Environmental Consortium for Leadership Development (EcoLeaD)

Multi–Stakeholder Partnership for Environmental Leadership Development in Higher Education

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Outlines

1. Objectives of EcoLeaD

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5. Developing partnership among Asian nations
For achieving Asian sustainability, it is necessary to foster human resources.

On-the-job training on the site of corporate activities and voluntary environmental activities are insufficient in terms of both quality and quantity.

Factors are
- Absence of institutes matching between enterprises and universities
- Shortage of the environmental student groups implementing environmental protection.

**ELIAS (Environmental Leadership Initiatives for Asian Sustainability) launched in 2008**

(1) Development of Model Programs
- Establishing the new method for developing environmental leaders
- Integrated and holistic perspectives
- Social entrepreneur
- Admin-strative officer
- Manager Green MBA
- Educator
- Engineer

(2) Multi-stakeholder Cooperative Consortium
- Creating a system utilizing expertise of each area
- University
- Corporation
- Government
- NGO
- International organization

(3) Development of Network in Asian Universities
- Strengthening capacity of Asian graduate schools
- Developing environmental leaders
- Country A
- ProSPER.Net
- Etc.
(1) Developing Model Programs

Numbers: 11 Universities (FY2008: 6   FY2009: 5)
Period: 1st yr: develop  2nd and 3rd yr: implement and evaluate

FY2008～

- Ibaraki Univ. : Graduate School to Educate Environmental Leadership for Asian Sustainability
  - Cultivation of future local leaders with a broad perspective and a power of execution -
- Keio Univ. : Designing Low-Carbon Society Course
- Univ. of Tokyo : Japan/Asia SATOYAMA Education Initiative
- Shinshu Univ. : Green MOT (Management of Technology) Education Program Implementation
- Kochi Univ. : Development of Cooperative Social Education Program for Environmental Leadership
- Chubu Univ. : Leadership for Environment and Development: Participatory Curriculum Development Network Between NGO and University

FY2009～

- Iwate Univ. : Program for Developing π-type Environmental Leadership by ISO14001 and Industry-University-Government-Citizen Collaboration
- Tohoku Univ. : Strategic Environmental Management and Sustainable Technology Solutions Program Development
- Sophia Univ. : Inter-Asian University Network and Industry-Academia Collaboration Environmental Leadership Program (Eco Asia)
- Univ. of Shiga Prefecture : Mizu yoshi, Chiiki yoshi, Miraii yoshi Development of Higher Education Programs for Environmental "sanpo yoshi" Leadership Training by cooperation in region
- Osaka Prefecture Univ. : Development of Education Program to Foster Environmental Experts with International Cooperative Leadership - Practice-Based Consistent Education in Undergraduate and Graduate Schools
1. Objectives of EcoLead

Reinforcement of environmental leadership development in higher education and industry as a multi-stakeholder platform

- University
- Company
- Government
- International Organizations
- NGO/NPO

Sharing information and resources. Discussing problems and finding solutions. Collaborating in projects.
# 2. Projects

## 2-1 Two Environmental Education Program Guidelines

A: T-Shaped Environmental Leadership Development Program (undergraduate)
B: Green Management Program (GMP) (graduate)

## 2-2 Seminars & Symposia

Providing opportunities to learn multiple perspectives, and exchange up-to-date information.

## 2-3 Information Infrastructure for Environmental Leadership Development

- University Program Database
- Advanced Program Portals

## 2-4 Collaboration with International Partners

Introducing activities of EcoLeaD at international conferences in Asia, and learning good practices form partners.
**2-1. (A) T-shaped Environmental Leadership Development Program Guidelines**

### Background

While there are many universities that have programs related to environmental studies, they are developed within the university under certain conditions and restrictions.

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**Process of the production of guidelines for the development of an “environmental studies” course**

- Formed a multi-stakeholder working group.
- Reviewed current programs in Japan and overseas.
- Researched on current practices, challenges and effective methods of environmental studies, especially active learning.
What is T-shaped Environmental Leadership?

Panoramic perspective on environmental conservation and sustainability (encompassing bird’s-eye view)

One’s profession and understanding of environment

Acquirement of sufficient professional experience (law, economics, engineering, etc.)
(A) T-shaped Environmental Leadership Development Program: Contents

**Human History, Environmental Issues and Measures**
- Basic ① Introduction: What are Environmental Issues?
- Basic ② Global System & Eco-System
- Basic ③ Human History & Environmental Issues
- Basic ④ Resources and Global Capacity
- Basic ⑤ History of Environmental Measures

**Topics of Environmental Issues and Measures**
- Ref ① Global Warming & Energy
- Ref ② Air Pollution
- Ref ③ Water Pollution & Soil Pollution
- Ref ④ Waste Management & Recycling
- Ref ⑤ Chemical Pollutant Contamination
- Ref ⑥ Biodiversity & Deforestation

**Approaches to Resolve Environmental Issues**
- Basic ⑥ Approaches of Central and Local Government
- Basic ⑦ Approaches of Companies

**Additional Topics**
- Basic ⑧ Partnership for Advancing Sustainable Society
- Basic ⑨ Conclusion: Toward Sustainable Society
Developmental Stages of T-shaped Environmental Leadership

University

Graduate School

Company, Government, NGO/NPO
2-1. (B) Green Management Program (GMP) Guidelines

**Background**

There is no MBA programs incorporating sustainability in Japan except Shinshu University’s Green MOT program.

**GMP as a 6-Course Master’s Minor Program**

- Formed a multi-stakeholder working group.
- Reviewed the state of research and educational materials of “green” MBA/MOT and environmental management programs overseas.
- Researched current practices, challenges and effective methods of education for environmental management

- Publication of guidelines for the development of curricula in graduate schools
- GMP seminars for corporate employees (planning)
- GMP certification (planning)
(B) Green Management Program (GMP) Guidelines

Master’s Minor Program
• As integral part of graduate education in addition to the Major program
• Systematic understanding of environmental issues and environmental management
• A birds-eye perspective to identify the key issue of a complex environmental problem to find a possible resolution
• Ability to apply various tools of environmental management

To develop environmental leaders at graduate schools including MBA/MOT, who can
• implement environmental management
• lead environment-related growth strategies
• introduce and support people’s environmentally-friendly lifestyle by providing green products/services/policies
Green Management Program (GMP)
Three Steps to Acquire Environmental Management Ability

Topics of each course include the following:

### Strategic Environmental Approaches

#### Application of Knowledge and Skills

#### Basic Knowledge and Skills

(1) Survey of Environmental Studies (=T-Guidelines)
(Understanding causes, current issues, possible solutions of the global environmental problems. Nurturing a bird’s-eye perspective to recognize relationships between multiple phenomena.)

(2) Environmental Policy
Frameworks of Environmental Policy and Policy Mix, Environmental Laws, Global Environmental Treaties.

(3) Environmental Management
ISO14001, Eco-Action 21, Environmental Accounting, Environmental Reporting, Environmental Performance Indicator.

(4) Sustainable Business Practices

(5) Governance for Sustainable Development
Environmental Ethics, CSR, Transparency & Materiality, Environmental Communication, Multi-Stakeholder Involvement, ISO26000.

(6) Methods for Solutions
2 Guidelines – future projects

- Assisting introduction of the 2 guidelines in university education.
- Development of textbooks and teaching materials based on the 2 guidelines.
- Development of a certification system.
- Offering seminars to corporate employees.
- Production of the English version of the two guidelines. → late December, 2011
2–2 Seminars and Symposia

**Topic 1:** Good practices of environmental leadership development

**Topic 2:** Requisites for environmental leaders who can devise company growth strategy

Seminars and Symposium with Roundtable Discussion

- Sharing good practices by universities and companies
- Discussion under the relevant theme
- Discussion for further collaboration
2–3. Information Infrastructure for Environmental Leadership Development

- Construction of information infrastructure for environmental leadership development.
- Establishment of curriculum database for environmental leadership development.

- Information on educational institutions and systems
- Course materials including syllabus, lecture notes, cases, activities, and teaching methods
- Information on human resources and facilities
- Information to support fieldwork and internships
- Platform for discussion groups
EcoLeaD would like to invite International Partners

- International partners would have links to their website on the EcoLeaD HP.
- International partners can send/receive information about environmental leadership development through EcoLeaD newsletters.
- International partners can get involved in communication, cooperation and networking among EcoLeaD members from the government, academia, industry and civil sectors.

Cooperation with international networks, such as ProSPER.Net, in environmental leadership development, and consideration of possible collaborative projects.
Developing Sustainable Societies in Asia through Partnership

EcoLeaD
Thank you.

For further information, please contact:

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