
THE BALTIC UNIVERSITY PROGRAMME FOR ENVIRONMENTAL EDUCATION IN LATVIA

Andris A. Spricis
University of Latvia

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
-

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
-

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**
-

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).
-

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.
-



A map of Europe showing the distribution of 50 cities. The cities are marked with blue dots and labeled with their names. The map includes major geographical features like the North Atlantic, the British Isles, the Mediterranean Sea, and the Black Sea. The cities are distributed across the continent, with a higher concentration in Western and Central Europe. The labels are in a sans-serif font, and the map uses a light green color for land and light blue for water.

50 cities marked on the map:

- Rovaniemi
- Luleå
- Oulu
- Umeå
- Trondheim
- Sundsvall
- Kuopio
- Joensuu
- Petrozavodsk
- Jyväskylä
- Tampere
- Lammi
- Kotka
- Helsinki
- Kirjalla
- Hanko
- Turku
- St. Petersburg
- Tallinn
- Narva
- Novgorod
- Pskov
- Vidzeme
- Pärnu
- Tartu
- Rezekne
- Livani
- Daugavpils
- Polotsk
- Vitebsk
- Gorki
- Mogilev
- Gomel
- Mozir
- Ivano-Frankivsk
- Kosice
- Zvolen
- Nitra
- Bratislava
- Brno
- Ostrava
- Prague
- Zittau
- Legnica
- Cottbus
- Berlin
- Lüneburg
- Hamburg
- Kiel
- Sonderborg
- Roskilde
- Lyngby
- Malmö
- Copenhagen
- Lund
- Kalmar
- Visby
- Göteborg
- Linköping
- Huddinge
- Nacka
- Stockholm
- Norrköping
- Uppsala
- Mariefamn
- Gävle
- Örebro
- Hälsfors
- Karlstad
- Kosakowo
- Sopot
- Hel
- Koszalin
- Gdansk
- Kaliningrad
- Elk
- Grodno
- Bialystok
- Piotrkow Tryb.
- Lublin
- Krosno
- Lviv
- Rzeszow
- Krakow
- Katowice
- Czestochowa
- Wroclaw
- Poznan
- Bydgoszcz
- Torun
- Szczecin
- Warszawa
- Pultusk
- Olsztyn
- Warszawa
- Brest
- Minsk
- Vilnius
- Kaunas
- Siauliai
- Klaipeda
- Liepaja
- Riga
- Jelgava
- Polotsk
- Vitebsk
- Gorki
- Mogilev
- Gomel
- Mozir
- Ivano-Frankivsk
- Kosice
- Zvolen
- Nitra
- Bratislava
- Brno
- Ostrava
- Prague
- Zittau
- Legnica
- Cottbus
- Berlin
- Lüneburg
- Hamburg
- Kiel
- Sonderborg
- Roskilde
- Lyngby
- Malmö
- Copenhagen
- Lund
- Kalmar
- Visby
- Göteborg
- Linköping
- Huddinge
- Nacka
- Stockholm
- Norrköping
- Uppsala
- Mariefamn
- Gävle
- Örebro
- Hälsfors
- Karlstad

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

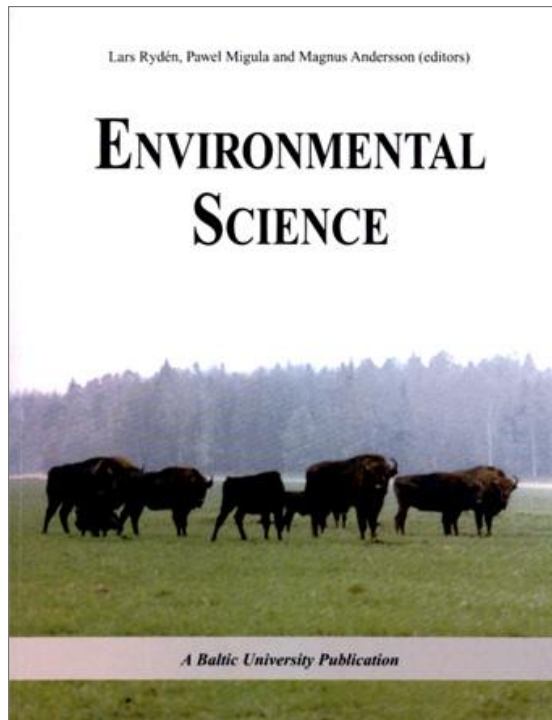
- 32 booklets and 8 books
- 4 books in production
- 43 TV programs, 65 hours
- 60 satellite-TV receivers in CEE



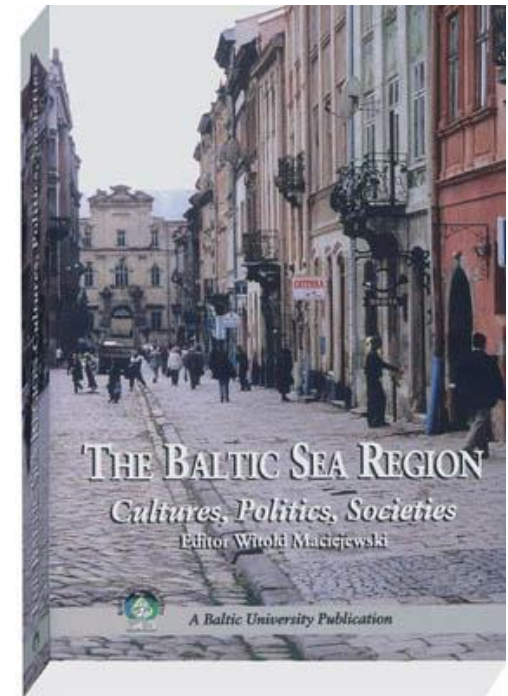
The Baltic University Programme



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.
-

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
-

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

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
-

Environmental science:

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

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
-

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
-

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
-

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
-

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
-

Part D. Managing the environment:

- Environmental management;
- The prospect of sustainable development

Sustainable water management:

- Book1. The Baltic Waterscape;
 - Book2. Water Use and Management;
 - Book3. River Basin Management
-

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

Materials of the Baltic University and studies

- Environmental studies;
 - Chemistry studies;
 - Sustainable development studies
-

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.

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;
-

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
-

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
-

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"

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"
-

Baltic University contribution

Baltic University gives important contribution for environmental education in Latvia!

Thank You

for your attention!