



Turun yliopisto
University of Turku



University of Turku 2012



ANNUAL REPORT

THE UNIVERSITY OF TURKU IS

**open
critical
a community
ethical
creative**

RESEARCH TRENDS:

- molecular biosciences
- cardiovascular and metabolic research
- ecological interactions and ecological genetics research
- learning and education research
- futures research
- research on institutional design and social mechanisms

THE ACADEMY OF FINLAND'S CENTRES OF EXCELLENCE AT THE UNIVERSITY OF TURKU IN 2008–2013:

- Aro, Eva-Mari: CoE in Integrative Photosynthesis and Bioactive Compound Research at Systems Biology Level
- Jaikonen, Sirpa: CoE in Host Defence Research
- Knuuti, Juhani: CoE in Molecular Imaging in Cardiovascular and Metabolic Research
- Nurmi, Hannu: CoE in Public Choice Research

FACULTY OF HUMANITIES | Dean Eija Suomela-Salmi

FACULTY OF MATHEMATICS AND NATURAL SCIENCES | Dean Reijo Lahti

FACULTY OF MEDICINE | Dean Tapani Rönnemaa

FACULTY OF LAW | Dean Jukka Mähönen

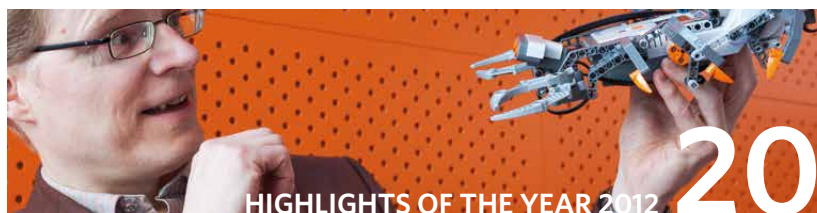
FACULTY OF SOCIAL SCIENCES | Dean Kimmo Rentola

FACULTY OF EDUCATION | Dean Marja Vauras

TURKU SCHOOL OF ECONOMICS | Director Markus Granlund

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ANNUAL REPORT 2012

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RECTOR'S REVIEW 2012

The university has a strong spirit



Education-wise, the year 2012 was a very good one for the University of Turku. A total of 1,453 students (out of the goal of 1,450) completed a lower and 1,537 (goal 1,595) a higher academic degree. It is particularly delightful to note the improvements in student performance in all faculties.

The year was also fruitful in the field of research. The number of doctoral degrees completed was 182, more than at any other time in the university's history. The level of publication activity remained high.

In terms of social influence, the university developed new ways of assessing societal interaction and taking them into account in the evaluation of personal performance. Special attention was paid to strengthening cooperation with regional interest groups.

When comparing universities, our number of international students and employees, and the number of degrees they complete,

of development

remains low. In the future, the university plans to further develop its international connections through international partnerships.

In 2012, the University of Turku continued to adapt its operations to meet the requirements laid down in the new Universities Act and applied the final touches to the merger between the University of Turku and Turku School of Economics. The University Board updated its strategy for 2013–2016.

A decision was made to dissolve the department councils and provide students and employees with new ways of being heard. This process has begun well, but still requires special attention. The university management met with representatives of both the Student Union of the University of Turku and employee organisations on frequent occasions throughout the year. Shared matters were handled in a constructive manner.

The University Board confirmed a new Human Resources Policy. We adopted an early intervention model supporting well-being at work, and declared the campus smoke-free.

In 2012, we began reorganising services within the university – a process which will affect the entire community. Our reorganisation and review of the administrative structure of independent units will continue into 2013. In late 2012, the university prepared a new, internal financing model, which was being used in the preparation of faculty budgets for 2013.

During the summer, the university launched a property programme, which applies to the entire university. Its first goal is to halt the rapid relative growth in property-related costs and then to reduce these costs' relative share of our total expenses.

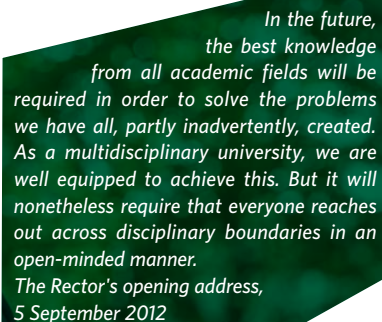
The long-term Rector of the University of Turku, Keijo Virtanen, retired in July and I took over his duties from 1 August 2012. Alongside a new Rector,

new Vice Rectors and Deans were also appointed. Faculty Deans and the Chair of the Executive Board of the Student Union joined the university's management group.

The results for 2012 provide us with a fairly strong basis for a new, four-year performance target negotiation period (2013–2016), which will also mark our transfer to new performance agreement practices between the state and university.



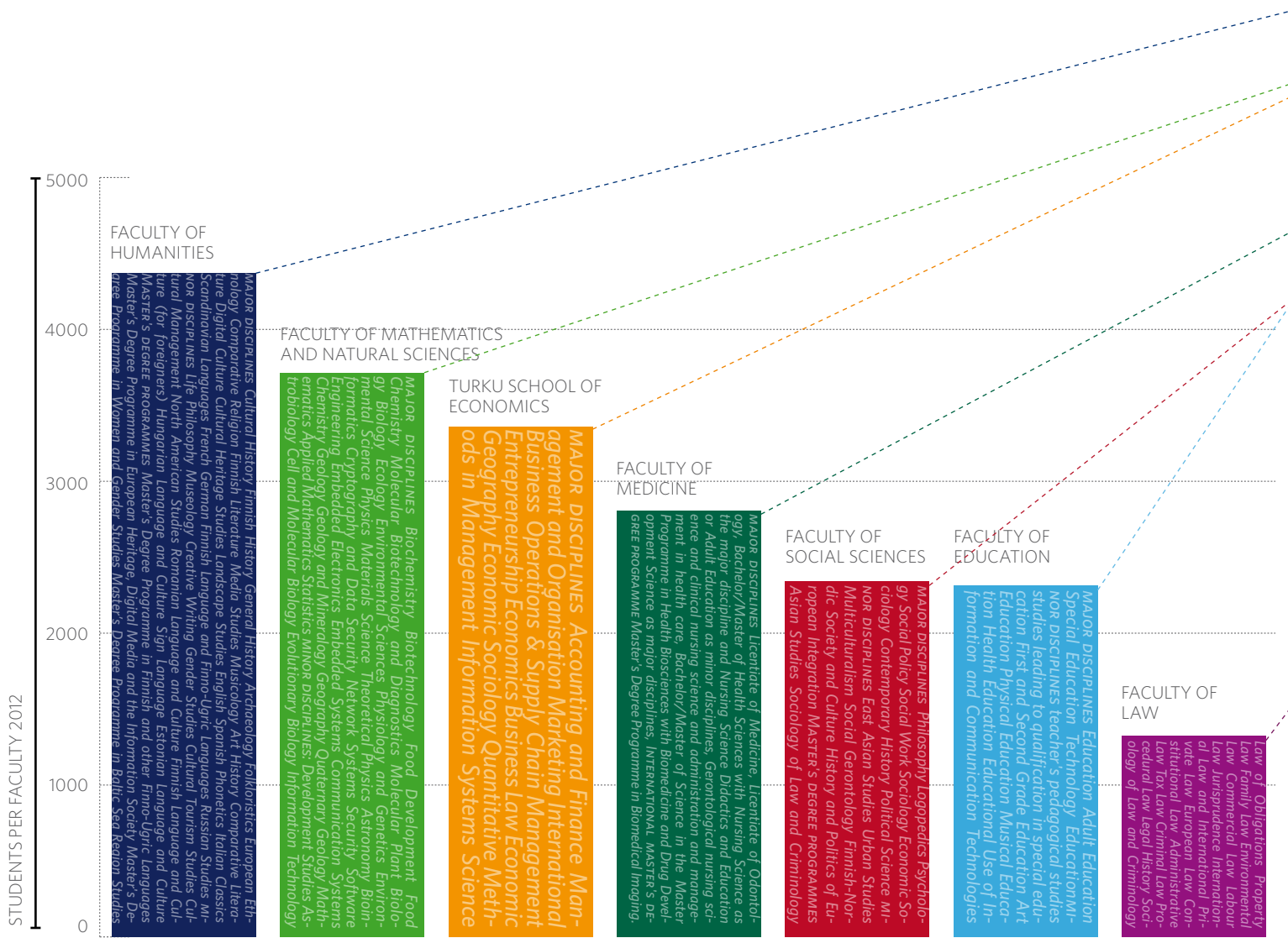
Kalervo Väänänen



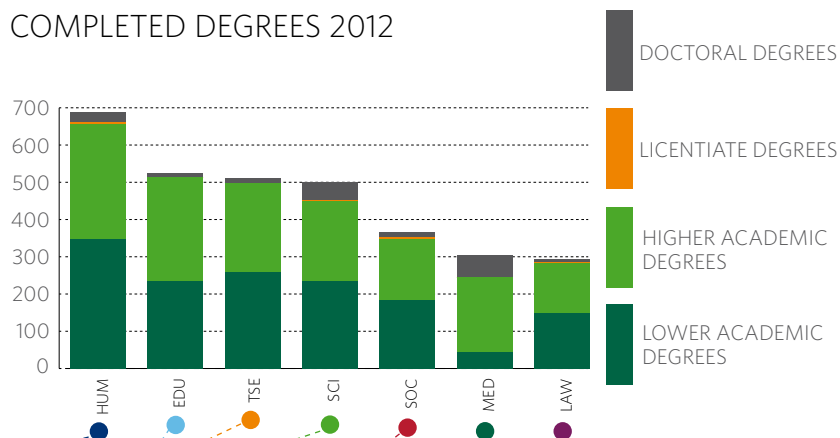
*In the future,
the best knowledge
from all academic fields will be
required in order to solve the problems
we have all, partly inadvertently, created.
As a multidisciplinary university, we are
well equipped to achieve this. But it will
nonetheless require that everyone reaches
out across disciplinary boundaries in an
open-minded manner.
The Rector's opening address,
5 September 2012*

Education creates continuity

IN THE AUTUMN, 2,146 NEW UNDERGRADUATE DEGREE STUDENTS BEGAN PURSUING THEIR STUDIES. THE TOTAL NUMBER OF STUDENTS WAS 20,227. A TOTAL OF 1,537 STUDENTS COMPLETED A HIGHER ACADEMIC DEGREE DURING THE YEAR.



COMPLETED DEGREES 2012



Our educational quality was on show during the university's Opening Day. Olli Pyyhtinen, Senior Lecturer in Sociology, was granted the Teacher of the Year award. The multiprofessional psychology and social work teaching clinic was selected as the provider of Course of the Year. The numbers of completed Master's and doctoral degrees were either good or excellent.
Faculty of Social Sciences

We developed our extremely popular and successful international master's degree programmes, including our eMBA. We also launched a comprehensive programme to improve our graduation rate.
Turku School of Economics

We began planning new, broader study paths for new applicants. Curricula are being specifically developed, crossing disciplinary borders more boldly than before. As a result, planning of the core contents of study modules, the dimensions of courses and the use of teaching resources are being changed in pursuit of greater efficiency.
Faculty of Humanities

The faculty established groups to develop training, educational and research environments that benefit from the faculty's technology, with another group coordinating training in university pedagogy across faculty boundaries. In the autumn, we began curriculum planning. A goal of this is to ensure that students complete their degrees within the target period. In basic education, the number of completed degrees surpassed the related targets by 20 percentage points.
Faculty of Education

The Masters of Science in Information Technology was thoroughly renewed in line with the CDIO Initiative. Students' readiness for working life was improved by means of project-based learning organised through multicultural cooperation, as well as through cooperation with partners. A special feature of this course lies in its combination of extensive ICT expertise with the strengths of a multidisciplinary university. The programme has even raised international interest.

Faculty of Mathematics and Natural Sciences

We launched entrance examination cooperation with the University of Eastern Finland. The universities also began developing joint degree structures. The aim is to create an efficient, streamlined course running from the moment a student enters the faculty, to the day he or she graduates.
Faculty of Law

Our medical students' skills in treating Swedish-speaking patients were improved by increasing the amount of intern education organised in the Vaasa Hospital District. For the Masters Programme in Health Biosciences, a switch of language to English was planned, as was cooperation with the St. Petersburg State Chemical-Pharmaceutical Academy. Plans were also made for a specialist programme in the field of Emergency Medicine, launched at the beginning of 2013.
Faculty of Medicine

DEANS ON EDUCATION

photo: Hannu Aaltonen

Accomplished research

THE UNIVERSITY OF TURKU CHALLENGED OTHER INSTITUTIONS OF HIGHER EDUCATION TO TURN FINLAND INTO A WORLD-CLASS NATION IN TERMS OF SCIENCE AND RESEARCH. THIS WILL BE ACHIEVED BY ENHANCING INTERNATIONALITY, VALUE PLURALISM AND CREATIVITY WITHIN THE SCIENTIFIC COMMUNITY.

PUBLICATIONS 2012*



RECORD YEAR FOR DOCTORAL DEGREES

In 2012, a record number of doctoral degrees (182) were completed at the University of Turku. One in eight new graduates was foreign. The number of doctoral degrees grew by one fifth from the previous year, while the number of foreign graduates nearly doubled.

Currently operating for its first full calendar year, the graduate school for the entire university supported and coordinated doctoral programmes and harmonised doctoral education practices throughout the institution. Over 1,300 Doctoral Candidates attended courses on transferable skills for researchers and expert skills. The total number of doctoral students in the graduate school is around 1,800.

New features introduced in 2012 were grants for writing a first article in English and completing the doctoral degree.

The University of Turku Graduate School participated in improving doctoral training collaboration between Finnish universities. It also collected data on the performance of national doctoral programmes, required for the reform of universities' financing model in early 2013.

Our applications for competitive funding from the Academy of Finland and the Finnish Funding Agency for Technology and Innovation were once again successful. We also made significant progress in integrating with several Strategic Centres for Science, Technology and Innovation (SHOK).

Turku School of Economics

Our faculty published a record number of doctoral dissertations. Nine completed dissertations prove that doctoral training has become more efficient. The effects of internationalisation were visible in the contents of these dissertations. For example, they discussed the effects of the European Union on national fiscal sovereignty, and studied international investment agreements. Our research also touches on topical issues within society, such as doping and the right to take collective action.

Faculty of Law

DEANS ON

RESEARCH

HIGH RANKINGS

The University of Turku achieved excellent scores in two of the world's three top university rankings. In the QS Ranking, the university finished 211th, and on the Shanghai list it was ranked between 300 and 400. Only the Times Higher Education ranking did not include Turku in the top 400 among the 10,000 universities included.

In the areas of Education, Medicine, Pharmacy, Pharmacology and Philosophy, the QS Ranking ranked Turku between 101 and 150. In addition to academic reputation and number of quotations, this ranking measures major employers' assessments of the university, its internationality and the staff to student ratio, for example.

For instance, the Shanghai list (the Academic Ranking of World Universities (ARWU)) uses the number of Nobel Prize winners, the number of highly cited researchers and the number of articles published in the Science and the Nature journals as indicators.

The university generated a number of impressive research results. Together with researchers from Aalto University, we found evidence that changes in brain activity are connected to obesity. Research conducted in cooperation with the University of California suggested that when a person awakes from anaesthesia, the primitive parts of the brain are activated first. Alongside other American researchers, we discovered that weight gain and metabolic changes during pregnancy significantly alter intestinal microbiota. Cooperation with US-based cancer researchers led to the discovery that changes increasing the risk of cancer may already begin in the womb. Working alongside American, Australian and British colleagues, our researchers discovered that people who become permanently overweight in childhood are five times more likely to develop mid-life diabetes – unless their weight is restored to normal after adolescence, which fully prevents the increased risk.

Faculty of Medicine

The most memorable achievements of the year include several publications whose quality is high, even by international standards. For example, the Science Magazine, which discusses the chemistry of natural substances, published a study which demonstrated the rapid effect of insect herbivores on the evolution of plant populations. Meanwhile, the Nature journal published a study on the formation of binary stars of extreme lateral dimensions.

Faculty of Mathematics and Natural Sciences

Research accomplishments played a larger role in recruitment, with the emphasis of several open positions being shifted to research. We participated in the preparation of two national education programmes, which will be organised by education networks. A total of 13 doctoral degrees were completed in the faculty – a record.

Faculty of Education

It seems arbitrary to name only a few examples from so many high-quality accomplishments. But while on the subject, the excellent QS Ranking of Philosophy comes to mind. The QS Ranking now numbers among the most sought-after of the current ranking systems. In the field of Psychology, the University of Turku is conducting research which you might be surprised to see in a faculty bearing this name. For example Antti Revonsuo and Harry Scheinin have researched the re-emergence to consciousness when awakening from anaesthesia.

Faculty of Social Sciences

The number of doctoral degrees climbed from 16 in 2011 to 27 in 2012. Research funding is also rising sharply. External funding accounted for 22 per cent of the faculty's income. There were a total of 125 research projects.

Faculty of Humanities

Interaction connects us to the society

THE NEW RECTOR SET HIGH GOALS FOR SOCIETAL INTERACTION, REMARKING IN HIS OPENING SPEECH THAT, IN THE FUTURE, UNIVERSITIES WILL HAVE AN ETHICAL RESPONSIBILITY TO FOCUS THEIR RESEARCH MORE ON SOLVING THE MAJOR PROBLEMS FACING OUR PLANET. SMALLER STEPS TAKEN IN TERMS OF SOCIETAL INTERACTION WILL ALSO TAKE US TOWARDS THIS GOAL.



FROM SCIENCE TO BUSINESS

In 2012, the university reported 24 new innovations and applied for five patents. The university has already been granted 28 patents, and has 35 valid applications. Two research-based start-ups have also been launched.

Doctor of Philosophy **Anne Marjamäki** became the university's Business Development Manager. Her activities are based on the work of Innovation Managers of the university, Åbo Akademi University, the Foundation for Finnish Inventions and the National Board of Patents and Registration of Finland.

Tekes, the Finnish Funding Agency for Technology and Innovation, provided funding worth a total of 1.9 million for three "From Science to Business" applications. Funding was granted for a project involving the development of individual services in mental health care, led by **Maritta Välimäki**, and for **Tuomas Valtonen's** project "Whispers-af-detect" aimed at recognising atrial fibrillation, and finally for **Matti Poutanen's** project on the diagnostics of endometriosis.

The university aims to be obtaining up to ten per cent of its external funding from education exports within five years. This goal was already vigorously pursued in 2012, with final touches being applied to the following: the KiVa School antibullying programme, Training for Teacher Trainers, Dental Biomaterials education, the mental health sector education system, ICT-based language teaching, futures research, food safety and quality controls, international master's degree programmes and the eMBA programme.

THE UNIVERSITY OPENS ITS DOORS

The university is closely integrated with its surrounding community. Children's University science camps were organised for the fifth year in a row; this year's novelty was a day camp where they could build their own robots. Science lectures and a tour of the university's Zoological Museum were provided for children who have only just begun to attend school.

Over a thousand children and adults were introduced to the campus, by participating in guided walking tours. The themes of the guided tours, already organised for the fifth year, were the Academic Walk, the old marketplaces of Turku, and Agricola and the three witty men.

MASTERS FIND EMPLOYMENT



CALL FOR FASTER TRANSITION TO WORKING LIFE

The university has taken several steps to ease its graduates' transfer into working life.

Mentoring is a process whereby someone who is already working helps a prospective graduate to develop his or her professional identity and make the transition into working life. The 2012 mentoring programme was already the ninth of its kind, with 39 participating pairs. The mentors

and actors met 5 to 8 times during the mentoring period, which ran from February to November. They also participated in three seminars.

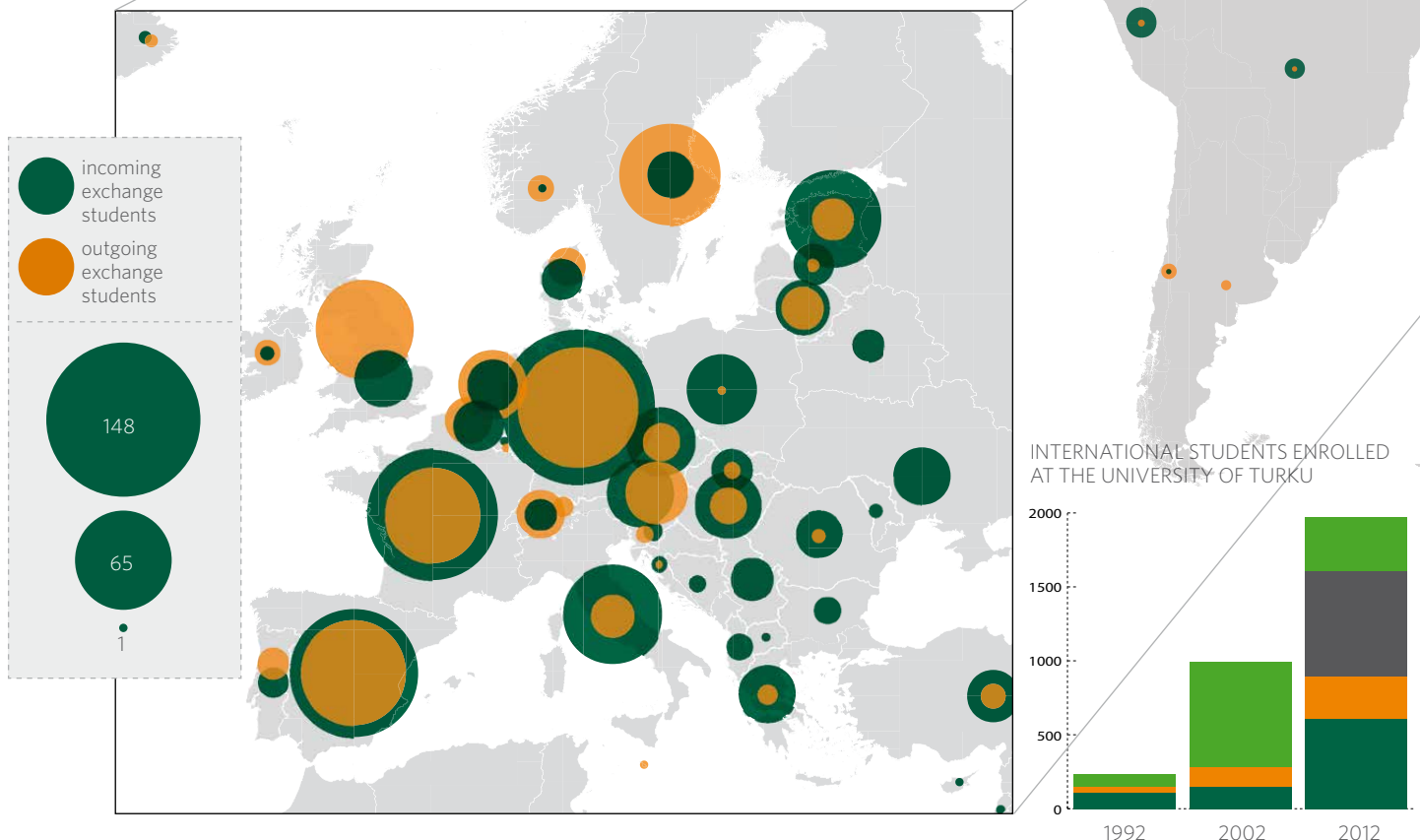
In addition to mentoring, several other projects promoting employment were held at the university: Project Ace training, and the Lähde työelämään, Hake, OpinOvi, Get a life and Koukku projects. For example, as part of the Project Ace project, students are

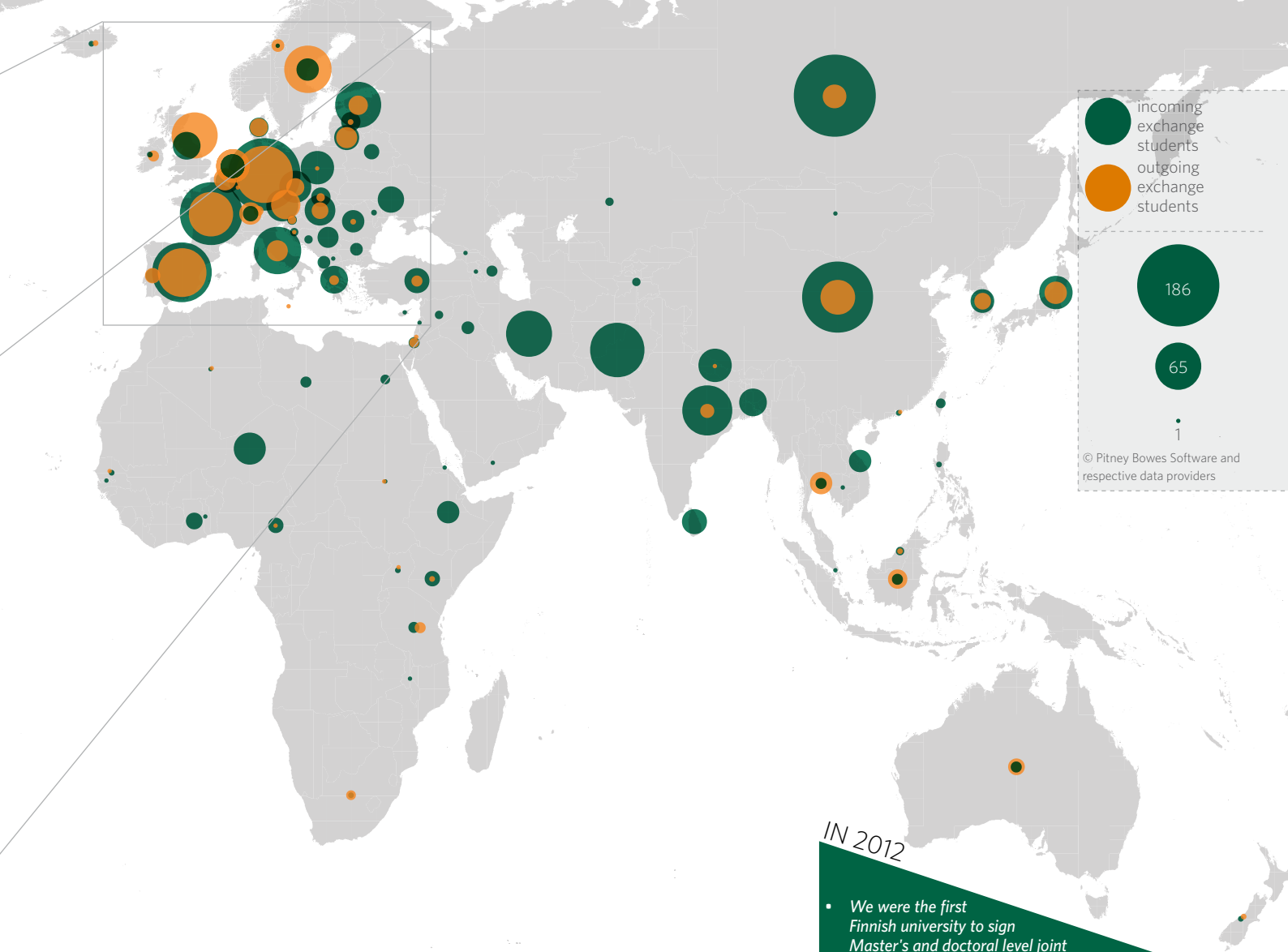
assigned work by actual businesses. The purpose is to enhance the vitality of the entire Southwest Finland. The first training period ended in spring 2012 and a new one began in the autumn. The second training period also attracted foreign students.

Working life was also experienced by the 332 students selected for an official traineeship.

Every day is international

THE FOCAL POINT OF INTERNATIONAL EDUCATION AND SERVICES IS THE UNIVERSITY'S 16 ENGLISH-SPEAKING MASTER'S DEGREE PROGRAMMES. INTERNATIONAL RESEARCH COOPERATION, PARTICIPATION IN INTERNATIONAL ACADEMIC NETWORKS AND UNIVERSITY VISITS, EDUCATION EXPORT AND RESEARCH WIDELY PUBLISHED IN INTERNATIONAL FORUMS FORM PART OF THE UNIVERSITY'S EVERYDAY LIFE.





- Other
- Exchange students*
- Postgraduate students
- Undergraduate degree students

*included in Others prior to 2012

EXCHANGE STUDENTS' FAVOURITES

Discipline the student was primarily accepted to study

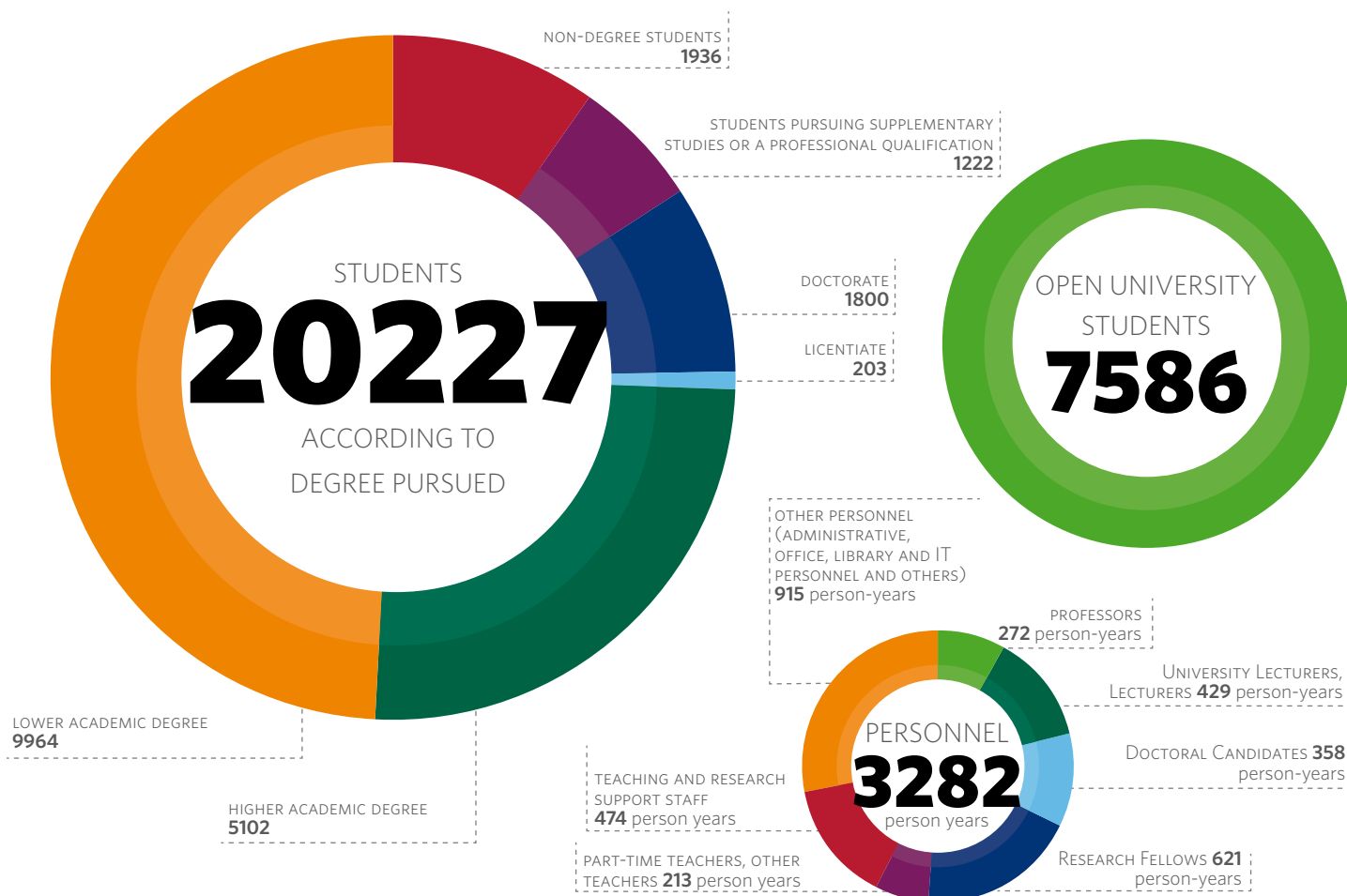
1. Finnish Language and Culture for foreigners
2. Business Sciences, International Business
3. Turku Law School
4. Baltic Sea Region Studies
5. Education

IN 2012

- We were the first Finnish university to sign Master's and doctoral level joint degree agreements with Fudan University, a Chinese top university.
- We funded the arrival of students from Russian partner universities to Turku, through the Triple I project.
- Our research and education were presented at the SciTech 2012 event in Brussels.
- Research cooperation with foreign universities grew stronger, and the number of researcher exchanges increased.
- Our doctoral programmes admitted more foreign students than before.
 - Internationality was increasingly visible in research topics.

The community on our campuses

DISCUSSION WAS A MAJOR GOAL ON THE TURKU, PORI, RAUMA AND SALO CAMPUSES IN 2012. MEANS OF ACHIEVING THIS GOAL INCLUDED THE KOHTAUSPAIKKA ("MEETING PLACE") DISCUSSION SERIES. INTERACTION BETWEEN THE UNIVERSITY AND THE SOCIETY HAS ALSO BECOME MORE COMMON.





DEANS ON

SOCIAL INFLUENCE

We offer an extensive supplementary training programme for lawyers. Our personnel work in expert positions in both Finland and abroad.

Faculty of Law

Social interaction is a vital, integrated part of our operations. The university organised a series of seminars for interest groups, targeted at the management of businesses and public organisations. Speakers included Minister Heidi Hautala and Director Anne Brunila. In these seminars, researchers and business management engaged in a dialogue sparked by some of the leading experts in the country. In the Alumni Keynote Forum, alumni at the top of the business world transfer their management expertise to students.

Turku School of Economics

Our projects and research topics are socially interesting and important, such as the Network for Research on Multiculturalism, games and popular culture research, the EU-funded Language learning and social media network and new research initiatives in the field of phonetics. We are an active participant in the Aboagora event organised by the Turku Music Festival, Åbo Akademi University and the University of Turku.

Faculty of Humanities

The media paid positive attention to familiar faces popularising science, and the faculty actively participated in preparations for the popular Children's University tours and science camps.

Faculty of Mathematics and Natural Sciences

A number of our professors took part in the preparation of the national Current Care Guidelines and treatment paths for common illnesses. They also organised regional supplementary training events. We also signed an agreement on the establishment of a biobank in Western Finland, together with the Hospital Districts of Southwest Finland and Satakunta. Through our stakeholder pool, we have involved professors from the public health care, sectoral research institutes and the pharmaceutical industry in our teaching and research activities.

Faculty of Medicine

The Centre for Parliamentary Studies attracts frequent media coverage, as a commentator on and explainer of politics and the media. The success story of the KiVa School anti-bullying programme continues in Finland. The programme has also aroused major international interest.

Faculty of Social Sciences

Our comprehensive school project was realised and our cooperation intensified with the City of Rauma. Teacher training schools were an important part of the Finnish National Board of Education's curriculum reform. A working group appointed to prepare education exports began its work. Dutch and Belgian television prepared programmes on education within the faculty.

Faculty of Education

SUPPORT FROM TUTORS

New students are assigned both a student and teacher-tutor to support them. In 2012, we followed established procedures, but tutoring activities will be renewed in 2013.

Teacher tutoring began in 2006, inspired by the requirement to have every student prepare a personal study plan. The tasks of the teacher-tutor vary between faculties, but the overall goal remains the same: supporting the student's education.

Student-tutors mainly offer their support at the beginning of a new student's university studies. Each discipline has its own tutors, one for ten new students. Tutoring takes place in groups, whose essential function is to help students integrate into the community, particularly if they have recently moved to Turku.

Independent Units complement

THE UNIVERSITY'S 12 INDEPENDENT UNITS COMPLEMENT THE TEACHING AND RESEARCH CONDUCTED BY THE FACULTIES. THEIR OPERATIONS ARE CHARACTERISED BY THEMES SUCH AS A MULTIDISCIPLINARY APPROACH, THE CREATION OF NEW RESEARCH ENVIRONMENTS, NATIONAL AND INTERNATIONAL RESEARCH COOPERATION, REGIONAL INFLUENCE AND WORK WITH AND FOR THE BENEFIT OF THE SURROUNDING SOCIETY.

2012 WAS AN IMPORTANT YEAR FOR US BECAUSE...

FUNCTIONAL FOODS FORUM, FFF

... we celebrated our tenth year in operation by organising an internationally significant science conference and a jubilee seminar of the Scientific Advisory Board. We were also one of the organisers of the New Potato Festival in Turku. We also gained scientific news coverage abroad thanks to several important international publications.

Seppo Salminen, Director

BUSINESS AND INNOVATION DEVELOPMENT, BID

... our operations grew significantly, particularly in the area of technology projects. The first University of Turku students graduated from the PhD+MBA programme and KTH. European Institute of Technology launched its innovation and entrepreneurship training. Teaching, research and business development cooperation with the faculties markedly increased.

Antti Paasio, Director

LANGUAGE CENTRE

... we introduced our first article language checking service, for articles written in English, and continued our cooperation with the graduate school. In the autumn, we started offering a new support course for prospective graduates, in order to help them pass the obligatory Swedish communication tests. This helped a number of students to graduate faster. We also established a research group to prepare articles for the Language Centre's electronic publication.

Michael Nelson, Director

BRAHEA CENTRE FOR TRAINING AND DEVELOPMENT

... Brahea's expertise was used more extensively than ever before. We supported the higher education reform and the vitality of the food industry, through a range of projects. A survey funded by the Regional Council of Southwest Finland laid the groundwork for extending educational exports. Financiers and partners committed to us, because we were able to create and maintain extensive networks of scientific and professional expertise.

Kari Seppälä, Director

TURKU PET CENTRE

... our research activities entered a new stage when we acquired a PET/MRI scanner which combines these two imaging techniques. Only few such devices exist in the world. This new technique makes it possible to conduct new kinds of studies, significantly contributing to cancer, brain and heart research. The imaging method is also likely to result in better treatment for patients.

Juhani Knuuti, Director

FINLAND FUTURES RESEARCH CENTRE

.... the Centre was founded exactly 20 years ago. The core of our operations remains the same: research, education, training and development in dialogue with the surrounding society. We took our operations into new directions by making the education offered by Finland Futures Academy available to Open University students, expanding international energy research into the Caribbean, and by applying game and simulation applications into career planning for young people.

Juha Kaskinen, Director

RESEARCH UNIT FOR THE SOCIOLOGY OF EDUCATION, RUSE

... together with the Universities of Uppsala, Copenhagen and Oslo, we acquired NordForsk funding for a three-year Nordic Fields of Higher Education research programme. The ReadIT innovation, developed by our RoSA laboratory, differentiates learning materials for students. This innovation has entered the testing phase. In terms of assessing research and university education, we built closer cooperation with the Ministry of Education and Culture. The study on the equality of educational opportunities was continued as an Academy of Finland project. The social exclusion of young people remains the focus of the ESF-funded NOTKE project.

Osmo Kivinen, Director

FINNISH CENTRE FOR ASTRONOMY WITH ESO

.... The European Southern Observatory (ESO) decided to start building the European Extremely Large Telescope (E-ELT), the largest optical telescope in the world. With a diameter of nearly 40 metres, its primary mirror will gather 15 times more light than existing telescopes, the largest of which measures 10 metres. After its completion in a decade's time, it will open up a new era of astronomy. The Finnish Centre for Astronomy with ESO contributed to designing this giant and is assisting Finnish industry's participation in its construction.

Jari Kotilainen, Director

TURKU CENTRE FOR BIOTECHNOLOGY, BTK

... we surpassed the research objectives we had set for ourselves. Scientifically important discoveries made by our researchers were reported in the leading publication series in the field. The Centre of Excellence in Molecular Systems Immunology and Physiology began its operations. Our FiDiPro professor started work, developing biomarkers for diabetes and cancer diagnostics and their mechanisms, using proteomics and genomics. Funding granted by Biocenter Finland allowed us to acquire new equipment, develop new methods and hire competent personnel. We also set up a scientific advisory board.

Riitta Lahesmaa, Director

CENTRE FOR MARITIME STUDIES, MKK

... future changes in the maritime sector were reflected in MKK's operations. In 2012, we worked on matters such as the environmental regulations applying to maritime transports, for example by analysing the costs and benefits of the Sulphur Directive. The Ministry of Transport began the preparation of a new maritime transport strategy for Finland. MKK participates in the process within its areas of strength.

Eija Velin, Director

TURKU CENTRE FOR COMPUTER SCIENCE, TUCS

... we renewed our research strategy and launched the TUCS Distinguished Lecture series. These actions have increased our research activity and allowed us to gain greater visibility on both local and international level.

Johan Lilius, Director

CENTRE FOR ENVIRONMENTAL RESEARCH, TYYK

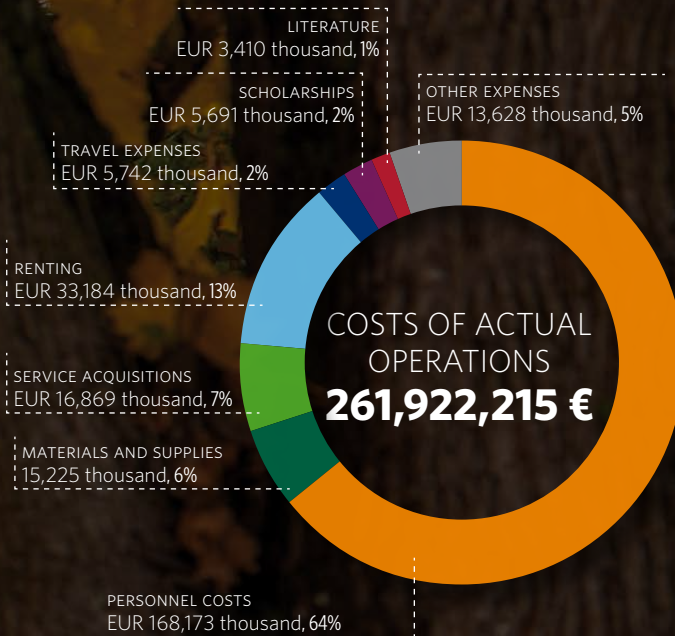
... The Kevo Subarctic Research Institute participated in the International Network for Terrestrial Research and Monitoring in the Arctic project, deemed highly successful by the European Commission. Our expertise gained international visibility when Nils Torvalds, Vice-Chair of the European Parliament's Committee on Fisheries, spent two days in the Archipelago Research Institute in Seili, where we briefed him on matters concerning the Baltic Sea. The Aerobiology Unit prepared an extensive report on the differences between outdoor allergens and pollen concentrations, and the textbook-type Allergenic pollen publication.

Ilpo Vuorinen, Director

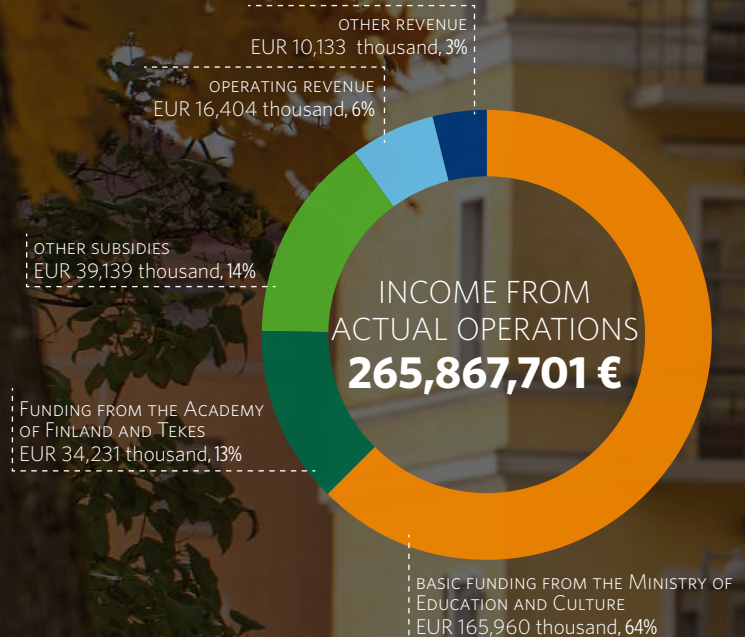
Sustained by finances and the campus

FINANCIALLY, THE UNIVERSITY HAD A GOOD YEAR, WHICH EVEN EXCEEDED EXPECTATIONS. CONDUCTED ALONGSIDE ACTUAL OPERATIONS, INVESTMENT ACTIVITIES WERE SUCCESSFUL. THE FRUITS OF THE PREVIOUS YEAR'S MAJOR FUNDRAISING CAMPAIGN WERE VISIBLE IN PROFITS, AS INCREASED RETURNS ON INVESTMENTS.

COSTS OF ACTUAL OPERATIONS 261,922,215 €



INCOME FROM ACTUAL OPERATIONS 265,867,701 €



FUNDRAISING AND INVESTMENT, NET INCOME

5,634,688 €



The background of the page is a photograph of autumn foliage, with yellow and orange leaves on tree branches. In the background, a yellow building is visible. The text is overlaid on a white, angular shape that resembles a speech bubble or a stylized building.

EUROS FREED UP FROM BRICKS AND MORTAR

Redirecting euros from buildings into operational activities, and the reorganisation of premises, made 2012 a busy year in terms of removals. The migration was begun in the summer with the relocation of operations from the Luonnontieteiden talo II and Juslenia buildings.

The single largest relocation of people – 170 employees – made room for the renovation of the Luonnontieteiden talo II building, with temporary premises arranged in Quantum, PharmaCity and Publicum. This renovation was scheduled to begin in the autumn but was postponed until 2013.

The emptying of Juslenia launched a chain reaction of moves.

According to the owner of the premises, University properties of

Finland Ltd., the building was not worth renovating. It proposed that the building be demolished and replaced with a new one.

Juslenia was emptied and most of the disciplines affected and the library moved into the Fennicum building. Autumn brings a sudden change. The Faculty of Humanities announced that it could fit into smaller premises than expected, and had no wish for space in the new Juslenia. As a result, the construction project was cancelled.

The units which had been operating in Fennicum were transferred to the Sirkkala campus and the Signum and Rosetta buildings.

Due to the Juslenia plans, newspapers, ephemera and maps were moved from the Main Library's storage into distant storage in the town of Raisio. The libraries in Juslenia and Fennicum were temporarily moved to other locations on campus.

These major moves were complemented by those of single units.

The reduction of rental expenses forms part of the property programme, launched in August. Its goal is to cut the area rented by the university by 10–15 per cent by the end of 2014. If units generate rental savings by reducing the space they use, they can spend these savings directly on their own operations.

The university has a large, undivided campus in central Turku. Enriched by buildings from various eras, this campus is unparalleled in Europe. It consists of three seamlessly integrated areas: the University Hill, the Garrison Area and the Kupittaa Campus. The university also has locations in the towns of Rauma, Pori and Salo.

★ Highlights of the year 2012

AT THE UNIVERSITY OF TURKU, THE YEAR 2012 WAS CHARACTERISED BY DISCOVERIES, SUCCESS, RECOGNITION AND EXPERIENCES.

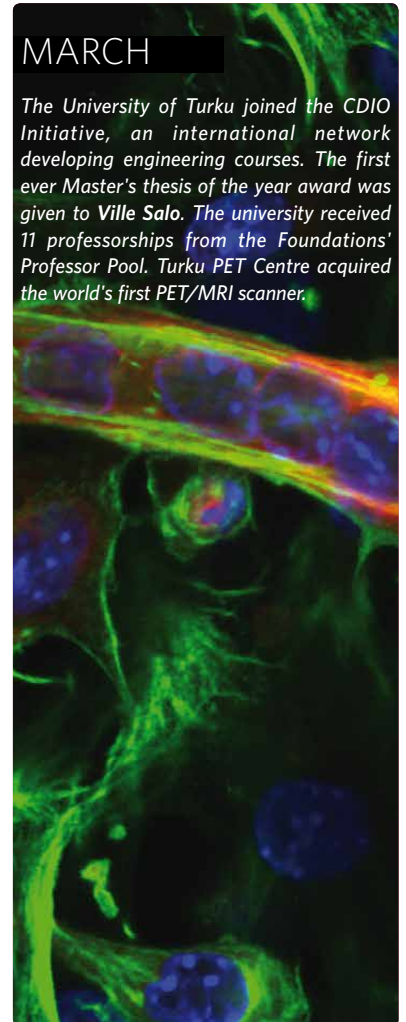
JANUARY

A Centre of Statistics was founded at the University. The Center of Evolutionary Applications confirmed the discovery of a new species in the Archipelago Sea, Conrad's false mussel (*Mytilopsis leucophaeata*).



MARCH

The University of Turku joined the CDIO Initiative, an international network developing engineering courses. The first ever Master's thesis of the year award was given to Ville Salo. The university received 11 professorships from the Foundations' Professor Pool. Turku PET Centre acquired the world's first PET/MRI scanner.



FEBRUARY

In his Anniversary Celebration, Rector Keijo Virtanen predicted that the University of Turku will face a new reality of tighter basic funding and the need to find alternative sources of revenue. The University Board accepted the university's strategy for 2013-2016. The strategy's focal points are education, research, internationality and social influence. Riitta Monto was recognised as the alumni of the year.



APRIL

KiVa School was exported to the Netherlands, Wales and the United States. Neuroscientists observed that the initial confusion experienced when awakening from anaesthesia is possibly caused by the fact that the primitive part of the brain becomes active before the cerebral cortex.

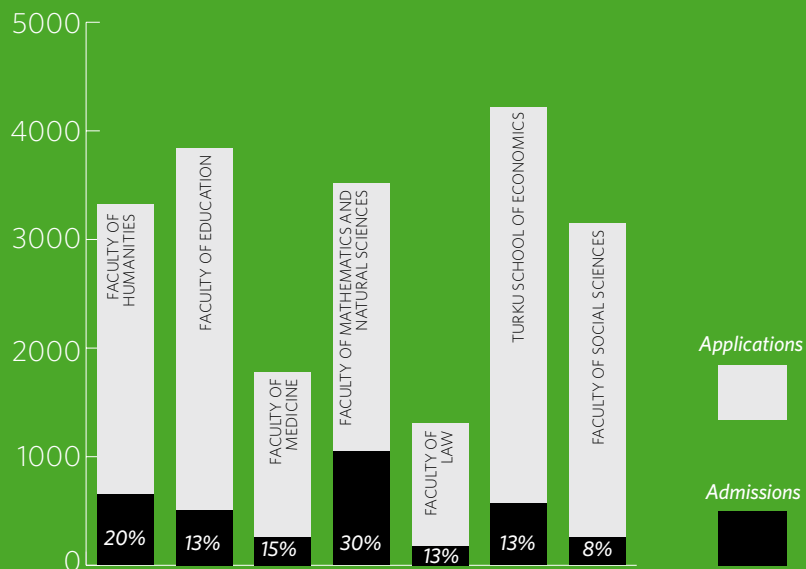
MAY

After a 50-year break, Turku School of Economics held its first Master's degree ceremony, conferring 147 master's degrees. **Stina Syrjänen**, Professor of Oral Pathology and Oral Radiology, was awarded an Honorary Fellowship by the Royal College of Surgery in Edinburgh. The university launched its new intranet and declared the campus smoke-free.



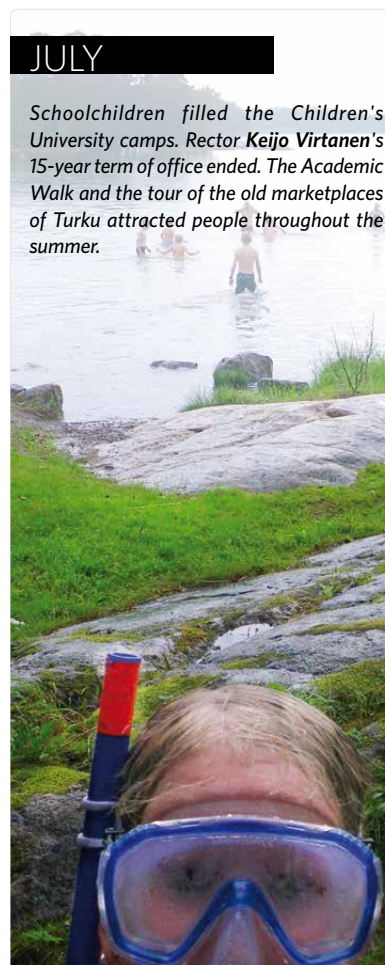
JUNE

The University of Turku received applications from 18,086 prospective students and admitted 18.5 per cent of them, a total of 3,339 persons. The largest number of applications per study place was received by Special Education (49 applications/study place), Education (48), Psychology (43), Adult Education (30), Social Work (29), Class Teacher Education in Turku (25) and Rauma (23), Biology (23), Logopedics (22), Archaeology (21) and Art History (20).



JULY

Schoolchildren filled the Children's University camps. Rector **Keijo Virtanen's** 15-year term of office ended. The Academic Walk and the tour of the old marketplaces of Turku attracted people throughout the summer.



AUGUST

Kalervo Väänänen, Rector, and Riitta Pyykkö, Kalle-Antti Suominen and Tapio Reponen, Vice Rectors, began their terms of office. Biosciences and Environmental Science finished in the top 200 of the QS Ranking. The Teacher Training School in Rauma admitted its first seventh-grade students. The intake will gradually be expanded to cover all grades up to the ninth grade. A month of conferences brought Nordic immigration researchers, top immunology researchers, the Psykologia 2012 congress, KiVA Days and the Annual BioCity Symposium to Turku.

SEPTEMBER

The university launched the Kokoonumispaikka ("meeting place") events, where everyone can meet the university management. The University Board made the decision to dissolve the department councils and set up committees and planning groups in order to ensure that employees and students have the opportunity to be heard. Docent Ilari E. Sääksjärvi was recognised as Scientist of the Year. Olli Pyyhtinen, Senior Lecturer in Sociology, was given the Teacher of the Year award. The University of Turku fared well in top university rankings. The university's scientists participated in a research programme which concluded that mobile phone electromagnetic fields can affect the brain's metabolism and blood flow in the brain.



OCTOBER

*The university's introductory film, **The Campus That Never Sleeps**, was completed. Professor Eeva-Mari Aro became Honorary Doctor of Umeå University. The university was well represented at the Turku International Book Fair and the Turku Science Fair. The university vacated the Juslenia building. The jubilee seminar of the Pan-European Institute brought ministers from the Baltic Sea region to Turku. The university received substantial funding from the US, for research into the causes of autism. The earliest black scoter to be found in Europe was discovered in the collection of the Zoological Museum.*



NOVEMBER

Heikki Minn, fixed-term Professor of Oncology at the University of Turku, was awarded the Marie Curie Prize of the year. Docent Mari Sandell received the Academy of Finland award for social impact. The Children's Diabetes Foundation of Sweden awarded Professor Olli Simell for the most important Nordic study on children's diabetes. The university launched a project with the aim of improving the position of researchers and the attractiveness of research careers. The discipline of Scandinavian Languages and three other universities received 3.8 million euros in funding for researching the differences between Swedish spoken in Finland and in Sweden.

photo: Academy of Finland / Pekka Kiirala

DECEMBER

The Student Union of the University of Turku celebrated its 90 anniversary. A group of astronomers led by Mikko Tuomi, a postgraduate student at the University of Turku, discovered an Earth-like planet.

THE RECTORATE ESTABLISHED IN THE AUTUMN 2012

- DMedSc **Kalervo Väänänen**, Rector
- PhD **Riitta Pyykkö**, Vice Rector, responsible for education and the development of educational structure
- PhD **Kalle-Antti Suominen**, Vice Rector, responsible for research and the development of research prerequisites
- DSc (Econ & BusAdm) **Tapio Reponen**, Vice Rector, responsible for the development of the society connections, internationality and education exports.

NEW PROFESSORS WHO BEGAN WORKING AT THE UNIVERSITY OF TURKU IN 2012

INDEFINITE PERIOD

- PhD **Angela Bartens**, Spanish Studies
- PhD **Mervi Eerola**, Statistics
- PhD **Jani Erola**, Sociology
- PhD (Psychology) **Jukka Hyönä**, Psychology
- PhD **Veijo Jormalainen**, Aquatic Ecology
- DMedSc **Hasse Karlsson**, Integrative Neuroscience and Psychiatry
- S.J.D., LicPhil **Outi Korhonen**, International Law
- PhD **Pasi Koski**, Physical Education
- DSc (Econ & BusAdm) **Kaisa Kotakorpi**, Economics
- DMedSc **Pekka Mäntyselkä**, General Practice
- PhD **Jaakko Nevalainen**, Statistics
- PhD **Outi Paloposki**, English Philology
- PhD **Petriina Paturi**, Experimental Solid State Physics
- PhD (Psychology) **Antti Revonsuo**, Psychology
- DMedSc **Juha Rinne**, Neurotransmission
- PhD (Psychology) **Hannele Räihä**, Psychology
- PhD **Tapio Salakoski**, Computer Science
- PhD **Hannu Salmi**, Cultural History
- PhD **Maija Setälä**, Political Science
- SocScD **Heikki Silvennoinen**, Education
- LLD **Jussi Tapani**, Criminal Law
- DSc (Econ & BusAdm), DSc (Technology) **Juuso Töyli**, Business Sciences and Logistics

FIVE-YEAR PERIOD

- DMedSc **Maaret Castrén**, Emergency Medicine
- DMedSc **Risto Kaaja**, Internal Medicine
- DMedSc **Juhani Koistinen**, Internal Medicine
- DMedSc **Sari Mäkelä**, Biomedicine
- PhD **Valtteri Niemi**, Mathematics
- PhD **Helena Ruotsala**, European Ethnology
- PhD **Tero Soukka**, Biotechnology

Some Professors have also been employed for a period of less than five years.

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