



UPPSALA
UNIVERSITET

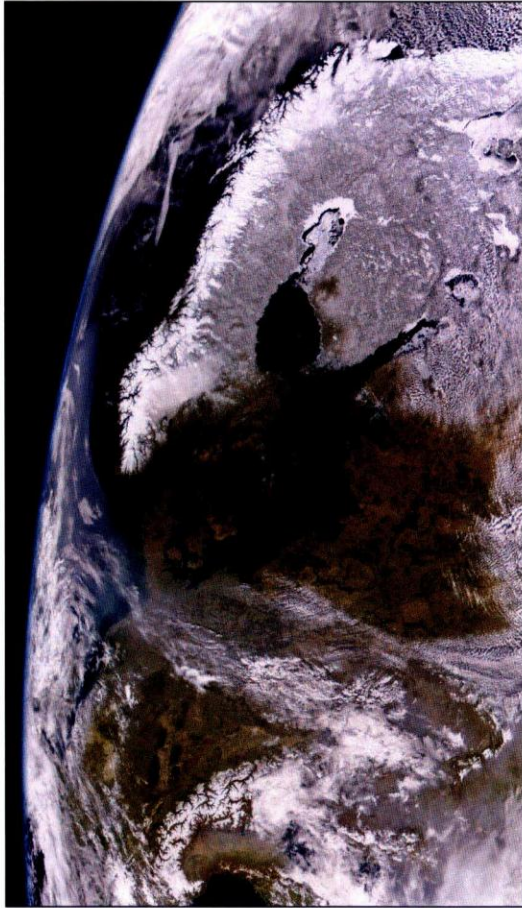
ANNUAL REPORT 2016

The Baltic University Programme



CSD Uppsala.

Uppsala Centre for Sustainable Development



Baltic University Programme
Uppsala Centre for Sustainable Development
Uppsala University, Villavägen 16, SE-752 36 Uppsala, Sweden
Phone: +46-18-471 18 40
E-mail: magnus.lehman@csduppsala.uu.se
Web page: www.balticuniv.uu.se

Production: Baltic University Press,
Print: Kopieringshuset, 2017
Graphic design: Magnus Lehman
Cover Photo: Åbo Akademy University image bank
Photographs by Krzysztof Ciesielski unless otherwise stated.

Contents

Baltic University Programme in 2016	3
Baltic University 25 Year celebration	4
Current Baltic University Members	6
BUP Courses	7
Sustainable City Development Conference	9
PhD Award and Small Grants	9
The 7th Strategy Forum for the EUSBSR	10
Baltic Science Network	11
SAIL	12
Among Academics Sailing the High Seas	13
SAIL for Students – 14 Days of Sailing for Sustainability	14
Economic Overview	15
The Road from Paris	15
Conferences, Seminars & Events 2016	16
Organization	18

The Baltic University Programme in 2016

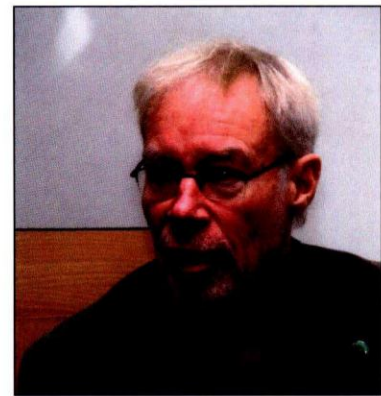
In 2016 the Baltic University Programme was reshaped as the changes decided on in 2015 were successfully implemented. All universities which we have been working with during the years were invited to sign membership agreements. In the end of the year, we had 70 *member* universities. The number is still increasing as more universities are added to the list. It will contribute to more stability and predictability: We can hope for being able to continue student and academic teachers' conference on a regular basis, on land and on board ships. The sailings have now been running for 20 years! The universities which have not signed a membership agreement will still be receiving information and invitations as *participating* universities, but not be able to take part free of charge.

The half year long programme responsibilities, so-called presidencies, continued with Latvia at the rudder during spring 2016 and Finland in the fall. Latvia invited us all to the extraordinary pleasant conference site of the University of Latvia in *Ratnieke*, close to one hour's drive from Riga. Thus in April the Latvian team organised together a student conference, a board meeting and a centre directors meeting. For the first time the new board met all of those working with BUP in their national contexts face-to-face, a very useful arrangement. We learned the very interesting story of *Ratnieke*, a story of early Latvian industrialisation a 100 years ago and the sustainability challenges of these days. It was first developed by a forward-looking Latvian entrepreneur for workers in his textile industry for rest and cultivation of food and to enjoy and preserve nature away from noise, coal and air pollution. That is what we still need in many places today.

The next very memorable gathering during 2016 was the 25 years celebration, now in Poland at Rogów and nearby Brzeziny organised by our excellent team at Lodz University of Technology. 108 participants from 58 universities and 14 countries took part in the 25 years program, planned by the Uppsala Secretariat, and the following banquet. It feels very special to see that BUP did not finish to exist when all borders opened up, e.g. at the EU enlargement in 2004, but rather has expanded and now been in full swing for a quarter of a century. Regional cooperation is needed more than ever!

During 2016 the offer from Poznan Higher School of Tourism and Management, to open their journal *Studia Periegetica* for publications from the BUP conferences have continued and in fact we do have our own journal now. Big thanks to Dr Arnold Bernaciak for this achievement. Contributions from the Academic Teachers conference in October focusing on Climate Change and ESD have been invited for publication.

The announcement of a best thesis award was also made in spring 2016 and in the fall the award was given to Dr Zivile Stankeviciute from Kaunas University of Technology for her thesis *Sustainability Dimension in Organisation's of Human Resource Management*. Also a small grant was offered – this year it was given to a Wroclaw PhD student – all of which contributed to the support of PhD students in the network. This is very much in line with the new large project *Baltic Science Network, BSN*, in which BUP is re-



sponsible for a work package managed by the Åbo/Turku Associate Secretariat. The research content and cooperation in the network is increasing! This part of our activities has also been better organised and is now taken care of by committees assigned by the board.

This introduction is the last from my pen as retirement is waiting. I may add small parts also in the future, as once a BUP student/teacher/manager you will always be one, and contributing to a sustainable future is for life! It is equally special to know that there are hundreds of friends out there in all of the countries in the region. We will continue to be friends. With these words I want to thank all of you who have contributed in 2016 to the BUP activities in all the countries of the Programme and wish you a new fruitful year ahead.

Lars Rydén

Acting Programme Director during 2016

The Baltic University Strategy for the Future

The Baltic University Programme was during 2016 given focus to issues regarding the future of the Programme. In the role as vice chair of the BUP International Programme Board, I was responsible for working with strategic future oriented issues during 2016. A survey was conducted in winter/ spring among colleagues participating in the Programme, asking about what they considered being the most unique features of BUP today; ideas about development of the programme; new activities, structure and organization. A review of previous notes and reports from BUP meetings since five years back was also conducted, with the aim to summaries strategic issues that already had been discussed.

The results from that work and the survey have influenced the content of the new BUP Strategic Plan 2017-2020.

For more reading see:

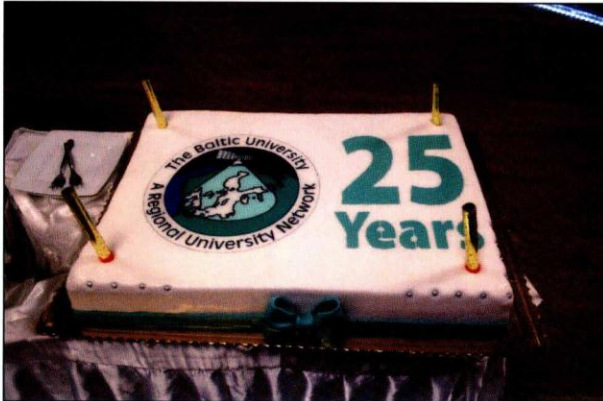
http://www.balticuniv.uu.se/index.php/bup-archive/doc_download/2105-strategic-plan-2017-2020.

Many thanks to all of you in the programme being active in this process.

Madeleine Granvik
Programme Director from 2017

The Baltic University 25 Year Celebration

Photos by Krzysztof Ciesielski.



The BUP 25 Year Celebration took place on the 24th October 2016 in Rogów, Poland. About 100 people from the BUP network participated in the celebrations. They came from 14 countries and represented 57 universities. After a few welcoming words by the master of ceremony, Maria Hejna gave the word to Prof. Lars Rydén who is also the founder and the first director of the Baltic University Programme. He introduced the early history and later development of the BUP and showed many examples on the achievements by BUP during the first 25 years. Then followed a cavalcade of short speeches by people that have been working in the network since the very beginning.

First came Dr Paula Lindroos, Åbo Akademi University, Finland, who once also participated in the very first meeting in Kalmar where the decision to set up the Baltic University Programme was taken.

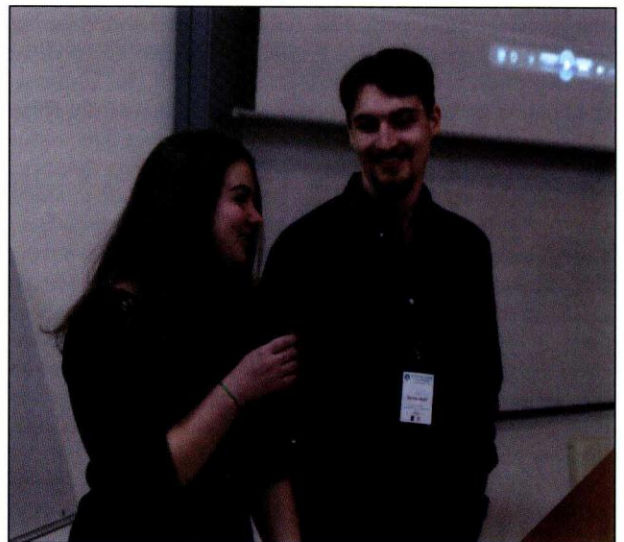
Long and successful stories about cooperation within the Programme has been told by Prof. Ireneusz Zbicinski, Lodz University of Technology, Poland, Prof. Walter Leal, Hamburg University of Technology, Germany, Prof. Linas Kliucininkas, Kaunas University of Technology, Lithuania, and Dr Siarhei Darohzka, Belarusian State University, Belarus.

Ulf Wikström, Åbo Academy University, Finland also told about the great experience of film and TV production in the early years of BUP. As a reminder of the spacebridges from the early days a "Skype-bridge" was established with Björn Grönholm and Carina Gräsbäck in Turku, Finland who had participated in films from the Baltic University.

Among others Prof. Nadezhda Goncharova, International Sakharov Environmental Institute of Belarusian State University, Belarus and Dr Tomasz Branka, Adam Mickiewicz University in Poznan, Poland talked about the importance of the BUP for university teachers.

Dusan Huska, Slovak University of Agriculture in Nitra, Slovakia, and Orest Ivakhiv, Lviv Polytechnic National University, Ukraine, have presented special greeting from their respective universities to the Baltic University Programme.

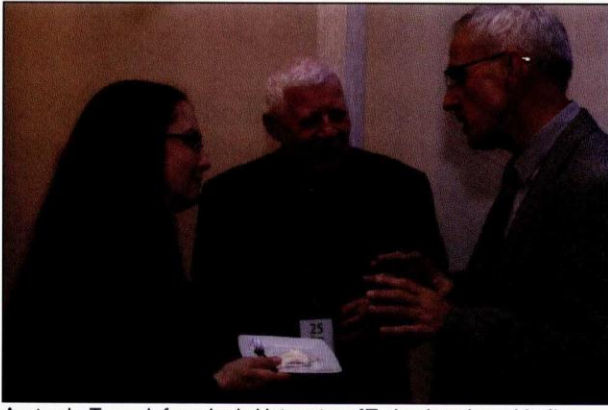
BUP Alumni Jakob Grandin, University of Bergen, Norway, and BUP Students representatives Falco Richardson, Uppsala University, Sweden, and Maria Stronska, Chernihiv National University of Technology, Ukraine, have ex-



Student representatives in the BUP board, Maria Stronska from Chernihiv National University of Technology in Ukraine and Falco Richardson, Uppsala University



Assoc. Prof. Madeleine Granvik is from 1 february 2017 the new Director of the Baltic University Programme.



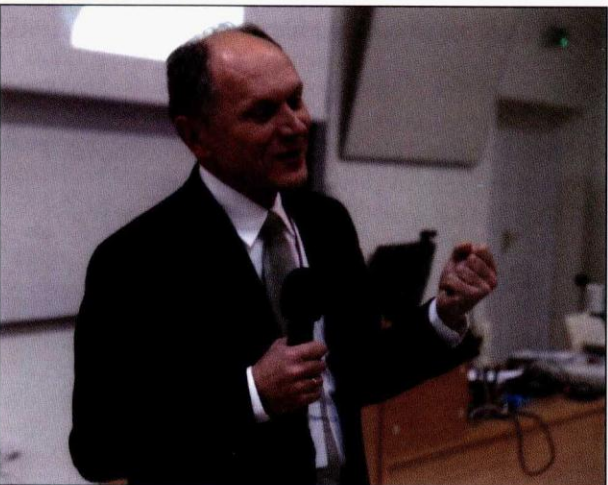
Agnieszka Trzupek from Łódź University of Technology, Jerzy Niećko and Pawło Wawrzyniak from Łódź University of Technology.



Dzineta Dimante, Director of the BUP National Centre in Riga, Latvia.



Uffe Wikström, former producer of several BUP Course TV-sessions and currently project manager at Åbo Akademi University.



Linas Kliucininkas Director of the BUP national centre in Kaunas, Lithuania.



Maria Hejna from the Baltic University Secretariat in Uppsala



Prof. Bernd Delakowitz, National BUP Director for Germany from Zittau/Görlitz University of Applied Science was also one of the performers. In Germany we have two centres, one in Zittau and the other at Hamburg University of Applied Sciences led by Prof. Walter Leal.

pressed the importance of the Programme for students, as well as shared their experiences from some BUP activities.

Interestingly enough this very year the BUP special project SAIL (Sustainability Applied in International Learning) also celebrate an anniversary – 20 year! Prof. Artur Magnuszewski, University of Warsaw, Poland, congratulated all with the anniversary and told about some experiences onboard.

There were some newcomers among the speakers as well. Dr Dzineta Dimante, University of Latvia, Latvia, the newest Centre Director in the network, has expressed her hope for future fruitful cooperation.

Last not least, the strategic plan for the future of the Baltic University Programme was presented by the BUP board member Dr Madeleine Granvik, Swedish University of Agriculture, Sweden.

The official part of the celebration was followed by a dinner in Brzeziny.

*Lyudmyla Babak
Baltic University Programme Secretariat
Uppsala University*

Current Baltic University Members

Member universities have signed the new agreement on membership in the the Baltic University Programme university network with Uppsala University and pay annual fees. The member university researchers, teachers and students will have priority to take part in all BUP activities. To participate in the activities will also be free of charge.

Belarus

Belarusian State Economic University, Minsk
Belarusian State University, Minsk
Grodno State Medical University, Grodno
International Sakharov Environmental Institute of
Belarusian University, Minsk
Minsk Branch of Plekhanov Russian University of
Economics, Minsk
Yanka Kupala State University of Grodno, Grodno

Czech Republic

VSB-Technical University of Ostrava, Ostrava

Estonia

Euroacademy, Tallinn
Tallinn University, Tallinn
University of Tartu, Tartu

Finland

Åbo Akademi University, Turku
Arcada University of Applied Sciences, Helsinki
Haaga-Helia University of Applied Sciences, Helsinki
Novia University of Applied Sciences, Vaasa
Turku University of Applied Sciences, Turku
University of Jyväskylä, Jyväskylä
University of Turku, Turku

Germany

Hamburg University of Applied Sciences, Hamburg
Zittau/Görlitz University of Applied Sciences, Zittau

Latvia

Latvia University of Agriculture, Jelgava
Liepaja University, Liepaja
Riga Technical University, Riga
University of Latvia, Riga

Lithuania

Kaunas University of Technology, Kaunas
Vilnius University, Vilnius

Poland

Adam Mickiewicz University, Poznan
Gdansk University of Technology, Gdansk
Jagiellonian University, Krakow
Lodz University of Technology, Lodz
Lublin University of Technology, Lublin
Maria-Curie Skłodowska University, Lublin
Medical University of Lodz, Lodz
Pedagogical University in Cracow, Cracow
Poznan University of Economics and Business, Poznan
Poznan University of Technology, Poznan
President Stanislaw Wojciechowski State University of
Applied Sciences, Kalisz

Siedlce University Of Natural Sciences and Humanities,
Siedlce
State College of Applied Sciences, Skierniewice
State University of Applied Sciences, Elblag
University of Gdansk, Gdansk
University of Lodz, Lodz
University of Social Sciences and Humanities, Warsaw
University of Warsaw, Warsaw
UTP University of Science and Technology, Bydgoszcz
Warsaw School of Economics (SGH), Warsaw
Warsaw University of Life Sciences (SGGW), Warsaw
Wroclaw Medical University, Wroclaw
Wroclaw University of Science and Technology, Wroclaw
WSB University in Poznan, Poznan

Russia

Immanuel Kant Baltic Federal University, Kaliningrad
Russian State Hydrometeorological University, St.
Petersburg
St. Petersburg State Agrarian University, St. Petersburg

Slovak Republic

Slovak University of Agricultural in Nitra, Nitra

Sweden

Center for Environment and Sustainability (Chalmers
University of Technology and Göteborg University)
KTH, Royal Institute of Technology, Stockholm
Linköping University, Linköping
Luleå University of Technology, Luleå
Lund University, Lund
Malmö University, Malmö
Södertörn University, Stockholm
Swedish University of Agricultural Sciences (SLU), Uppsala
Umeå University, Umeå
University of Gävle, Gävle
Uppsala University, Uppsala
World Maritime University, Malmö

Ukraine

Bila Tserkva National Agrarian University, Bila Tserkva
Chernihiv National University of Technology, Chernihiv
Ivan Franko National University of L'viv, Lviv
Lviv National Agrarian University Volodymyr Snitynskyy,
Lviv
Lviv Polytechnic National University, Lviv
National University of Kyiv-Mohyla Academy, Kyiv
Sumy State University, Sumy
Ternopil Ivan Pul'uj National Technical University, Ternopil
Ternopil State Medical University, Ternopil
Ukrainian National Forestry University, Lviv

BUP Courses

The courses are undergraduate and master's level courses, as well as specialised courses for professionals and teachers. The task of the Baltic University Programme is to create a rich learning environment with books, films, Internet sites and conferences to study the development of the region. The courses are run separately by each university in the network. Students register at their home university, while course material is produced and distributed within the Programme. Student conferences, summer camps as well as the internet, connect the student groups in the network. We also organize several university teachers training courses each year to uphold a good standard of knowledge and to introduce new teachers to our materials and courses.

International Education

Baltic University Programme courses are international, multidisciplinary, problem-oriented, and based on ongoing research. The courses intend to give comprehensive education for sustainable development, the environment and of the societies in the Baltic Sea Region. The courses are organized as an international cooperation within the network. In this way, we keep the best standard possible, considering that the topics chosen are so wide that no single university, East or West, has the competence needed to produce such a course on its own. The course groups in the different countries are offered possibilities to get in touch with each other, and to participate in common events, lectures and seminars.

Teachers and Students Conferences

To support the university teachers in the network, seminars and conferences are arranged for various subject areas. In 2016 one ESD training workshops were arranged where teachers get the opportunity to discuss with colleagues on the BUP education for sustainable development, didactics, how to cooperate with other universities as well as practitioners, and how to build networks on how to address questions of sustainability.

In 2016 one students' conference was arranged in Ratnieki, Latvia from 21st to 24th April, 2016. The Conference explored local sustainability aspects of the music festival "LABA DABA" ("Good Nature"). Students were also invited to attend summer camps, sailing trips and other events to promote contacts, international understanding and democracy development. For the fourth time a one-week course for PhD Students was arranged.

The Web Page & Courses

The Secretariat web page www.balticuniv.uu.se is intended to be a re-



Prof. Berndt Delakowitz with students at the Rogów students' conference. Photo: Krzysztof Ciesielski.

source for both students and teachers. It contains information on the courses and the course material, meetings and conferences, as well as the latest publications from the Baltic University Press.

Comprehensive information on Education for Sustainable Development (ESD) is found on the Finnish BUP web site www.bup.fi.

The Baltic University have much course materials available on-line and also three on-line study courses. Sustainable Water Management course. All course material, (a total of some 600 pages) can be downloaded as pdf-format documents from the web page. Project tasks, internet links, questions, and study groups, etc. are available or organized over the homepage. See further www.balticuniv.uu.se/swm

A web-based course called Concepts of Sustainability (COS) giving 5 ECTS credit points is also offered by the Open University at Åbo Akademi University. This introductory course is made in the open source

learning platform Moodle. Another on-line course entitled Sustainable Development have also been developed. The course material is available at the BUP website. <http://www.balticuniv.uu.se/sustainabledevelopmentcourse>

SAIL – Sustainability Applied in International Learning (7.5 ECTS) is an international course on sustainability organised by the Baltic University Programme. 40 students and teachers from all countries within the Baltic Sea drainage area work, study, sail and live together on a sailing ship for 14 days. The education consists of workshops, seminars and group discussions at sea on board. The students also participate as sailors and perform watch duties on the ship around the clock.

Baltic University Courses

Undergraduate Level

Environmental Science ES

The ES courses give multidisciplinary overviews of the situation of the environment in the Baltic Sea region and on how to manage and protect it. The courses provide an excellent background for studying the Baltic University courses on sustainable development. The 15 ECTS course can be divided into two modules which can be studied separately:

- I. The Baltic Sea Environment** (7.5 ECTS)
- II. Basic Environmental Science** (7.5 ECTS)

English for Environmental Science EE

This is an intermediate level English language course that develops comprehension, vocabulary and skills of expression. Terminology used in environmental studies is explained and practised.

The Baltic Sea Region Area Studies AS

The AS courses treat the Baltic Sea region and its societies under eight headings: history, culture, language, democracy, multiculturalism, social conditions, economics and security. The courses deal mostly with the conditions in the region after the systems change in 1989-91. Regional development is in focus with emphasis on democracy, human rights and economics.

- The Baltic Sea Region** (15 ECTS)
- I. Peoples of the Baltic** (7.5 ECTS)
- II. Regional development and the Baltic Sea region** (7.5 ECTS)

A Sustainable Baltic Region SBR

The course deals with sustainable use and management of natural resources and long-term protection of the environment. Important issues in the course are energy and energy use, material flows, economy and ethics, industry, agriculture, transport and community development. (7.5 ECTS)

Sustainability Applied in International Learning SAIL

A course on sustainability organised by the Baltic University Programme. The education consists of workshops, seminars and group discussions on board a sailing ship. (7,5 ECTS)

Sustainable Development SD

An update of the course A Sustainable Baltic Region from 1997. The new course is an online course. You may find the course on this link:
<http://www.balticuniv.uu.se/sustainabledevelopmentcourse>

Concepts of Sustainability CS

An on-line course developed and run by Åbo Akademy University about Concepts, definitions and dimensions of sustainable development, about how to measure sustainability, and to discuss sustainability from several viewpoints and to relate it to own life. (5 ECTS)

Master's Level

Sustainable Water Management SWM

The SWM courses are master's level courses focusing on issues of sustainable use of water and water resources in the Baltic Sea region. Students should preferably have a background in e.g., hydrology, geology, physical geography, agronomy, soil science, forestry or environmental engineering. The full SWM course consists of three modules, which can be studied separately:

- Sustainable Water Management** (15 ECTS)
- I. The Baltic Waterscape** (4.5 ECTS)
- II. Water Use & Management** (4.5 ECTS)
- III. River Basin Management** (6 ECTS)

Sustainable Water Management can also be studied on-line as a self-paced course (www.balticuniv.uu.se/swm).

Community Development CD

The CD courses are master's level courses focusing on sustainable community development and urban planning with an emphasis on the Baltic Sea region. The courses are interdisciplinary, problem oriented and preparatory for a professional career. The course Community Development (15 ECTS) includes three modules:

- I. The City** (4.5 ECTS)
- II. Building Sustainable Communities** (4.5 ECTS)
- III. Urban Sustainability Management** (6 ECTS)

Environmental Management EM

The EM courses address management in all kinds of organizations, although industries are in focus. They are well adapted for competence development of professionals. The course consists of four modules:

- I. Policy Instruments for Environmental Management** (7.5 ECTS)
- II. Cleaner Production and Technologies** (7.5 ECTS),
- III. Product Design & Life Cycle Assessment** (7.5 ECTS)
- IV. Environmental Management Systems and Certification** (7.5 ECTS).

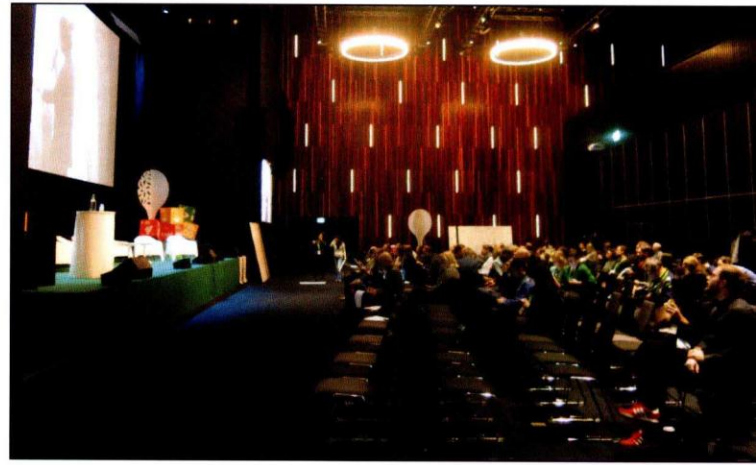
Ecosystem Health and Sustainable Agriculture EHSA

The EHSA courses address the field of rural development, sustainable agriculture and animal health pertaining to the Baltic Sea Region and to some degree also the Great Lakes region. The course consists of three modules:

- Environmental Management** (30 ECTS)
- I. Sustainable Agriculture** (7.5 ECTS).
- II. Ecology and Animal Health** (7.5 ECTS),
- III. Rural Development and Land Use** (7.5 ECTS).

SUSTAINABLE CITY DEVELOPMENT CONFERENCE

Malmö, Sweden



In recent years conferences on urban sustainable development have become more numerous and more important. Cities and towns are today main players in the transition to a more sustainable world. The Baltic University Programme has spent much effort on education for urban development over many years, and also worked together with a total of 30 cities in 9 countries in several large projects since 1999. In 2016 we put together a team for the Malmö Sustainable City Development conference 30 November - 2 December. BUP was responsible for a half day seminar dealing with climate issues, one out of 11 parallel tracks. We had about 40 in the audience including researchers and students from BUP universities.

Our climate seminar was organised together with Union of Baltic Cities (UBC) in Turku, Council of Baltic Sea States (CBSS) in Stockholm and the Climate KIC office in London. (KIC= Knowledge and Innovation Communities, an EU body) and thus we were able to offer a range of possibilities to continue working for the participants. I am grateful for smooth cooperation with all mentioned as well as with the Malmö Conference Secretariat.

The afternoon had reports from the cities working actively to reduce emissions of climate gases: Lahti Finland, Tartu Estonia and Karlskrona Sweden. Work by the private sector

was introduced, mostly from the very large energy company EON, and climate policy by Climate KIC and CBSS. After a panel discussion several research reports by BUP participants were made, notably by Jerzy Sleszynski, University of Warszawa, Dorota Kamrowska Zalowska Gdansk University of Technology and Lars Rydén, Uppsala University. Students from Belarus and Ukraine contributed with very good discussion. They will be our future climate researchers!

The conference as a whole offered a number of remarkable other activities, most interestingly study visits. Thus the large conference centre itself where the whole event took place, was itself an illustration of future changes. It included not only conference facilities, but also a big hotel and the new Malmö Concert Hall with room for an audience of 1,000. The whole complex received all its heat from four large heat pumps connected to 70 deep bore holes under the building. The engineers who had built the system were rightly proud of an efficiency of 4.2!

This was the only research conference of BUP during the year; its success asks for more of them

Lars Rydén

PhD Award and Small Grants



The Baltic University Programme (BUP) Board honoured Živilė Stankevičiūtė, Kaunas University of Technology, Lithuania, with the award for best PhD thesis defended during the calendar year 2015. The award is 500 EUR.

The thesis *Sustainability dimension in organisation's human resource management* support high quality research and promote sustainable development. Honorary diplomas were awarded to Ekatherina Zhukova from Aarhus University in Denmark for her thesis *Chernobyl as trauma management in Belarus and Ukraine*, and to Joni Lehto from University of Jyväskylä in Finland, for his thesis *Advanced biorefinery concepts integrated to chemical pulping*.

The Baltic University also decided to support the project *Pre-ecological solutions in student residences* by Martyna Mokrzejcka from Wroclaw University of Science and Technology in Poland, with the BUP Small Grant 2016 for planned multi-disciplinary research in the context of sustainable development. The grant cover up to 3,000 EUR.

Text by Christian Andersson
Photos by Krzysztof Ciesielski.



Walk the Talk-session. Alan AtKisson, moderator (left), Eva Svedling, State Secretary, Ministry for International Development Cooperation and Climate, Sweden, Jerzy Kwieciński, Secretary of State, Ministry of Development, Poland, Daiva Matoniene, Vice-Minister of the Environment, Lithuania and Stefán Haukur Johannesson, Permanent Secretary of the Ministry of Foreign Affairs, Iceland. Courtesy: cbss secretariat.

The 7th Annual Forum of the EUSBSR

The 7th Annual Forum of the European Union Strategy of the Baltic Sea Region EUSBSR was held in Stockholm 8-9 November. The event had setbacks and distractions such as heavy snowfall and the outcome of the American election. Despite this, stakeholders from around the region cooperated on issues such as the environment and business. The 1,300 Forum attendees ranged from the leaders of countries to us – the students.

The prime ministers of Sweden and Finland attended the Forum. Stefan Löfven (PM Sweden) and Juha Sipilä (PM Finland) focused both on the regions development in cooperation with the 2030 Agenda. Implementation of the sustainable development goals (SDGs) was a hot topic at the forum, however the approach differed among the speakers, countries and disciplines. The prime ministers spoke vaguely about actions and talked more about visions and goals.

The entrepreneur Niklas Zennström took the whistleblower approach by bringing up the urgency for change. “We are taking a passive decision every day – not to save the sea” said Zennström, where he emphasized the consequences of status quo. “We are not inheriting the sea from our parents, we are borrowing it from our children” Zennström added and shifted the focus into the future.

Then there were the optimists, such as the sustainability enthusiast Alan AtKisson, who took the stage with a smile. AtKisson focus on implementing the 2030 Agenda where no one should be left behind. “Innovation is coming from everyone, not just our usual suspect” AtKisson said and highlighted the potential of change within us all.

Throughout the forum speakers identified the main sustainability aspects within the BSR to be a circular economy, improved education, innovation, technology advancements and stronger cross-regional and interdisciplinary collaboration. Paweł Wieboda, president of demos EUROPA, talked about the mutual interests of the BSR to scale up to the EU level. Wieboda therefore shared his enthusiasm for the participants at the forum and their willingness to collaborate.

Attention was paid to the younger participants of the forum. There was a sense on appreciation for continued interest in the region. This was reflected in the interaction with the Baltic University Programme (BUP) where



Alan AtKisson, Cecile Nseye and Linda Strindevall. Photo Melker Dahlstrand.

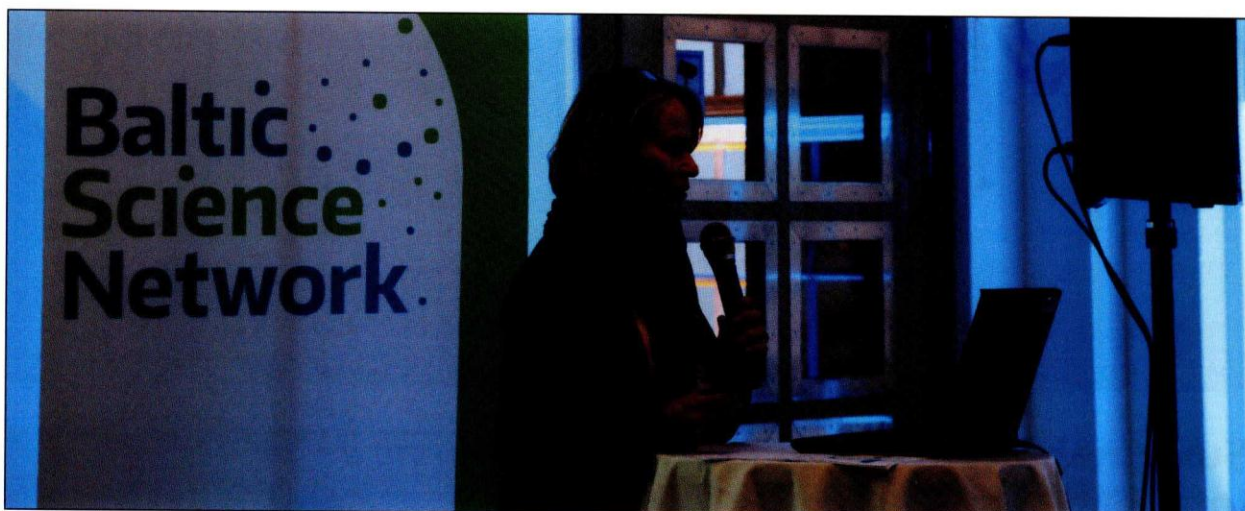
the speakers gladly answered the student's questions. Amongst the students there was a lot of interest to improve environmental degradation in the region, but also to enhance culture and innovation.

A common theme at the forum was to bridge the gap between policy makers (governments) and actors of policy implementation. Focus ought to be shifted from goals to achievement strategies describing resources and tools needed for implementation. Various presented implementation tools where technological, which consequently brought up the topic of digital exclusion. The digitalization and technological advancements within the BSR increases the importance of technological skills, which often leaves out the older generation. This exclusion ought to be considered to make sure no one is left behind.

Overall interested stakeholders attended the forum and individuals who wanted to improve the region together. Participants encouraged future dialogue to reach the SDGs and for a better BSR.

*Linda Strindevall and Cecile Nseye
Master Students of Sustainable Development
Uppsala University.*

Baltic Science Network



Ms Katariina Röbbelen-Voigt, Ministry of Science, Research and Equalities, Free and Hanseatic City of Hamburg. Photo: © CBSS Secretariat.

Baltic Science Network aims to provide science and research ministries of the Baltic Sea region states with an overall coordination framework to develop and implement science policy in a macro-regional dimension and to ensure a better representation of macro-regional interests on the EU level. The BSN project (www.baltic-science.org) also aims to develop and implement transnational strategies, incentives and programmes to support higher education, research and innovation and to develop R&I excellence.

The project partners consists of science and research ministries of the Baltic Sea region states. Baltic University Programme participates as the partner who represents the universities in the Baltic Sea region. The task for BUP is to give the universities a voice in the project, and to follow the development of the project outcomes.

The first Baltic Science Network (BSN) partner meeting was organized 7-8 April, 2016 in Hamburg, Germany. The Free and Hanseatic City of Hamburg (Ministry of Science, Research and Equalities) is coordinating this three-year project, which is funded by the EU Baltic Sea Region Programme.

It was emphasized during the planning meetings that the Baltic Sea Region (BSR) is one of the most competitive, innovative science regions of the world, with an excellent structure of leading universities and research institutions. Still, the BSR features different levels of research and innovation performance and existing facilities are not equally distributed and interconnected. In our national higher education and research systems (globalization, economic crisis, demography, technological progress etc.) we are all facing the same problems and challenges. At the same time society expects innovation policy and R&D activities to respond to the challenges facing our society at large, such as climate change, energy and resource efficiency, food supply, welfare, health and demographic change.

However, national and regional answers are not sufficient anymore for the large societal challenges, therefore a closer transnational cooperation and joint presentation of interest is needed. For the time being science policy in the

BSR is organized and pursued mainly from a regional, national or European angle, and a macro-regional dimension is missing in this field.

Despite the fact that various sectorial networks exist, there is currently a lack of a political coordination framework in the field of higher education, science and research policy covering the whole of BSR. The BSN-project will provide science and research ministries of the BSR states with an overall coordination framework to develop and implement science policy in a macro-regional dimension and to ensure a better representation of macro-regional interests at the EU level. Another objective is to develop transnational strategies, incentives and programmes to support higher education, research and innovation infrastructures to become better interconnected and to develop R&I excellence.

As partner of the project, BUP will participate in all project activities and evaluate the activities, experiences and learning processes. In the end there will be produced a documentation in form of a practical set of "Do's and don'ts" for successful development and implementation of transnational science. This will provide increased knowledge among policy makers about how to develop and implement transnational policies, strategies and programmes that support higher education, research and innovation infrastructures and their users to become better transnationally interconnected and to develop R&I excellence. As part of this work, BUP is also responsible for the project's website.

The BSN was present during the 7th Strategy Forum of the EU Strategy for the Baltic Sea Region in Stockholm on 8 November 2016, during the session "Do we need a macro-regional dimension in higher education, science & research policy in the Baltic Sea Region?"

Baltic Science Network (BSN) is an Interreg Baltic Sea Region funded project, and closely interlinked with the EU Strategy for the Baltic Sea Region and it is a Flagship of Policy Area Education.

*Paula Lindroos
Åbo Akademi University*

SAIL

Every summer the Baltic University Program offer university teachers and students a very different educational experience. The SAIL course (Sustainability Applied in International Learning and Teaching) is held on board the Polish brig STS Fryderyk Chopin. While attending seminars and workshops with multidisciplinary perspectives on sustainable development, teachers and students also work as sailors in the crew divided into watch teams 24 hours a day.

Sustainability Applied in International Learning and Teaching

a course for university teachers

This year 34 university teachers from 9 countries and 24 universities sailed for one week across the North Sea. This year the BUP Teachers SAIL, Sustainability Applied in International Learning and Teaching for university teachers, on board the Polish tall ship Fryderyk Chopin, started in Stavanger in Norway, 30 June and ended in Antwerp in Belgium, 7 July 2016.

This year the content focused on the United Nations Sustainable Development Goals (SDGs) which was launched 2015. The teachers formed working groups around thematic areas according to their field of expertise. Each group arranged a workshop for the other teachers. In addition to the academic part of the seminar, the teachers also acted as the working crew on board. To sail and manage the ship during day and night the teachers were divided in three watches. The Ship Fryderyk Chopin is a brig, which means that she has two high masts with yard sails. It is needed to climb the masts to operate the sails. Moreover, in the galley potatoes need peeling. This demanding and special learning environment is excellent for a collaborative learning and team building.

Dominika Stygar from the Medical University of Silesia in Poland have participated in SAIL for over ten years.

"The challenge for all of us on board and for me is to have 32 different teachers and academic specialists to start working together in a group both scientifically and as crew members. Everyone participate as crew in different watches 24 hours a day. The crew works hard with the sails, stands at the helm, repairs, cleans, cook serves food and make dishes and many also climb the high rig to take down the sails. The crew also participates in scientific seminars and workgroup discussions. It is very physically and mentally demanding. But myself, I am equally surprised at how quickly and easily both young and older academics perceive this unique concept, join the notes immediately and are both positive and willing to work – in all the weather! It's a unique experience to work as a crewmember on a oldtime sailing ship, while at the same time learning new things and getting new perspectives while having so much



Sinikka Suomalainen, Lars Österlund and Dominika Stygar.
Photo: Arild Nykvist.

fun! The SAIL course is definitely very different from other academic seminars or conferences."

"The idea behind SAIL is to support teachers' academic mobility and, overall, to strengthen contacts between universities in the Baltic Sea area. Participants gain international experience, improve pedagogical skills and also improve the ability to teach and communicate in English. Very important is also to motivate a more interdisciplinary and international viewpoint on teaching about sustainable development", says Lars Österlund, professor at Uppsala University. Lars is the scientific coordinator of the SAIL course and responsible for the academic content.

*Sinikka Suomalainen
Åbo Akademi University*



Among Academics Sailing the High Seas

For sure it is a wet teenage dream finally to become true. I have since long been interested in both sailing and sustainable development. Especially in a setting like this, in a blessed and salty mixture.

But I quickly learned that the North Sea and life aboard a nearly 60 meter long brig is very different from sailing past Strömsö in Finland with my own little boat. When we reached the open sea around the shelter of Stavanger in Norway the old North Sea did not turn out from its best side. A couple of hours later, half of us were properly seasick. The departure of this scientific teachers conference began dramatic, which I will remember as a retiree in the rocking chair with the Reino slippers on my frozen feet.

Climbing the rig of the nearly 40 meters high masts, out on the yards or the long bowsprit, was easy and more fun than I had expected. With my safety belt clamped to strong wires for security made me even enjoy the view. But to drag and tear at a big heavy, wet sail tens of meters above the sea with the hip over the yard and the rest of the body hanging down to the foot ropes, was a little harrowing.



On the second day on board with tailwinds over 20 meters per second and up to 8-10 meters high waves, I was exhausted and after the night shift at four to eight with rain and 6-7 degrees in the air after a heavy and long sailing control at the helm, I just threw myself in the couch with wet clothes on and fell asleep, but soon abruptly woke up when the alarm "All hands on deck" was called out. After a couple of days with a maximum of 3-4 hours of sleep, I felt like a jerking zombie when I forced myself to re-hitch up to the stern for orders like the ten others in my watch.

Kitchen watch on board a ship that jumps, shakes and throws you here and there 24 hours a day, was one of my toughest working experiences ever. Fortunately, the worst sea sickness faded but to carry a big bag of potatoes from the bottom of the ship to the hot narrow kitchen, peel potatoes, help the chef, lay the dining tables in the mess room, serve food and wash the dishes while trying to keep balance really feels in the body and the head on an untrained 60-plus. But I also enjoyed working together with the world's most helpful and funniest watch comrades.

Once I got my heart in the throat almost in the true sense of the word. We had the twelve to four night watch and the wind was blowing hard. Since we had too much sails up we had to take down two of the jibs, the triangular sails on the bowsprit in the front of the ship. Together we gently climbed out on the long bowsprit and could take down the sails and even though the bow dipped into the waves, we did not get too wet. With some relief and pride, I crawled away from the bookstroke back in front of the guard when the watchman suddenly shouted "fasten your harness NOW", and straight ahead I saw a giant wave coming. I immediately fastened the harness's carbinhake into the nearest lifeline wire and seconds later the wave came across the entire front deck and before I knew it I was soaked from top to toe. A little pale about the nose, I quickly answered however "all fine and well" when the security officer asked how it went.

When the weather became calm, sunny, dry and warm, everyone on board was happy. Standing behind the wheel at the helm in the middle of the night under a starry sky was great. Steering the ship south in 7-8 knots of speed

through the English Channel amidst all ships, fishing boats and oil rigs, felt amazing.

Almost every day we had seminars and group work that usually lasted a couple of hours in the classroom of Chopin, which was close to the bow. When weather was tuff the classroom was raised and lowered quickly several meters in the high waves, the sea sickness impaired both my academic analysis and speech ability considerably.

When the weather was more calm however, it was a breathtaking and unique experience to quickly jump from the practical, physical crew to the academic and theoretical teacher and research role. It was nice to see teachers and researchers from a variety of disciplines and subjects at a variety of universities in Europe see cross-disciplinary and cross-border issues on the ever more important and

complex issue of sustainable development. To realize how different one can look at the demands for sustainable development. Rarely have I been to a conference where you so openly and boldly criticize different viewpoints and often with concrete and provocative counter arguments. It was sometimes something of a Polish parliament but it was also very refreshing. Probably it was the team spirit that created sufficient reliability and group security for these straightforward and lively discussions. Meeting and becoming good friends with fun and knowledgeable people from different countries and cultures during the week was just great.

*Text & Photo: Ari Nykvist
Åbo Akademi University*

SAIL for Students

Studying can't be boring with this mix of heavy physical activity and intense learning. The course Sustainability Applied in International Learning gathered participants for from 14-28 August 2016 on board the Polish sailing ship Fryderyk Chopin.

It's 5 AM and 4 meter high waves rock your bed so strong that you even haven't been able to fall asleep after your last watch. Then a the alarm sounds ALL HANDS ON DECK and you have to get out of bed, get dressed, put safety harness on and run up to the deck to brace the sails – all that under 90 seconds. If this sounds a exciting for you then the SAIL course is the best option to put your physical and academic capabilities for test! (Ethel Rosenfeldt from University of Tartu/Tallinn University of Technology).

30 participants from Sweden, Russia, Poland, Lithuania, Latvia, Germany, Finland, Estonia, Denmark, Belarus and Ukraine sailed for two weeks from La Coruna in Spain to Blyth in the United Kingdom. The course and cruise is a bright example of alternative educational methods.

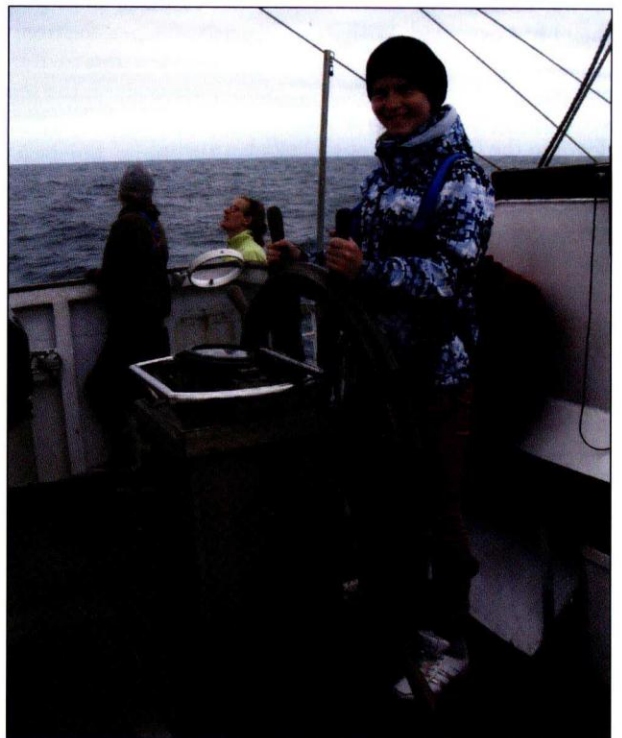
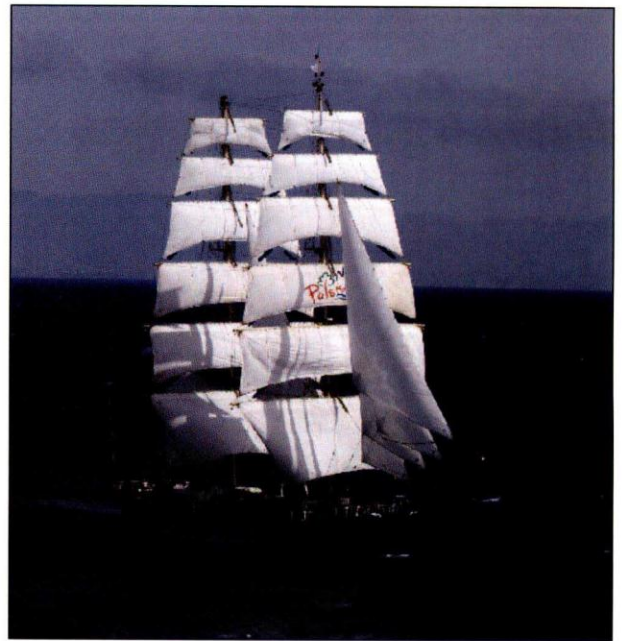
The students were divided into project groups and worked on how to implement the UN Sustainability Goals in our activities and daily life.

The hole course equals to 7.5 ECTS credits and include: prestudied assignment, lectures and practical tasks, project work.

The sailing is demanding. Sleep is scarce. Everybody on board faces the elements: cold, rain, and waves, are there to be sure, but there is also sun and the feel of fresh winds on your face blowing from across the open sea. Whether working in the kitchen or climbing high in the swinging rig to change sails, this experience definitely pushes your limits. The academic side also presents new challenges. For many it is their first total immersion in English. The teachers, who, like the students, come from countries in the greater Baltic Sea region, each bring their own expertise. It is a special and valuable chance for students to work and live as colleagues with teachers, especially those from entirely different areas of knowledge (Daniel Moran from the Norwegian University of Science and Technology in Trondheim.)

I gained lots of knowledge about sailing and got a whole bunch of new international contacts! That was the best part. (Agnes Ortman from Uppsala University).

*Maria Stronska
Chernihiv National University of Technology*



Maryna Prokopenko, Sumy State University. Photo: Maria Stronska.

ECONOMIC OVERVIEW

The organization and management of the Baltic University Programme – the Co-ordinating Secretariat in Uppsala (financed by the Swedish government and Uppsala University), the Associated Secretariat in Lodz (financed by Lodz University of Technology), the Associated Secretariat in Åbo (financed by Åbo Akademi University) and Hamburg (financed by Hamburg University of Applied Sciences) as well as the National Centres and the Member Universities – all have contributed in different ways to running the BUP activities during 2016.

Besides covering the daily running costs of all secretariats, the funding from the respective universities has been

used to finance such undertakings as teachers' conferences, students' summer courses and conferences, PhD conference, research conferences, the SAIL course etc. Still to be able to run all the yearly activities that we did, and would like to continue doing in future, BUP is dependent on the Membership fee contributions from all of the Member Universities. During year 2016 the total sum of membership fees was 44.000 euro.

Madeleine Granvik

The Road from Paris

This seminar was first announced as a conference but was later reorganised to a public half-day seminar the 7th June 2016 in Uppsala.

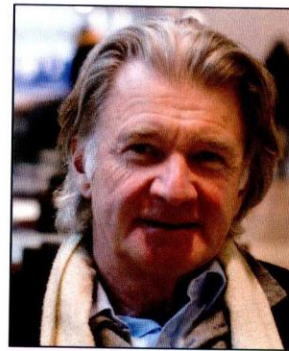
The first speaker Anders Wijkman is a wellknown Swedish politician. He is now one of two co-presidents of the Club of Rome. He is also the chairman of the all party Committee on Environmental Objectives in the Swedish parliament

In the presentation "How Sweden can be fossilfree in 2045" he pointed out that we have entered the Anthropocene and that the human made climate change is a serious long-term threat to humanity. We are on the path of a 3-4 °C warming which translates into stronger and more frequent extreme weather situations, sea level rise, ocean acidification and ultimately lower food production. In addition lower latitudes will become nasty places, hot and dry, to live.

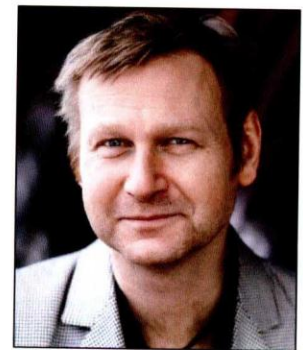
To remedy this situation and keep the global warming below 2 °C we need to cut down on the global annual CO₂ emissions by 6.2% per year. And that is what the Paris agreement deals with. However, little is said about how to reach the objectives. But in general the spirit is optimistic, the use of coal is shrinking while investments in renewable energy is increasing. Many big companies are also positive as are hundreds of cities.

In Sweden the Committee on Environmental Objectives has suggested that a climate law will be enacted, that zero emissions should be reached no later than 2045 and that a climate action plan should be renewed by the government every four years and finally also to establish a Climate Change Committee to have oversight role and, in particular, guarantee that all sectors work in the same direction

In the second part of the seminar Björn Sigurdson at Uppsala municipality talked about his work with the Uppsala Climate Protocol a network of major industries, authorities and the universities in Uppsala. The goal is to



Anders Wijkman. Photo: Matilda Lann, Fastighetsny



Björn Sigurdson. Photo: Klimatprotokollet, Uppsala Kommun.

make Uppsala fossil fuel free by 2030 and that the total emissions of greenhouse gasses should be close to zero in 2040 and even negative in 2050.

During the years 2012-2015 the goal was to lower the CO₂ emissions by 4.5% but in reality it showed that the emissions decreased by 11%. The goal for the year 2020 is that Uppsala should only use renewable energy for its heating needs. Another goal is to increase the amount of captured solar energy. In 2020 it is expected that 30 MW solar energy will be installed and by 2030 about 100 MW. The plan for municipality vehicles is that they should be fossil fuel free from 2020 and that all municipality transport should be fossil fuel free by 2023. Finally also the municipality should become more energy efficient so that it will be possible to lower the municipality's energy consumption with 25% by the year 2020.

In the concluding discussion the question was put forward: "Why not create an international network of university cities that could be leaders of the work to diminish CO₂ emissions. As it is in these cities the competence and expertise in sustainable development is found". Yes,

*Christian Andersson
Baltic University Programme, Uppsala University*

Conferences, Seminars & Events 2016

The calendar for 2016 below shows an overview of the activities in the Baltic University Programme network taking place in addition to the courses. These activities include students' conferences, competence development for teachers and other professionals, meetings and study visits. 358 students, teachers and scientists participated in our activities during the year.

March

21-23 March 2016
International Conference:
Brownfields Management and
Redevelopment
Ostrava, Czech Republic

April

6-8 April 2016
Uzwater project Final Meeting
Tashkent, Uzbekistan

20-24 April 2016
BUP Students Conference
Ratnieki, Latvia

21-22 April 2016
BUP Centres Meeting
Ratnieki, Latvia

22 April 2016
BUP Board Meeting
Ratnieki, Latvia

May

18 May 2016
Capacity Development in Maritime
Spatial Planning
Workshop at the European
Maritime Day organised by
BUP Finland and Åbo Akademi
University.
Turku/Åbo, Finland.

June

7 June 2016
The Road from Paris: Seminar
with Anders Wijkman and Björn
Sigurdson from Uppsala municipality.
Uppsala, Sweden

July

30 June - 7 July 2016
SAIL for Teachers
Onboard the Polish tall ship
Fryderyk Chopin sailing from
Stavanger, Norway to Antwerp,
Belgium

August

14-28 August 2016
SAIL for Students
Onboard the Polish tall ship
"Fryderyk Chopin" sailing from La
Coruna, Spain to Blyth, UK

September

27 September - 1 October 2016
BUP Summer Course: The Energy-
Water-Sustainable-Development
Nexus in the Baltic Sea Region
Wrocław, Poland.

October

23- 26 October 2016
BUP Teachers Autumn Conference
Rogów, Poland

23- 25 October 2016
BUP Centre Directors Meeting
Rogów, Poland
24 October 2016

24 October 2016
BUP 25 Year celebration
Rogów, Poland

November

8-9 November 2016
7th Annual Forum for the European
Union Strategy for the Baltic Sea
Region (EUSBSR)
Stockholm, Sweden

21 November 2016
BUP Board Meeting
Uppsala, Sweden

28 November -2 December 2016
4th BUP PhD Students' Training
Rogow, Poland

29 November 2016
Živilė Stankevičiūtė, Kaunas
University of Technology, Lithuania,
was awarded best PhD thesis 2016
defended during 2015.

Martyna Mokrzecka, Wrocław
University of Science and Technology
was supported with the BUP
Small Grant 2016 for the project
*Pre-ecological solutions in student
residences*
Rogow, Poland

30 November - 2 December 2016
Sustainable City Development:
Climate Cube
Malmö, Sweden

December

BUP Board Meeting
14 December 2016
Uppsala, Sweden



Sustainable City Development conference in Malmö, Sweden. Photo by Lars Rydén.



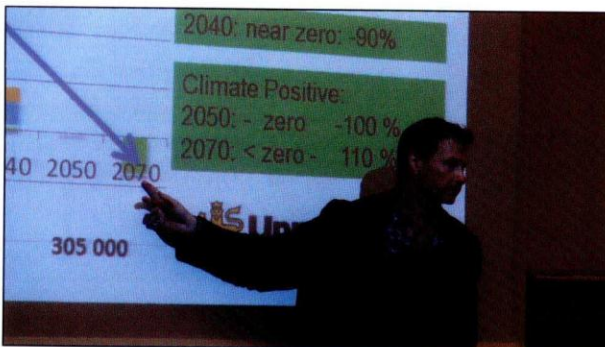
Alise Trifane from Latvia University of Agriculture in Jelgava at the 7th Forum of the EUSBSR in Stockholm. Photo by Christian Andersson.



Discussion at the students' conference in Rogow. Photo by Krzysztof Ciesielski.



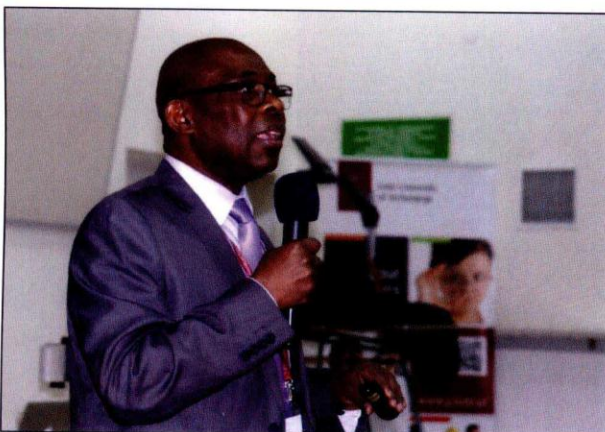
Shepherd Urenje, Sinikka Suomalainen and Ea Blomquist at the teachers conference in Rogow. Photo by Krzysztof Ciesielski.



Björn Sigurdson lecturing at the Road from Paris Seminar in Uppsala. Photo by Magnus Lehman.



Christian Andersson from BUP Secretariat and Arnold Bernaciak from at the Baltic University 25 Year celebration. Photo by Krzysztof Ciesielski.



Sherherd Urenje from SWEDES was one of the keynote speakers at the BUP Teachers conference in Rogow. Photo by Krzysztof Ciesielski.



More than 50 participants from the BUP network gathered the 23rd to 26th October in Rogów, Poland, for the annual BUP Teachers Conference. This year's theme of the conference was Engaging Higher Education in Local and Global Challenges. Photo by Krzysztof Ciesielski.

Organization

Baltic University is a regional university network in the Baltic Sea region, with about 200 members among institutions of higher learning. The network is coordinated by a Secretariat at the Uppsala Centre for Sustainable Development, Uppsala University. We work to establish education for sustainable development with an interdisciplinary perspective. We do that by organising meetings, conferences, workshops and projects with researchers, teachers and students. Some of the results from this cooperation has developed into an extensive work package on sustainability and regional development. The Baltic University Programme is led by an international board. The task of the board is to develop the contents and long term policy of the Programme, and to support its implementation at the participating universities. The board also works for the financing of the Programme and decides on its plan of activities. The day-to-day activities are coordinated and carried out by the secretariat located at Uppsala University in close co-operation the Associated Secretariats at Åbo Akademi University, Łódz University of Technology and Hamburg University of Applied Sciences. The Secretariat in Uppsala also administers the Programme economy, including applying for financing and contacts with the funding organizations. The 15 centres distribute information on courses and develop Programme activities within their countries. All countries except Norway have a BUP national centre. Russia, in addition, has centres in both St. Petersburg and Kaliningrad, and Germany in both Hamburg and Zittau.

The National Centres 2016 and Centre Directors

Belarus

Belarusian State University, Minsk
Assoc. Prof. Siharei Darozhka

Czech Republic

Technical University of Ostrava
Dr Alena Labodova

Denmark

Aarhus University
Assoc. Prof. Henrik Knudsen

Estonia

Tallinn University of Technology
Prof. Tatyana Polayeva

Finland

Åbo Akademi University
Dr Paula Lindroos

Germany

Hamburg University of Applied Sciences
Prof. Walter Leal

University of Applied Sciences, Zittau/Görlitz,
Prof. Bernd Delakowitz

Kaliningrad region of Russia

Immanuel Kant Baltic Federal University
Dr Elena Kropinova

Latvia

University of Latvia, Riga
Dr Dzineta Dimante

Lithuania

Kaunas University of Technology
Assoc. Prof. Linas Kliucininkas

North-Western region Russia

St Petersburg State University
Prof. Victor Ionov

Poland

Technical University of Lodz
Prof. Ireneusz Zbicinski

Slovak Republic

Slovak University of Agriculture, Nitra
Assoc. Prof. Alexander Feher

Sweden

Swedish University of Agricultural Sciences
Prof. Per Berg

Ukraine

Ivan Franko National University of Lviv
Dr Iryna Kriba



Photo by Krzysztof Ciesielski

The Secretariat 2016

Director: Lars Rydén, Prof. (from 20150701)
Network Manager: Maria Hejna, MSc. Econ.,
Web Master: Christian Andersson, PhD
Producer: Magnus Lehman, MA,
Project Assistant: Lyudmyla Babak, MA
Project Leader: Genene Mulugeta, PhD

The BUP Board 2016

Olle Jansson, Adviser to the Vice-Chancellor, Uppsala University, Sweden, (Chair)
Elisabeth Nihlfors, Prof., Uppsala University, Sweden
Matthew Kott, Prof., Uppsala University, Sweden
Madeleine Granvik, Assoc. Prof., Swedish University of Agricultural Sciences
Ian Snowball, Prof., Uppsala University, Sweden
Ireneusz Zbicinski, Prof., Lodz, University of Technology, Lodz, Poland
Anders Jonsson, Adviser to the Swedish UNESCO Council, Sweden
Tapio Salmi, Prof., Åbo Akademi University, Finland
Iryna Kriba, PhD, Ivan Franko National University of Lviv, Ukraine
Walter Leal, Prof. Hamburg University of Applied Sciences, Hamburg, Germany
Falco Richardson, Uppsala University student representative, Sweden (one year appointment)
Mariia Stronska, Chernihiv University of Technology, Ukraine (one year appointment)



The BUP Network

