, Mikael Juhana Vilhelm, b. 1939, elected 1991, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- **Hietala,** Liisa *Marjatta*, b. 1943, elected 1997, Section of the Humanities, PhD, Prof. emer., Tampere University

- **Hietanen**, *Jari* Kaarlo, b. 1961, elected 2023, Section of the Humanities, PhD, Prof., Tampere University
- **Hilpinen**, *Risto* Juhani, b. 1943, elected 1973, Section of the Humanities, PhD, Prof., University of Miami
- **Hiltunen**, *Risto* Aulis, b. 1948, elected 2001, Section of the Humanities, D.Ph., Prof. emer., University of Turku
- **Hindmarsh**, *Mark*, b. 1961, elected 2024, Section of Science, Prof., University of Helsinki, University of Sussex
- Hirsjärvi, *Sirkka* Anneli, b. 1940, elected 1992, Section of the Humanities, EdD, Prof. emer., University of Jyväskylä
- Hjelt, Sven Erik Oskar Sveni, b. 1939, elected 1986, Section of Science, D.Sc. (Tech.), Prof. emer., University of Oulu
- Hjerppe, Riitta Tuulikki, b. 1944, elected 2002, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Hollanti, *Camilla*, b. 1979, elected 2024, Section of Science, Prof., Aalto University
- Hollo, Erkki Johannes, b. 1940, elected 1989, Section of the Humanities, LL.D., Dr. iur., Prof. emer., University of Helsinki
- **Holm**, *Liisa*, elected 2020, Section of Science, Prof., University of Helsinki
- **Holmbom**, *Bjarne* Richard, b. 1943, elected 2003, Section of Science, D.Sc. (Tech.), Prof. emer., Åbo Akademi University
- Holopainen, Markus Edvard, b. 1967, elected 2020, Section of Science, D.Sc., D.Sc. (Tech.), Prof., University of Helsinki
- Honkala, *Iiro* Samuli, elected 2013, Section of Science, PhD, Prof., University of Turku
- Honkala, Juha Lauri, b. 1960, elected 2022, Section of Science, PhD, Prof., University of Turku
- Honkala, Johanna Karoliina, b. 1973, elected 2020, Section of Science, PhD, Prof., University of Jyväskylä
- Honkapohja, Seppo Mikko Sakari, b. 1951, elected1991, Section of the Humanities, DSocSci, Prof.,Aalto University

- **Hovi,** *Tapani*, b. 1942, elected 2004, Section of Science, M.D., Research Prof. emer., Finnish Institute for Health and Welfare
- Hoyer, Paul Gustav, b. 1945, elected 2005, Section of Science, PhD, Prof. emer., University of Helsinki
- Huhtanen, Pekka Juhani, b. 1955, elected 2002, Section of Science, D.Sc., Research Prof. emer., Swedish University of Agricultural Sciences
- Huhtaniemi, Ilpo Tapani, b. 1947, elected 1993, Section of Science, M.D., Prof. emer., Imperial College London
- **Huikuri**, *Heikki* Veli, b. 1952, elected 2013, Section of Science, M.D., Prof., University of Oulu
- **Huiskonen**, *Juha* Tapio, b. 1977, elected 2024, Section of Science, PhD, Prof., University of Helsinki
- Huitu, Katri Leila Päivikki, b. 1960, elected 2015, Section of Science, PhD, Prof., University of Helsinki
- Hupa, Mikko Markus, b. 1952, elected 2011, Section of Science, D.Sc. (Tech.), Prof., Åbo Akademi University
- Husa, Veikko Jaakko Mikael, b. 1966, elected 2018, Section of the Humanities, DSocSci, Prof., University of Helsinki
- Huttula, Timo Heikki, b. 1952, elected 2012, Section of Science, PhD, Prof. emer., Finnish Environment Institute
- **Huttunen**, *Tomi*, b. 1971, elected 2021, Section of the Humanities, PhD, Prof., University of Helsinki
- **Huumo**, *Tuomas* Johannes, b. 1968, elected 2012, Section of the Humanities, PhD, Prof., University of Turku, University of Tartu
- Hyry, *Eero* Kalevi, b. 1960, elected 2016, Section of Science, PhD, Prof., Tampere University
- **Hytönen**, *Tuomas* Pentinpoika, b. 1981, elected 2017, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- **Hyvärinen**, *Aapo* Johannes, b. 1970, elected 2016, Section of Science, PhD, Prof., University of Helsinki
- **Hyvärinen**, *Heikki* Pekka Esaias, b. 1938, elected 1996, Section of Science, PhD, Prof. emer., University of Joensuu

- **Hyvärinen,** *Irma* Kaarina, b. 1949, elected 2002, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Hyönä, Jukka Uolevi, b. 1957, elected 2019, Section of the Humanities, PhD (Psych.), Prof., University of Turku
- Häkkinen, Hannu Juhani, b. 1962, elected 2015, Section of Science, PhD, Prof., University of Jyväskylä
- Häkkinen, Kaisa Mervi Maritta, b. 1950, elected 2002, Section of the Humanities, PhD, Academician of Science, Prof. emer., University of Turku
- Häkli, Jouni Ilari, b. 1965, elected 2005, Section of Science, DSocSci, Prof., Tampere University
- Hämeri, *Kaarle* Juhani, b. 1964, elected 2022, Section of Science, PhD, Prof., University of Helsinki
- Hämet-Ahti, Raija-Leena, b. 1931, elected 1991, Section of Science, PhD, Prof. emer., University of Helsinki
- **Hämynen**, *Tapio* Mikko Juhani, b. 1951, elected 2013, Section of the Humanities, PhD, Prof. emer., University of Eastern Finland
- Hämäläinen, *Heikki* Antero, b. 1952, elected 2009, Section of the Humanities, PhD, Prof., University of Turku
- Hämäläinen, *Keijo* Johannes, b. 1963, elected 2006, Section of Science, PhD, Prof., Tampere University
- **Hämäläinen**, *Matti* Sakari, b. 1958, elected 2020, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- **Hämäläinen**, *Pekka*, b. 1967, elected 2021, Section of the Humanities, Rhodes Prof., University of Oxford
- Härmä, *Juhani*, b. 1949, elected 2001, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Ihalainen, Pasi Taneli, b. 1967, elected 2021, Section of the Humanities, PhD, Prof., Academy Prof., University of Jyväskylä
- Ihamuotila, Risto V A, b. 1938, elected 1984, Section of Science, D.Sc., Prof. emer., University of Helsinki

- **Iivonen**, *Antti* Kalervo, b. 1940, elected 1990, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Ikkala**, *Olli* Tapio, b. 1953, elected 2003, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- **Ikonen**, *Elina* Maria, b. 1961, elected 2009, Section of Science, M.D., Prof., University of Helsinki
- Ilmakunnas, Pekka Jouko Ari, b. 1952, elected 2003, Section of the Humanities, PhD, Prof. emer., Aalto University
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- **Immonen**, *Visa* Aleksis, b. 1977, elected 2020, Section of the Humanities, PhD, Prof., University of Bergen
- Itkonen, *Esa* Matti, b. 1944, elected 1993, Section of the Humanities, PhD, Prof. emer., University of Turku
- Ivaska, Ari Usko, b. 1946, elected 1998, Section of Science, D.Sc. (Tech.), Prof. emer., Åbo Akademi University
- Ivaska, Mari *Johanna*, b. 1972, elected 2016, Section of Science, PhD, Prof., University of Turku
- Jaakkola, Antti Olavi, b. 1942, elected 1998, Section of Science, D.Sc., Prof. emer., University of Helsinki
- Jalkanen, Sirpa Tuulikki, b. 1954, elected 1998, Section of Science, M.D., Academician of Science, Prof., University of Turku
- Jallinoja, Riitta Inkeri, b. 1943, elected 2001, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Jatila, Erkki Juhani, b. 1939, elected 1986, Section of Science, PhD, Prof., Director General, retired, Finnish Meteorological Institute
- Jensen-Eriksen, Niklas, b. 1974, elected 2021, Section of the Humanities, Prof., University of Helsinki, Academy Prof.
- Jernvall, Jukka Tapani, b. 1963, elected 2008, Section of Science, PhD, Prof., University of Helsinki
- Joensuu, Heikki Tuomas, b. 1956, elected 2007, Section of Science, M.D., Prof., University of Helsinki

- Johansson, Peter Hilding, b. 1978, elected 2024, Section of Science, PhD, Prof., University of Helsinki
- Jokinen, Ari Seppo Antero, b. 1965, elected 2014, Section of Science, PhD, Prof., University of Jyväskylä
- Jokinen, *Tapani* Veikko Juhani, b. 1937, elected 1986, Section of Science, D.Sc. (Tech.), Prof. emer., Helsinki University of Technology
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- Jutila, Matti Ilmari, b. 1943, elected 1982, Section of Science, PhD, Prof. emer., University of Turku
- Jänne, Olli Antero, b. 1945, elected 1992, Section of Science, M.D., Prof. emer., University of Helsinki
- Jäntti, Markus Bruno, b. 1966, elected 2015, Section of the Humanities, DSocSci, Prof., University of Stockholm
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- Järviluoma-Mäkelä, Helmi, b. 1960, elected 2018, Section of the Humanities, PhD, Prof. emer., University of Eastern Finland

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- Kahma, Kimmo Kaarlo, b. 1947, elected 2007, Section of Science, PhD, Research Prof. emer, Finnish Meteorological Institute
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- Kainulainen, Kimmo Juhani, b. 1962, elected 2016, Section of Science, PhD, Prof., University of Jyväskylä
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- Katila, *Toivo* Ensio, b. 1941, elected 1991, Section of Science, D.Sc. (Tech.), Prof. emer., Helsinki University of Technology
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- **Kvarnström**, *Carita*, b. 1961, elected 2020, Section of Science, PhD, Prof., University of Turku
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- **Kärkkäinen**, *Veli-Matti*, b. 1958, elected 2011, Section of the Humanities, ThD, Prof., Fuller Theological Seminary
- **Kääriäinen**, *Leevi* Joel, b. 1935, elected 1985, Section of Science, M.D., Prof. emer., Institute of Biotechnology
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- Laaksonen, Ari Johannes, b. 1971, elected 2018, Section of Science, PhD, Academy Prof., Finnish Meteorological Institute
- Laaksonen, *Toni* Kristian, b. 1973, elected 2020, Section of Science, PhD, Prof., University of Turku
- **Laamanen,** *Tomi*, b. 1968, elected 2023, Section of the Humanities, PhD, Prof., University of St.Gallen
- Laasonen, *Kari* Erik, b. 1963, elected 2007, Section of Science, PhD, Prof., Aalto University

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- Laiho, Marikki Karin, b. 1961, elected 2008, Section of Science, M.D., Prof., University of Helsinki, Willard and Lillian Hackerman prof. of radiation oncology, Johns Hopkins University
- Laiho, *Raija* Leena Hellevi, b. 1963, elected 2019, Section of Science, D.Sc., Research Prof., Natural Resources Institute Finland
- Laine, Anna-Liisa, b. 1975, elected 2017, Section of Science, PhD, Prof., University of Helsinki
- Laine, *Ilpo* Ensio, b. 1942, elected 1986, Section of Science, PhD, Prof. emer., University of Joensuu
- Laine, *Janne*, b. 1968, elected 2022, Section of Science, Prof., Aalto University
- Laine, Ale Matti Juhani, b. 1955, elected 2014, Section of the Humanities, PhD, Prof., Åbo Akademi University
- Laine, Tuija Vappu Hillevi, b. 1964, elected 2017, Section of the Humanities, ThD, Prof., University of Helsinki
- Laitinen, Lea Marjatta, b. 1946, elected 2003, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Laitinen**, *Mikko* Pekka, b. 1973, elected 2022, Section of the Humanities, PhD, Prof., University of Eastern Finland
- Laitinen, *Risto* Sakari, b. 1952, elected 2003, Section of Science, D.Sc. (Tech.), Prof., University of Oulu
- Lajunen, Lauri Heikki Juhani, b. 1950, elected 2001, Section of Science, PhD, Prof. emer., University of Oulu
- Lakka, *Timo*, b. 1963, elected 2023, Section of Science, M.D., Prof., University of Eastern Finland
- **Lamberg**, *Juha-Antti*, elected 2021, Section of the Humanities, Prof., University of Jyväskylä

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- Lappalainen, Juha Antero, b. 1947, elected 2000, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- **Lappalainen**, *Jussi* Tapani, b. 1935, elected 1989, Section of the Humanities, PhD, Prof. emer., University of Turku
- **Lappalainen,** *Pekka* Juhani, b. 1966, elected 2021, Section of Science, PhD, Prof., University of Helsinki
- Lappi, Tuomas Veli Valtteri, b. 1978, elected 2021, Section of Science, PhD, Prof., University of Jyväskylä
- Lappi-Seppälä, Sampo *Tapio*, b. 1953, elected 2009, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- Lassas, *Matti* Juhani, b. 1969, elected 2013, Section of Science, PhD, Prof., University of Helsinki
- Lassila, Riitta Pirkko Tuulikki, b. 1957, elected 2016, Section of Science, M.D., Prof., University of Helsinki
- Lauha, Aila Marjatta, b. 1951, elected 2008, Section of the Humanities, ThD, Prof., University of Helsinki
- **Lavonen**, *Jari* Matti Juhani, b. 1958, elected 2014, Section of the Humanities, PhD, Prof., University of Helsinki
- **Lehesjoki**, *Anna-Elina*, b. 1960, elected 2013, Section of Science, M.D., Prof., University of Helsinki
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- **Lindgren**, *Lauri* Bernhard, b. 1933, elected 1988, Section of the Humanities, PhD, Prof. emer., University of Turku
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- **Lohi,** *Hannes*, elected 2022, Section of Science, PhD, Prof., University of Helsinki
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- Lunkka, *Juha Pekka*, b. 1958, elected 2006, Section of Science, PhD, Prof., University of Oulu
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- **Makarow**, *Marja*, b. 1948, elected 2003, Section of Science, PhD, President, Academia Europaea
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- Mäki, *Markku* Juhani, b. 1947, elected 2005, Section of Science, M.D., Prof. emer., Tampere University
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- Mäki-Tanila, Asko Vilhelm, b. 1951, elected 1998, Section of Science, PhD, Prof., University of Helsinki
- Mäkinen, Virpi Helena, elected 2014, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- Mälkki, *Pentti* Urpo, b. 1940, elected 1983, Section of Science, PhD, Director, Prof., retired, Finnish Institute of Marine Research
- Männistö, *Pekka* Topias, b. 1946, elected 2010, Section of Science, M.D., Prof. emer., University of Helsinki
- Mäntysaari, Esa Antero, b. 1958, elected 2010, Section of Science, PhD, Prof., Natural Resources
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- **Mönkkönen**, *Jukka* Tapani, b. 1959, elected 2019, Section of Science, D.Sc., Prof., University of Eastern Finland
- **Mönkkönen**, Vesa *Mikko*, b. 1961, elected 2018, Section of Science, PhD, Prof., University of Jyväskylä

- Möttönen, Mikko, b. 1980, elected 2023, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- Neittaanmäki, *Pekka* Juhani, b. 1951, elected 1994, Section of Science, PhD, Prof., University of Jyväskylä
- Nenola, Aili Annikki, b. 1942, elected 2002, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Neuvo, Yrjö Aunus Olavi, b. 1943, elected 1993, Section of Science, PhD, Retired Director, Nokia Corp., Prof., Aalto University
- Nevalainen, Taimi *Terttu* Annikki, b. 1952, elected 2001, Section of the Humanities, PhD, Prof., University of Helsinki
- Nevanlinna, Heikki Kai Olavi, b. 1947, elected 1985, Section of Science, PhD, Prof. emer., University of Helsinki
- Nevanlinna, Eero *Olavi*, b. 1948, elected 1987, Section of Science, D.Sc. (Tech.), Prof. emer., Aalto University
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- Niemelä, *Pekka* Juhani, b. 1949, elected 2014, Section of Science, PhD, Prof. emer., University of Turku
- Niemi, Hannele Marjatta, b. 1948, elected 2004, Section of the Humanities, PhD, Prof. emer., University of Helsinki, UNESCO-prof.
- Niemi, *Johanna* Taru Marja, b. 1957, elected 2020, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- Niemi, *Jussi*, b. 1950, elected 2007, Section of the Humanities, PhD, Prof. emer., University of Eastern Finland
- **Niemi**, *Marjaana*, b. 1963, elected 2017, Section of the Humanities, PhD, Prof., Tampere University
- Niemi, *Mikko* Olavi, b. 1975, elected 2014, Section of Science, M.D., Prof., University of Helsinki
- Niemi, *Pekka* Olavi, b. 1948, elected 1996, Section of the Humanities, PhD (Psych.), Prof. emer., University of Turku
- Nieminen, Risto Matti, b. 1948, elected 1984, Section of Science, D.Sc. (Tech.), Academician of Science, Prof. emer., Aalto University

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- Nikinmaa, *Mikko* Juhani, b. 1954, elected 1998, Section of Science, PhD, Prof., University of Turku
- Nikula, *Riitta* Kaarina, b. 1944, elected 1993, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Nissinen, Martti Heikki, b. 1959, elected 2009, Section of the Humanities, ThD, Prof., University of Helsinki
- Nordlund, *Kai*, b. 1969, elected 2017, Section of Science, PhD, Prof., University of Helsinki
- Norros, *Ilkka*, b. 1953, elected 2015, Section of Science, Research Prof. emer., VTT
- Nummelin, Esa, b. 1951, elected 2003, Section of Science, D.Sc. (Tech.), Prof. emer., University of Helsinki
- **Nummenmaa,** *Lauri*, b. 1977, elected 2022, Section of the Humanities, PhD, Prof., University of Turku
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- Nuutila, *Pirjo* Riitta, b. 1959, elected 2019, Section of Science, M.D., Prof., University of Turku
- Nyberg, Kaisa Tellervo, b. 1948, elected 2006, Section of Science, PhD, Prof. emer., Aalto University
- Nygård, *Toivo*, b. 1943, elected 2003, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
- Oja, *Erkki*, b. 1948, elected 1992, Section of Science, D.Sc. (Tech.), Prof. emer., Aalto University

- Oja, Hannu Frans Vilhelm, b. 1950, elected 2008, Section of Science, PhD, Prof., University of Turku
- Ojala, *Jari* Antero, b. 1968, elected 2018, Section of the Humanities, PhD, Prof., University of Jyväskylä
- Ojala, Matti Juhani, b. 1944, elected 2001, Section of Science, D.Sc., Prof. emer., University of Helsinki
- **Ojanen**, Matti Mika *Tuomas*, b. 1966, elected 2023, Section of the Humanities, LL.D., Prof., University of Helsinki
- Oksman, Leevi Otto *Juhani*, b. 1931, elected 1976, Section of Science, D.Sc. (Tech.), Prof. emer., University of Oulu
- Olkinuora, *Erkki* Tapio, b. 1943, elected 1991, Section of the Humanities, DSocSci, Prof. emer., University of Turku
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- Onikki-Rantajääskö, *Tiina*, b. 1960, elected 2016, Section of the Humanities, PhD, Prof., University of Helsinki
- **Orponen**, Olli *Pekka*, b. 1959, elected 2013, Section of Science, PhD, Prof., Aalto University
- Otonkoski, *Timo* Pyry Juhani, b. 1956, elected 2013, Section of Science, M.D., Prof., University of Helsinki
- Oulasvirta, Antti Olavi, elected 2019, Section of Science, Prof., Aalto University
- Ovaskainen, Otso Tapio, b. 1970, elected 2013, Section of Science, D.Sc. (Tech.), Prof., University of Helsinki, Academy Prof.
- Paalanen, Mikko Antero, b. 1948, elected 1992, Section of Science, D.Sc. (Tech.), Prof. emer., Aalto University
- Paasi, Anssi Ilmari, b. 1955, elected 2001, Section of Science, PhD, Prof., University of Oulu
- Paavilainen, Eero Sampo Sakari, b. 1936, elected 1995, Section of Science, D.Sc., Prof. emer, Finnish Forest Research Institute
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- Pakkala, Juha Kalevi, elected 2020, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- Pakkanen, Tapani Antti, b. 1949, elected 1992, Section of Science, PhD, Prof. emer., University of Eastern Finland
- **Palander**, Helli *Marjatta*, b. 1955, elected 2009, Section of the Humanities, PhD, Prof., University of Eastern Finland
- Palander-Collin, Minna Johanna, b. 1967, elected 2017, Section of the Humanities, PhD, Prof., University of Helsinki
- Palmroth, Minna Maria Emilia, b. 1975, elected 2018, Section of Science, PhD, Prof., University of Helsinki
- Paloheimo, Heikki Mauri Osmo, b. 1946, elected 2010, Section of the Humanities, DSocSci, Prof. emer., Tampere University
- **Palonen**, *Kari* Ilmari, b. 1947, elected 2005, Section of the Humanities, DSocSci, Prof. emer., University of Jyväskylä
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- Palotie, Aarno, elected 2012, Section of Science, M.D., Prof., University of Helsinki, Massachusetts General Hospital and Broad Institute of MIT and Harvard
- Palva, Erkki *Tapio*, b. 1947, elected 1997, Section of Science, PhD, Prof. emer., University of Helsinki
- Palvimo, Jorma Juhani, b. 1959, elected 2016, Section of Science, PhD, Prof., University of Eastern Finland
- Pamilo, *Pekka*, b. 1949, elected 1999, Section of Science, PhD, Prof. emer., University of Helsinki
- Panula, *Pertti* Aarre Juhani, b. 1952, elected 2014, Section of Science, M.D., Prof., University of Helsinki
- Papunen, Heikki Tapani, b. 1936, elected 1984, Section of Science, PhD, Prof. emer., University of Turku
- Parpola, *Asko* Heikki Siegfried, b. 1941, elected 1990, Section of the Humanities, PhD, Prof. emer., University of Helsinki

- Parpola, Simo Kaarlo Antero, b. 1943, elected 1993, Section of the Humanities, PhD, Prof. emer., University of Helsinki
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- Pasternack, Amos Isak, b. 1936, elected 1996, Section of Science, M.D., Prof. emer., Tampere University
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- **Pekola**, *Jukka*, b. 1958, elected 2001, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- Pelkonen, Reino Olavi, b. 1945, elected 2004, Section of Science, M.D., Prof. emer., University of Oulu
- Pelkonen, *Risto* Lauri Agathon, b. 1931, elected 1992, Section of Science, M.D., Archiater, Prof. emer., University of Helsinki
- Pellikka, *Petri* Kauko Emil, b. 1965, elected 2010, Section of Science, PhD, Prof., University of Helsinki
- **Pellinen**, *Risto* Juhani, b. 1944, elected 1990, Section of Science, PhD, Prof. emer., Finnish Meteorological Institute
- Peltola, Heikki Olavi, b. 1943, elected 2004, Section of Science, M.D., Prof. emer., University of Helsinki
- Peltola, *Heli* Maarit, b. 1965, elected 2018, Section of Science, D.Sc., Prof., University of Eastern Finland
- Peltomäki, *Päivi* Tuulikki, b. 1959, elected 2012, Section of Science, M.D., Prof., University of Helsinki

- **Peltonen**, *Markku* Aimo Olavi, b. 1957, elected 2009, Section of the Humanities, PhD, Prof., University of Helsinki
- Peltonen, *Matti* Tapani, b. 1952, elected 2011, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Peltonen-Sainio, *Pirjo*, b. 1963, elected 2004, Section of Science, D.Sc., Prof., Natural Resources Institute Finland
- **Pennanen**, *Taina* Liisa, elected 2021, Section of Science, PhD, Research Prof., Natural Resources Institute Finland
- **Pentikäinen**, *Juha* Yrjänä, b. 1940, elected 1995, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Penttilä, Merja Elisa, elected 2015, Section of Science, PhD, Academician of Science, Research Prof., VTT
- **Penttonen**, *Martti* Aleksander, b. 1948, elected 1992, Section of Science, PhD, Prof. emer., University of Eastern Finland
- Perheentupa, Jaakko Pentti, b. 1934, elected 1991, Section of Science, M.D., Prof. emer., University of Helsinki
- Peräkylä, Anssi Matti, b. 1957, elected 2010, Section of the Humanities, PhD, Prof., University of Helsinki
- **Pesonen**, *Lauri* Juhani, b. 1944, elected 2002, Section of Science, PhD, Prof. emer., University of Helsinki
- Pessi, *Anne Birgitta*, b. 1975, elected 2012, Section of the Humanities, ThD, Prof., University of Helsinki
- Pettersson, *Mika* Johannes, b. 1969, elected 2017, Section of Science, PhD, Prof., University of Jyväskylä
- Pettersson, *Torsten* Per Gustav, b. 1955, elected 1993, Section of the Humanities, PhD, Prof., Uppsala University
- Petäjä, *Tuukka*, b. 1975, elected 2024, Section of Science, Prof., University of Helsinki
- **Piekkari**, *Rebecca*, b. 1967, elected 2016, Section of the Humanities, DEc, Prof., Aalto University

- **Pietikäinen**, *Sari*, b. 1968, elected 2024, Section of the Humanities, Prof., University of Jyväskylä
- **Pihko**, *Petri* Matias, b. 1971, elected 2016, Section of Science, PhD, Prof., University of Jyväskylä
- Pihlajamäki, *Heikki* Tapio, b. 1961, elected 2014, Section of the Humanities, LL.D., Prof., University of Helsinki, Academy Prof.
- Pihlajaniemi, *Taina* Annikki, b. 1957, elected 1995, Section of Science, M.D., Prof., University of
- Pihlajarinne, *Taina* Elisa, b. 1977, elected 2023, Section of the Humanities, LL.D., Prof., University of Helsinki
- Pihlström, Sami, b. 1969, elected 2017, Section of the Humanities, PhD, Prof., University of Helsinki
- **Piironen**, *Vieno* Irene, b. 1955, elected 2008, Section of Science, D.Sc., Prof., University of Helsinki
- Pitulainen, *Marja-Leena*, b. 1945, elected 2005, Section of the Humanities, PhD, Prof. emer., Tampere University
- Pirttilä, Jukka Olavi, b. 1970, elected 2019, Section of the Humanities, DSocSci, Prof., University of Helsinki
- Pitkänen, Asla Sirkka Liisa, b. 1959, elected 2010, Section of Science, M.D., PhD, Prof., University of Eastern Finland
- Pitkäranta, Markku *Juhani*, b. 1948, elected 2001, Section of Science, D.Sc. (Tech.), Prof. emer., Aalto University
- **Pohjola**, *Matti* Tapani, b. 1950, elected 1996, Section of the Humanities, D.Ph., Prof., Aalto University
- Poso, Simo Johannes, b. 1938, elected 1995, Section of Science, D.Sc., Prof. emer., University of Helsinki
- **Poutanen**, *Juri*, b. 1965, elected 2016, Section of Science, PhD, Prof., University of Turku
- Poutanen, Kaisa Sinikka, b. 1954, elected 2015, Section of Science, D.Sc. (Tech.), Research Prof., VTT
- Poutanen, Markku Juhani, b. 1955, elected 2009, Section of Science, PhD, Prof., Secretary General, International Association of Geodesy IAG

- Poutiainen, Esko Kalevi, b. 1936, elected 1983, Section of Science, D.Sc., Prof. emer., Agrifood Research Finland
- **Priimägi**, *Arri*, b. 1980, elected 2024, Section of Science, Prof., Tampere University
- Primmer, Craig Robert, b. 1970, elected 2009, Section of Science, PhD, Prof., University of Helsinki
- Puhakka, Mikko Tapio, b. 1955, elected 2012, Section of the Humanities, PhD, Prof., University of Oulu
- Pulkkinen, Lea Raakel, b. 1939, elected 1994, Section of the Humanities, EdD, Prof. emer., University of Jyväskylä
- Pulkkinen, Tuija Kaarina, b. 1956, elected 2011, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Pulkkinen, Tuija Inkeri, b. 1962, elected 2001, Section of Science, PhD, Chair of the Climate and Space Sciences and Engineering Department, University of Michigan
- Punamäki, Raija-Leena Eliisa, b. 1952, elected 2007, Section of the Humanities, PhD, Prof., Tampere University
- Punkkinen, Matti, b. 1939, elected 1982, Section of Science, PhD, Prof. emer., University of Turku
- **Puolanne**, *Eero*, b. 1947, elected 2001, Section of Science, D.Sc., Prof. emer., University of Hel-
- Puska, Martti Juhani, b. 1955, elected 2006, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- Puttonen, *Pasi* Kalevi, b. 1954, elected 2014, Section of Science, D.Sc., Prof., University of Helsinki
- Pyrhönen, Heta Marjatta, b. 1960, elected 2005, Section of the Humanities, PhD, Prof., University of Helsinki
- Pyykkö, Veli Pekka, b. 1941, elected 1989, Section of Science, PhD, Prof. emer., University of Helsinki
- Pyysiäinen, *Ilkka* Eljas, b. 1959, elected 2007, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- Päivänen, Eero Juhani, b. 1941, elected 1997, Section of Science, D.Sc., Prof. emer., University of Helsinki

- Päivärinta, *Lassi* Juhani, b. 1954, elected 1991, Section of Science, PhD, Prof., University of Tallinn
- Pönkä, Ilkka Hannu Ville, b. 1981, elected 2023, Section of the Humanities, LL.D., Prof., University of Helsinki
- Pöysä, Hannu Kalervo, b. 1957, elected 2018, Section of Science, PhD, Principal Scientist, retired, Natural Resources Institute Finland
- Raitakari, Olli Tuomas, b. 1963, elected 2014, Section of Science, M.D., Prof., University of Turku
- Raitio, *Juha* Tapani, b. 1967, elected 2021, Section of the Humanities, LL.D., Prof., University of Helsinki
- Raivio, Kari Olavi, b. 1940, elected 1987, Section of Science, M.D., Prof. emer., University of Helsinki
- Rantala, *Veikko* Reima, b. 1933, elected 1989, Section of the Humanities, PhD, Prof. emer., Tampere University
- Rantanen, *Taina* Tuulikki, b. 1959, elected 2022, Section of Science, PhD, Prof., University of Jyväskylä
- Rasku-Puttonen, *Helena* Marjatta, b. 1952, elected 2015, Section of the Humanities, PhD (Psych.), Prof., University of Jyväskylä
- **Raunio**, Raimo *Tapio*, b. 1969, elected 2011, Section of the Humanities, PhD, Prof., Tampere University
- Rauvala, *Heikki* Matti Eemeli, b. 1947, elected 2001, Section of Science, M.D., Prof. emer., University of Helsinki
- **Rentola**, *Kimmo* Kaleva, b. 1953, elected 2009, Section of the Humanities, DSocSci, Prof., University of Helsinki
- **Repo**, *Timo* Juhani, b. 1967, elected 2017, Section of Science, PhD, Prof., University of Helsinki
- Riekkola, *Marja-Liisa*, b. 1953, elected 2007, Section of Science, PhD, Prof., University of Helsinki
- Riikonen, *Hannu* Kalevi H.K, b. 1948, elected 2002, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Rikkinen, Jouko Kalevi, b. 1961, elected 2015, Section of Science, PhD, Prof., University of Helsinki

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- Rinne, *Juha*, b. 1960, elected 2021, Section of Science, Prof., University of Turku
- Rinne, Heikki Juhani, b. 1939, elected 2003, Section of Science, PhD, Research Prof. emer, Finnish Meteorological Institute
- Rinne, Risto Armas Tapani, b. 1952, elected 2002, Section of the Humanities, EdD, Prof., University of Turku
- Riska, *Dan-Olof* Wilhelm, b. 1944, elected 2001, Section of Science, D.Sc. (Tech.), Prof. emer., University of Helsinki
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- Ritala, Mikko Kalervo, b. 1968, elected 2009, Section of Science, PhD, Prof., University of Helsinki
- Roos, Jeja Pekka J.P, b. 1945, elected 1995, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Routti, *Jorma* Tapio, b. 1938, elected 1982, Section of Science, PhD, former Director General of DG XII
- **Rummukainen**, *Kari* Olavi, b. 1962, elected 2009, Section of Science, PhD, Prof., University of Helsinki
- **Ruoppila**, *Isto* Raimo, b. 1935, elected 1992, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
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- Ruusuvuori, *Johanna* Elisabeth, b. 1964, elected 2015, Section of the Humanities, DSocSci, Prof., Tampere University
- Räihä, *Kari-Jouko*, b. 1951, elected 2003, Section of Science, PhD, Prof. emer., Tampere University
- Räikkä, *Juha* Aimo Tapio, b. 1965, elected 2018, Section of the Humanities, PhD, Prof., University of Turku

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- Räsänen, Markku Olavi, b. 1949, elected 2000, Section of Science, PhD, Prof. emer., University of Helsinki
- Saarenpää, *Ahti*, b. 1946, elected 2003, Section of the Humanities, LL.D., Prof. emer., University of Lapland
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- **Saarinen**, *Timo* Olavi, b. 1957, elected 2011, Section of the Humanities, DEc, Prof. emer., Aalto University
- Saarnisto, *Matti* Juhani, b. 1942, elected 1995, Section of Science, PhD, Research Prof. emer., Geological Survey of Finland
- Saastamoinen, Olli Juhani, b. 1945, elected 2004, Section of Science, D.Sc., Prof. emer., University of Eastern Finland
- Saikkonen, Pentti Juhani, b. 1952, elected 2011, Section of Science, DSocSci, Prof. emer., University of Helsinki
- Sakaranaho, *Tuula* Helena, b. 1955, elected 2014, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Saksela**, *Kalle* Martti, b. 1962, elected 2003, Section of Science, M.D., Prof., University of Helsinki
- **Saksman**, *Eero* Antti, b. 1962, elected 2007, Section of Science, PhD, Prof., University of Helsinki
- Salmela-Aro, Jaana *Katariina*, b. 1961, elected 2018, Section of the Humanities, PhD (Psych.), Prof., University of Helsinki, Academy Prof.

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- Salmi, Marko Henrikki, elected 2023, Section of Science, M.D., Prof., University of Turku
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- **Salminen,** *Tapani* Antero, b. 1962, elected 2004, Section of the Humanities, PhD, Prof., University of Helsinki
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- Salo, Jouko *Heikki* Kalevi, b. 1959, elected 2013, Section of Science, PhD, Prof., University of Oulu
- Salo, *Mikko* Johannes, b. 1979, elected 2020, Section of Science, PhD, Prof., University of Jyväskylä
- **Salo**, *Tuula* Anneli, b. 1958, elected 2010, Section of Science, MDM, Prof., University of Oulu
- Salomaa, Arto Kustaa, b. 1934, elected 1970, Section of Science, PhD, Academician of Science, Prof. emer., University of Turku
- Salomaa, Ralf *Rainer* Eerik, b. 1947, elected 2010, Section of Science, D.Sc. (Tech.), Prof. emer., Aalto University
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- **Salonen**, *Kirsi* Leena, b. 1972, elected 2020, Section of the Humanities, PhD, LL.D., Prof., University of Bergen
- **Salonen**, *Veli-Pekka*, b. 1952, elected 1997, Section of Science, PhD, Prof., University of Helsinki
- Sammallahti, *Pekka* Lars Kalervo, b. 1947, elected 1988, Section of the Humanities, PhD, Prof. emer., University of Oulu

- Sams, *Mikko* Ensio, b. 1953, elected 2018, Section of the Humanities, PhD, Prof., Aalto University
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- Sariola, Hannu, b. 1954, elected 2003, Section of Science, M.D., PhD, Prof. emer., University of Helsinki
- Saukkonen, *Pauli*, b. 1933, elected 1992, Section of the Humanities, PhD, Prof. emer., Institute of the Languages of Finland
- Saura, Anssi Jaakko Elias, b. 1943, elected 1985, Section of Science, PhD, Prof. emer., Umeå University
- Savijärvi, Hannu Ilmari, b. 1947, elected 1999, Section of Science, PhD, Prof. emer., University of Helsinki
- Savolainen, Markku Juhani, b. 1950, elected 2008, Section of Science, M.D., Prof. emer., University of Oulu
- **Savolainen**, *Outi* Anitra, b. 1951, elected 2002, Section of Science, PhD, Prof., University of Oulu
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- **Scheinin**, *Mika*, b. 1952, elected 2009, Section of Science, M.D., Prof., University of Turku
- **Schwab,** *Ursula* Sonja, b. 1968, elected 2019, Section of Science, PhD, Prof., University of Eastern Finland
- **Seppä**, *Heikki* Tapani, b. 1964, elected 2013, Section of Science, PhD, Prof., University of Helsinki
- Seppälä, *Jukka* Veli, b. 1955, elected 2005, Section of Science, D.Sc. (Tech.), Prof., Aalto University
- **Seppälä**, *Markku* Tapio, b. 1936, elected 1982, Section of Science, M.D., Prof. emer., University of Helsinki
- Seppälä, Risto Juhani, b. 1943, elected 2001, Section of Science, DSocSci, Prof. emer., Finnish Forest Research Institute

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- **Sihvonen**, *Jukka* Veli Olavi, b. 1953, elected 2014, Section of the Humanities, PhD, Prof., University of Turku
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- **Sikanen**, *Tiina* Marjukka, b. 1978, elected 2023, Section of Science, D.Sc., Prof., University of Helsinki
- Sillanpää, Mika Erik Tapio, elected 2018, Section of Science, D.Sc. (Tech.), Visiting Prof., Florida International University
- **Sillanpää**, *Mika* Antero, b. 1976, elected 2016, Section of Science, PhD, Prof., Aalto University
- **Siltala,** *Juha* Heikki, b. 1957, elected 2014, Section of the Humanities, PhD, Prof., University of Helsinki
- **Siltala**, *Raimo* Olavi, elected 2022, Section of the Humanities, LL.D., Prof., University of Turku
- **Siltanen**, *Samuli*, b. 1970, elected 2020, Section of Science, D.Sc. (Tech.), Prof., University of Helsinki
- Silvennoinen, Olli Juhani, b. 1960, elected 2002, Section of Science, M.D., Prof. emer., University of Helsinki
- **Simell**, *Olli* Gunnar, b. 1945, elected 2003, Section of Science, M.D., Prof. emer., University of Turku
- **Simola**, *Hannu* Jaakko, b. 1950, elected 2014, Section of the Humanities, EdD, Prof. emer., University of Helsinki
- **Sintonen**, *Matti* Tapani, b. 1951, elected 2008, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Sipilä, *Jorma* Jaakko Kalevi, b. 1945, elected 2000, Section of the Humanities, DSocSci, Prof. emer., Tampere University
- **Siponen**, Timo *Mikko* Tapani, b. 1974, elected 2019, Section of Science, PhD, DSocSci, Prof., University of Alabama
- Sistonen, *Lea* Tuulikki, b. 1959, elected 2004, Section of Science, PhD, Prof., Åbo Akademi University

- Sisula-Tulokas, *Lena*, b. 1945, elected 2001, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- **Sivonen,** Anna *Kaarina*, b. 1954, elected 2002, Section of Science, D.Sc., Prof. emer., University of Helsinki
- **Slotte**, *Pamela* Paulina, elected 2022, Section of the Humanities, ThD, Prof., Åbo Akademi University
- Snellman, Hanna Kyllikki, b. 1961, elected 2010, Section of the Humanities, PhD, Prof., University of Helsinki
- **Soininen**, *Hilkka* Sirkku, b. 1950, elected 2010, Section of Science, M.D., Prof. emer., University of Eastern Finland
- **Solin,** *Heikki* Lauri Abel, b. 1938, elected 1983, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Sollamo**, *Raija* Tellervo, b. 1942, elected 2006, Section of the Humanities, ThD, Prof. emer., University of Helsinki
- **Somersalo,** *Erkki* Jaakko, b. 1960, elected 2007, Section of Science, PhD, Prof., Case Western Reserve University
- **Sorjonen**, *Marja-Leena*, b. 1956, elected 2015, Section of the Humanities, PhD, Prof., University of Helsinki
- **Sorsa**, *Veikko* Valio, b. 1928, elected 1979, Section of Science, PhD, Prof. emer., University of Helsinki
- **Sourander**, *Andre*, b. 1959, elected 2023, Section of Science, M.D., Prof., University of Turku
- **Stark**, *Laura* Michelle, b. 1966, elected 2013, Section of the Humanities, PhD, Prof., University of Jyväskylä
- **Steinby,** Eva *Margareta*, b. 1938, elected 2000, Section of the Humanities, PhD, Prof. emer., University of Oxford
- **Stenbacka**, Leif *Rune*, b. 1960, elected 2010, Section of the Humanities, DSocSci, Hanken School of Economics
- **Stoddard,** Frederick Lothrop *Fred*, b. 1958, elected 2021, Section of Science, PhD, Prof., University of Helsinki

- **Strandberg,** *Timo* Einar, b. 1953, elected 2013, Section of Science, M.D., Prof., University of Helsinki, University of Oulu
- **Suhonen**, *Jouni* Tapio, b. 1956, elected 2019, Section of Science, PhD, Prof., University of Jyväskylä
- **Sulkunen**, *Irma* Hilda Tuulikki, b. 1948, elected 2006, Section of the Humanities, PhD, Prof. emer., Tampere University
- Sulkunen, Pekka Juhani, b. 1948, elected 2002, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Sun, *Zhipei*, b. 1978, elected 2022, Section of Science, Prof., Aalto University
- Sundholm, Dage Mats Börje, b. 1957, elected 2015, Section of Science, PhD, Prof., University of Helsinki
- **Suomela-Härmä,** Marja *Elina*, b. 1946, elected 2002, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Suominen**, *Kalle-Antti*, b. 1964, elected 2002, Section of Science, PhD, Prof., University of Turku
- Syrjälä, *Leena*, b. 1947, elected 2001, Section of the Humanities, PhD. Prof. emer., University of Oulu
- Sänkiaho, *Risto* Heikki, b. 1941, elected 2001, Section of the Humanities, DSocSci, Prof. emer.,

 Tampere University
- **Taalas**, Jukka *Petteri*, b. 1961, elected 2009, Section of Science, PhD, Prof., Director General. Finnish Meteorological Institute
- **Taavitsainen**, *Irma*, elected 2004, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Taavitsainen**, *Jussi-Pekka*, b. 1951, elected 2004, Section of the Humanities, PhD, Prof., University of Turku
- **Tahvonen**, *Olli* Ilari, b. 1958, elected 2010, Section of the Humanities, DEc, Prof., University of Helsinki
- **Tainio**, *Risto*, b. 1947, elected 1992, Section of the Humanities, DEc, Prof. emer., Aalto University
- **Taipale**, *Jussi*, b. 1968, elected 2020, Section of Science, Prof., University of Helsinki, Karolinska Institutet, University of Cambridge

- Tanila, *Heikki* Juhani, b. 1962, elected 2020, Section of Science, M.D., Prof., University of Eastern Finland
- Tanskanen, *Antti* Johannes, b. 1946, elected 1993, Section of the Humanities, PhD (Econ.), Prof., University of Jyväskylä; Director, retired, OP Group
- Tanskanen, Sanna-Kaisa, b. 1965, elected 2017, Section of the Humanities, PhD, Prof., University of Helsinki
- **Tarasti**, *Eero* Aarne Pekka, b. 1948, elected 1987, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Tarkiainen**, *Kari*, b. 1938, elected 2000, Section of the Humanities, PhD, Director, retired, National Archives of Finland, State Archivist emer.
- Tarkka, *Lotte* Maria, b. 1963, elected 2012, Section of the Humanities, PhD, Prof., University of Helsinki
- Taskinen, *Marja-Riitta*, b. 1940, elected 2002, Section of Science, M.D., Prof. emer., University of Helsinki
- **Teeri**, *Teemu* Heikki, b. 1956, elected 2010, Section of Science, PhD, Prof., University of Helsinki
- **Tenhu**, *Heikki* Juhani, b. 1955, elected 2013, Section of Science, PhD, Prof., University of Helsinki
- **Tenkanen**, Tiina *Maija*, b. 1963, elected 2016, Section of Science, D.Sc. (Tech.), Prof., University of Helsinki
- **Tepora**, *Jarno* Kalervo, b. 1948, elected 2004, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- **Tervo-Niemelä,** *Kati*, b. 1972, elected 2017, Section of the Humanities, ThD, Prof., University of Eastern Finland
- **Thesleff**, *Irma* Paula Nathalia, b. 1948, elected 1994, Section of Science, MDM, Academician of Science, Prof. emer., University of Helsinki
- **Thuneberg**, *Erkki* Veikko, b. 1955, elected 2005, Section of Science, D.Sc. (Tech.), Prof. emer., University of Oulu
- **Tiittula,** *Liisa* Maria, b. 1950, elected 2009, Section of the Humanities, PhD, Prof. emer., University of Helsinki

- **Tikkanen**, *Matti J*, b. 1943, elected 2003, Section of Science, M.D., Prof. emer., University of Helsinki
- Tilvis, *Reijo*, b. 1945, elected 2005, Section of Science, M.D., Prof. emer., University of Helsinki
- **Tirri**, *Kirsi* Anne Helena, b. 1961, elected 2006, Section of the Humanities, EdD, Prof., University of Helsinki
- **Toivanen**, *Auli* Marjaana, b. 1938, elected 1991, Section of Science, M.D., Prof. emer., University of Turku
- **Toivanen**, *Otto* Iisakki, b. 1965, elected 2020, Section of the Humanities, PhD, Prof., Aalto University
- **Toivanen**, *Reetta* Johanna, elected 2021, Section of the Humanities, PhD, Prof., University of Helsinki
- **Toivo,** *Raisa Maria*, b. 1972, elected 2021, Section of the Humanities, PhD, Prof., Tampere University
- **Toivonen**, *Hannu* Tauno Tapani, b. 1967, elected 2015, Section of Science, PhD, Prof., University of Helsinki
- **Toivonen**, *Tuuli*, b. 1974, elected 2024, Section of Science, Prof., University of Helsinki
- **Tomppo**, *Erkki* Olavi, b. 1947, elected 2002, Section of Science, DSocSci, Prof. emer., Natural Resources Institute Finland
- **Toom,** *Auli* Mari Hannele, b. 1975, elected 2020, Section of the Humanities, PhD, Prof., University of Helsinki
- **Toppari,** *Jorma* Into Kalervo, b. 1958, elected 2013, Section of Science, M.D., Prof., University of Turku
- **Toppinen**, *Anne*, b. 1966, elected 2020, Section of Science, D.Sc., Prof., University of Helsinki
- **Tryggvason**, *Karl*, b. 1947, elected 1992, Section of Science, M.D., Prof. emer., Karolinska Institutet
- Tukia, *Pekka* Pertti, b. 1945, elected 1992, Section of Science, PhD, Prof. emer., University of Helsinki
- **Tuomala**, *Matti*, b. 1949, elected 2001, Section of the Humanities, DSocSci, Prof. emer., Tampere University

- **Tuomi**, *Juha* Antero, b. 1953, elected 1999, Section of Science, PhD, Prof. emer., University of Oulu
- Tuomilehto, *Jaakko* Olavi Iivari, b. 1946, elected 2004, Section of Science, M.D., Prof. emer., University of Helsinki
- **Tuomisto**, *Hanna* Marjaana, b. 1965, elected 2021, Section of Science, PhD, Prof., University of Turku
- **Tuomisto**, *Jarmo* Juhani, b. 1952, elected 2006, Section of the Humanities, LL.D., Prof., University of Turku
- **Tuomisto**, *Jouko* Juhani, b. 1939, elected 1994, Section of Science, M.D., PhD, Prof. emer., National Public Health Institute of Finland
- **Tuononen**, *Heikki* Markus, b. 1978, elected 2021, Section of Science, PhD, Prof., University of Jyväskylä
- **Tuori**, *Kaarlo* Heikki, b. 1948, elected 1994, Section of the Humanities, LL.D., Prof. emer., University of Helsinki
- **Tuori**, *Kaius* Tapani, b. 1974, elected 2020, Section of the Humanities, LL.D., Prof., University of Helsinki
- **Tuorila,** *Hely* Margareetta, b. 1950, elected 2010, Section of Science, D.Sc., Prof., University of Helsinki
- **Turpeinen,** *Oiva* Paavo, b. 1942, elected 2005, Section of the Humanities, PhD, prof. h.c.
- **Tyrväinen**, *Liisa*, b. 1963, elected 2023, Section of Science, D.Sc., Research Prof., Natural Resources Institute Finland
- **Törmä**, *Päivi*, b. 1969, elected 2006, Section of Science, PhD, Prof., Aalto University
- **Törmälä**, *Pertti* Olavi, b. 1945, elected 1994, Section of Science, PhD, Academy Prof. emer., Tampere University of Technology
- Ukkonen, Esko Juhani, b. 1950, elected 2000, Section of Science, PhD, Prof. emer., University of Helsinki
- Uotila, Pertti Johannes, b. 1943, elected 2003, Section of Science, PhD, Prof. emer., University of Helsinki
- **Urtti,** *Arto* Olavi, b. 1956, elected 2012, Section of Science, D.Sc., Prof., University of Helsinki

- **Usoskin**, *Ilya*, b. 1965, elected 2019, Section of Science, PhD, Prof., University of Oulu
- **Utriainen**, *Terhi* Pepita, elected 2021, Section of the Humanities, PhD, Prof., University of Helsinki
- **Uusikylä,** *Kari* Tapio, b. 1945, elected 1999, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- **Uusitalo**, *Liisa* Anneli, b. 1944, elected 1997, Section of the Humanities, DEc, Prof. emer., Aalto University
- Uusitalo, Roope, b. 1968, elected 2024, Section of the Humanities, Prof., University of Helsinki, VAT'T Institute for Economic Research
- Uusitupa, Matti Ilmari Julius, b. 1946, elected 2005, Section of Science, M.D., Prof. emer., University of Eastern Finland
- Vaara, *Eero*, b. 1968, elected 2022, Section of the Humanities, DEc, Prof., University of Oxford
- Vaara, *Juha* Tapani, b. 1967, elected 2021, Section of Science, PhD, Prof., University of Oulu
- Vaarala, *Outi* Minna Anneli, b. 1962, elected 2014, Section of Science, M.D., Director, Innovative Medicines ja Research & Development, Orion
- Vaattovaara, *Mari* Kaarina, b. 1967, elected 2016, Section of the Humanities, PhD, Prof., University of Helsinki
- Waenerberg, Leeni *Annika*, b. 1952, elected 2005, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
- Vaheri, Antti Ilmari, b. 1938, elected 1985, Section of Science, M.D., Prof. emer., University of Helsinki
- Vahtola, *Jouko* Olavi, b. 1949, elected 2001, Section of the Humanities, PhD, Prof. emer., University of Oulu
- Vainio, *Martti*, b. 1960, elected 2020, Section of the Humanities, Prof., University of Helsinki
- Vainio, Olli-Pekka, b. 1976, elected 2021, Section of the Humanities, ThD, Prof., University of Helsinki
- Vainio-Korhonen, Kirsi Maaria, b. 1958, elected 2010, Section of the Humanities, PhD, Prof., University of Turku

- Valkonen, Yrjö *Tapani*, b. 1941, elected 1991, Section of the Humanities, DSocSci, Prof. emer., University of Helsinki
- Wallenius, Ilkka *Jyrki*, b. 1949, elected 2002, Section of the Humanities, DEc, Prof. emer., Aalto University
- Vallittu, Pekka Kalevi, b. 1965, elected 2023, Section of Science, MDM., Prof., University of Turku
- Valmari, Antti Arvi, b. 1961, elected 2008, Section of Science, D.Sc. (Tech.), Prof., University of Jyväskylä
- Valtonen, Mauri Juhani, b. 1945, elected 2009, Section of Science, PhD, Prof. emer., University of Turku
- van Leeuwen, *Robert*, b. 1967, elected 2021, Section of Science, Prof., University of Jyväskylä
- Vanhatalo, Aila Orvokki, b. 1960, elected 2016, Section of Science, D.Sc., Prof., University of Helsinki
- Vapaatalo, Heikki Ilmari, b. 1939, elected 1985, Section of Science, M.D., Prof. emer., University of Helsinki
- Vapalahti, *Olli* Pekka, b. 1963, elected 2018, Section of Science, M.D., Prof., University of Helsinki
- Varantola, Eeva *Krista* Johanna, b. 1946, elected 2005, Section of the Humanities, PhD, Prof. emer., Tampere University
- Vartiainen, *Hannu* Kalevi, b. 1968, elected 2022, Section of the Humanities, DSocSci, Prof., University of Helsinki
- Wartiovaara, Anu Elina, b. 1966, elected 2007, Section of Science, M.D., Academy Prof., University of Helsinki,
- Vasander, Harri Tapani, b. 1954, elected 2010, Section of Science, PhD, Prof., University of Helsinki
- Vattulainen, *Ilpo* Tapio, b. 1968, elected 2021, Section of Science, D.Sc. (Tech.), Prof., University of Helsinki
- Vauras, *Marja* Merja Sinikka, b. 1953, elected 2013, Section of the Humanities, PhD, Prof., University of Turku
- Vehkamäki, Hanna Tuula Katariina, b. 1969, elected 2014, Section of Science, PhD, Prof., University of Helsinki

- **Veijola**, *Riitta*, b. 1960, elected 2021, Section of Science, Prof., University of Oulu
- Ventola, *Eija* Maritta, b. 1951, elected 2011, Section of the Humanities, PhD, Prof. emer., Aalto University
- Vepsäläinen, Kari Antero, b. 1942, elected 1984, Section of Science, PhD, Prof., University of Helsinki
- Vesala, *Timo* Veikko, b. 1963, elected 2005, Section of Science, PhD, Prof., University of Helsinki
- Westermarck, *Jukka*, b. 1969, elected 2017, Section of Science, M.D., Prof., University of Turku
- Wiberg, *Matti* Johannes, b. 1954, elected 2003, Section of the Humanities, DSocSci, Prof. emer., University of Turku
- Wide, *Camilla* Maria, b. 1967, elected 2023, Section of the Humanities, PhD, Prof., University of Turku
- **Vihavainen**, *Timo* Juhani, b. 1947, elected 2009, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Vihervuori, Aimo *Pekka*, b. 1950, elected 2005, Section of the Humanities, LL.D., President, retired, Supreme Administrative Court
- Vihko, *Reijo* Kalevi, b. 1939, elected 1982, Section of Science, M.D., Prof. emer., University of Oulu
- Viikari, Jorma Sauli Antero, b. 1947, elected 2004, Section of Science, M.D., Prof. emer., University of Turku
- Viisanen, Yrjö Antero, b. 1959, elected 2008, Section of Science, PhD, Research Prof., Finnish Meteorological Institute
- Viljamaa, *Toivo* Matti Johannes, b. 1937, elected 1994, Section of the Humanities, PhD, Prof. emer., University of Turku
- Vilkki, Helmi *Johanna*, b. 1956, elected 2006, Section of Science, PhD, Prof. emer., Natural Resources Institute Finland
- Vilkuna, *Janne* Tapio, b. 1954, elected 2003, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
- Vilkuna, *Kustaa* Heikki Juhani, b. 1966, elected 2022, Section of the Humanities, PhD, Prof., University of Jyväskylä

- Virén, Matti Eino Ensio, b. 1948, elected 1997, Section of the Humanities, DSocSci, Prof. emer., University of Turku
- Virta, Marko Petri Juhani, b. 1968, elected 2022, Section of Science, PhD, Prof., University of Helsinki
- Virtanen, Keijo Aarre, b. 1945, elected 2000, Section of the Humanities, PhD, Prof. emer., University of Turku
- Visakorpi, *Jarmo* Kustaa, b. 1931, elected 1987, Section of Science, M.D., Prof. emer., Tampere University
- Visakorpi, *Tapio*, b. 1965, elected 2007, Section of Science, M.D., Prof., Tampere University
- Wrede, *Johan* Otto Wilhelm, b. 1935, elected 1982, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Vuola, Elina Inkeri Tellervo, b. 1960, elected 2019, Section of the Humanities, ThD, Prof., University of Helsinki
- Vuorinen, Aleksi Risto Johannes, b. 1980, elected 2020, Section of Science, PhD, Prof., University of Helsinki
- **Vuorinen**, *Tapani*, b. 1957, elected 2020, Section of Science, Prof., Aalto University
- Vuorio, Eero Ilkka, b. 1948, elected 1998, Section of Science, M.D., Prof. emer., University of Turku
- **Wähälä**, *Kristiina*, elected 2014, Section of Science, PhD, Prof. emer., University of Helsinki
- Väisälä, *Jussi* Ilmari, b. 1935, elected 1971, Section of Science, PhD, Prof. emer., University of Helsinki
- Välimäki, Juuso Tapani, b. 1966, elected 2007, Section of the Humanities, PhD, Prof., Aalto University
- Väyrynen, Raimo Veikko Antero, b. 1947, elected 1992, Section of the Humanities, DSocSci, former Prof., University of Helsinki, University of Notre Dame; former Director, Academy of Finland; Director, retired, Finnish Institute of International Affairs
- Väänänen, Jouko Antero, b. 1950, elected 2002, Section of Science, PhD, Prof., University of Helsinki

- Väänänen, Heikki *Kalervo*, b. 1952, elected 2000, Section of Science, M.D., Prof., University of Turku
- Yang, *Baoru*, b. 1966, elected 2023, Section of Science, PhD, Prof., University of Turku
- Yki-Järvinen, Hannele, b. 1956, elected 2001, Section of Science, M.D., Prof., University of Helsinki
- Yli-Halla, *Markku* Juhani, b. 1956, elected 2020, Section of Science, D.Sc., Prof. emer., University of Helsinki
- Yli-Jokipii, *Pentti* Olavi, b. 1941, elected 1988, Section of Science, PhD, Prof. emer., University of Turku
- Yli-Kauhaluoma, *Jari* Tapani, b. 1966, elected 2020, Section of Science, PhD, Prof., University of Helsinki
- **Ylikangas**, *Heikki* Eemeli, b. 1937, elected 1993, Section of the Humanities, PhD, Prof. emer., University of Helsinki
- Ylikorkala, Reino *Olavi*, b. 1942, elected 1996, Section of Science, M.D., Prof. emer., University of Helsinki

- Ylikoski, *Jussi* Mika Petteri, b. 1974, elected 2022, Section of the Humanities, PhD, Prof., University of Turku
- Yliperttula, *Marjo* Liisa, b. 1960, elected 2019, Section of Science, PhD, Prof., University of Helsinki
- Ylä-Herttuala, Seppo Pasi Antero, b. 1957, elected 2006, Section of Science, M.D., Prof., University of Eastern Finland
- Ylätalo, Eero *Matti* Olavi, b. 1946, elected 1999, Section of Science, D.Sc., Prof. emer., University of Helsinki
- Zetterberg, Seppo Juhani, b. 1945, elected 2006, Section of the Humanities, PhD, Prof. emer., University of Jyväskylä
- **Zhao**, *Guoying*, b. 1977, elected 2022, Section of Science, PhD, Academy Prof., University of Oulu
- **Zhong**, *Xiao*, PhD, b. 1969, elected 2024, Section of Science, Prof., University of Helsinki
- Äystö, Juha Heikki Eskeli, b. 1948, elected 1997, Section of Science, PhD, Prof. emer., University of Jyväskylä
- Österberg, *Monika*, b. 1969, elected 2023, Section of Science, PhD, Prof., Aalto University

External members 31 December 2024

Each member's name, year of birth and year of election to membership are given, followed by the person's academic qualification and present position or last position occupied before retirement.

- Achtenhagen, Frank, b. 1939, elected 1999, Dr.Dr.h.c.mult, Prof. emer. of economics and business education and management training, University of Göttingen
- Aleskerov, Fuad, b. 1951, elected 2021, D.Sc., Prof., Head of the Department of Mathematics for Economics, National Research University
- **Allik**, *Jüri*, b. 1949, elected 1997, PhD, Prof. of experimental psychology, University of Tartu
- Arter, David, b. 1944, elected 2001, PhD, Emeritus Prof. of Politics, University of Aberdeen, Research Director (Political Science), University of Tampere
- **Asiegbu,** *Fred Ob*ioma, b. 1961, elected 2017, PhD, Prof. of Forest Pathology, University of Helsinki
- Bengtsson, Olof *Lennart*, b. 1935, elected 1998, Dr., Prof. emer. of geophysics, Max Planck Institute for Meteorology
- Bertinetto, *Pier Marco*, b. 1947, elected 2006, Dr, Full Prof. of General Linguistics, Scuola Normale Superiore of Pisa
- **Birmelé**, Marc *André*, b. 1949, elected 2000, Doctorat en Sciences religieuses, Doctorat J'Etat en

- théologie, Prof. emer. of Dogmatic Theology, University of Strasbourg
- **Bova**, George Steven, elected 2018, M.D., Prof., personalized cancer medicine, Tampere University
- Bradley, Raymond Stuart, b. 1948, elected 2008, PhD, Distinguished Prof., University of Massachusetts
- **Bricmont**, *Jean* Louis Joseph, b. 1952, elected 2013, PhD, Prof. emeritus of theoretical physics, Universite Catholique de Louvain la Neuve
- Buchwald, Vagn Fabritius, b. 1929, elected 1994, D.Sc., Docent, retired, Technical University of Denmark
- **Bünzli**, *Jean-Claude G*, b. 1944, elected 1998, Dr.-Ing. Chem., Prof. of Chemistry, ETH Lausanne
- Bäckvall, Jan-Erling, b. 1947, elected 1996, Tekn. Dr., Prof. of Organic Chemistry, Stockholm University
- Carleson, *Lennart* Axel Edvard, b. 1928, elected 1970, PhD, Prof. emer., Royal Institute of Technology
- de Castro, Ivo Jose, b. 1945, elected 1996, Dr, Prof. de História da Língua Portuguesa, University of Lisbon
- Chaniotis, Angelos, b. 1959, elected 2009, Dr., Prof. of Ancient History and Classics, Princeton University
- **Cheeger**, *Jeff*, b. 1943, elected 1998, PhD, Prof. of Mathematics, New York University

- Clark, Peter Alan, b. 1944, elected 2006, PhD, Prof. emer. of European Urban History, University of Helsinki
- Crone, Elizabeth Ellen, b. 1969, elected 2017, PhD, Prof. of population ecology and dynamics, Tufts University
- Deppermann, Arnulf, b. 1964, elected 2018, Prof. Dr., Prof. of German Linguistics, University of Mannheim
- Diamond, Jared Mason, b. 1937, elected 2000, PhD, Prof. of Geography, University of California, Los Angeles
- **Dobaczewski,** *Jacek* Jan, b. 1952, elected 2015, PhD, Prof. of theoretical nuclear physics, University of York
- **DuBois**, *Thomas*, b. 1960, elected 2016, PhD, Halls-Bascom Professor of Scandinavian Studies, Folklore, and Religious Studies, Director of graduate studies, University of Wisconsin-Madison
- **Duchhardt**, *Heinz*, b. 1943, elected 2003, Prof. Dr., Director, Leibniz Institute of European History
- **Dunbar**, *Robin* Ian MacDonald, b. 1947, elected 2021, MA, PhD, DSc (Hons), Prof. emer. of evolutionary psychology, University of Oxford
- Eck, *Werner*, b. 1939, elected 1998, Prof. ordinarius for Ancient History, University of Cologne
- Eldridge, *Richard*, b. 1953, elected 2010, PhD, Charles and Harriett Cox McDowell Prof. emer. of philosophy, Swarthmore College
- **Enflo,** *Kerstin* Sofia, b. 1978, elected 2021, Prof. of economic history, Lund University
- Engwall, Gunnel Birgitta, b. 1942, elected 2014, fil. dr., Prof. of romance languages, Stockholm University
- Engwall, *Lars* Otto Victor, b. 1942, elected 1998, fil.dr., Prof. emer. of business administration, Uppsala University
- Enss, *Christian* Walter Dietrich, b. 1960, elected 2016, Dr., Full Professor, Kirchhoff-Institute for Physics, Heidelberg University
- **Eriksson**, *Ove* Jörgen, b. 1956, elected 2014, Prof. in plant ecology, Stockholm University

- Gaddis, John Lewis, b. 1941, elected 1985, PhD, Robert A. Lovett Prof. of History, Yale University
- Galdia, Marcus, b. 1961, elected 2017, Dr.phil., Dr.iur., Associate Prof. of Law, International University of Monaco
- Gerber, Robert Benny, b. 1944, elected 2007, D.Ph., emer.prof. of theoretical and physical chemistry and Fiedler chair, University of California, Irvine
- Giron Alconchel, José Luis, b. 1947, elected 1997, Doctor en Filologia Hispánica, Catedrático de Historia de la Lengua Española, Complutense University of Madrid
- **Granberg**, *Hardy B*, b. 1943, elected 1998, PhD, Professeur agrégé, Univeristé de Sherbrooke
- **Greenlees,** *Paul* Thomas, b. 1973, elected 2018, Ph D, Prof. of Physics, University of Jyväskylä
- **Groten,** *Erwin*, b. 1935, elected 1997, Dr.-Ing., Prof., Darmstadt University of Technology
- Hambraeus, Leif Magnus, b. 1936, elected 1997,Med.Dr., Prof. emer. human nutrition, UppsalaUniversity
- Heide, Ola Mikal, b. 1931, elected 1995, Dr. agric., Prof. emer. of Botany, Norwegian University of Life Sciences
- **Helenius,** *Ari*, b. 1944, elected 2003, PhD, Prof. emer. of biochemistry, ETH Zürich
- **Hinkkanen**, *Aimo* Heikki Juhani, b. 1958, elected 2005, fil. toht., Prof. of Mathematics, University of Illinois at Urbana-Champaign
- **Holler**, *Manfred*, b. 1946, elected 2022, Dr, Prof. of economics, University of Hamburg
- **Holly**, *Michael Ann*, b. 1944, elected 2011, PhD, Starr Director emeritus of Research and Academic Program, Sterling and Francine Clark Art Institute
- Holmström, Bengt Robert, b. 1949, elected 2007, PhD, Paul A. Samuelson Prof.emer. of Economics, Massachusetts Institute of Technology, MIT
- Holsti, Kalevi J, b. 1935, elected 2005, D.Phil, Prof. emer. of Political Science, University of British Columbia
- Hroch, Miroslav, b. 1932, elected 1996, PhD h.c., Ph.D., Dr. Sc., emer. University Prof. of History, Charles University Prague

- **Hugdahl**, *Kenneth*, b. 1948, elected 2002, PhD, Prof., University of Bergen
- Hutcheon, Linda, b. 1947, elected 2010, PhD, Prof. emer. of English and Comparative Literature, University of Toronto
- **Hånell**, *Björn Olo*f, b. 1951, elected 2014, Dr., Prof., Swedish University of Agricultural Sciences
- Häyry, Matti, b. 1956, elected 2005, Dr. Soc. Sci., Prof. of Philosophy of Management, Aalto University
- Hökfelt, Tomas Gustav Magnus, b. 1940, elected 2018, PhD, Prof. emer. of histology, Karolinska Institut
- **Hösch**, *Edgar Jo*hann, b. 1935, elected 1996, Dr. phil., Prof. emer. of history, Ludwig Maximilian University of Munich
- **Imahori**, *Hiroshi*, b. 1961, elected 2018, ScD, Full Professor, Kyoto University
- Iwaniec, Tadeusz, b. 1947, elected 2012, PhD, FiDi-Pro Prof., University of Helsinki, John Raymond French Prof. of Mathematics, Syracuse University
- Jacobs, Howard Trevor Howy, b. 1955, elected 2002, PhD, Prof.emer. of molecular biology, Tampere University
- Jauho, Antti-Pekka, b. 1952, elected 2003, Prof. of Theoretical Nanotechnology, Technical University of Denmark
- **Johannessen**, *Ola M*, b. 1938, elected 1997, Prof. emer., University of Bergen, University of Bergen
- **Johansen**, *Hans* Christian, b. 1935, elected 1997, Dr. Oecon, Prof. emer. of Economic and Social History, University of Southern Denmark
- Johansson, Bror Henning, b. 1940, elected 1998, PhD, Prof. emer. of Education, Jönköping University
- Jonson, Mats Sigvard, b. 1947, elected 2013, PhD, Prof.emer. of Physics, University of Gothenburg
- **Jänne**, *Pasi A*, elected 2016, MD, PhD, Prof. of medicine, Harvard Medical School
- **Jänterä-Jareborg**, *Maarit*, b. 1954, elected 2008, Jur. dr., Prof. of Private International Law and International Civil Procedure, Uppsala University

- Jäättelä, Marja Helena, b. 1963, elected 2016, MD, PhD, Head of Research Unit, Danish Cancer Society Research Center
- Kanninen, Markku Tapani, b. 1952, elected 2004, Ph. Sci. Agric. For., Prof. emer. of tropical silviculture, University of Helsinki
- Kasimov, *Nikolay*, b. 1946, elected 2021, PhD, Dean/President, Faculty of Geography, Moscow State University
- **Kenttämaa**, *Hilkka In*keri, b. 1954, elected 2004, Frank Brown Distinguished Professor of Organic and Analytical Chemistry, Purdue University
- Kertész, János, elected 2021, Dr. rer. nat., D.Sc., Prof., Head of Department of Network and Data Science, Central European University
- Klabbers, Johannes Antonius Maria Jan, b. 1963, elected 2014, Dr., Academy Prof. (Martti Ahtisaari Chair), Prof. of International Law, University of Helsinki
- Klingemann, *Hans-Dieter* Albert Robert, b. 1937, elected 1999, Dr. rer. pol., Prof. emer. of Political Science, Free University of Berlin
- Knott, Kim, b. 1955, elected 2016, PhD, Prof.emer. of Religious and Secular Studies, Lancaster University
- Kolaitis, Phokion Gerasimos, b. 1950, elected 2007, PhD, Prof.emer. of Computer Science, University of California, Santa Cruz
- **Kolstad,** *Nils* Kristoffer, b. 1930, elected 1998, Dr. agric., Prof. emer. of Agriculture, Agricultural University of Norway
- Krajcik, Joseph, b. 1952, elected 2021, PhD, Lappan-Phillips prof. of science education, Michigan State University
- Krosby, Hans Peter, b. 1929, elected 1978, PhD, Prof. emer. of History, State University of New York at Albany
- Kuich, Werner, b. 1941, elected 1988, Dr. phil., Dr. h.c., Prof. of Mathematics and Theoretical Informatics, Vienna University of Technology
- Kusch, Martin Paul Heinrich, b. 1959, elected 2008, Dr., Applied Philosophy of Science and Epistemology, University of Vienna

- Kuznetsov, Nikolay, b. 1979, elected 2020, Dr. Sci., Prof. and Head of the Department of Applied Cybernetics, Saint-Petersburg State University; Head of the Laboratory of information and control systems, Russian Academy of Science
- **Kytö**, *Merja* Maija, elected 2016, Senior Prof. of English language, Uppsala University
- Landsberg, Joseph John Joe, b. 1938, elected 1999, B.Sc, PhD, Adjunct Prof. emer., Charles Sturt University (New South Wales), Prof. emer., The University of Queensland, The University of Queensland
- Lang, Valter, b. 1958, elected 2017, PhD, Prof. of Archaeology, University of Tartu and University of Turku
- **Lepore**, *Ernest*, b. 1950, elected 2014, PhD, Prof. of Philosophy, Rutgers University, Center for Cognitive Science
- Levin, Christoph, b. 1950, elected 2014, Dr. theol., Prof.emer. of Old Testament Studies, Ludwig Maximilian University of Munich
- **Ley**, *Steven Vi*ctor, b. 1945, elected 2007, PhD, Prof. of Chemistry, University of Cambridge
- **Lloyd,** Alan *Christopher*, b. 1950, elected 2016, PhD, Emeritus Prof., University of New England
- Löfstedt, Leena, b. 1937, elected 1995, PhD, former Prof. of Romance Philology, University of Jyväskylä
- Marchello-Nizia, *Christiane* Marie, b. 1941, elected 2002, Docteur d' Etat, Prof. emer., École normale supérieure de Lyon
- Martin, Gaven John, b. 1958, elected 2016, PhD, Distinguished Professor of Mathematics, Massey
 University
- Maurer, Hermann, b. 1941, elected 1996, Dr., Prof. emer. of computer science, Graz University of Technology
- McLerran, Larry, b. 1949, elected 2000, PhD, Professor emeritus of Physics, Washington university
- McMahon, April Mary Scott, b. 1964, elected 2008, PhD, Vice-President for Teaching, Learning and Students, University of Manchester

- Mieder, Wolfgang, b. 1944, elected 1996, Dr., Prof. emer. of German and Folklore, University of Vermont
- Mitra, Sanjit Kumar, b. 1935, elected 2013, PhD, Research Prof. of Electrical and Computer Engineering, University of California, Santa Barbara
- Moen, Asbjörn, b. 1944, elected 2006, D.Phil., Prof. emer. in Vegetation Ecology and Conservation Biology, Norwegian University of Science and Technology
- Mondada, Lorenza, b. 1963, elected 2017, Prof. Dr. Dr. h.c., Full Prof. of general linguistics and French linguistics, University of Basel
- **Moore,** *John C*, elected 2016, Prof., Beijing Normal University and University of Lapland
- Morrill, John Stephen, b. 1946, elected 2002, D.Phil., D.Litt., F.B.A, Prof. of British and Irish History, University of Cambridge
- Motohashi, *Yoichi*, b. 1944, elected 1999, PhD, Ph.D. h.c. (University of Turku), Prof. of Mathematics, Nihon University
- Muglia, Louis Joseph, b. 1959, elected 2020, MD, PhD, President and CEO, Burroughs Wellcome Fund, Adj. Prof. of pediatrics, University of Cin-
- Nakajima, *Hiroshi*, b. 1923, elected 1984, Ed. D. (Hon.), Prof. emer. of Education, Waseda University
- Nembach, *Ulrich Re*inhard, b. 1935, elected 1997, Dr. theol., Dr. iur., Prof. emer. of practical theology, University of Göttingen
- Niemann, Hermann Michael, b. 1948, elected 2000, Dr. theol.habil., Prof. of Old Testament Studies and Biblical Archaeology, Rostock University
- Niemi, *Richard Ge*ne, b. 1941, elected 2002, PhD, Don Alonzo Watson Prof. of emer. political science, University of Rochester
- Norris, *Margot*, b. 1944, elected 2008, PhD, Chancellor's Prof. of English and Comparative Literature, University of California, Irvine
- Nurmikko, Arto Veikko, b. 1945, elected 2010, PhD, Herbert Ballou University Prof. of Engineering and Physics, Brown University

- Olesen, Jens Ejnar, b. 1950, elected 2003, Dr. phil., Prof. of Nordic History, Ernst-Moritz-Arndt University Greifswald
- Onnela, *Jukka-Pekka*, b. 1976, elected 2024, ScD, Prof. of Biostatistic, Harvard University, Harvard University
- **Opgenoorth,** *Hermann* Josef, b. 1951, elected 1997, Prof. emer., Department of Physics, Umeå University
- Ott, *Hans-Rudolf*, b. 1940, elected 2005, Dr, Prof. emer. of physics, ETH Zürich
- Ottersen, Ole Petter, b. 1955, elected 2017, MD, PhD, Prof., Rector, Karolinska Institute
- **Pulkkinen**, *Antti*, *b*. 1974, elected 2022, Director of the Heliophysics Science Division, NASA Goddard Space Flight Center
- Rajantie, Arttu Kalervo, b. 1974, elected 2024, fil. toht., Prof. of theoretical physics, Imperial College London, Imperial College London
- **Reedijk**, *Jan*, *b*. 1943, elected 1997, Dr, Prof.emer. of Chemistry, Leiden Institute of Chemistry
- **Reimann**, *Hans* Martin, b. 1941, elected 1994, Dr, Prof. emer. of Mathematics, University of Bern
- Rieger, Bernhard, b. 1959, elected 2008, Dr., WACKER-Chair of Macromolecular Chemistry, Director of Institute of Silicon Chemistry, Technical University of Munich
- Risku, *Hanna Ma*ria, b. 1967, elected 2016, Dr., University Prof., Department of Translation Studies, University of Vienna
- Robinson, *Douglas Ja*ck, b. 1954, elected 2020, PhD, Prof. of translating and interpreting, Chinese University of Hong Kong
- **Rojas**, *Orlando*, b. 1962, elected 2017, PhD, Prof. of Biobased Materials, University of British Columbia
- Romaine, Suzanne, b. 1951, elected 2010, PhD, Merton Prof. emer. of English Language, University of Oxford
- Rose, *Richard*, b. 1933, elected 1985, D.Phil., FBA,
 Director, Centre for the Study of Public Policy,
 Prof. of Politics, University of Strathclyde
- **Rozenberg**, *Grzegorz*, b. 1942, elected 1984, Prof. of Computer Science, Leiden University

- Ruud, Kenneth, b. 1969, elected 2014, Dr. Philos., Prof., University of Tromsø - The Arctic University of Norway
- Saari, Donald Gene, b. 1940, elected 2009, PhD, Distinguished Prof. of Mathematics and Economics, University of California, Irvine
- Saarma, Mart, b. 1949, elected 2000, PhD, Research Director, Institute of Biotechnology, Prof., University of Helsinki
- Salomaa, Kai Tapani, elected 2017, PhD, Full Prof., Queen's University
- Sanaev, Victor Georgievich, b. 1956, elected 2013, Dr. Sc. (Tech.), Rector, Moscow State Forest University
- Sannino, *Francesco*, b. 1968, elected 2015, PhD, Director, Prof., University of Southern Denmark
- Satz, *Helmut*, b. 1936, elected 1994, Dr. rer. nat., Prof. emer. of Physics, University of Bielefeld
- Schneider, Barbara, b. 1946, elected 2017, PhD, John A. Hannah University Distunguished Prof., Michigan State University
- Schulze, Winfried, b. 1942, elected 2000, Dr. phil., Prof. emer., Ludwig Maximilian University of Munich
- **Schwerdtfeger**, *Peter*, b. 1955, elected 2022, PhD, Prof. of theoretical chemistry, Massey University
- Scott, Dana Stewart, b. 1932, elected 1976, PhD, Prof. emer. of Computer Science, Mathematical Logic and Philosophy, Carnagie Mellon University
- **Shallit,** *Jeffrey Ou*tlaw, b. 1957, elected 2020, PhD, Prof.emer., School of Computer Science, University of Waterloo
- **Shanmugalingam**, *Nageswari*, elected 2021, PhD, Prof. of mathematics, University of Cincinnati
- **Sixta**, *Herbert*, b. 1954, elected 2022, Prof. of forest products technology, Aalto University
- Smend, Rudolf, b. 1932, elected 1994, Dr.Dr.h.c, Prof. emer. of biblical exegetics, University of Göttingen
- Smith, Carsten, b. 1932, elected 1985, Dr. jur., former Chief Justice of the Supreme Court of Norway, Supreme Court of Norway

- **Spence**, *John Ri*chard, b. 1948, elected 2003, PhD, Prof. of Insect Ecology, University of Alberta
- **Strömholm**, *Stig Fr*edrik, b. 1931, elected 1980, Jur. Dr., Dr. jur., Prof. emer. of Private and Private International Law, Uppsala University
- von Staden, Heinrich, b. 1939, elected 2005, PhD, Prof. emer. of classics and history of science, Princeton University
- **Stump**, *Eleonore*, b. 1947, elected 1999, PhD, Robert J. Henle Prof. of Philosophy, Saint Louis University
- Svensson, Lars Erik Oskar, b. 1947, elected 1998, PhD, Prof. of economics, Stockholm School of Economics
- **Takala**, *Irina*, elected 2018, PhD, Professor, Petrozavodsk State University
- **Terhart**, *Ewald*, b. 1952, elected 2004, Prof. Dr. phil., Prof. für Schulpädagogik und Allgemeine Didaktik, University of Münster
- **Tiedemann**, *Jörg*, b. 1972, elected 2019, Prof. of language technology, University of Helsinki
- Troe, Hans Jürgen, b. 1940, elected 2012, Prof. Dr. Dr.h.c.mult., Prof. emer. and Niedersachsen Prof. of Physical Chemistry, University of Göttingen, retired Director at the Max Planck Institute for Biophysical Chemistry
- **Vermeer,** Martinus *Martin*, b. 1953, elected 1993, PhD, Prof.emer. of geodesy, Aalto University

- **Vilonen**, *Kari Ka*leva, b. 1955, elected 2004, PhD, Prof. of mathematics, University of Melbourne
- Volkov, Mikhail, b. 1955, elected 2017, D.Sc., Head of the Chair of Algebra and Theoretical Computer Science, Ural Federal University
- **Volovik**, *Grigory E*, b. 1946, elected 2001, Dr., Visiting Prof., Aalto University
- Wadhams, *Peter*, b. 1948, elected 2006, ScD, Prof. of Ocean Physics, Head of the Polar Ocean Physics Group, University of Cambridge
- Weiner, *Bernard*, b. 1935, elected 2001, Dr., Distinguished Prof. of Psychology, University of California, Los Angeles
- Welker, Michael Armin, b. 1947, elected 2008, Dr. theol., Dr. phil., Prof. of Systematic Theology and Director of the Research Center for International and Interdisciplinary Theology, University of Heidelberg
- Wingfield, *Michael J*, b. 1954, elected 2016, PhD, Director, FABI Research Prof., University of Pretoria
- **Ziolkowski,** *Jan Mi*chael, b. 1956, elected 2020, PhD, Arthur Kingsley Porter Prof. of Medieval Latin, Harvard University
- Öhrn, Nils *Yngve*, b. 1934, elected 1982, PhD, Prof. emer. of Chemistry and Physics, University of Florida
- Österberg, *Eva*, b. 1942, elected 1993, PhD, Prof. emer. of History, University of Lund



SHINARIES

The custom for academies to publish obituaries of their deceased members is a tradition that dates back to the 17th century, and one that the Finnish Academy of Science and Letters has observed ever since its foundation.

Markku Filppula

* 29.11.1949 + 9.4.2024



Markku Filppula, Professor Emeritus of English Language and Culture at the University of Eastern Finland, died on 9 April 2024 at the age of 74, exhausted by a prolonged illness.

Markku Filppula was born on 29 November 1949 in Mikkeli, where he spent his childhood and youth. He studied at the University of Helsinki and graduated with a Master of Arts degree in 1975, majoring in English Philology and minoring in Romance Philology, General Linguistics and General Literature.

In 1975, Filppula moved to study in Dublin, Ireland (University College Dublin), on a 12-month grant. His studies in the department of Old and Middle English at UCD also kindled his interest in the structure and history of Irish English. In 1977, he was appointed Assistant in English at the then University of Joensuu, where he completed his postgraduate studies and graduated as a Licentiate of Philosophy in 1983. Even before completing his licentiate degree, Markku Filppula had begun his doctoral studies at University College Dublin under the supervision of Professor Alan J. Bliss. Bliss was a leading scholar in the history and language contacts of Irish English in his day, and he

inspired Filppula on a lifelong journey of exploration into this language variety.

Filppula's PhD project involved extensive data collection trips around Ireland. These trips were made on his Jawa motorcycle, and the extensive dialect interviews collected during this fieldwork formed the cornerstone of all his research on Irish English. He completed his doctorate at UCD in 1986, and UCD was the university he always considered his alma mater.

Markku Filppula's academic career in Finland was centred around the University of Joensuu, which became the University of Eastern Finland (UEF) in 2010. He was appointed an Associate Professor of English at the University of Joensuu in 1988 and became Professor of English in 1998. Filppula also had an impressive career in university administration, serving as the Dean of the Philosophical Faculty from 2010 until his retirement in 2017.

During his research career, Filppula led four research projects funded by the Academy of Finland: English and Celtic in Contact (2000–2002), Vernacular Universals vs. Contact-Induced Language Change (2005–2009), Global English: Typological, Contact-Linguistic and Second-Language Acquisition Perspectives (2010–2013)

and Changing English: Users and Learners Worldwide (2014–2017). The Finnish partners of these projects were researchers from the University of Tampere and the University of Helsinki, while the international partners were leading researchers from Germany and the UK, among other countries. In addition to the Academy projects, Filppula served as a Senior Research Fellow at the Academy of Finland for four terms (1990–91, 1996–97, 2001–02, 2007–08). He was invited to become a member of the Finnish Academy of Science and Letters in 2007.

As a linguist, Markku Filppula is widely acclaimed not only for his groundbreaking work on contemporary and earlier varieties of Irish English and other Celtic Englishes, but also for his research on contact languages and World Englishes. Filppula's publication profile is impressive. He is the author of Hiberno-English in a Functional Sentence Perspective (University of Joensuu Press, 1986) and one of the central works on Irish English, The Grammar of Irish English: Language in Hibernian Style (Routledge, 1999). Together with Professor Juhani Klemola and his former doctoral student, Senior Lecturer Heli Paulasto, he published English and Celtic in Contact (Routledge, 2008), which has become a key reference work for scholars in the field.

Given Filppula's long-standing interest in historical contacts between Celtic languages and English, it was no surprise that in 2009 he was invited, with Klemola, to guest edit a special issue of *English Language and Linguistics*, a leading journal in the field of English language research, on the theme of "Re-evaluating the Celtic Hypothesis". It is largely thanks to Filppula and Klemola that the influence of Celtic languages on the development of English

has in the 21st century become a serious topic of research in historical linguistics. The previously prevailing view that Celtic languages have not, despite prolonged historical contact, had much influence on the development of the English language has been rejected, and the role of Celtic language contact in the development of English is now a subject of growing interest.

Filppula also edited several major works in his field of research. These include *The Celtic Roots of English* (University of Joensuu Press, 2002), *Dialects Across Borders* (Benjamins, 2005), *Vernacular Universals and Language Contacts* (Routledge, 2009), *The Oxford Handbook of World Englishes* (OUP, 2016) and *Changing English: Global and Local Perspectives* (Walter de Gruyter, 2017).

In addition to his extensive research and publications, Filppula was active as a respected figure in the scientific community in many international linguistics organisations. He was also the organizer of several major international conferences and workshops, including the Methods XI conference in Joensuu in 2002 and the ISLE 6 conference of the International Society for the Linguistics of English, where he was Honorary Chair. Due to these and other conferences and workshops, he put the University of Joensuu, later UEF, firmly on the world map as a university of outstanding research in World Englishes and contact linguistics.

In Finland, Filppula served as Chair of the Linguistic Association of Finland from 1992 to 1994. In 2003, he was appointed Director of the Finnish Graduate School in Language Studies (LANGNET), a position he held until 2011. During this period, he also became Director of NordLing, the Nordic Network of Graduate Schools in

Language Studies (2006–2009). He also established connections with graduate schools in linguistics in other countries (e.g. the Swiss-German Hermann Paul School of Linguistics in Basel and Freiburg).

Despite his deteriorating health, Mark-ku's deep passion for research continued long after his retirement. He actively participated in research seminars of the English subject at UEF, listened to and commented on the ideas of new generations of researchers and was keen to understand the latest trends in digital linguistics and computational methods. The English subject in Joensuu has lost a great advocate for the discipline and a nationally and internationally renowned scholar.

Besides linguistics, music was Markku's passion, and he was an active participant in the music scene of his hometown Joensuu. For this obituary, Markku's brother-in-law recalled the spring of 1970, when he and Markku, two young men, were sitting on the steps of the Helsinki Cathedral, contemplating their future. Markku was a second-year language student at the time, but he was still seriously considering a career change to music.

Markku's musical hobby had begun with oboe studies at the Mikkeli Music Institute, and he made his debut at a concert of the Mikkeli City Orchestra in his hometown at the age of 16. As a student, he played oboe in the Helsinki University Symphony Orchestra, and in 1975–1976 he also played in the UCD Symphony Orchestra. In the 1980s, the Joensuu City Orchestra had only one oboist post, so Markku was invited to join the orchestra to play 2nd oboe and cor anglais alongside his professorship.

According to Markku's musician colleagues, he was a reliable musician who took his playing seriously, performing in events such as the Joensuu Chamber Music Week, with concerts conducted by Rudolf Baumgartner. Markku was actively involved in chamber music productions, particularly when Mozart was on the programme. Fellow musicians also remember the demanding cor anglais solo in Sibelius'The Swan of Tuonela, which Markku played like a professional.

Markku will be greatly missed by his wide circle of friends and colleagues both in Finland and abroad, but he has left a lasting impact on the study of language contacts and Irish English through his pioneering work.

Obituary by Juhani Klemola and Mikko Laitinen



Tapani Harviainen

Professor Emeritus of Semitic Languages Tapani Harviainen died of a rapidly progressing illness at the age of 80 on 28 September 2024 in Helsinki. He was born in Kuopio on 1 February 1944.

Harviainen graduated from Joensuu Lyceum in 1962 and began his studies in Hebrew, Greek and Latin and theology at the Faculty of Theology of the University of Helsinki in the autumn of the same year. After completing military service and the Reserve Officer School, Harviainen transferred to the Faculty of Arts, where he continued to study Hebrew and other Semitic languages. At the time, the Professor of Oriental Languages was Jussi Aro (1928-1983), who succeeded Aapeli Saarisalo. Harviainen spent the academic year 1970-1971 as an exchange student at the Hebrew University of Jerusalem, where he acquired an excellent command of Modern Hebrew. It was during this period that he developed a deep interest in Arabic. His teachers included well-known names in Hebrew linguistics, such as Yehezkel Kutscher, Israel Yeivin, Zeev Ben-Hayyim, and Chaim Rabin.

In 1977, Harviainen defended his doctoral thesis on the vocalism of the closed unstressed syllables in Hebrew. The thesis

shows that the vocalisation of Hebrew in the first centuries of the Common Era differed considerably from the later Tiberian vocalisation. Harviainen was appointed Docent of Semitic Philology in 1977 and was acting professor (part-time) of the discipline from 1983 to 1985, following the sudden death of Jussi Aro, and tenured professor from 1985 until his retirement in 2009.

Harviainen had a broad interest in Semitic languages and left a deep mark on Hebrew and Jewish studies in Finland. Together with Karl-Johan Illman, Harviainen was one of the first scholars in Finland to publish articles and works on Jewish history and culture and on Finnish Jews. At the Faculty of Arts, Harviainen taught not only Biblical Hebrew but also various forms of Aramaic, Rashi's commentaries on the Bible, and Babylonian vocalisation. Harviainen's repertoire of Semitic languages was quite exceptional in Finland. He took a broad view of Semitic languages and cultures, and during his time, the discipline included not only Hebrew and Judaism but also Ethiopian languages, Aramaic, and Canaanite cultures. A number of Semitic languages - Amharic, Ge'ez, Aramaic, Modern Hebrew, Rabbinic Hebrew, and Ugaritic - were offered at least on a periodic basis

during Harviainen's tenure. Even in retirement, the Aramaic and Ugaritic courses taught by Harviainen attracted a large number of students.

Without Harviainen's guidance and willingness to support the multidisciplinary nature of Semitic languages and cultures, the careers of many young researchers would never have got off the ground. Harviainen supervised doctoral theses in various disciplines, with topics ranging from the Jews of Yugoslavia, mysticism in Islam and the Eastern Church, Bedouins in Jordan, Aramaic incantation bowls, the Hebrew poetry of the Karaite Jews, and Yiddish in Helsinki. Even in retirement, Harviainen continued to support young researchers in Finland and abroad.

As a linguist, he will be remembered internationally as an eminent scholar of the history of the Hebrew and Aramaic pronunciation. The study of the historical phonology of Hebrew began with his doctoral thesis, and Harviainen continued working with the theme practically throughout his career. Later on, he became interested in topics such as the Hebrew pronunciation of Lithuanian Karaites and its links to the earlier stages of Hebrew. In terms of Aramaic, Harviainen was above all a scholar of Eastern Aramaic dialects of the first Christian centuries, and published the texts of Aramaic incantation bowls, which are particularly difficult to decipher. In both of his key areas of research, Harviainen built an excellent international network. His versatility as a researcher is also reflected in the fact that he was found qualified for the post of Professor of Old Testament Exegesis in 1984.

Harviainen published extensively on the Lithuanian Karaites, or *Karaims*, in collaboration with Professor Henryk Jankowski (Poznań), Professor Konstantin Tsereteli (Tbilisi), Mykolas Firkovičius (Vilnius), who revived the Karaim culture, and Olga Vasilyeva, head of the Oriental Manuscripts Sector at the National Library of Russia. In addition to the traditional Hebrew reading tradition or vocalisation of the Karaim, another key area of Harviainen's extensive work was the broader history, identity, and literature of Eastern European Karaites. There are dozens of publications on the Karaites in various languages; the Festschrift published in 2004 for Harviainen's 60th birthday lists fifty titles. Harviainen's merits as a researcher in the field were recognised by Lithuania's highest award, the Officer's Cross of the Order for Merits to Lithuania, which was conferred on him by President Valdas Adamkus in 2008.

Harviainen's contribution as Finland's leading expert in Hebrew was particularly valuable during the translation of the Hebrew Bible. He was involved in the work of the Bible Translation Committee throughout the translation process, starting from 1975. In terms of the Hebrew Bible, he left a strong mark on the 1992 Bible translation. Biblical Hebrew also played a significant role in Harviainen's teaching, and he published research that was clearly related to the issues that emerged during the translation process. During his career, Harviainen also published translations of contemporary Hebrew children's literature, Lithuanian Karaite poetry and Ugaritic texts. In 2018, Harviainen and Riikka Tuori translated texts from the Talmud and Mishnah into Finnish. The translations were discussed with Chief Rabbi Simon Livson in the series "Pyhiä juutalaisia kirjoituksia" on Yle Radio 1.

During his career, Harviainen held several positions of trust, including Chair of the Finnish Oriental Society and Head of the Institute for Asian and African languages and cultures. He was also an active partner in the Finnish Institute in Jerusalem, later the Finnish Institute in the Middle East, which was founded in 1994. Harviainen served on the editorial board of the Finnish Journal of Theology from 2000 to 2016. He was elected a member of the Finnish Academy of Science and Letters in 1994.

Harviainen enjoyed travelling and going on expeditions abroad, and his special hobby was isolated islands. In addition to the Middle East, he was interested in Eastern Europe, the Crimean Peninsula, Ukraine, Poland, Lithuania and the history, languages, and cultures of the region. Harviainen's conference visits also allowed his students and colleagues to meet fellow researchers in their fields. Harviainen often visited the National Library of Russia in St Petersburg to study the manuscripts of the famous Abraham Firkovich Collection. He established good relations with the library staff and also introduced his doctoral students and several colleagues to the library's collections during his travels. He also helped catalogue the extensive Hebraica Collection (containing deposit copies of books and newspapers in Hebrew and Yiddish published in the Russian Empire) at the National Library of Finland. This work has later been continued by several of his students.

After his retirement, Harviainen cofounded Bukovinan perilliset ry (Bukovina Heirs Association), which has regularly organised series of lectures on the minority cultures of Eastern Europe. From 2015 to 2017, Harviainen served as Chair of the association and organised trips for its members to the Baltic States, Poland, and Ukraine. Even outside academia, Harviainen is fondly remembered by many as an excellent and knowledgeable tour guide in the Baltics.

Harviainen was especially devoted to his family, his wife Rea, children Tuomas and Hanna and his grandchildren. By nature, he was calm, thoughtful, helpful and encouraging in many ways to his students. In a seminar held in honour of his 80th birthday in February 2024, Harviainen gave a speech looking back on his varied career and his students. He concluded by reflecting on research into the liturgical traditions of the Arabic language and expressed the hope that young scholars in Finland would be inspired to study the topic. This example is a good illustration of how Harviainen had new scientific possibilities in mind until the very end. Harviainen left behind a completed manuscript of his memoirs.

> Obituary by Hannu Juusola, Riikka Tuori and Kaj Öhrnberg

Veikko Jääskeläinen

* 1.12.1931 + 9.8.2023



Rector Veikko Jääskeläinen passed away at the age of 91 on 9 August 2023, in Helsinki. He was twice a refugee, having been born on 1 December 1931, in Matkaselkä, Karelia.

Veikko Jääskeläinen graduated from Joensuu Lyceum in 1951. He obtained his lower degree in Business Administration from the Helsinki School of Economics in 1955 and his higher degree in Business Administration in 1956. A talented student, he pursued further studies in the United States and earned a Master of Arts degree from Yale University in 1959. The modern financial theory and quantitative planning insights gained at Yale formed the cornerstone of Jääskeläinen's academic career. Throughout his career, he uniquely and admirably fused the latest scientific methods with practical business management.

Veikko and Laila married in 1960, after which the newlyweds moved to São Paulo. Their sons, Kari and Jaakko, were born after the couple returned to Finland. Veikko Jääskeläinen served as the Chief Financial Officer of Valmet's Brazilian unit from 1960 to 1962, and in Finland as the Manager of Business Accounting from 1963 to 1967. Concurrently, he completed his Licentiate thesis at the Helsinki School

of Economics in 1965 and earned his Doctorate in Business Administration in 1967.

His dissertation, *Optimal Financing* and *Tax Policy of the Corporation*, was pioneering in Finnish financial research. It demonstrated, through an extensive optimization model combining production and finance, how the structure of the tax system influences a firm's optimal financial structure. The dissertation also yielded theoretical insights into the role of taxes in determining the cost of capital.

After his stint in the corporate world, Jääskeläinen served as a visiting professor at Virginia Polytechnic Institute and State University (Virginia Tech) from 1968 to 1969. His academic career continued at the Helsinki School of Economics as an Assistant Professor of Quantitative Planning from 1969 to 1970 and as a Professor of Business Administration Systems from 1970 to 1976. During this time, he authored several textbooks and professional books illustrating the application of quantitative methods in business management and strategic planning, such as Business Management and Quantitative Planning (1971) and Linear Programming and Budgeting (1972). Professor Veikko Jääskeläinen became a member of the Finnish Academy of Science and Letters in 1974.

In 1976, his diverse and proficient expertise in economics was required in executive roles in the business sector. He served as Valmet's Chief Financial Officer and Executive Vice President from 1976 to 1983. In 1983, the Helsinki School of Economics appointed him as the Director of its International Center, and from 1986 onwards, he was the Professor of International Corporate Finance. His publications from this period addressed bank management and international negotiations.

Professor Veikko Jääskeläinen was a visionary and an action-oriented individual. He accomplished remarkable feats, first by organizing an extensive international student exchange programme for economics students and then by initiating international MBA, Executive MBA, and BBA programmes in Mikkeli. At that time, universities were financially constrained state institutions, and degrees were strictly regulated nationally. It demanded genuine leadership to establish new programmes for educational export and to get the school's MBA programmes accredited by international accreditation bodies. Jääskeläinen was a pioneer in Finnish educational export; for instance, today, there are thousands of leaders in South Korea who have received their Executive MBA training at the Executive Education unit he founded (now known as Aalto EE).

Jääskeläinen's visionary and administrative capabilities were fully utilized at the Helsinki School of Economics, where he became the second Vice-Rector in 1987 and served as Rector from 1992 to 1996. He foresaw the trend in the funding of universities by the state early on. Securing external funding and international connections became strategically significant. As a trailblazer, he established the foundation for educational export, service research, and international collaboration by founding the Helsinki School of Economics' own Executive Education Ltd, strengthening LTT Research Ltd, and initiating international accreditations. With his skills as a financial director, he guided the Helsinki School of Economics through the recession years with minimal damage. As Rector, he also brought strong leadership to the academic world, emphasizing clear goal setting, operational objectives, peer evaluation, and support for the work of students and faculty.

During his retirement, Veikko Jääskeläinen founded Finland's first private business school, Helsinki School of Business, in 2012, together with his son Kari Jääskeläinen.

Veikko was an analytical, determined, imposing, and visionary figure. As a supervisor and colleague, he was straightforward, reliable, and genuinely supportive. Veikko also had a fine, dry sense of humour and was an excellent raconteur.

Obituary by Eero Kasanen and Aatto Prihti

Jaakko Kangasjärvi



Dean, Professor Jaakko Kangasjärvi died at his home in Kirkkonummi on Thursday, 16 May 2024, following a rapidly progressing illness. He was born in Multia on 11 May 1960.

Jaakko Kangasjärvi's scientific career began with a study in which he explored the coping mechanisms of a botanical model species, thale cress, when it comes into contact with the environmental toxin ozone. His research quickly expanded to include the general physiological and genetic adaptation mechanisms of plants to various stress situations. He also led the sequencing of the birch genome and participated in the sequencing of the poplar genome. The groundbreaking scientific publications related to these studies are so widely cited and well-known internationally that Kangasjärvi was one of the few Finnish scientists to make it onto the internationally prestigious list of "Highly Cited Researchers". Jaakko Kangasjärvi's dream was to be published in the prestigious Proceedings of the National Academy of Sciences of USA. In the end, he had several publications in the journal and also published his research group's papers in a number of other highly prestigious serials. His most cited original articles were on the

discovery of the SLAC1 ion channel, which regulates the movement of stomatal pores on leaves and is important for plant photosynthesis (Vahisalu et al. 2008 Nature) and the identification of a novel RCD1 gene that regulates plant stress response (Ahlfors et al. 2004 Plant Cell), as well as extensive follow-up work related to these studies.

During his career, Jaakko Kangasjärvi became familiar with almost all botanical research and education institutes in Finland. He obtained his Master's degree from the University of Oulu in 1986 and his PhD in 1991 from the University of Minnesota, USA. Kangasjärvi worked as a teacher, researcher and director both at the University of Kuopio Botanical Garden and at the University of Turku, eventually ending up at the Faculty of Biological and Environmental Sciences at the University of Helsinki. He served as Professor at the university campus in Viikki, Helsinki, from 2003. Professor Jaakko Kangasjärvi became a member of the Finnish Academy of Science and Letters in 2012.

The diversity and passion of Kangasjärvi's research career is reflected in the fact that he contributed to no less than four Centres of Excellence of the Research

Council of Finland: the Centre of Excellence in Plant Signal Research, the Centre of Excellence in Plant Molecular Biology and Forest Biotechnology, the Centre of Excellence in Molecular Biology of Primary Producers, and the Centre of Excellence in Tree Biology. These Centres of Excellence enabled long-term funding and further enhanced the collaboration of Jaakko Kangasjärvi and his research team with other Finnish and international researchers. Jaakko never valued research that relied solely on large, expensive equipment but emphasised the researcher's own creative thinking and innovative approach, both in terms of individual researchers and large Centres of Excellence. It is therefore not surprising that several of the researchers he supervised are now professors or research group leaders in Finland or abroad, such as Professor Hannele Tuominen at Umeå University, Professor Hannes Kollist at the University of Tartu and Professor and Director Michael Wrzaczek at the Czech Academy of Sciences in České Budějovice.

Kangasjärvi served one term (2018–2021) as Dean of the Faculty of Biological and Environmental Sciences at the University of Helsinki and had started his second term (2022–). Together with the steering group and Faculty Council, Kangasjärvi succeeded in making the Faculty's research and teaching increasingly international. A determined focus on high academic standards and fairness in HR development led to the Faculty being strengthened not only by the recruitment of Finns but also by several foreign professors. This in turn has contributed to a steady increase in the Faculty's highly competitive research funding.

Building a home garden, planting trees and beautiful flowering shrubs, cars and the visual arts were close to Jaakko's heart. In addition to his spouse Saijaliisa, other special people in Jaakko's life were his two daughters and their spouses, his grandchildren and his spouse's son and his family. Jaakko enjoyed spending time with them, relaxing and enjoying good food and wine.

Obituary by Kurt Fagerstedt, Yrjö Helariutta and Ari Pekka Mähönen

Image: Veikko Somerpuro

Jorma Keski-Oja



Jorma Kullervo Keski-Oja, Professor Emeritus of Cancer Biology at the University of Helsinki, died in Helsinki on 22 April 2024 after a long illness. He was 75 years old at the time of his death. Keski-Oja was Professor of Cancer Biology at the University of Helsinki from 1999 to 2017.

Jorma Keski-Oja was born in Kokkola on 24 January 1949. He graduated from Kokkola Lyceum in 1968 and obtained his Licentiate in Medicine from the University of Helsinki in 1975.

Already as an undergraduate, Keski-Oja applied for a research position in 1973, in Professor Antti Vaheri's research group at the Department of Virology, University of Helsinki. For his doctoral thesis project, he was assigned the topic of fibronectin, the first identified protein to bind cells to the extracellular environment, discovered in 1973 by Vaheri and Erkki Ruoslahti, who later moved to the United States. A pivotal figure in this early phase of Keski-Oja's research career was Deane Mosher, an American researcher visiting Vaheri's laboratory and a pioneer in research on the extracellular matrix. Keski-Oja earned his PhD in medicine and surgery in January 1977.

In the 1970s and 1980s, Keski-Oja worked as a researcher in the United States

on two occasions: first from 1978 to 1980 in the laboratory of Professor George Todaro at the National Cancer Institute (NCI) and from 1985 to 1987 in the laboratory of Professor Harold Moses at Vanderbilt University in Tennessee. The research visits produced not only a wealth of high-quality publications, but also new knowledge about research methods, partnerships and the discovery of his own interest in cancer research. Research in Todaro's laboratory focused on the proteolytic degradation of the extracellular matrix of fibroblasts and fibrosarcoma cells and the regulation of fibronectin release, and this research continued in Helsinki in collaboration with Vaheri as research on plasminogen activators and their inhibitory proteins. In Moses' laboratory, Keski-Oja was introduced to the newly discovered cancer growth factor TGF-beta, whose binding to the extracellular matrix and proteolytic release and activation became the main focus of Keski-Oja's later studies. His research also extended to the study of the function and regulation of another group of cancerrelated enzymes that degrade the extracellular matrix, matrix metalloproteinases. The research designs inspired by the research visits early in his career thus carried him through his successful career as a researcher.

Keski-Oja established his own research group at the Department of Virology at the University of Helsinki, from where it moved to the Department of Pathology and later became part of the Research Programs Unit of the Faculty of Medicine. Collaboration with Professor Kari Alitalo as part of the Centre of Excellence project in cancer research was active. Keski-Oja supervised a total of 17 doctoral theses between 1988 and 2017, including the works of Marikki Laiho, Katri Koli, Jussi Taipale, Jouko Lohi, Juha Saharinen, Christine Unsöld, Kaisa Lehti, Marko Hyytiäinen, Sara Wickström, Sara Illman, Piia Vehviläinen, Anna Kantola, Olga Tatti, Nami Sugiyama, Yizhou Hu and Irene Ylivinkka. The laboratory also hosted several visiting students and master's thesis writers. Four of Keski-Oja's students have gone on to become professors and many work in expert positions, drawing on the lessons of their research training. Jorma Keski-Oja's Hirsch index, which describes overall research performance, currently stands at 74. Keski-Oja has 269 publications and 19,913 citations.

The atmosphere in Jorma's laboratory was very open and inspiring, and experimentation and learning were always encouraged. The approach that valued independence made it easier to continue pursuing a career as a postdoctoral researcher. Jorma welcomed new students warmly and was interested in his students' progress. He encouraged them to apply for funding and travel to conferences and provided guidance with their doctoral theses, postdoctoral positions and docentures. All this was accompanied by good-humoured

perseverance and humour. Jorma's unique sense of good-natured humour could come as a surprise to the unaccustomed: he delivered his jokes with a serious expression, and it took a moment for the listener to realise that this was humour. But above all, Jorma wanted to treat his students as individual human beings, and many of them remember that Jorma's life advice carried them far beyond their research careers. The positive spirit of the laboratory was important to Jorma, and spring outings to Cafe Ursula and Christmas lunches were an annual tradition.

Alongside his research, Keski-Oja worked as a laboratory chemist at the Department of Virology, contributed to microbiological diagnostics and was awarded the title of specialist in Clinical Microbiology in 1982 and subspecialist in Clinical Virology in 1984. Later, an interest in clinical work led him to the Dermatology Clinic and he became a specialist in Dermatology and Venereal Diseases in 1995. Keski-Oja held locum posts as Assistant Professor and Professor of Dermatology for varying periods between 1993 and 1998. He held a temporary position as Professor of Medical Cell Biology at the University of Helsinki from 1998 to 1999 before his appointment as permanent Professor of Cancer Biology in 1999.

During his career, Keski-Oja held various positions at the University of Helsinki, including as Director of the Graduate School of Biomedicine 1998–2001, at the Centre of Excellence in Cancer Biology 1998–2011, and as Director of the Molecular and Cancer Biology Research Program 2007–2012. He served on the Board of the Cancer Society 2000–2014. He chaired the Grants Committee of the Scientific Council for Health of the Academy of Finland

(now Research Council of Finland) 2004–2009 and sat on the Pharmaceutical Committee of the National Agency of Medicine 1999–2008. In these positions, he was respected and trusted by his colleagues, a fair and just conflict mediator and cooperation builder.

Keski-Oja was a respected member of the scientific community: he was a member of the Finnish Academy of Science and Letters since 2002 and of the Finnish Society of Sciences and Letters since 2008. He was a member of the Scientific Council of Labsystems Ltd, a patron of science, from 1983 to 1991, and a member of the Research Committee of HUCH from 2004 to 2009. He was awarded the Writing Prize of the Finnish Medical Society Duodecim in 1988 and the Leiras-Medica Prize of Finska Läkaresällskapet in 2001. He was granted the Order of the White Rose of Finland, First Class, in 2004. The J. W. Runeberg Prize of Finska Läkaresällskapet was awarded to Keski-Oja in 2015 for his cancer research. In the same year, he was awarded the Medal of the Finnish Dermatological Society. In 2015, he was also awarded a medal by the Cancer Society of Finland and was named an honorary member of the Finnish Society for Matrix Biology. This exceptionally broad list of awards reflects Jorma Keski-Oja's versatility and achievements as a researcher.

To counterbalance his research, the last 10 years of Jorma's career included a special source of excitement, activity and joy when he was invited to become Inspector of Etelä-Pohjalainen Osakunta, one of the student nations at the University of Helsinki. The student nation's meetings and parties at Botta brought him a wide new circle of friends of all ages and fields. Jorma enjoyed his time as Inspector, saying that "it's never too late to start enjoying the student nation life".

The Faculty of Medicine at the University of Helsinki warmly remembered its former Professor of Cancer Biology by flying the flags at half-mast at the Meilahti campus on Friday, 24 May 2024, the day of Jorma Keski-Oja's funeral. In this way, the faculty honoured the memory of this outstanding Finnish researcher. In their funeral condolences, Jorma's students from around the world remembered him in their farewell messages as an approachable, positive and warm-hearted colleague with a big heart and a big mind.

Obituary by Jouko Lohi and Antti Vaheri



Pekka Korhonen

* 26.11.1944 + 24.1.2024

Pekka Korhonen, Professor Emeritus of the Department of Information and Service Management at the Aalto University School of Business, died on 24 January 2024, at the age of 79, exhausted by a long illness.

Korhonen was born in Kuopio on 26 November 1944. At the time of Pekka's birth, Finland had just signed the Armistice and was a poor and war-torn country. He was raised by a single mother in modest conditions in Kuopio. He was part of a large generation and had many friends. But it was not obvious that even gifted children would go to school. As far as we know, Korhonen was the only one in his circle of friends who applied to grammar school, and later to university.

After passing his matriculation examination in Kuopio, Korhonen pursued mathematics at the University of Helsinki. Mathematics was a popular subject in the 1960s and lecture halls were packed with students. Korhonen distinguished himself as a talented student and earned his Master's degree fairly quickly in the late 1960s. His first job was at the Computing Centre of the University of Helsinki, where he worked for ten years. Pekka Korhonen's doctoral thesis *A Stepwise Procedure for Multivariate Clustering* was approved by

the Faculty of Social Sciences in 1977, opening up new academic job opportunities besides the Computing Centre at the University of Helsinki.

Decades of uninterrupted scientific collaboration between Pekka Korhonen and Jyrki Wallenius began by chance in the autumn of 1978, when they both spent a year at the then Vaasa School of Economics and Business Administration. Their exceptionally long and close collaboration continued until Korhonen's death, although for many years they worked at different universities and lived in different countries. Korhonen's and Wallenius' collaboration quickly expanded to include important international partners and postgraduate students.

Pekka Korhonen was a researcher at heart. His scientific output was extensive, focusing on solving multi-objective optimization problems and productivity analysis. In these optimization problems, the unique optimum solution is replaced by a so-called efficient or Pareto optimal surface. Perhaps Korhonen's most significant research was on how to navigate the Pareto-optimal surface and find the best solution for the decision-maker. This was particularly significant given the state of

information technology in the 1970s and 1980s. Back then, it was not easy to construct interactive (man-machine) algorithms. Korhonen was an active developer of decision support systems, for which he also received awards. He understood early on that decision-making is not just mathematics (although mathematics is important), but that the psychology of decision-making also plays a vital role. Despite being a "theoretician" by nature, Korhonen was involved in numerous applied research projects, where the algorithms he developed were applied to solving practical problems.

Korhonen spent most of his career at the Helsinki School of Economics. He joined the Helsinki School of Economics in 1979 as acting Assistant Professor in the subject of Systems. He was appointed Professor of Statistics in 1988, a post he held until his retirement. Over the years, Korhonena's course on multi-objective decision-making was taken by many future decision-makers, including the Mayor of Helsinki Jussi Pajunen.

For several years in the 2000s, Korhonen served as Director of the Doctoral Programme and Doctoral Education Centre at the Helsinki School of Economics. During his time, the School of Economics' annual doctoral output rose to over 30, when in the 1980s there were years when there were no completed doctorates. Korhonen was a good supervisor and mentor to numerous postgraduate students who enjoyed working with him. Korhonen modernised doctoral education, raising quality standards to the international level and helping doctoral students apply modern statistical methods. He was twice named "Supervisor of the Year" by the Helsinki School of Economics Support Foundation. Postgraduate education also

included our joint, successful Graduate School with the Systems Analysis Laboratory of the then Helsinki University of Technology. Korhonen retired in November 2012 but remained an active researcher in retirement.

Korhonen served as the third President of our society (International Society on Multiple Criteria Decision Making) from 1996 to 2000. He was also awarded the Society's Georg Cantor Award in 1994. Korhonen was Honorary President of the Finnish Operations Research Society, whose founding meeting he attended fifty years ago.

Pekka Korhonen held several positions of trust in Finland during his life. He served for several years on the Council of the Finnish Union of University Professors, among others. Korhonen was appointed a member of the Finnish Academy of Science and Letters in 2002.

In the early 1990s, Korhonen was a visiting professor at the University of Georgia in the United States. At the International Institute for Applied Systems Analysis outside Vienna, he served as the Director of the Decision Analysis and Support (DAS) project in 1997 and 1998.

Korhonen's passing is a great loss for our international scientific community, but also for the Aalto University School of Business. Korhonen's contribution was extremely important for the doctoral education, internationalisation and especially the promotion of a quality publication culture at the Helsinki School of Economics. Korhonen served as a collaborator and a role model for younger generations of researchers. Together with Jyrki Wallenius, Pekka Korhonen was one of the first at the Helsinki School of Economics to publish in some of the leading journals in

the field. By the time Korhonen retired, the Aalto University School of Business had become an international, high-quality business school. Pekka Korhonen played a key role in this process.

We, Pekka's collaborators and students,

feel privileged to have had the opportunity to work with Pekka for so long. We miss him and will always remember him.

Pekka is missed by his wife Kaiju, seven children, 13 grandchildren, and a wide network of friends and collaborators.

Obituary by Jyrki Wallenius and Eero Kasanen

Henrik Lilius

* 3.2.1939 + 12.6.2024



Director General of the National Board of Antiquities, State Archaeologist and Professor Henrik Lilius died on 12 June 2024 in Helsinki at the age of 85, following a long illness. Lilius graduated from the University of Helsinki with a Master of Arts in 1964 and obtained a PhD in 1967. He began his career as a research assistant at the National Board of Antiquities (now Finnish Heritage Agency) from 1959–1965 and ended it as Director General of the National Board of Antiquities from 1993-2003. He was Professor of History of Architecture at the Helsinki University of Technology from 1975-1983 and Professor of Art History at the University of Helsinki from 1983-1992. Lilius was elected a member of the Finnish Academy of Science and Letters in 1979.

Lilius' scientific activities focused primarily on urban studies and building conservation. He obtained his PhD in 1967 with *Der Pekkatori in Raahe. Studien über einen eckverschlossenen Platz und seine Gebäudetypen.* The thesis explored a topical trend in art history at the time. In the 1960s, urban architecture began to be viewed in a broader context than before, taking into account the economic and social history of the city as a whole. In par-

ticular, the focus on the urban structure was a new concept, turning attention to the typological and morphological elements of architecture, represented for example by various types of public squares. The everyday environments of Nordic rural towns, as represented by Pekkatori square in the town of Raahe, were still largely unappreciated in Finland in the 1960s as topics of art historical research. Lilius followed in the footsteps of his teacher, Professor Lars Pettersson, in choosing to focus his research on modest Finnish wooden architecture. Pettersson had once had to fight for the right to study wooden churches built by folk builders with no academic training. The strongest international tradition in the discipline was still directed only towards the study of socalled high art.

In his doctoral thesis, Lilius wrote that his future goal was to study the phases of the architectural environments in Finnish cities and the history of "urban thinking". He argued that without a detailed historical survey, more in-depth analyses would be impossible. His key publications supported this goal. *Joensuun kaupunki 1848–1890. Erään suomalaisen puukaupungin vaiheita* (1972) is a thorough analysis of

the construction of one city. It has been hailed as the pinnacle of a scientifically rigorous approach to art history. In his extensive articles over the years, Lilius came to explore the trajectories of Finnish urban architecture from the Middle Ages to the end of the 19th century with astounding accuracy. These articles were published as part of Suomen kaupunkilaitoksen historia (1981, 1983) and as part of the Finnish art history reference series Ars – Suomen taide (1987-1989). His last major effort was Suomen kaupunkirakentamisen historia (2014), a two-volume work with contributions by several scholars. The initiative came specifically from Lilius, and the basic outline of the work is from his pen. For this series, he wrote an even more comprehensive account of the architectural development of Finnish cities.

In his urban studies, Lilius wanted to examine how administrative and financial decisions influenced the visual appearance of cities and changes in the urban environment in different centuries. His research was based on vast archival material and extensive fieldwork. Lilius analysed the buildings themselves, starting from the function of each building and how this determines the building type. In doing so, he followed the typological approach already tested in his doctoral thesis. Consistent to this approach, Lilius also wrote monographs on individual building types. These include Suomalaisen koulutalon arkkitehtuurihistoriaa. Kehityslinjojen tarkastelua keskiajalta itsenäisyyden ajan alkuun (1982), Kaupan arkkitehtuuria (2003) and Fängelsearkitektur i Finland ca 1635-1845 (2014).

As an urban historian, Lilius did not focus his attention on individual designers, but he has nevertheless written notable texts on Carl Ludvig Engel (1778–1840), the most famous designer in the older history of Finnish architecture. The largest research project on Engel culminated in a major exhibition in Helsinki in 1990, which was accompanied by a book of more than 500 pages compiled by several scholars. This, the most extensive scholarly work on Engel published to date, would not have been possible without the dedicated contribution of Lilius. He was the book's chief editor and author of several articles.

One of the most significant monographs on individual buildings is Villa Lante al Gianicolo. L'architettura e la decorazione pittorica (1981). This work explores the complex architectural history of Villa Lante, the palace that houses the Finnish Institute in Rome. A lion's share of the study is taken up by an analysis of the imagery depicted in the building's extensive fresco and stucco decorations. Lilius did the groundwork for this study while serving as director of the Finnish Institute in Rome in Villa Lante from 1972 to 1976. Another extensive monograph on a building is the early Birgittinerkyrkan i Nådendal (1969). Between 1963 and 1964, Lilius led a study on the architectural history of the medieval church, which included extensive archaeological excavations. In the book, he presented a number of results and reconstruction proposals that deviated from prior research.

Lilius is remembered by his students as a passionate analyst of architectural classicism, in particular. Lilius based his analysis of classical architectural systems above all on Rudolf Wittkower's and Christoph L. Frommel's studies of Italian Renaissance and Baroque monumental architecture. He applied their technical analytical tools not only to Engel's architecture, but also to the rest of the Finnish building stock which

was based on classicism. Lilius was always particularly interested in the methodological foundations of his discipline. He developed art history methodologies also in his articles. Lilius constantly stressed the importance of theoretical premises and appreciated students who were able to transcend the empiricism of archival research. He was also surprisingly willing to accept criticism of his own research, as long as it was based on valid arguments.

The social battlefield of Lilius' career was building conservation. He was active in both international and Finnish organisations. Lilius' numerous articles on the theory and practice of building conservation draw on this experience. His most important writings on building conservation were compiled in his 60th anniversary publication *Motivi ja metodi / Motiv och metod (Taidehistoriallisia tutkimuksia / Art Historical Studies* 20, 1999).

Obituary by Riitta Nikula and Ville Lukkarinen



Jukka Nevakivi

* 8.10.1931 + 15.1.2024

Jukka Taneli Nevakivi, Professor Emeritus of Political History at the University of Helsinki, died in Helsinki on 15 January 2024. He was born in Pudasjärvi on 8 October 1931 and was 92 years old at the time of his death.

Nevakivi completed his PhD on the topic of British Middle East policy during the First World War in 1963 at the London School of Economics under the supervision of Wolfram Wilhelm Gottlieb and William Norton Medlicott.

Based on his doctoral thesis, the work entitled *Britain*, *France and the Arab Middle East 1914–1920* was published in 1969 in the University of London Historical Studies series. For a long time, it remained one of the most internationally cited Finnish historical research papers.

In 1963, Nevakivi began working at the Finnish Ministry of Foreign Affairs. The post took him to Budapest, Cairo and Paris. In between, he also served as a visiting professor of Finnish History and Culture at the Sorbonne Nouvelle University (Paris III) 1972–1974.

One of Nevakivi's major works is Muurmannin legioona: suomalaiset ja liittoutuneiden interventio Pohjois-Venäjällä 1918–1919, published in 1970. The work

reveals Nevakivi's skill in placing Finland in a broad and natural international context. For this book, he managed to interview the last surviving men who had been part of a battalion made up of Finnish Red Guards who joined the English side in 1918–1919.

Nevakivi drew methodological inspiration from the research of French historians Pierre Renouvin and Jean-Baptiste Duroselle. Economic interests and pressure groups remained in the background as explanatory factors focused on broader *forces profondes*, consisting above all of geography, climate and mental forces.

The works entitled Apu jota ei pyydetty: liittoutuneet ja Suomen talvisota 1939–1940 (1972) and Ystävistä vihollisiksi: Suomi Englannin politiikassa 1940–1941 (1976) were Nevakivi's next two monographs. The former book was published in England as The Appeal that Was Never Made: the Allies, Scandinavia and the Finnish Winter War 1939–1940 (1976). In 2000, Nevakivi published a new edition of the book entitled Apu jota ei annettu.

Ystävistä vihollisiksi deals with the English approach towards Finland after the Winter War. In the conclusions of his study, Nevakivi discussed the "general pol-

icy" that England had adopted towards Finland: despite all its economic and cultural interests, England was unable to resist Soviet influence in Finland, nor was this particularly necessary in light of any interests that were important to England.

In 1980, Nevakivi moved from his position as Minister Counsellor at the Embassy of Finland in Paris to become Professor of Political History at the University of Helsinki, a post from which he retired in 1995. Alongside his academic work, Nevakivi was one of the last travel writers of the good old days. His curiosity and thirst for

knowledge led him on expeditions and adventures to foreign cultures as far as Afghanistan, Tierra del Fuego in South America, Greenland and the coral islands in the Pacific Ocean.

Jukka Nevakivi was one of the most international scholars among the leading Finnish historians of his generation. He represented the Finnish scientific community at the International Committee of Historical Sciences from 1983 to 2005. Nevakivi was a member of the Finnish Academy of Science and Letters since 1990.

Obituary by Seppo Hentilä



Lauri Niinistö

* 1.10.1941 + 28.2.2024

Lauri Salomon Niinistö, Professor Emeritus of Inorganic Chemistry at Aalto University, died in Vantaa on 28 February 2024. He was 82 years old, born in Helsinki on 1 October 1941.

Niinistö graduated from Apollo Coeducational School in 1961, obtained his master's degree from the Department of Chemistry at Helsinki University of Technology (TKK) in 1968 and Doctor of Science (Technology) in 1973. After earning his doctorate, he held locum positions as Assistant Professor/Professor until 1977, when he was appointed Professor of Inorganic Chemistry at TKK, a post from which he retired as Professor Emeritus in 2007.

Niinistö continued exploring the research topics of his predecessor, Professor Olavi Erämetsä, both in his master's and doctoral theses. The former dealt with the chemistry and structures of elemental sulphur, and in his doctoral thesis, he studied the structures of rare earth sulphates.

In 1981, Niinistö's inorganic chemistry laboratory started studying atomic layer deposition (ALD), becoming the first research group in the world to focus on ALD chemistry. ALD research continues strong in Niinistö's old laboratory and Fin-

land remains one of the three leading countries in the world in this field. In the late 1980s, another major line of research was born, namely high-temperature oxide superconductors. In this field, too, Niinistö's laboratory became an important player by international standards. Niinistö actively published high-quality scientific papers, producing more than 400 international publications over his career.

Niinistö's career was strongly international from the start. He was an exchange student in the USA, wrote part of his doctoral thesis at Stockholm University and spent research leaves in Paris (CNRS 1976), at the Vienna University of Technology (1981–1982) and the University of Florida (1985–1986), and later again in Vienna and Budapest and at the Max Planck Institute in Halle.

Nordic cooperation was important to Niinistö, and he served on the board of Acta Chemica Scandinavica, a jointly managed journal of chemistry, and as its editorin-chief throughout the 1990s. He was actively involved in the organisation of Nordic conferences on structural chemistry and thermal analysis. Niinistö believed in the importance of organising international conferences in Finland and also chaired

major conferences such as EUROANALY-SIS IV in 1981 and ICFE-4 (International Conference on f-Elements) in 1994. In 1990, the international ALD conference series was launched in Espoo on Niinistö's initiative. Later, the American Vacuum Society took over the responsibility of organising this annual conference. In 1991, Niinistö started a series of ALD meetings between TKK and the University of Tartu, which soon grew into the Baltic ALD conference series covering the Baltic countries. For the past 10 years, Baltic ALD has been part of the EuroCVD conference.

Niinistö also valued cooperation with kindred Estonian and Hungarian researchers. He facilitated a lively exchange of researchers and supplied Western chemistry literature to these countries whenever possible. He was consequently awarded honorary doctorates from the Tallinn and Budapest Universities of Technology.

A wide-ranging and thoughtful expert, Niinistö was active in various scientific organisations and foundations. He was Chair of the Board of the Alfred Kordelin Foundation from 1999 to 2004. He also served on the Board of the Finnish Chemical Society (1970–1977, Chair 1974) and on the Board of the Association of Finnish Chemical Societies (1976–1986). His excellent language skills and highly driven approach also led him to international positions, most notably on the Board (1973–1983), various working parties (1987–1993) and Presidency (1994–1999) of the Federation of European Chemical

Sciences (FECS, the forerunner of EuChemS). He was also an honorary member of the Estonian and Romanian Chemical Societies and the Austrian Society of Analytical Chemistry.

Niinistö received multiple awards and honours, including the award of the Finnish Chemical Society in 1991, the Gold "Cannizzaro" Medal of the Italian Chemical Society, the FECS Award in 2000, and the Hungarian Academy of Sciences Materials Science Award in 2007. He was a member of the Finnish Academy of Science and Letters and the Finnish Academy of Technical Sciences since 1982.

Niinistö was interested in a wide range of topics and had a very broad general knowledge. His hobby was history, especially the history of chemistry. He amassed an extensive collection of historical chemistry books. He wrote a 75-year history of the Finnish Chemical Society entitled: 75 vuotta toimintaa kemian hyväksi ("75 years of work for chemistry").

Lauri Niinistö's family consisted of his wife Leena and children Sini, Jussi and Jaakko. Their summer house in Joutsa was an important retreat for the whole family, including seven grandchildren. It was also a place to meet friends and host international guests.

We remember Lauri Niinistö as a knowledgeable teacher and a pleasant colleague. We are grateful for the vision and drive with which he supported and promoted our entire chemical research community for multiple decades.

> Obituary by Markku Leskelä and Maarit Karppinen



Annamari Ranki

* 3.1.1955 + 14.1.2024

Professor Annamari Ranki passed away on 14 January 2024 at the age of 69 years.

Professor Ranki's academic journey was marked by excellence from its very beginning. She started her research career already during her medical studies at the University of Helsinki. She earned her medical degree in 1977 and defended her doctoral thesis on T and B lymphocyte markers the following year when she was only 23 years old, one of the youngest doctoral graduates in Finland at that time.

After her PhD, she specialized in dermatology and venereology in Helsinki and oriented her research to immune responses in autoimmune diseases. Before taking up her position as Professor and Chairman at the University of Helsinki in 1997, Professor Ranki had already made significant contributions as Professor and Chief Physician at the University of Oulu and the University of Tampere, both in Finland.

Professor Ranki's career was not confined within the borders of Finland. In 1983, she started studying an entirely new disease of unknown origin: AIDS. This research resulted in collaboration with Dr. Robert Gallo. She joined Gallo's lab for two years at the National Cancer Institute, NIH, in Bethesda, and she also

worked at the Memorial Sloan Kettering Cancer Center in New York from 1985 to 1987. After returning to Finland, she continued her research on HIV immunology. In the past three decades, her group studied the molecular pathogenesis of cutaneous T-cell lymphomas and genetic autoinflammatory and autoimmune diseases such as the tumour necrosis factor receptor-associated periodic syndrome (TRAPS) and the autoimmune polyendocrinopathy syndrome APS1. She thus pursued translational science long before this term was invented.

Her scholarly output was as prolific as it was profound. She authored almost 300 scientific articles, numerous reviews, and textbook chapters, with more publications still to come.

Annamari Ranki was also active in research politics and scientific societies both at the national and international levels. She was one of the best-known Finnish dermatologists in Europe. She was awarded ILDS Certificate of Appreciation and became a member of the Finnish Academy of Science and Letters in 2010, underscoring her status as a respected and influential figure in her field. She was a board member of the ESDR, EADV, EDF, the Nordic Der-

matology Association and International Society for Cutaneous Lymphomas, and Chairman of the Finnish Dermatological Society. She was Secretary General of EDF from 2007 to 2008, and President from 2009 to 2010.

But beyond her impressive professional and academic achievements, what truly set Professor Ranki apart was her unwavering commitment to her discipline, her students, and her colleagues. In addition to being a scientist, she was a mother of three and a devoted grandmother, who served as a role model for female scientists. Her guidance and mentorship have shaped the careers of numerous medical professionals and researchers.

We extend our deepest gratitude to Professor Ranki for her extraordinary life and contributions.

Obituary by Sirkku Peltonen, Eija Hiltunen-Back and Katariina Hannula-Jouppi

Image: Helena Karlsberg



Kalevi Suominen

* 20.7.1940 + 4.3.2024

Kalevi Suominen, Professor of Mathematics at the University of Helsinki, died in Helsinki on 4 March 2024, in his home as he wished. He was born in Helsinki on 20 July 1940. Suominen passed his matriculation examination at the Finnish Lyceum in Pori in 1958 and then began studying at the University of Helsinki. He got off to an amazingly fast start, completing the legendarily difficult course nicknamed "The Big Integral", one of the final courses in the mathematics curriculum, already in his first year with a grade of 3/3. The rest of his studies progressed rapidly and in 1967 he defended his doctoral thesis on the theory of quasiconformal mapping, which by then had become a focus area of Finnish mathematical research. His doctoral thesis was supervised by Professors Olli Lehto and Kalle Virtanen, who had published Quasikonforme Abbildungen, a seminal work in the field. In their foreword, the authors thanked Suominen for reviewing the manuscript and for his valuable comments.

Suominen also explored quasiconformal mappings between manifolds in his later studies. As a researcher, however, he followed his own path and published studies in the fields of algebraic geometry, topology, category theory and number the-

ory, which were relatively unknown in Finland. His collaborators included the Fields Medal-winning mathematician David Munford, with whom he wrote Introduction to the theory of moduli, a work in the field of algebraic geometry. One of his best-known publications is Localization of sheaves and Cousin complexes, which was published in Acta Mathematica in 1973. He wrote several publications on the connection between elliptic curves and Fermat's Last Theorem. Suominen carefully followed new trends in mathematics, which can be seen in his research and is also reflected in his seminars, where he discussed the latest ideas of the French Bourbakists, among others.

In 1970, Suominen was appointed Assistant Professor of Mathematics at the University of Helsinki, a title which was changed to Professor in 1998. Prior to this, he had held several full professorships as Acting Professor. Suominen was also a visiting professor in Denmark and Sweden. He also served as editor of *Mathematica Scandinavica*, a joint Nordic publication forum, and many of the authors remember his acute comments well.

Kalevi was modest and companionable. His students and colleagues admired his straightforward and egalitarian approach to his juniors. He would invite his graduate students to his home for visits and attend their family events. During debates around the coffee table, Kalevi could surprise others with his knowledge in a wide variety of fields, but he never tried to knock his interlocutors down but would broaden their general knowledge in his own docile manner. His graduate students also benefited from his versatility, as he was able to supervise doctoral theses in algebraic geometry, algebraic topology, category theory and number theory.

Suominen received several awards for his achievements. He won the Anders Donner Prize in 1961 and the Aug. Ramsay Prize in 1969. He was elected a member of the Finnish Academy of Science and Letters at an unusually young age in 1973, and in 1993 he was awarded the Order of the Lion of Finland, First Class.

Although Suominen's mathematical research is difficult for the general public to understand, he was interested throughout his career in the applications of mathematics and particularly the use of computers. As a retirement hobby, he helped develop SymPy, an open-source library for symbolic computation, together with the international online community.

In testament to the strength of Kalevi's family ties, he passed away just a couple of months after the death of his beloved wife Pirkko. He is missed by his children Laura, Risto, Liisa and Markku and their families.

Obituary by Kaj Malm and Olli Martio



Kari-Pekka Tiitinen

* 28.12.1944 + 2.1.2024

Professor Emeritus Kari-Pekka Tiitinen passed away on 2 January 2024 in the city of Järvenpää. He was born in Helsinki on 28 December 1944. He became a member of the Finnish Academy of Science and Letters in 2005.

Tiitinen graduated as a student in 1966. He took his Master's degree in Law at Helsinki University in 1970, became a licentiate in 1973 and defended his doctoral thesis in 1979. In the 1970s, he also married his wife Carola and they had two children (Katja 1972 and Arto 1975).

Tiitinen held various positions in Labour Law at the Faculty of Law, University of Helsinki, from 1971 onwards until he was appointed Full Professor of Labour Law on 1 July 1985. He retired from this position as professor emeritus in 2010.

As a labour law researcher, Tiitinen was particularly inspired and influenced by his senior colleague Kaarlo Sarkko. They were both strongly influenced by the Finnish researcher Jorma Vuorio who introduced Nordic analytical legal thinking into academic labour law research in Finland in the 1950s. Vuorio's thesis Työsuhteen ehtojen määrääminen is a classic theoretical exploration of Finnish labour law (1955).

This analytical approach was very prominent in Tiitinen's dissertation, which was published in 1979 and dealt with negotiation clauses in collective agreements. It was well received both by the academic audience as well as by practitioners.

Tiitinen published mainly in Finnish and his research focused on Finnish labour law, but he also wrote a number of publications in English. Among others, he published an extensive report on European Works Councils in Finland in the International Encyclopaedia for Labour Law and Industrial Relations, which was edited by Roger Blanpain. Together with Ilkka Ruponen, he published a book on mediation in labour conflicts, which was also published in English.

Tiitinen played a prominent role in preparing and drafting labour law legislation in Finland over four decades from the 1970s until the early 2000s. He was actively involved in the codification of labour laws for the maritime sector in Finland in the 1970s and early 1980s. In the 1990s, he led national committees that prepared labour legislation on working time and for a new Employment Contracts Act.

Tiitinen was active as a labour law judge. He was a member and even the Vice-Chair of the Finnish Labour Court from 1981 to 2000 and he was Chair of the Finnish Labour Council from 1991 to 2003.

Tiitinen had a background in volleyball. He even achieved a Finnish championship as a player in the Käpylä volleyball team in 1965. It was therefore natural for sport organisations in Finland to make use of his knowledge. He was a member of the Sports Legal Protection Board 1991–2008. He also was the Vice-Chair of the Finnish Sports Law Association 1994–2011.

Obituary bt Niklas Bruun



Nikolai Tkachenko

* 7.1.1957 + 25.4.2024

Nikolai Tkachenko, Professor of Physical Chemistry at the University of Tampere, died on 25 April 2024 of a sudden heart attack at the age of 67. His scientific and academic career was successful. He was an internationally renowned and respected spectroscopist and photochemist, with high-quality publications and an extensive cooperation network. Professor Nikolai Tkachenko excelled as both a theoretician and an experimentalist, devoted to photochemistry, molecular electronics, nanotechnology, and research towards the development of efficient solar cells.

Nikolai Tkachenko was born on 7 January 1957, in Kaliningrad. He received his master's degree from the Moscow Institute of Physics and Technology in 1980 and his doctorate from the Institute of General Physics of the USSR Academy of Sciences in 1989.

In 1991 Nikolai joined the photochemistry research group at Helsinki University. Nikolai first worked as a researcher at the Department of Chemistry, and then, from 1993, as a senior researcher at the Tampere University of Technology. In 2000 he was appointed Docent in Physical Chemistry and in 2008 Professor of Physical Chemistry.

At Tampere University of Technology, Nikolai's first challenge was to design and build a time-resolved spectrophotometer operating in the pico- and femtosecond ranges for characterizing absorption and emission phenomena. The device was completed in autumn 1996. Later, in 2013, Nikolai upgraded the sensitivity of the device and extended the detection range from UV and visible wavelengths to the IR region (up to 1400 nm). The group's work marked the beginning of Finnish nano- and supramolecular photochemistry research.

Professor Nikolai Tkachenko was known around the globe as a leading expert in the field of ultrafast spectroscopy with an extensive publication record and a broad international collaboration network. He was a respected scientist in a field that requires a high professional level, both theoretical and instrumental. He achieved remarkable results and worldwide fame and established valuable relationships. His skills interested his collaborators, and he was especially recognized for his in-depth knowledge of the equipment he designed and built.

Professor Nikolai Tkachenko was invited to become a member of the Finnish Academy of Science and Letters in 2022,

the very first year when the rules of the Academy of Science and Letters allowed a foreign person to be elected as a full member. Professor Tkachenko was a member of the Society of Porphyrins and Phthalocyanines (SPP) and served as Finland's national representative in the organization.

In 2024, Professor Nikolai Tkachenko was awarded both the title of Honorary Professor of Keio University, Japan, and the prestigious Honda-Fujishima Lectureship Award by the Japanese Photochemistry Association.

For many years, Nikolai served as a prime example of a savant and a mentor. He was a person of great mind, honesty, and soul. He was also a close friend and mentor whose legacy we will continue to cherish in the years to come. Nikolai has left a long-lasting mark on the research and teaching of chemistry at Tampere University. We thank him for our years together, and warmly remember the moments we spent together both at work and during leisure time. It feels as if we have lost a close relative.

Obituary by Helge Lemmetyinen



Jari Valkonen

* 17.6.1964 + 7.12.2024

Jari P. T. Valkonen was an internationally renowned Professor in Plant Pathology at the University of Helsinki and an active researcher, who died suddenly of an illness at the age of 60. Jari Valkonen was one of the international leaders in potato virus and potato disease resistance research and the founder of modern plant virology research in Finland. During his career, he made numerous important observations and published more than 250 scientific papers. His research on plant virus resistance and gene silencing was pioneering. He also elucidated the mechanisms by which viruses can suppress RNA silencing and overcome the plant's defence responses. These results received remarkable international attention. He drew from many scientific disciplines to study the surprisingly complex interactions between viruses and crop plants. These studies were crucial to understanding the biology of the important group of potyviruses. His work resulted in the identification of resistance genes to fight viral diseases and to promote sustainable food production. Much of Jari Valkonen's research focused on important food crops: potato, sweet potato, and cassava. His more recent research included the development of the moss Physcomitrella

patens as a model organism for resistance studies.

In addition to basic research, Jari Valkonen led applied projects focusing on crop disease management and diagnostics. He contributed to the Finnish seed potato industry strategy, where safeguarding plant health is central. Long-term education and development cooperation with Uganda, the Republic of Tanzania, Nicaragua, and India, including studies on sweet potato and cassava viruses, was close to his heart. He was also involved in several EU-funded projects. His interest in plant pathogens was wide-ranging. This broad approach, including bacterial and fungal pathogens, is reflected in the wide range of topics covered in the more than 30 doctoral theses he supervised. He actively participated in NOVA PhD courses in plant pathology organised by Nordic agricultural universities and faculties. He attended his first course in Denmark in 1992, taught subsequent courses and eventually led excellent courses in Mikkeli, Eastern Finland, in 2012 and 2016. Jari served as Editor-in-Chief of Annals of Applied Biology from 2009 to 2014 and edited textbooks.

Jari Valkonen grew up on a farm in Ristiina, South Savo, which is probably where

his love of farming and his work ethic came from, leading to a long career as a researcher in agricultural sciences. He passed his matriculation examination in 1983 at Ristiina Upper Secondary School and began studying plant pathology at the University of Helsinki. He did his doctoral work on virus resistance in wild potato species at international research stations (Rothamsted, England in 1989, and International Potato Center, Peru in 1990) and received his PhD from the University of Helsinki in 1993. He was the most meritorious promovendi, the Doctor primus, at the conferment ceremony of the University of Helsinki's Faculty of Agriculture and Forestry in 1996. He was an Academy of Finland researcher and head of a research group at the Institute of Biotechnology at the University of Helsinki from 1993 to 1997. During these years, he gained experience in molecular virology and expanded his international collaborations. At the age of 32, Jari Valkonen became Professor of Virology at the Swedish University of Agricultural Sciences in

Uppsala. This appointment was remarkable, because at the time, this was the only plant virology professorship in the Nordic countries. In 2001, he was appointed Professor of Plant Pathology at the University of Helsinki. From 2006 to 2011, he held the highly prestigious Finnish Academy Professorship. He has been awarded major prizes, including the NOVA Prize 2004 for promoting Nordic cooperation in plant pathology, the Richard Francki Prize for viral research in 2005 and the Order of the White Rose of Finland, First Class, 2014. He was a member of numerous Finnish and international scientific societies and the Finnish Academy of Science and Letters from 2004.

In addition to an illustrious scientific career, Jari was talented in music. He sang in the Laulu-Miehet Male Voice Choir. Jari possessed a broad general knowledge and was a warm-hearted colleague. His research legacy is carried on by his former students and colleagues. Jari Valkonen will be missed by his family, friends, and the wide international scientific community.

Obituary by Mart Saarma, Kristiina Mäkinen and Risto Ihamuotila

Image: Veikko Somerpuro



Olli-Pekka Vehviläinen

* 4.6.1933 + 13.1.2024

Olli-Pekka Vehviläinen, Professor Emeritus of General History, died in Tampere on 13 January 2024. He was 90 years old, born in Helsinki on 4 June 1933.

He graduated from Munkkiniemi Coeducational School in 1951 and began studying history at the University of Helsinki in the same year. Vehviläinen's interest in history was sparked by reading historical novels and being inspired by relatives such as Professor Eino E. Suolahti.

Vehviläinen's studies progressed rapidly. He graduated with a Master of Arts in 1956 and a Licentiate in 1962 and, in 1966, defended his doctoral thesis entitled Kansallissosialistinen Saksa ja Neuvostoliitto 1933–1934: Hitlerin valtaantulosta Baltian pöytäkirjaa koskevien neuvottelujen raukeamiseen. The topic of National Socialist Germany and the Soviet Union was inspired by the legendary history professor Arvi Korhonen. Vehviläinen's doctoral thesis was supervised by Professor Jaakko Suolahti, an important teacher and role model for Olli-Pekka Vehviläinen.

Vehviläinen began his university career as Assistant of General History in 1964 at the Helsinki university, was appointed Associate Professor in 1967, and was acting Assistant Professor from 1969 to 1971, and

later Acting Professor from 1971 to 1973. In 1972–1974 he held a professorship at the University of Joensuu. He was appointed Associate Professor at the University of Joensuu in 1975.

Vehviläinen was appointed Professor of General History at the University of Tampere in 1973. He retired from this post in 1996. He served as the Dean of the Faculty of Humanities at the University of Tampere 1977–1978.

Vehviläinen was elected a member of the Finnish Academy of Science and Letters in 1994. He was invited to become a research member of the Finnish Historical Society in 1967. He was a member of the Board of the Finnish Historical Society from 1983 to 1986 and was Chairperson in 1986. He was elected a foreign member of the Polish Academy of Sciences in 1997. He was involved in various influential roles throughout his career including Vice-Chairman of the University council 1987-1989 and Chairperson of the Humanities Section of the University Council 1984-1989 under the Ministry of Education. Vehviläinen was also Chairperson of the Finnish Society for Labour History 1983-1993, member of the Board of Directors of the Lenin Museum 1984-1988, and Chairperson 1988-2005.

At its meeting on 31 January 1972, the Finnish Historical Society established a working group, chaired by professor L. A. Puntila, to draw up a proposal on how to improve the conditions for research on the history of the Second World War and how best to organise research.

The study was associated with the International Committee for the History of the Second World War operating under the auspices of the International Committee of Historical Sciences (CISH/ICHS). This was linked to the Committee for the History of the Second World War set up within the Finnish Historical Society.

Olli-Pekka Vehviläinen was appointed director of the research project "Finland in the Second World War" (Suomi toisessa maailmansodassa, SUOMA). The project was conducted under the auspices and supervision of the Ministry of Education. It was launched in the beginning of 1975 with funding from the Research Council for the Humanities of the Finlands Academy. Four assistants were assigned to the project. The aim was to broaden the picture of the war by bringing together aspects of diplomatic history, military history, social history, and cultural history. A new feature of the project was the broad perspective on Finnish society.

The main work of the project "Finland in the Second World War" was a three-volume series entitled *Kansakunta sodassa* ("A Nation at War"). The first volume was published in 1989, the second in 1990 and the third in 1992. In all three volumes, Vehviläinen wrote about the attitude of "foreign powers" towards Finland's Winter and Continuation Wars. Vehviläinen collected source material from archives in Germany, the Soviet Union, and the United States.

Olli Vehviläinen and Oleg A. Ržeševski

edited the book Yksin suurvaltaa vastaan. Talvisodan poliittinen historia, which was published in 1997. Vehviläinen's book Jatkosodan kujanjuoksu was published in 1982.

The project also resulted in doctoral theses by Britta Hiedanniemi, Silvo Hietanen, Ilkka Seppinen and Martti Turtola. Britta Hiedanniemi's thesis explored the cultural propaganda of National Socialist Germany in Finland from 1933 to 1940, Silvo Hietanen's thesis was on the settlement of evacuees after the Winter War, Ilkka Seppinen explored wartime foreign trade and Martti Turtola's topic was the development of defence cooperation between Finland and Sweden. The SUOMA seminars were attended by researchers working on similar research projects in Sweden, the Soviet Union, the Federal Republic of Germany, and the GDR.

Vehviläinen's most notable study internationally is *Finland in the Second World War*, published in 2002 by Palgrave and translated into several languages, most recently Ukrainian.

Vehviläinen was also interested in Hungarian history and labour history. In the 1980s, he also co-edited two publications of the Finnish Society for Labour History entitled Työväen historiaa ja perinnettä and Näkökulmia työväen ammatilliseen ja paikalliseen historiaan.

Vehviläinen initiated cooperation between Finland and Hungary, while György Ranki, Deputy Director of the Hungarian Academy of Sciences, represented Hungary in this cooperation. A Hungarian section was established at the Historical Society, joining the sections for France, Italy, Spain, and Poland. Olli Vehviläinen co-edited three works on Hungary, the first of which was published already in 1995 entitled *Hungary 1956*. The second was *Hungary and Finland in the 20th century*, published in 2002 with Hungarian historian Attila Pok, followed two years later by *Unkari: maa, kansa, historia,* co-edited with Juhani Huotari.

Olli-Pekka Vehviläinen promoted the international relations of students and teachers at the University of Tampere. He opened doors and study opportunities to Hungary, Germany, and the United States. Long-term contacts with universities in Bremen and Darmstadt brought international lecturers to Tampere. Vehviläinen organised Erasmus intensive courses in Joensuu and Bremen. He also had very close ties with the Goethe Institute when the institute was still in Tampere.

In the academic year 1984–1985, the multidisciplinary American Studies programme was added to the history curriculum on the initiative of Olli-Pekka Vehviläinen. It was the first of its kind in Finland. In 1994, it was extended from 20 to 40 credit units. It would later become the discipline of North American Studies and include Canadian Studies and later Mexican Studies. Many Fulbright professors,

including Keith Olsson and Robert Bieder, were also active in Tampere. Together with Associate Professor Markku Henriksson, Vehviläinen led the Academy of Finlandfunded Graduate School of North American Studies in the 1990s, which later continued as the Graduate School of American Studies. Students were required to spend a period studying in the United States. The practice of studying abroad later spread to other graduate schools.

Vehviläinen's interest in local history is demonstrated by a history of the city of Savonlinna that he wrote. The subject was close to Vehviläinen's heart. Family roots and a summer house brought the family – wife and lecturer Irma Vehviläinen (née Merikoski) and daughters Maria Karoliina (Leskinen) and Eeva Hentriikka (Kontio) and their families – to Savonlinna and its surroundings.

Olli-Pekka Vehviläinen was a wellliked, friendly, and encouraging teacher. With just a stern look, he could make a student and a doctoral thesis writer talk about how their work was progressing. Olli-Pekka Vehviläinen's legacy is farreaching.

Obituary by Marjatta Hietala

Image: Tampere University archive