

# Annual report of the Finnish Academy of Science and Letters

## GOVERNING BOARD AND SECRETARY GENERAL

In 2017, the 110th year in the history of the Finnish Academy of Science and Letters, the chairman of the Governing Board was Kirsi Tirri and the vice chairman Risto Nieminen. Pekka Ilmakunnas continued as Treasurer, Erkki Hollo as Secretary of the Section of the Humanities and Olavi Nevanlinna as Secretary of the Section of Science. Tomi Mäkelä continued as an ordinary member of the board, with Arto Haapala, Maria Lähteenmäki and Merja Penttilä as new ordinary members. The Governing Board held 12 meetings during the year.

Arto Haapala, Maria Lähteenmäki and Merja Penttilä had been elected as new ordinary members for the year 2017 at the end of the previous year, and it was decided that Tomi Mäkelä should continue as the fourth ordinary member. Pekka Aula continued as the Academy's first full-time Secretary General. The Governing Board served during the year as trustees of the

Emil Öhmann Foundation and the Hilikka and Otto Brusiin Foundation.

The Group Reorganization Committee set up in 2015 continued its work in 2017 under the chairmanship of Risto Nieminen, as did the Working Group on Grants set up in 2014, also chaired by Risto Nieminen, and the EASAC Boreal Forest Monitoring Group appointed in 2015.

The compositions of the Governing Board's working groups in 2017 were as follows:

- Working Group on Grants: the Vice President (chair), the Secretary General, Pertti Haapala, Pekka Ilmakunnas, Olavi Nevanlinna and Jukka Seppälä.
- Group Reorganization Committee: the Vice President (chair), the Secretary General, Erkki Hollo, Anne Kovalainen, Olavi Nevanlinna, Jukka Seppälä and Kimmo Kontula.
- EASAC Boreal Forest Monitoring Group: Eva-Mari Aro (chair), the Secretary of the Section of Science, the Secretary General and the administrative manager.



*Members of the Governing Board in 2017: above, from the left: Risto Nieminen, Vice President, Erkki Hollo, Secretary of the Section of the Humanities, and Olavi Nevanlinna, Secretary of the Section of Science; below, from the left: Pekka Ilmakunnas, Treasurer, and Kirsi Tirri, President. In addition, the Governing Board has four members who are elected for a year at a time.*

- In addition, Olavi Nevanlinna, Pekka Ilmakunnas and Maria Lähteenmäki were appointed during the year to act as trustees of the Emil Aaltonen Fund.

A significant revision of the rules governing the election of new members was carried out in the course of the year. The proposals were discussed at the statutory Spring Meeting and approved at the statutory Autumn Meeting, where the selection committees required under the new rules were appointed. The revision also means that there will no longer be any size quotas for individual subject groups but instead the broad-based selection committees and sections will bear more responsibility for evaluating the membership proposals.

#### GRANTS

The Academy distributed just over 2 million euros in grants in 2017, the majority being for post-graduate study, for which the value of an individual grant was now

25,000 euros. In all those cases in which a grant was made for the completion of a doctorate within Finland an additional sum of 1,600 euros was paid directly to the university concerned in compensation for the costs involved. No personal grants were awarded to Academy members.

Applications for grants were reviewed by experts appointed by the Governing Board who represented the highest expertise in the fields concerned, and the final decisions were made by the Governing Board in the light of their recommendations. Attention was paid to the possibility of vested interests at both the review and decision stages in the case of the funds and foundations administered by the Academy.

This was the 53rd year in which grants for scientific research had been distributed by the Vilho, Yrjö and Kalle Väisälä Fund. A total of 420 applications had been received (434 in 2016) amounting to approx. 8.5 (8.5) million euros in all, out of which 53 (75 in 2016) were approved, amounting to approx. 1.4 (1.4) million eu-

#### GOVERNING BOARD 2017

Member	Position	Term of office
Kirsi Tirri	President, chairman of the Governing Board	2016–2017
Risto Nieminen	Vice President, vice chairman of the Governing Board	2016–2017
Pekka Ilmakunnas	Treasurer	2014–2018
Erkki Hollo	Secretary, Section of Humanities	2014–2018
Olavi Nevanlinna	Secretary, Section of Science	2014–2018
Arto Haapala	ordinary member	2017 (1st term)
Maria Lähteenmäki	ordinary member	2017 (1st term)
Tomi Mäkelä	ordinary member	2017 (3rd term)
Merja Penttilä	ordinary member	2017 (1st term)

ros. These awards included 50 (53 in 2016) post-graduate grants of 25,000 euros for full-time study for a duration of one year and three for part of a year. In addition, 2 short-term grants for visits abroad were awarded (17 in 2016), totaling just over 5,700 (55,000) euros.

The Eino Jutikkala Fund was distributing grants for study in the humanities for the tenth time. Applications were invited for all branches of the humanities and a total of 675 such applications (619 in 2016) were received, amounting altogether to just over 16 (14.5) million euros. In the end 23 awards were made (19 in 2016), totalling 438,000 (436,000) euros, 16 of these being for the completion of a doctorate and 7 for post-doctoral work.

The Academy's Mathematics Fund distributed more than 52,000 euros in grants (approx. 12,000 in 2016) and the Emil Öhmann Foundation 57,000 (approx. 45,000) euros. No grants were made from the Hilikka and Otto Brusiin Foundation in 2017 as it distributes funds only every second year.

In 2017 the Academy took part for the second time in the Post Doc Pool established by the Council of Finnish Foundations, distributing 150,000 euros in this way, 100,000 euros from the Väisälä Fund and 50,000 euros from the Jutikkala Fund.

The survey of the impact of grants initiated by the Academy in 2016 was completed early in 2017.

#### PRIZES

The Finnish Academy of Science and Letters Award for 2017, a sum of 15,000 euros, was presented to Professor emerita Marjatta Hietala in recognition of her notable academic achievements. She was al-

so presented with Academy Medal No. 29.

The Finnish Academy of Science and Letters Prize for the Humanities, formerly known as the Jutikkala Prize, was awarded to Dr. Tuuli Lähdesmäki, a research fellow of the Academy of Finland working at the University of Jyväskylä. This also amounted to 15,000 euros.

The first recipient of the new Pro Scientia Prize announced by the Academy during 2017 was Professor Jaana Bäck of the University of Helsinki.

The Academy's Väisälä Prizes for 2017 went to Professor Camilla Hollanti of the Aalto University and Professor Sabrina Mascalco of the University of Turku and the Aalto University. This was the 18th occasion on which these prizes, each of 15,000 euros, have been awarded.

#### MEETINGS AND EVENTS

The Finnish Academy of Science and Letters held its meetings in the traditional manner in 2017, on the third Monday in each month except for January and the summer months, with the added feature this year that they formed part of the "Year of Science 2017" series of seminars held in honour of the Centenary of Finnish Independence and were included in the official national programme of such celebrations. Also part of this series was an international "Sisu" seminar held in May.

Two seminars open to the general public were arranged by individual subject groups within the Academy in the course of the year: a seminar on "Chemistry in Centennial Finland – Solutions to Major Challenges" held by the chemistry group in April, and a research seminar in law arranged by the jurisprudence group in May.



*The presidents of the four member organizations of the newly formed Council of Finnish Academies signing their agreement to work together to promote national cooperation and improve Finland's international impact. From the left: Professors Fred Karlsson, Kirsi Tirri, Ilkka Pöyhönen and Jarl-Thure Eriksson.*

Both events were held in the House of Science and Letters.

Sectional meetings were held in connection with the monthly meeting in March 2017, the statutory Spring Meeting took place in April and the statutory Autumn Meeting was in November. One meeting in September was dedicated to the providing of information on the change in the rules regarding the election of new members.

A public seminar on “The importance of science and innovation in the context of global issues” was arranged jointly by the Finnish Academy of Science and Letters, the Finnish Society of Sciences and Letters and the French Académie des Sciences at the House of the Estates in June 2017, at which the keynote lecture was given by the French Professor Catherine

Brechignac. A second gathering with a similar panel was then held in November, at which the principal speaker was Professor Jean-Pierre Bourguignon, head of the European Research Council.

In November 2017 a second consultation was arranged between leading Finnish researchers, the Minister of Education and officials of the Ministry of Education and Culture on the premises of the Finnish Academy of Science and Letters. In October the Academy took part in a Nobel Prize discussion in the Media Piazza auditorium of the Sanoma building together with the other academies and representatives of the Helsingin Sanomat newspaper.

The Academy also arranged a public discussion on the topic of “The Importance of Science in Finland” together with

Technology Academy Finland (TAF) as part of “Science Forum 2017”. The Academy also took part in the initial planning for “Science Forum 2019”, being represented on the steering committee by the Secretary General and on the programme committee by Maria Lähteenmäki.

A list of the monthly meetings is provided in Appendix 1.

#### **COLLABORATION BETWEEN THE ACADEMIES OF SCIENCE**

In October 2017 the various academies of science and letters in Finland signed a collaboration agreement by which a new joint body would be formed, to be known as the Council of Finnish Academies. This was to begin its activities officially as of 1st January 2018 and responsibility for its administration was to rest with the Finnish Academy of Science and Letters. The council was to take over the functions of the previous collaborative body (known in English by the same name) but was committed to strengthening the role and visibility of science and academic research within Finnish society and to playing a prominent role in reforming the system of academies of science and letters in Finland and their future orientation. Under the terms of the agreement the academies will make greater efforts to develop the national academic community and to render it more international.

#### **INTERNATIONAL ACTIVITIES**

The international activities of the Finnish academies of science and letters mostly take place under the auspices of the Council for Finnish Academies, the chairman of which was Olavi Nevanlinna, while the

Academy’s other representative was the Secretary General.

Members of the Finnish Academy of Science and Letters occupied positions in many international organizations during 2017, most notably Eva-Mari Aro and Jari Valkonen in EASAC, Olavi Nevanlinna in ICSU, Jukka Kekkonen in the International Human Rights Network, Krista Varantola in ALLEA and Olavi Nevanlinna in EuroCASE. At the Academy’s instigation, Eva-Mari Aro was elected vice president of EASAC.

The collaboration between the Finnish Academy of Science and Letters and the EASAC energy panel that had begun in 2014 continued in 2017, when the Academy funded and coordinated an EASAC

### *Multi-functionality and Sustainability in the European Union’s Forests report was made public in May*

working group to prepare a report on “Multi-functionality and Sustainability in the European Union’s Forests” under the leadership of Professor Jaana Bäck of the University of Helsinki. The report was made public on 11th May in Brussels and 16th May in Helsinki.

In the course of the year the Academy hosted the 15th Baltic Conference on Intellectual Cooperation, in the form of a seminar on the theme “The Future of Teacher Education in the Baltic Region: Towards Research-Based Teacher Education”. Similarly, an international seminar on “Human Rights and the Arctic” was arranged



*The new members elected to the Academy at its Annual Meeting in April received their membership diplomas at the "New members' event" in September.*

in September 2017 jointly with the other academies and in collaboration with the Deutsche Akademie der Naturforscher Leopoldina, coordinated by the Council of Finnish Academies.

Discussions were held with the embassies of France and Italy, among others, regarding new forms of international co-operation.

In November 2017 the Finnish Academy of Science and Letters was involved in organizing a scientific event in London together with Imperial College, London,

and the Finnish Embassy, while in April the Vice President and Secretary General attended the 150th anniversary seminar of the Royal Society of New Zealand and took part in some of its working groups. The Vice President attended the Annual Meeting of the STS Forum and a gathering of presidents of academies of science and letters in Kyoto, Japan, in October, and the Secretary General represented the Council of Finnish Academies at the SA-PEA seminar in Madrid, Spain, during the autumn. Mikael Fortelius represented the

Academy at a high-level meeting in Oslo in November 2017.

The Academy suggested candidates for the Holberg Prize, the Balzan Prize, the Keio Medical Science Prize and the Abel Prize during the year, and also for an Innovation Award for women.

#### MEMBERSHIP

The Finnish Academy of Science and Letters had 740 Finnish members and 178 external members at the end of 2017.

The Spring Meeting on 21st April elected 27 new Finnish members and 11 new external members.

The new members elected to the Section of Science were Petri Auvinen (University of Helsinki), Mikael Fogelholm (University of Helsinki), Tero Heikkilä (University of Jyväskylä), Tuomas Hytönen (University of Helsinki), Samuel Kaski (Aalto University), Riitta Korpela (University of Helsinki), Anna-Liisa Laine (University of Helsinki), Atte Moilanen (University of Helsinki), Karri Muinonen (University of Helsinki), Dmitry Murzin (Åbo Akademi), Kai Nordlund (University of Helsinki), Mika Pettersson (University of Jyväskylä), Timo Repo (University of Helsinki), Ahti Salo (Aalto University) and Jukka Westermarck (University of Turku).

The new members elected to the Section of the Humanities were Antti Arjava (Finnish Cultural Fund), Enrico Garavelli (University of Helsinki), Leena Kolehmainen (University of Turku), Merja Koskela (University of Vaasa), Tuija Laine (University of Helsinki), Tapani Lohi (University of Helsinki), Marjaana Niemi (University of Tampere), Minna Palander-Collin (University of Helsinki), Sami Pihlström (University of Helsinki), Hannu Salmi (University of

Turku), Sanna-Kaisa Tanskanen (University of Helsinki) and Kati Tervo-Niemelä (University of Helsinki).

The new external members elected were Fred Asiegbu (University of Helsinki, Nanjing University of Forestry, China), Elizabeth Crone (Tufts University, USA), Marcus Galdia (International University of Monaco), Valter Lang (University of Tartu, Estonia), Gennadi A. Leonov (St. Petersburg State University, Russia), Lorenza Mondada (University of Basel, Switzerland), Ole-Petter Ottersen (University of

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Oslo, Norway), Orlando Rojas (Aalto University), Kai T. Salomaa (Queen's University, Canada), Barbara Schneider (Michigan State University, USA) and Mikhail Volkov (Ural Federal University, Russia).

The Academy mourned the deaths of the following members during the year: Matti Eronen, Mauno Koivisto, Pekka Koivistoinen, Mauri Lounasmaa, Jorma K. Miettinen, Peitsa Mikola, Jari-Erik Nurmi, Seppo Rickman, Stig Stenholm, Perttu Vartiainen and Olli Välikangas.

News was also received of the deaths of the following external members: Kenneth Arrow, Mihály Beck, Armo Bellack, Peter Blickle, Kamaravolu Chandrasekharan, Ludvig Faddeev, Melvin M. Green, Harold Kroto, Nikolay P. Laverov, Silvio Panciera, Hans Ragnemalm, Diether Sperlich and Lofti Zadeh.



#### YOUNG ACADEMY FINLAND

The new Young Academy Finland (YAF), aimed at promoting scientific research especially among those still in the early stages of an academic career, began its activities in autumn 2017. The first elected chairman of its committee was Tommi Himberg, a young researcher in the neurosciences at the Aalto University. No corresponding programme of activities has previously existed in Finland.

The Young Academy Finland (YAF) project was to a great extent made possible by a donation of a million euros from the Emil Aaltonen Foundation to the Academy to establish a separate Emil Aaltonen Fund for this specific purpose. The rules governing the Young Academy Finland and the Emil Aaltonen Fund were approved by the statutory Spring Meeting.

#### ACADEMY CLUB FOR YOUNG SCIENTISTS

The Academy Club for Young Scientists, which began its activities in 2009, met 8 times during the year in the Academy's Väisälä Room. The papers presented and the discussions that followed may be seen on the Academy's homepage and Youtube channel.

The club was incorporated into the activities of the newly formed Young Academy Finland at the end of the year and will continue to function under the name of the Young Academy Finland Club, the young scientists elected to the club for the academic year 2017–2018 being granted membership of the Young Academy Finland for four years and those elected for 2016–2017 for three years. Young Academy Finland members do not have membership of the Finnish Academy of Science and Letters as such.

A list of Club for Young Scientists and the Young Academy Finland members is contained in Appendix 2.

#### PUBLICATIONS

The Finnish Academy of Science and Letters published a total of 68 papers in the series *Annales Academiae Scientiarum Fennicae* (Mathematica and Humaniora) and *Folklore Fellows' Communications* (FFC) in 2017. In addition, it produced the *FF Network* magazine and the Academy's Year Book. These publications are freely available at the homepage of the Finnish Academy of Science and Letters.

The chairman of the Publishing Committee was the editor-in-chief of the *Mathematica* series, Olli Martio, and the other members were Raija-Leena Punamäki (vice chairman), Jaakko Hämeen-Anttila, editor-in-chief of the *Humaniora* series, Pekka Hakamies, editor-in-chief of the *FFC* series, and Secretary General. The committee's secretary was Mika Koskenoja, editorial secretary of the *Mathematica* series. The Publishing Committee met twice during the year.

The Academy received 127,000 euros (117,000 euros in 2016) in government assistance for its publishing work, and incomes from the sale of publications amounted to 21,284.54 (27,433.60) euros. Distribution of the Academy's publications on an exchange basis took place through the Exchange Centre for Scientific Literature run by the Federation of Finnish Learned Societies. The Academy had 345 (371) overseas exchange partners at the end of the year, and a total of 604 (651) copies were sent out in this way.

The joint publishing committee of the Finnish Academy of Science and Letters



*The EASAC report on Multi-functionality and Sustainability in the European Union's Forests was published in May 2017. The report was introduced at the event held to mark the occasion by three members of the Working Group, Professors Janne Kotiaho, Jaana Bäck and Timo Vesala.*



and the Finnish Society of Sciences and Letters did not meet in 2016.

#### STRATEGIC PLANNING

The Governing Board continued the strategic planning begun in 2015 in the form of two meetings. Four focal points were chosen for the coming five years: promotion of the recognition and influence of high-level scientific and academic expertise within society, support for talented young scientists and scholars, strengthening of the international dimension in Finnish scientific and academic research, and ad-

justment of the Academy's own organization in order to be more flexible and active. These focal points were highly prominent in the Academy's activities in 2017.

#### COMMUNICATIONS

The main channels for the Academy's external communications have been its new home pages on the Internet, its Twitter account, Facebook pages and YouTube channel. Greater efficiency was achieved in this by using a press release service and adopting a more active attitude towards interest groups, and also by monitoring the media

publicity obtained. Attention was also paid to the dissemination of scientific information and research results through the channels available for influencing public affairs. For example, a summary in Finnish of the EASAC report on Multifunctionality and Sustainability in the European Union's Forests was drawn up for circulation within Finland and a publicity event arranged for researchers and decision-makers.

Increasing use was made of networking systems and collaborative platforms for internal communications.

#### ECONOMY AND ADMINISTRATION OF ASSETS

The Property Management Committee which advises the Governing Board on financial matters consisted of the President, Vice President, Treasurer and Secretary General together with Erkki Hollo. Timo Viherkenttä acted as an expert advisor. The committee held two meetings during the year. The Academy's portfolio was managed by Nordea and Union Bancaire Privée. As a result of a call for new tenders, management of the Academy's assets from January 2018 onwards will be in the hands of Nordea and Evli. At the same time revisions were made to the investment strategies of the Academy itself, its separate funds and the foundations that it administers.

The total value of the investments held in the name of the Academy and its various funds at the end of 2017 was approximately 140.7 million euros (124.6 million euros at the end of the previous year), with a further 3.8 million euros in the hands of the foundations administered by it. The office space owned jointly by the Väisälä Fund and the Emil Öhmann Foundation was sold at the end of 2017, so that

the premises at Mariankatu 5 in Helsinki where the Academy's offices and the meeting room of the Governing Board are located now represent its only direct investment in property, with a nominal value of approx. 0.8 million euros. The total annual yield from the Academy's assets, including dividends, interests, rents and increases in value (excluding property values), was about 16% (19% in the previous year), or about 7% if the Väisälä Oyj shares are excluded.

The auditor of the Academy's accounts and administrative procedures in 2016 was the chartered accountant Professor Markku Koskela, with the chartered accountant Riku Kärnä as his deputy. A financial report and auditor's statement will be published in connection with this Year Book.

#### STAFF

The Academy's Secretary General was Professor Pekka Aula, the Administrative Manager Leila Sarajärvi, M.A., and the Administrative Assistant Nina Rapelo, M.A. A clause was added to the contracts of the Administrative Manager and Administrative Assistant allowing for flexible working hours. In addition, Irina Piippo began work on a 10% time basis in October 2017 as the Young Academy Finland secretary. Procedures for the recruitment of an office assistant were begun during the year. The Administrative Manager attended courses connected with labour and employment legislation and the Administrative Secretary courses on communications and procedures for the awarding of grants. Staff members also attended seminars and information sessions arranged by organizations with which the Academy collaborates.

The Academy paid salaries or fees to a total of 13 persons during the year. In the case of some providers of services the Academy changed over from a salary-based to a contract-based arrangement.

#### OTHER ACTIVITIES

The Academy of Finland together with the various academies of science began a joint mentoring programme for researchers, in which the Finnish Academy of Science and Letters was intimately involved. Olavi Nevanlinna was appointed chairman of the steering committee and the Secretary General was a member of that committee.

The Governing Board was asked during the year to propose members for a number of working groups and committees, and the Academy is now represented in numerous institutions and organizations at home and abroad.

The Academy was represented on the board of the Federation of Finnish Learned Societies by Keijo Hämäläinen and Kirsi Tirri, with Arto Haapala and Erkki Hollo as their respective deputies. Keijo Hämäläinen served as chairman of the board. The Academy was represented at the Federation's spring meeting in March by Pekka Ilmakunnas and at its autumn meeting in September by Maria Lähteenmäki, who also served as chairman of the meeting. Maria Lähteenmäki was also the Academy's representative on the organizing committee for Science Forum 2019 and the Secretary General, Pekka Aula, a member of its steering group. Dennis Bamford was its representative on the steering group for the Publication Forum.

The Academy was represented on the governing board of the Alfred Kordelin Foundation by Markku Leskelä (until 6.11.)

and Jukka Seppälä (from 7.11.), with Keijo Hämäläinen as their deputy and by Hannu Riikonen with Mari Vaattovaara as his deputy, and in the foundation's science section by Seppo Hentilä, with Jorma Sipilä (until 6.11.) and Tuomas Forsberg (from 7.11.) as his deputies, and by Eija Kalso with Hilikka Soininen as her deputy. Other representa-

*The Academy is represented in numerous institutions and organizations at home and abroad*

tives were Kirsi Tirri, with Leena Syrjälä as her deputy, in the popular education section, Heta Pyrhönen, with Marjatta Palander as her deputy, in the literature section and Ville Lukkarinen, with Helena Hyvönen as his deputy, in the arts section.

The Academy's representative on the board of the Sodankylä Observatory was Heikki Nevanlinna, with Risto Nieminen as his deputy, and its representatives on the Finnish Zoological and Botanical Publications Committee were Jukka Jernvall and Jaana Bäck, while Tuomas Forsberg continued to represent the Academy in the Foundation for Foreign Policy Research. The representative on the committee of the foundations' Post Doc Pool was Kirsi Tirri, with Kaisa Nyberg as her deputy.

The following members were serving on Academy of Finland research councils at the end of 2017: Maria Lähteenmäki on the Council for Culture and Society, Paula Eerola, Juha Kinnunen, Reko Leino, Juha Pekka Lunkka and Jukka Pekola on the Council for Natural Sciences and Engineering, Asla

Pitkänen, Jorma Toppari and Anu Wartiovaara on the Council for Health, and Riitta Julkunen-Tiitto, Jussi Kukkonen, Johanna Mappes, Jorma Palvimo, Seppo Salminen and Lea Sistonen on the Council for the Biosciences and the Environment. Of these, Paula Eerola was acting in the capacity of chairman.

The President, Treasurer and Secretary General visited Vaisala Oyj at the invitation

of the chairman of its board and the managing director, and the Treasurer Pekka Ilmakunnas represented the Academy at the company's shareholders' meeting in March. The Secretary General Pekka Aula was the Academy's representative at the annual meeting of the Finnish Zoological and Botanical Publications Committee on 24th March, and Kimmo Kontula was a patron of the Finnish LUMA Centre's StarT Project.

## APPENDIX 1

### MEETINGS AND EVENT 2017

#### 14TH JANUARY: SEMINAR THE SIGNIFICANCE OF SCIENCE FOR FINLAND (PART OF THE YEAR OF SCIENCE 2017 PROGRAMME)

- Professor Juha-Antti Lamberg, University of Jyväskylä: Historical moments in science and economics
- Professor Maria Lähteenmäki, University of Eastern Finland: comments on Prof. Lamberg's lecture

#### 13TH FEBRUARY: SEMINAR SCIENCE AND FINLAND'S ROAD FORWARD I (PART OF THE YEAR OF SCIENCE 2017 PROGRAMME)

- Professor Pertti Haapala, University of Tampere: Science creating a nation – why and how?
- Professor emeritus Ilkka Niiniluoto, University of Helsinki: Scholars in the humanities as builders of Finland

#### 13TH MARCH: SEMINAR SCIENCE AND FINLAND'S ROAD FORWARD II (PART OF THE YEAR OF SCIENCE 2017 PROGRAMME)

- Dr. Matti Roitto, University of Jyväskylä: The Second World War – a breakthrough for scientists?
- Juhana Aunesluoma, director of research, University of Helsinki: Researchers and the Cold War

#### 30TH–31ST MARCH SEMINAR: THE FUTURE OF TEACHER EDUCATION IN THE BALTIC REGION – TOWARDS RESEARCH-BASED TEACHER EDUCATION

- Part of a series of seminars belonging to the 15th Baltic Conference on Intellectual Cooperation

#### 21ST APRIL: ANNUAL GENERAL MEETING:

##### DISTRIBUTION OF PRIZES, SPRING MEETING AND DINNER

- Presentation of the Finnish Academy of Science and Letters Award and Medal No. 29 to Professor emerita Marjatta Hietala, University of Tampere
- Followed by Professor Hietala's presentation lecture
- Spring meeting: discussions and decisions on statutory matters, approval of the proposed new regulations for the Emil Aaltonen Fund and first discussion of the Governing Board's proposals for new Academy rules.
- Celebration dinner

#### 21ST APRIL: CHEMISTRY GROUP SEMINAR: CHEMISTRY IN CENTENNIAL FINLAND – SOLUTIONS TO MAJOR CHALLENGES

#### 8TH MAY: "SISU" SEMINAR (PART OF THE YEAR OF SCIENCE 2017 PROGRAMME)

- Professor Kirsi Tirri, University of Helsinki: The growth mindset in learning
- Emilia Lahti, researcher, Aalto University: Sisu as extraordinary determination in science and life
- Professor Barbara Schneider, Michigan State University: The Finnish identity of Sisu and its impact on motivation, expectations and well-being

#### 16TH MAY: PUBLICATION OF THE EASAC FOREST REPORT

- Academician Eva-Mari Aro, vice president of EASAC; Opening remarks
- Professor Jaana Bäck, project leader: Background and main findings of the report
- General discussion on the theme of the report. Finnish experts present

included Academy Professor Timo Vesala and Professor Janne Kotiaho.

**16TH MAY: JURISPRUDENCE GROUP  
SEMINAR LEGAL RESEARCH 2017 – WHAT  
IS FINNISH ABOUT THE FINNISH LEGAL  
SYSTEM?**

**9TH SEPTEMBER: SEMINAR THE CURRENT  
STATE OF SCIENCE (PART OF THE YEAR OF  
SCIENCE 2017 PROGRAMME)**

- Introduction of new members
- Academician Risto Nieminen, Aalto University: The current state of science in Finland
- Professor Sami Pihlström, University of Helsinki: The future of the academic way of life
- Professor Elizabeth Crone, Tufts University: How Americans are planning for resilience in non-stationary environments

**25TH SEPTEMBER: INFORMATION ON  
CHANGES IN THE ACADEMY'S RULES  
AND THEIR EFFECTS ON THE ELECTION  
OF NEW MEMBERS**

**29TH SEPTEMBER: HUMAN RIGHTS AND  
SCIENCE SYMPOSIUM**

**9TH OCTOBER: PRESENTATION OF GRANTS  
FROM THE EMIL ÖHMANN FOUNDATION  
AND THE JUTIKKALA FUND AND THE  
PRIZE FOR THE HUMANITIES (PART OF  
THE YEAR OF SCIENCE 2017 PROGRAMME)**

- Professor Anna Mauranen, University of Helsinki: Scholars in the humanities and the international dimension
- Presentation of the Prize for the Humanities to Tuuli Lähdesmäki, University of Jyväskylä
- Presentation of certificates to the recip-

ients of grants from the Eino Jutikkala Fund and the Emil Öhmann Foundation

**10TH OCTOBER: NOBEL PRIZE DISCUSSION**

- Arranged jointly with the other academies and Helsingin Sanomat and held in the Mediator auditorium in the Sanoma building
- Expert introductions to the work leading to Nobel Prizes in 2017

**4TH NOVEMBER: FINNISH SCIENCE 100 –  
SCIENCE FROM FINLAND IN ITS  
CENTENARY YEAR**

- Arranged in London in conjunction with Imperial College and the Finnish Embassy in Britain.

**13TH NOVEMBER: SEMINAR JOYS AND  
CURSES OF SCIENTIFIC FAME (PART OF  
THE YEAR OF SCIENCE 2017 PROGRAMME),  
ALSO AUTUMN GENERAL MEETING**

- Introductions by Professor Anna-Leena Laine, University of Helsinki, Professor Esa Väliverronen, University of Helsinki, and Professor Jaana Bäck, University of Helsinki, recipient of the Pro Scientia Prize
- Presentation of the Pro Scientia Prize to Professor Jaana Bäck

**11TH DECEMBER: PRESENTATION OF PRIZES  
AND GRANTS AWARDED BY THE VILHO,  
YRJÖ AND KALLE VÄISÄLÄ FUND (PART  
OF THE YEAR OF SCIENCE 2017  
PROGRAMME)**

- Presentation of Väisälä Prizes to Professors Camilla Hollanti, Aalto University, and Sabrina Maniscalco (University of Turku and Aalto University)
- Lectures by the recipients of prizes
- Presentation of certificates to the recipients of grants from the Väisälä Fund

## APPENDIX 2

### YOUNG ACADEMY FINLAND MEMBERS

#### YOUNG ACADEMY FINLAND MEMBERS FOR THE PERIOD 2017 – 2020 (MEMBERS OF THE ACADEMY CLUB FOR YOUNG SCIENTISTS IN 2016–2017)

Jan Antfolk, Ph.D., Åbo Akademi (psychology)  
Billy Bob Brumley, D.Sc.(Tech.), Tampere University of Technology (computer theory)  
Andrew Dimmock, Ph.D., Aalto University (plasma physics)  
Laura Ekholm, D.Soc.Sci., University of Helsinki (economic and social history)  
Dan-Johan Eklund, D.Theol., University of Helsinki (philosophy of religion)  
Tommi Himberg, Ph.D., Aalto University (brain research, psychology of music)  
Terhi Honkola, Ph.D., University of Turku (biology)  
Veli-Matti Karhulahti, D.Soc.Sci., University of Turku (media research)  
Minna Karjalainen, Ph.D., University of Oulu (genetics)  
Susi Lehtola, Ph.D., Lawrence Berkeley National Laboratory (computational chemistry)  
Emilia Lindroos, LL.D., University of Lapland (legal linguistics)  
Kaarina Matilainen, Natural Resources Institute (animal breeding)  
Ulla Savolainen, Ph.D., University of Helsinki (folklore studies)  
Olli Taanila, Ph.D., University of Helsinki (cosmology)  
Jenna Vekkaila, Ph.D.(Educ.) University of Helsinki (education)  
Jutta Viinikainen, D.Sc.(Econ.), University of Jyväskylä (economics)

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Maija Hirvonen, Ph.D., University of Helsinki (translation studies)  
Kirsi-Maria Hytönen, Ph.D., University of Jyväskylä (ethnology)  
Terhi Iso-Touru, Ph.D., Natural Resources Institute (animal genomics)  
Tuukka Kauhanen, D.Theol., University of Helsinki (exegetics)  
Mikko Keränen, D.Med.Sc., University of Helsinki (haematology)  
Elli Koskela, D.Sc. (Agr.& For.), University of Helsinki (agricultural biotechnology)  
Tatu Kumpulainen, Ph.D., University of Geneva (physical chemistry)  
Sonja Laine, Ph.D. (Educ.), University of Helsinki (education)  
Terhi Maczulskij, D.Sc.(Econ.), Labour Institute for Economic Research (economics)  
Toni Malminen, LL.D., Hannes Snellman Attorneys Ltd. (legal history)  
Yann Pfau-Kempf, Ph.D., University of Helsinki (space plasma physics)  
Päivi Roivanen, Ph.D., National Museum of Finland (ethnology, material culture)  
Ville Salo, Ph.D., University of Turku (discrete mathematics)  
Anna Salonen, D.Theol., University of Helsinki (church and social studies)  
Matti Silveri, Ph.D., University of Oulu and Aalto University (theoretical physics)  
Tero Vanhanen, Ph.D., University of Helsinki (comparative literature)  
Elina Westinen, Ph.D., University of Jyväskylä (English language)