

Technology and sustainable development in Europe

Students proposals for effective measures and best practices

ENSAM

Chalons en Champagne

7-17 July 2003

Methodology

- Pluridisciplinarity
- International group
- Workshops and conferences
- To share our best practices and proposals

Main issues in education

- to raise people awareness on sustainability
- to teach that sustainability does not cost more money
- to teach students a global approach on problems and contexts, in that perspective, we need more pluridisciplinarity in education.

Proposals for education

- To propose activities and tools during all the education process, from Kindergarten to higher education.
- To create pluridisciplinary research centers for research and training:
- Trondheim PhD in industrial ecology
- CREIDD at UTT
- To emphasize economic benefits, and to introduce new

economical concepts earlier in education.

- To give a strong training to future managers, because they will have power to increase SD concerns in their business.
- To increase the number a projects which require interdisciplinary approach.
- To teach how to work in pluridisciplinary teams. (example of Trondheim)
- To renew ways of teaching:
 - To decrease the number of lectures,
 - To increase active methods
 - To promote more active and involved students,
 - To promote more industrial involvement.
 - To emphasize practical situations before concepts and theory in education
 - To promote informal education, self teaching.
- To increase cooperation and exchanges across continents and at a world level. To propose the same course in SD in neighbour countries:
- example around the Baltic Sea. Cf. Uppsala University web: <http://www.balticuniv.uu.se/education/index.htm>
- Compulsory lectures on SD during first cycle at University, then every courses should integrate sustainable development concerns.

Main issues in industry

- Engineers and managers should be aware of the impact of their actions.
- To raise public awareness on corporate social responsibility.

Proposals for industry

- To finance research towards sustainability especially in:
 - Energy
 - New materials
 - Eco-efficiency
- To design products which can be recycled and repaired: to promote eco-design
- To share best practices among companies
- To share resources among companies:

- Examples of eco-parks
- To promote the creation of value where the raw materials are.

Public policy main issues:

- To raise public awareness on sustainability
- To raise public awareness on consumers responsibility

Proposals for public policy

- To distribute financial incentives towards SD actions, so people become actors of SD.
- To improve culture and understanding on how things are made in a SD perspective:
- To develop eco labels,
- To publish information on LCA on the product labels
- To communicate on good examples, best practices and successful stories
- To show simulation of the situations we would face without a SD policy.
- To create community centres with multidisciplinary teams: Scientific council working on SD, together with people from the field and citizens.
- To tax emission for polluting industries.
- To promote an appropriate taxation system to ensure the economic performance of SD products.
- Kyoto protocol signed and applied by ALL States.
- To reform international institutions to ensure their efficiency when dealing with sustainable development concerns.