
THE BALTIC UNIVERSITY
PROGRAMME FOR ENVIRONMENTAL
EDUCATION IN LATVIA

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Participating universities

- University of Latvia
 - Riga Technical University
 - Latvian University of Agriculture
 - Riga Stradina University
 - Daugavpils University
 - Rezekne Higher Education Institution
 - Liepaja University
 - Latvian Maritime Academy
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MATERIALS OF THE BALTIC UNIVERSITY – PRACTICAL USE

- Used at the University of Latvia;
 - Used at other universities in Latvia;
 - Used at many universities of the Baltic sea region
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MATERIALS OF THE BALTIC UNIVERSITY - AUTHORS

- Experts from many countries of the Baltic sea region



EXAMPLE - ENVIRONMENTAL STUDY PROGRAMMES 1

- **Advanced interdisciplinary environmental science graduate level programme with implementation of western experience first was started at the Centre for Environmental Studies Faculty of Chemistry University of Latvia during the 1990 - 1991 academic year**
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EXAMPLE - ENVIRONMENTAL STUDY PROGRAMMES 2

The Centre for Environmental Studies Faculty of Chemistry offered a number of educational programmes including:

- Graduate level five year study programme in Interdisciplinary Environmental Sciences;
 - Master of science study programme in Environmental Chemistry;
 - The Higher Professional education study programme in “Environmental protection and impact assessment”,
 - The Open University programme for Environmental Studies offered to a wide audience (teachers, high school and university students, specialists from various institutions).
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INTERNATIONAL COOPERATION

The Baltic Sea regional cooperation within the **Baltic University** gives very important contribution for the development of the study programmes



The Baltic University Programme



- a network of more than 180 universities & of higher learning;
- coordinated by a Secretariat at Uppsala University, Sweden;
- focuses on sustainable development, environmental protection and democracy;

Aim

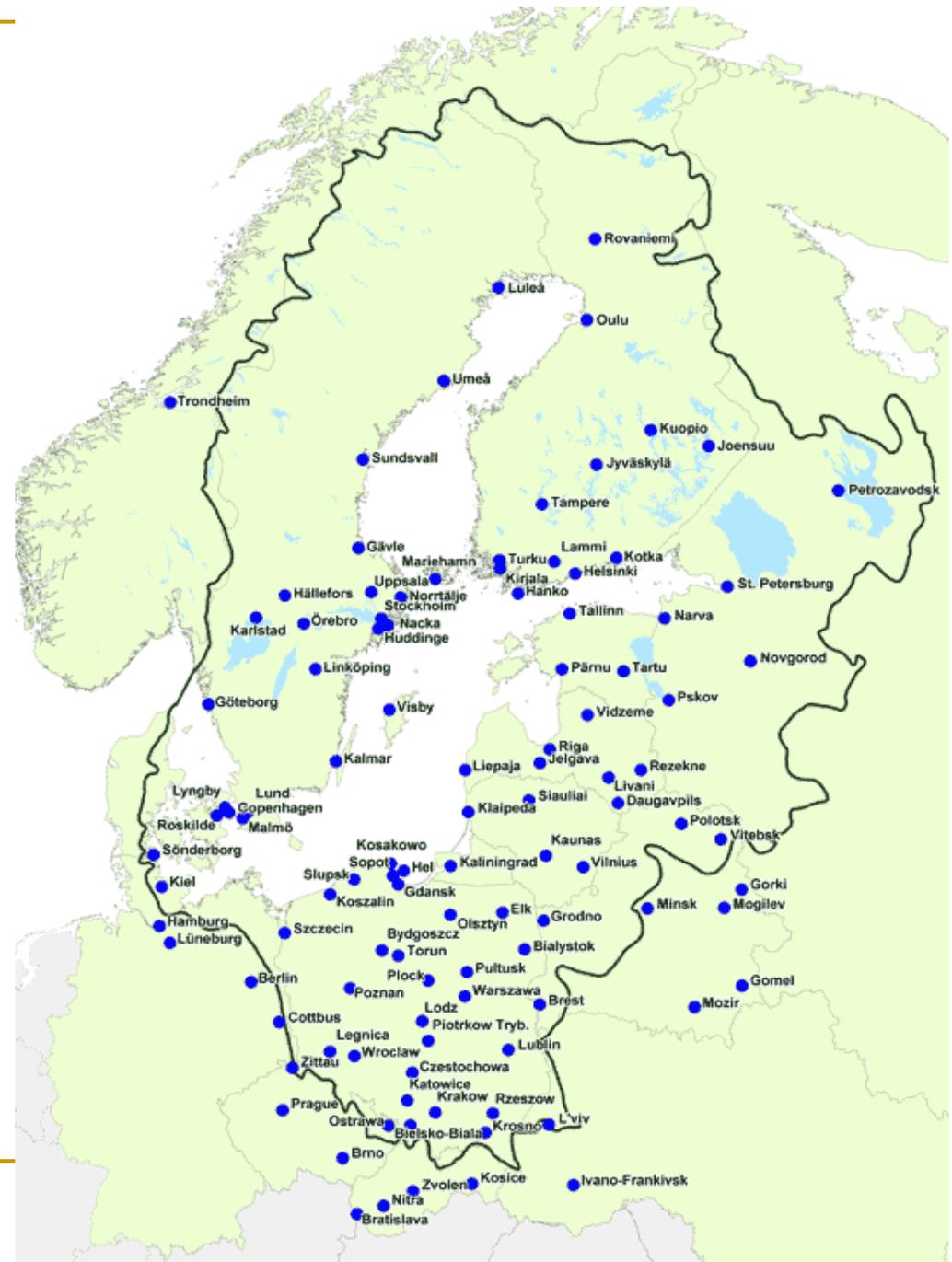
To support the key role that universities play in a democratic, peaceful and sustainable development by:

- developing university courses
 - participation in projects in cooperation with authorities, municipalities & others.
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Baltic University Programme's Network

Locations where one or more universities participate



The Baltic University Programme



Activity areas

- education
- research
- information
- applied projects



The Baltic University Programme



Course Material produced by
Baltic University Press



The Baltic University Programme



The Baltic University Press Production

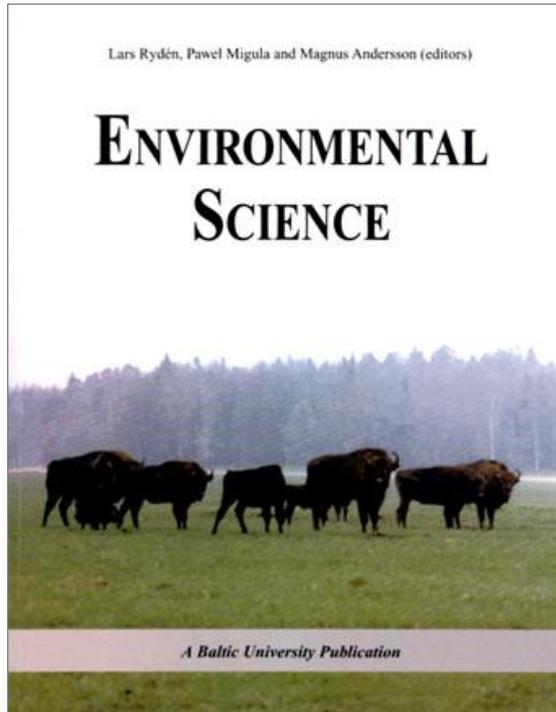
- 32 booklets and 8 books
- 4 books in production
- 43 TV programs, 65 hours
- 60 satellite-TV receivers in CEE



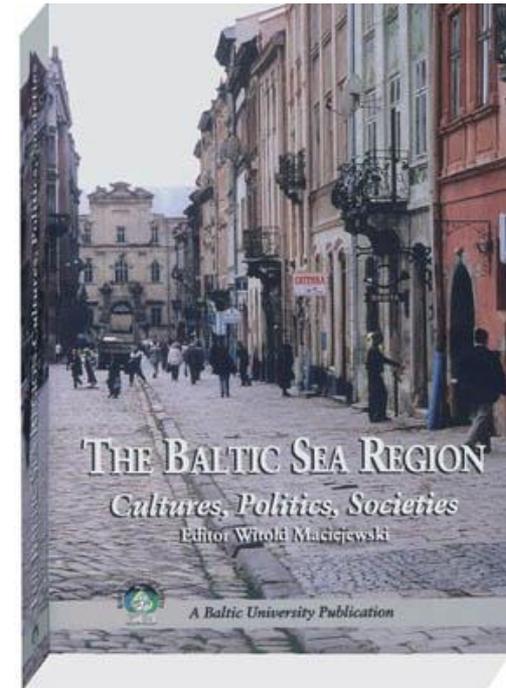
The Baltic University Programme



The Baltic University Programme



***New
Books
from
a
New
Publisher !***



Materials of the Baltic University for environmental studies - examples:

- A sustainable Baltic region;
 - Environmental science;
 - Sustainable water management;
 - Environmental management systems;
 - English for environmental science and others.
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A sustainable Baltic region (1):

- The road towards sustainability – a historical perspective;
 - Energy – from fossil fuels to sustainable energy resources;
 - Man and material flows – towards sustainable materials management;
 - Food and fibres – sustainable agriculture and forestry
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A sustainable Baltic region (2):

- Sustainable industrial production – waste minimization, cleaner technology and industrial ecology;
 - Towards sustainable mobility – transporting people and goods in the Baltic region;
 - Cities and communities – the development of sustainable habitation
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A sustainable Baltic region (3):

- Ecological economics – markets, prices and budgets in a sustainable society;
 - The foundations of sustainable development – ethics, law, culture and the physical boundaries;
 - From intention to action – implementing sustainable development
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Environmental science:

- Part A. Understanding the Environment;
 - Part B. Environmental Impacts;
 - Part C. Society and Environment;
 - Part D. Managing the Environment
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Part A. Understanding the environment:

- Discovering the environmental dilemma;
 - How the environment works – turnover of matter and energy;
 - Ecology and ecosystems;
 - The Baltic sea basin – nature history, and economy;
 - The Baltic sea;
 - Life in the Baltic sea
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Part B. Environmental impacts (1):

- Society and landscape – space intrusion and habitat destruction;
 - Changing the living world – shrinking biodiversity;
 - A new regime for nutrient turnover – eutrophication;
 - Impacts on the global atmosphere – climate change and ozone depletion
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Part B. Environmental impacts (2):

- Air pollution – acid rain and radioactive fallout;
 - Metal flows and environmental impact;
 - Industrial society and chemical pollution;
 - How pollutants affect life – toxicology and human health;
 - The damaged environment – distribution, interaction and longevity of env. impacts
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Part C. Society and environment (1):

- Environmental engineering and the technology of clean air;
 - Resource management and the technology of clean water;
 - Soil protection and solid waste management;
 - The cost of pollution – environmental economics
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Part C. Society and environment (2):

- Legal protection of the environment;
 - Behaviour and the environment – ethics, education and lifestyle;
 - Making and implementing environmental policy;
 - International cooperation for the environment
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Part D. Managing the environment:

- Environmental management;
 - The prospect of sustainable development
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Sustainable water management:

- Book1. The Baltic Waterscape;
 - Book2. Water Use and Management;
 - Book3. River Basin Management
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Environmental management systems:

- Environmental policy – legal and economic instruments;
 - Cleaner production – technologies and tools for resource efficient production;
 - Product design and life cycle assessment;
 - Environmental management systems and certification
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Materials of the Baltic University and studies

- Environmental studies;
 - Chemistry studies;
 - Sustainable development studies
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Basis for development of environmental studies at the Faculty of Chemistry of the UL

- Important links of environmental problems with chemical processes and different branches of chemistry, with combustion, with chemical environmental pollution, with problems of resources, with applied chemistry and with chemical technologies.
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Main Topics and Links with Chemistry

- Theoretical Principles of SD;
 - Resource Management;
 - Water Management;
 - Energy Sector and SD;
 - Material flows and SD;
 - Sustainable Agriculture and Forestry;
 - Industry and SD;
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Main Topics and Links with Chemistry Cont.

- Mobility and SD;
 - Atmospheric pollution, Global problems;
 - Community Development, Sustainable Cities and Habitation;
 - Concepts of SD and links with different sectors: Economy, Ethics, Law and Policy;
 - Practical implementation - Agenda 21; and others
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Baltic University materials – Latvian version of SBR course

- Prepared with support of Baltic University and Latvian Environmental Fund;
 - Printed in the year 2001;
 - Editor - assoc. professor Yanis Zaloksnis;
 - Important material for sustainability studies in Latvia
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Sustainable Water Management course – cooperation:

- Study materials – 3 books;
 - Videoconferences;
 - Student exchange – Johan Laurell from Uppsala University prepared M.sc. Thesis on modelling of ground water pollution at Riga city municipality landfill "Getlini"
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Latvian participation at the Baltic

University activities – some examples:

- International course "Ecotoxicology";
 - Teachers conference on University education for sustainable development;
 - Student conference in Borki, Poland;
 - Student sailing trip on board of ship "Chopin"
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Baltic University contribution

Baltic University gives important contribution for environmental education in Latvia!

Thank You

for your attention!