



*Network for universities and enterprises
cooperation (NEUC)*

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Activity 1.3. Training work of Russian universities IAC staff at the EU universities

9 staffs from the Russian university IACs have had a language training (8 weeks) and training work at the EU universities (2 weeks)

Savonia University of Applied Science

13/02/2007 – 23/02/2007

Participants

1) **Astrkhan State University, Astrakhan**

Anzhelika Vetrova - associate professor of the department of information systems

Zelepukhina Victoria - leading programmer

2) **Volgograd State University, Volgograd**

Nadezda Khalatnikova - teacher

3) **Ufa State Academy of Economics and Service, Ufa**

Vazhdaev Konstantin - head of the international affairs

4) **Dagestan State University, Makhachkala**

Yavsu Shakhabutinov - head of the programming department of Infomation Processing Center

The schedule of meetings

Date time	Meeting	The lecturer	The contact data
13.02.07 9 ⁰⁰	Introduction to Microteknia Scinece Park	Ilkka Vartiainen, Devolpment Manager	Tel. 358 17 441 2029 Email: Ilkka.vartiainen@teknia.fi
13.02.07 12 ⁰⁰	Multimedia Laboratory	Hannu Karppinen	
13.02.07 14 ⁰⁰	Finnish-Russian Chamber of Commerce . contacts to South Russia	Rinat Islamov	
14.02.07 9 ⁰⁰	The thesis of students with companies	Mrs Maria Kangasniemi, teacher of Business	
14.02.07 13 ⁰⁰	Cooperation with local companies- export networking and Enterprise actions	Mr Jari-Pekka, teacher of business	Tel. 358 17 255 6905 Email: jari-pekka.jaaskelainen@savonia-amk.fi
15.02.07 10 ⁰⁰	Cooperation with companies in IT	Mr Arto Toppinen, main teacher of IT	

15.02.07 13 ⁰⁰	Visit to it-company HONEYWELL		www.honeywell.com
16.02.07 10 ⁰⁰	Introduction to the supporting services for companies, North Savo regional Center	Mrs Aila Salminen, Regional Planner	Tel. 358 17 550 1400 Aila.salminen@pohjois.fi
19.02.07 10 ⁰⁰	Introduction to co-operation with companies in Iisalmi unit	Mr. Markku Vita, Development Manager	Tel. 358 17 255 6008 Email: markku.vita@savonia-amk.fi
19.02.07 13 ⁰⁰	Visit to company Genelec		www.genelec.com
20.02.07 9 ³⁰	Incubator actions	Raija Tengvall	
20.02.07 14 ⁰⁰	Presentation of Savonia	Veli-Matti Tolppi, President	Tel. 358 17 255 5001 Email: veli-matti.tolppi@savonia-amk.fi
21.02.07 8 ³⁰	Research work and companies	doctor Riitta Rissanen Savonia Business	
21.02.07 10 ⁰⁰	Health care projects	Mr. Pirkko Kouri PhD, PHN, RN, Principal Lecturer Healthcare Technology	Tel. 358 17 255 6404 Email: pirkko.kourii@savonia-amk.fi
21.02.07 13 ⁰⁰	Visit to Nanotechnology laboratory	Pasi Kivinen Project Manager, Pho	Tel. 358 44 785 5566 Email: pasi.kivinen@savonia-amk.fi
22.02.07 9 ⁰⁰	Projects in Engineering faculty	Ari Jaaskelainen Environmentalk	
22.02.07 10 ⁰⁰	Projects in Engineering faculty, machinery-85-6392	Raimo Hatinen,	
22.02.07 12 ⁰⁰	Projects in Engineering faculty, IT 85-6227	Osmo Miinalainen M.Sc., R & D Manager,	Tel. 358 17 255 6227 Email: osmo.miinalainen@savonia-amk.fi
22.02.07 13 ⁰⁰	City of Kuopio	Heikki Ryynanen, director of business and industry	
23.02.07 9 ⁰⁰	Round table		

Visit to leading Science Park in Finland

Visit to leading Science Park in Finland was very useful for us and very informative. Kuopio Science Park works on such big directions:

- international activity;
- technologies of healthcare;
- big projects for environment;
- Incubator actions.

We visited Technology Centre Teknia Ltd., which is one of the leading European centres of well-being research and innovation. Teknia is a junction between university and business world.

While stay at Kuopio there were different meetings with representatives of Savonia University of Applied Sciences and IT-companies, for instance HONEYWELL and Genelec in Iisalmi. We studied principles of cooperation between these companies and universities.

The program of our stay at Kuopio included not only meetings and training but cultural program too.

Tu, 13

Introduction to Microteknia Science Park - Ilkka Vartiainen

Contacts:

Ilkka Vartiainen

Development manager

ilkka.vartiainen@teknia.fi

tel. +358 17 441 2029

mobile +358 40 561 1801

fax +358 17 441 2011

The Microteknia Science Park is home to a unique combination of skills and expertise in the fields of health, nutrition, and the environmental sciences, reinforced by information technology. Over 10,000 people work or study in the area covered by the Science Park.

The Park houses the campus of the University of Kuopio, the University Hospital, Teknia, the Pohjois-Savo Polytechnic, the Neulanen Research Centre, the Kuopio Regional Office of the Geological Survey of Finland, and over 130 companies and enterprises.

Technology Centre Teknia Ltd was founded in 1986. It is an enterprise service organization, which provides professional high-quality services to technology enterprises. The operations are based on expert staff and a superb business environment. Together they generate a favourable environment for high-quality, innovative business activities.

Teknia is responsible for coordinating technology expertise in the Kuopio region. There are over 200 companies and organisations (over 2300 employees) working under the umbrella of Technology Centre. Many of these companies are commercially exploiting fundamental discoveries and innovations made in the research institutes in the Science Park.

The business concept of Teknia is based on a customer oriented approach, a readiness to be flexible, a strong grasp of entrepreneurship.

Business Activities:

- Real Estate Business
- The Centre of Expertise
- The Business Incubator and Enterprise Development Services

- Technology Transfer
- Internationalization Services
- Development Projects

Fields of Expertise:

- Health Care Technology
- Pharmaceutical Development
- Agrobiotechnology
- Information Technology
- Environmental Technology

The company's vision is to widen and enlarge the scope of technology enterprise activities in Kuopio and in that way to act as a locomotive for regional economic growth.

Over its 15-year life, Teknia has played a central role in helping new technology businesses come into the world and providing essential support to these young businesses as they grow and develop. The risks associated with fledgling technology enterprises are minimized through the use of a business incubator. As businesses develop, the focus shifts to identifying ways of facilitating expansion in a sustained manner.

Teknia is not only a cluster of programmers and researchers, it is also home to a number of internationally successful, leading-edge companies in the fields of drug development, biotechnology, and ICT.

Multimedia laboratory – Hannu Karppinen

There are 3 employees and 5 students in the laboratory. The Multimedia-laboratory is financed from means of Savonia University of Applied Sciences. The cost of laboratory is more than 200 000 euros.

Different projects, for example, multimedia-presentations, are carried out by students within the framework of course works. There are 5-6 large projects and many small projects per one year.

Among the projects it is possible to allocate creation of simulators of factories, medical simulators, for example, simulator named «virtual birth». II

Finnish-Russian Chamber of Commerce, contacts to South Russia

Contacts:

Pirjo Airaksinen

Office Managet

pirjo.airaksinen@kuopiochamber.fi

tel. +358 17 266 3803

mobile +358 50 313 2903

fax +358 17 282 3304

The Finnish-Russian Chamber of Commerce is a society which mission is assistance of business activity and competitiveness of the companies, and also to economic relations between the countries in Russia and Finland.

The registered association the Finnish-Russian Chamber of Commerce is created in 1946. It does not aspire to reception of the profit. The Mission is assistance of business activity and competitiveness of the companies, and also to economic relations between the countries in Russia and Finland. The purpose is to be the leader.

Finnish-Russian Chamber of Commerce carries out the mission by granting to the companies of various information and consulting services and training, and also services in development of their activity and encouragement of export. Values Finnish-Russian Chamber

of Commerce includes:

- the account of needs (requirements) of clients
- vocational training
- economic profitability

Finnish-Russian Chamber of Commerce renders services to all companies and all branches of activity. Companies - members have nevertheless advantage, in particular, receive discounts for services and production, and also other privileges in an information work and assistance of activity. Approximately half of users of services Finnish-Russian Chamber of Commerce concerns to group of the small and average companies. Second half are large enterprises with the capital over 840.000 euros. But 2/3 members Finnish-Russian Chamber of Commerce are small and average companies.

Finnish-Russian Chamber of Commerce represents interests of companies - members. The board and management Finnish-Russian Chamber of Commerce aspire in various working groups and projects to influence questions which brake development of trade between our countries.

Activity of Finnish-Russian Chamber of Commerce is financed from different sources. Own financing which includes also receipts from membership dues, makes over 80 %. The grant of the Ministry of Trade and the industry of Finland covers the staying of 20 %.

In Finnish-Russian Chamber of Commerce it is totaled (12/2006) 800 companies - members, among them about 700 Finnish and over 100 Russian members.

Wed, 14

The thesis of students with companies, Mrs. Maria Kangasniemi, teacher of Business

A Bachelor's Thesis equals t 15 ECTS credit. The aim of the thesis is to enable students to deepen their knowledge of the field in which they are specializing, find new approaches, learn problem solving skills, develop working methods, improve decision-making skills and oral and written communication skills as well as graphic communication. The purpose is to adopt an analytical approach to working methods, acquire an active interest in professional development and improve skills in analyzing work in terms of product development, technology, economy as well as individual well-being.

The thesis focuses on areas which respond to the local needs and require knowledge of scientific methods. This work is, as far as possible, integrated with work placement. The subject is mainly selected from the central sphere of the specialization field, and it can be agreed on with either the head of the degree program or the person responsible for the specialization field studies. The thesis is marked and assessed by at least two lecturers.

Cooperation with local companies – export networking and Enterprise actions of students – Mr Jari-Pekka Jaaskelainen, teacher of Business

Contacts:

Jari-Pekka Jaaskelainen

Project Manager

jari-pekka.jaaskelainen@savonia-amk.fi

mobile +358 44 785 6993

Within the framework of some projects the help to the small Finnish enterprises is conducted. In particular, the organization and support of contacts to other countries, especially with Russia, is very useful for development of business. For example, the translators who know Russian are necessary for translation information materials, for realization of negotiations for

development of tourist business in Finland and attraction of tourists from Russia.

Thu, 15

Cooperation with companies in IT, Mr Arto Toppinen, main teacher of IT

Cooperating with the IT-companies, the university helps not only to the companies, but also to students of the university. Working above projects, the student not only gets experience and receives monetary compensation from the company, but also makes to itself has touched on the future.

Visit to company HONEYWELL

Honeywell is a diversified technology and manufacturing leader of aerospace products and services; control technologies for buildings, homes and industry; automotive products; power generation systems; specialty chemicals; fibers; plastics and advanced materials. The company has business units in 95 countries and in 2004 its sales were 26 billion dollars.

Honeywell's quality products, integrated system solutions, and services make life safer, more comfortable, more secure, and more productive in every corner of our world. Honeywell products touch the lives of most people everyday, whether you are flying on a plane, driving a car, heating or cooling a home, furnishing an apartment, taking medication or playing a sport.

Honeywell's local business activities in Finland cover both the industrial and building automation and building maintenance services. In addition to the local activities, the Honeywell Center of Excellence for pulp, paper and printing industries is located in Finland.

In 2004, Honeywell's sales in Finland were 92 million euros and the number of employees was 495.

Fri, 16

Introduction to the supporting services for companies – Mrs Aila Salminen, North Savo regional Center

Contacts:

Aila Salminen

aila.salminen@pohjois-savo.fi

tel. +358 17 550 1400

fax +358 17 550 1428

The program of development of region Northern Savo is developed till 2030. The EU gives the most part of money for development of regions. Kuopio receives enough money to development from EU. For example, the Mikroteknia Science Park was created from strategy of development of region, construction of information society.

The given centre is the intermediary between universities and the companies for reception of money to development of idea. It enables students to develop the ideas, ideas of firm.

Last time the centre recommends the small companies to be united, because it is better for development of business of these companies. In the centre there is a database with the data of the enterprises of region. The centre organizes regular meetings of the given enterprises with a chamber of commerce.

There is a popular business, so-called content-business, when materials which are developed by teachers, are translated in an electronic format and sold. Now the centre tries to study the idea named «How to make business on culture». The centre supervises activity of small enterprises, which amount of money is limited.

Mo, 19

Departure to Iisalmi. Introduction to cooperation with companies in Iisalmi unit.

Contacts:

Markku Viita

Lic Pedagogics, Development Manager

markku.viita@savonia-amk.fi

tel. +358 17 255 6608

mobile +358 44 785 6608

In terms of Finnish towns, Iisalmi is quite an old town, over a hundred years old with a population of about 23,000 inhabitants. The town is the administrative, commercial and educational centre for a large mainland area and an important road and rail transport link in Central Finland. Situated between two lakes and surrounded by natural forest, the town gives an opportunity for a quality of life much appreciated by both those who live there and those who occasionally visit there.

The export industries in the area can be said to represent the Finnish industry in general, brewing, food processing, forestry, metal, textiles and high technology. Service industries are also well represented and the town has a good range of hotels, restaurants, department stores and specialised shops.

Visit to company Genelec

Contacts:

Olvitie 5, FIN-74100

Iisalmi, Finland

genelec@genelec.com

tel. +358 17 83 881

fax +358 17 812267

A Finnish company Genelec was founded in 1978. It has been dedicated to studio audio reproduction. Genelec has been the industry first to develop many of the key technologies in use today in studio monitor loudspeakers.

Genelec manufactures active studio monitor loudspeakers. Genelec's world leading position in this very specialised field of audio engineering is a result of an unequalled commitment to following the scientific acoustic design principles in all our research and development work.

Genelec is dedicated to studio audio reproduction. There is a growing number of applications especially in the surround sound reproduction, where the design principles and products of Genelec have proven to work excellently. Producing a wide range of monitors distributed in over 70 countries around the world, Genelec pursues their continuous research work to maintain their world leading position.

Tu, 20

Incubator actions - Pajja Tengvall, Teknia

Contacts:

Raija Tengvall

Development Manager

Business incubator services

raija.tengvall@teknia.fi

tel. +358 17 441 2005

mobile +358 40 7223 023

fax +358 17 441 2011

The business incubator of Science Park is for small and mid-size enterprises and its aim is to support and promote internationalization of SMEs.

The services of the business incubator are available to all small and mid-size enterprises irrespective of their field of business.

Services for enterprises:

1. Contact network which supports initiation of international activities in the project's sphere of activities.
2. Internationalization training, during which a personal internationalization strategy will be developed for every enterprise.
3. Partnering events in every sphere of activities: possibility to make contact with local enterprises and interest groups.
4. Internet website providing information about the different regions and which also functions as a tool for partnering.

Presentation of Savonia - Rector Veli-Matti Tolppi

Contacts:

Veli-Matti Tolppi

President

veli-matti.tolppi@savonia-amk.fi

tel. +358 17 255 5001

mobile +358 44 785 5001

fax +358 17 255 5014

Savonia University of Applied Sciences is one of the biggest institutions in Eastern Finland with approximately 5000 students. The Savonia is a multidisciplinary Institution of higher education, which offers approximately 30 Bachelor level degree programmes in seven different study fields. The other forms of operation include adult education, service activities and research and development activities. The Savonia is run by Savonia-ammattikorkeakoulun kuntayhtymä and it operates in three locations at Pohjois-Savo; Iisalmi, Kuopio and Varkaus.

Savonia University of Applied Sciences is an active innovator at the area of Pohjois-Savo. The central values of the operation are expertise, customer orientation and communality. A multidisciplinary Savonia can meet the challenges of a rapidly changing information society.

Savonia University of Applied Sciences is also an international institution of higher education. The international activities include student and teacher exchanges, common development projects, language and cross-cultural communication courses and international degree programmes. The Savonia has partner institutions in approximately 30 countries all over the world.

Wed, 21

Health care projects – Pirkko Kouri – virtual maternic clinic

Contacts:

Pirkko Kouri

PhD, PHN, RN, Principal Lecturer

Healthcare Technology
pirkko.kouri@savonia-amk.fi
tel. +358 17 255 6404
mobile +358 44 785 6404
fax +358 17 255 6422

Projects on public health services are very actual in Finland, as the gain of the young population in Kuopio becomes less. The elderly population prevails.

Some examples of projects on public health services:

- Use of the mobile phone for consultation with doctors.
- Projects on motherhood (for example, project named «virtual birth»).
- Maternity Clinic on the Internet

The Maternity Clinic produces maternity care services straight to families at home over the Internet.

Currently the maternity- and baby clinic services are scattered in different places and it is difficult to meet the special needs that families have. In the new clinic, families are provided with expertise from different specialists. Self-care and motivation are emphasized in this function. The Maternity Clinic operates, over the Internet, as a supplement to the maternity services that are presently available.

The project is coordinated together with many public organizations and co-operators.

Families are the primary target group of the Maternity Clinic, but it also produces information and practical know-how for the use of schools and maternity care professionals.

Maternity Clinic is a part of a larger extensive development project called Beginning Life. Through Beginning Life, other data systems within the health care system are available on the Maternity Clinic. Consequently, a client of the Maternity Clinic has the opportunity to ask a doctor for her laboratory test results or other information about her health to be delivered straight to her home.

Visit to nanotechnology laboratory

Contacts:

Microsensor Laboratory
Project Manager Mikko Laasanen
Tel: +358-(0)44-785 5591
Email: mikko.laasanen@savonia-amk.fi

Projects, especially soft lithography
Project Manager Pasi Kivinen
Tel: +358-(0)44-785 5566
Email: pasi.kivinen@savonia-amk.fi

The Micro and nanotechnology laboratory serves product development, training and research in this field. The laboratory applies and develops primarily soft lithography techniques which include such as micro contact printing, replica molding, micro transfer molding and micro molding in capillaries as well as embossing and injection printing.

The laboratory's main activities are concentrated on optics, manufacturing of prototype optical components, acoustics, micromechanical sensors and devices, wireless transmission, RF-sensors, ionizing radiation as well as semiconductor sensors and modelling. The aim is to create a world-class environment which will ensure the existence of top-class laboratory services in sensor technology and continuous development in Kuopio.

Development of automation in the different fields of industry and medicine has increased sensor technology related research and development activities. Most of the modern sensors are based on micro and nanotechnology. Easiness of transportation, mechanical durability and small power consumption are the main benefits of microsystems.

Microsensorlaboratory of Savonia University of Applied Sciences offers research, development and testing facilities for the use of local companies and communities working in the field of modern sensor technology. Our equipment include for example:

Atomic force microscope: for the imaging of sample surface with atomic level resolution, nanomanipulation, lithography and indentation options, conductivity measurements, liquid cell for biological samples Reactive Ion Etching (RIE): for the dry etching of sensor materials Exposure lamps and mask aligner system: for example for the exposure of ultraviolet light sensitive materials Electron beam gun evaporator: for the coating of materials Particle free working environment and appropriate testing instruments (a line for the clean space working and a class II safe cabinet).

Our facilities can be used for the machining of silicon and other common sensor materials. Examples can be found from the fabrication of microweighing systems and infrared sensitive sensors. Our laboratory is developing also soft lithographic techniques, which can be used for the fabrication of micro channels or conductive structures etc. Base material can be almost any polymer; the most common substrate material is biocompatible polydimethylsiloxane (PDMS). Softlithographic applications can be found in pacemakers, implants and many stimulating/registering sensors.

Thu, 22

Projects in Engineering Faculty – Environmental projects

Contacts:

Osmo Miinalainen

M.Sc., R&D Managet

osmo.miinalainen@savonia-amk.fi

tel. +358 17 255 6227

mobile +358 44 785 6227

fax +358 17 255 6393

There is a set of projects on engineering faculty of the University of Applied Sciences. It includes environmental projects. Students of the university participate in each project. In some laboratories under the given projects there are various devices and installations for modelling and studying of interesting phenomena. On a web-server of the university there is a site created by students on which it is possible to find out the current weather in the city of Kuopio. The necessary equipment was created and placed on a roof of Kuopio Science Park for the given project. Using the site it is possible to define how such weather parameters are felt as the person.

City of Kuopio – director of business and industry affairs – Heikki Ryynanen

There are 600 000 persons in Kuopio region. The population in region is increased on 500 persons per year. Unemployment of region is about 11%. However, appeal of region grows and many companies want to start to build the business in Kuopio.

Kuopio is known as a strong center of health (e.g., it has the biggest yearly enrollment rate of medical students in Finland), environment, food & nutrition, and welfare professions, as the major organisations University of Kuopio, Savonia University of Applied Sciences and

Technology Centre Teknia are particularly oriented to those areas.

There are about 3 800 enterprises in Kuopio, of which circa 150 are export companies. These provide nearly 40 000 jobs.

The department assists in opening firm in territory of Kuopio, in consultation and financing (200 000 euros).