International forestry Master programmes within the Bologna Process

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8th Biennial Conference on University Education in Natural Resources
what to present and discuss ...

introduction – (my) background

the Bologna process as the framework

examples from Freiburg and Joensuu

didactical observations
SILVA Network

- European Forest Science Academic Network

Stands for

“stimulating and facilitating interuniversity co-operation in the field of Forestry education in Europe”
SILVA Network
Members

Coordination:
Universities:
Freiburg
TUM Freising
The oldest European universities till 15th century

Bologna
• **Bologna process**

The Bologna conference in 1999 initiated far-reaching changes of the complete system of higher education in Europe and started a process of a dimension not known hitherto.

• “*Ministers take into due consideration the conclusions of the European Councils in Lisbon (2000) and Barcelona (2002) aimed at making Europe ‘the most competitive and dynamic knowledge-based economy in the world, capable of sustainable economic growth with more and better jobs and greater social cohesion’ and calling for further action and closer co-operation in the context of the Bologna Process.*”
European Higher Education Area (EHEA)
forestry & related curricula at the University of Copenhagen

EM Programme outputs 2004-2006: Key facts and figures

✓ **80** Erasmus Mundus Masters Courses (until 12/2006)
✓ **369** higher educations institutions networking within the EM programme
✓ 2007 selection:
  ✓ **156** EMMCs applications submitted - **469** HEIs involved
  ✓ **23** new EMMCs selected - **109** HEIs involved
forestry & related curricula at the University of Copenhagen

EM Programme outputs 2004-2006: Mobility

Third country students:

- 2004-2005: 140 grants for students
- 2005-2006: 808 grants for students
- 2006-2007: 1377 grants for students
- 2007-2008: 1800 grants for students (2825 including Action 3)

Most popular countries: China, Brazil, Russia, India, Thailand, Pakistan

Third country scholars:

- 2004-2005: 28 grants for scholars
- 2005-2006: 133 grants for scholars
- 2006-2007: 231 grants for scholars
- 2007-2008: 320 grants for scholars

Most popular countries: China, Brazil, Russia, India, USA, Canada
types of international Master programmes

- international programmes within single universities
- double diploma programmes
- joint diploma programmes
- single courses, e-learning
what to look at

- ideas, structures, regulations
- students and graduates
- special features, language
- experiences, development
forestry & related curricula at the University of Freiburg

**Master**
- 4 semesters (new in 2008)
- 120 ETCS credits
  - Geography of Global Change
  - Hydrology
  - Forest Sciences
  - Renewable Energy Management

**Master**
- 4 semesters (start in 2005)
- 120 ETCS credits
  - Forest Ecology and Management
  - Master of European Forestry
  - Environmental Governance

**Bachelor**
- 6 semesters (start in 2005)
- 120 ETCS credits
  - Geography
  - Forest Management and Environment

Minor fields of study (within faculty of forestry and environmental sciences) (40 ETCS credits):
- Nature protection and landscape management
- Wood and bioenergy
- International forestry
- Meteorology and climatology
- or minor fields outside faculty

plus transferable skills courses (20 ETCS credits)
The double diploma Freiburg-Nancy

A student's perspective
The partner Universities

- the French Institute of Forestry, Agricultural and Environmental Engineering in Nancy (ENGREF)

and

- the Faculty of Forest and Environmental Sciences in Freiburg (Albert-Ludwigs-Universität)

- equivalences between courses
a bi-national study course

begin of the studies in the home country - end at the partner university

with the two diplomas

Studies in the country’s language

patronage of the German-French University of Saarbrücken
“Professional” benefits

- Language skills, especially in the professional vocabulary
- Other specialised orientations
- Opportunities for traineeships
- Chances on the job market: in French and German speaking countries
- International orientation, international career
Introduction

The **Master of Science in European Forestry Erasmus Mundus** (MSc EF) is a 2-year double-degree programme co-organized by the following 6 European Universities:

- University of Joensuu, Finland (Co-ordinating University)
- University of Freiburg, Germany
- Swedish University of Agricultural Sciences (SLU), Sweden
- University of Lleida (UdL), Spain
- University of Natural Resources and Applied Life Sciences, Vienna (BOKU), Austria
- Wageningen University, The Netherlands
forestry & related curricula at the University of Joensuu
Study programmes

The CBU offers Master's Programmes in six fields of study.

Master’s Programmes

The CBU presents top quality, international Master's degree programmes, which are jointly produced and developed in cooperation between the CBU partner universities. The extent of studies is two years and 120 ECTS credits. The CBU programmes are developed in compliance with the requirements of the Bologna Declaration. The six CBU fields of study are:

- Business and Administration
- Forestry and Environmental Engineering
- Information and Communications Technology
- International Relations
- Public Health
- History

Each study programme consists of:

- two years of studies
- 120 ECTS credits
- studies in at least one Finnish and one Russian university
- periods of mobility, consisting of, e.g., classroom studies, seminars, internships, virtual studies and intensive courses
- a personal study plan
- a Master's thesis

The basic requirements for applicants are a Bachelor's degree and a good command of academic English. The student selection is based on success in earlier studies and level of motivation.

CBU Doctoral Programmes
From Homogeneity to Diversity: Some Thoughts on the Challenge of Teaching Heterogeneous Groups

Till Westermayer, M.A.

Institute of Forest Utilization and Work Science
Albert-Ludwigs-Universität, Freiburg im Breisgau

SILVA Network, Annual Meeting within ICA Week of Conferences

August 29th, 2007
Empirical clues: gender aspects

Gender ratio (% male : % female) comparison across programs

MEG: 68% male, 32% female
FEM: 48% male, 52% female
"Old MSc": 42% male, 58% female
diploma: 33% male, 67% female
Previous degrees in the new master programs FEM / MEG (2005/2006)

- Forestry: 30%
- Environment, Agriculture: 23%
- Economics, Business Administration, Law: 13%
- Social Sciences: 14%
- Engineering, Architecture: 5%
- Geography, Planning: 10%
- Biology, Natural Sciences: 5%
Empirical clues: FEM / MEG – nationality

Nationalities in the new master programs FEM / MEG (2005/2006)

- South America 19%
- North America 14%
- Asia 26%
- Other Europe 24%
- Germany 8%
- Near-East 1%
- Africa 8%
The challenge of heterogeneity: five theses

1. Compared to previous times (e.g. the 1970s), higher education in forestry has to deal with much more diverse groups of students.

2. Growing heterogeneity is relevant for diploma/bachelor programs, too.

3. Heterogeneity is generated by individualization and globalization; concrete “generators of heterogeneity” include the Bologna process as well as causes specific to the organization of forestry.

4. The visible side of diversity (gender, ethnicity, qualifications) is accompanied by a diversification of motivations and interests.

5. The new realities of heterogeneity in higher education in forestry challenge established modes of teaching and learning.
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