



HOKKAIDO UNIVERSITY

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SUSTAINABILITY EDUCATION AT THE UNIVERSITY OF PALANGKA RAYA

Sulmin Gumiri

Content

- Overview of UNPAR
- History of Sustainability Education
- Sustainability Education Programs under The StraSS Allience Universities at UNPAR
- Existing educational programs related to Sustainability Education
- Future prospect of Sustainability Education at UNPAR

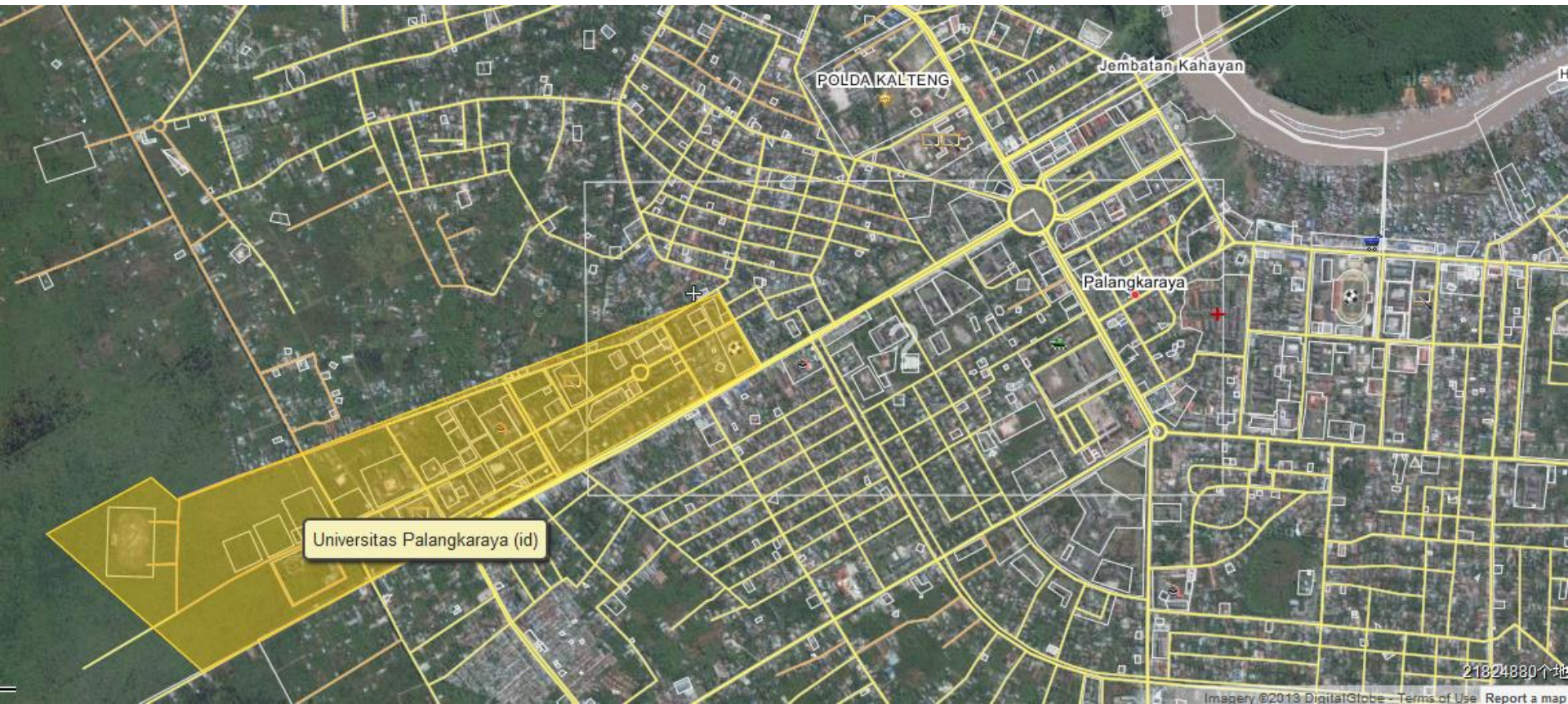
Indonesia: an archipelago country



Palangka Raya City



Campus site



The University of Palangka Raya



Facts and figures

- Founded in 1963
- Student body : 12,000
- Academic staff : 775
- Administration staff : 345
- Faculties :
 1. Teacher Training and Education
 2. Economics
 3. Agriculture
 4. Engineering
 5. Law
 6. Social and Political Science

Collaborative overseas universities

- Nottingham University - UK
- Hokkaido University - Japan
- Toyohashi University of Technology – Japan
- Yamaguchi University – Japan
- Toyama University - Japan
- Monash University - Australia
- New Castle University - Australia



SUSTAINABILITY EDUCATION AT THE UNIVERSITY OF PALANGKA RAYA

Sulmin Gumiri

- Master course on Natural Resource Management and Environment :

- Established in 2006

- Pathways:

1. Forest management
2. Peatland management
3. Soil and land resource management
4. Water resource management

- Students:

1. Fresh graduates
2. Local government officers
3. NGOs



Education (continued.....)

- Sharing lecture on Sustainability Science :

- University alliances:

1. Hokkaido University, Japan
2. Zhejiang University, China
3. National Cheng Kung University,
Taiwan
4. International Institute of Water and
Environmental Engineering,
Burkina Paso
5. The University of Palangka Raya,
Indonesia



Undergraduate lectures

Date	Lecturer	Affiliation	Theme
Apr 19, 2011	N. Tanaka	HU (Sapporo)	Introduction to Sustainability
Apr 26, 2011	Z. Ye	ZU	Chinese Ecological Agriculture (CEA)
May 10, 2011	Y. Fukushima	NCKU	Life Cycle Assessment (LCA)?
May 24, 2011	S. Gumiri	UNPAR	Water Issues
May 31, 2011	Ali	UGM	The Life Cycle of Trees
Jun 7, 2011	M. Guizani	HU (Sapporo)	A global perspective on water re-use and sanitation
Jun 14, 2011	T. Masubuchi	HU (Sapporo)	Corporate Social Responsibility?
Jun 21, 2011	A. Chittenden	HU (Sapporo)	An Introduction to Energy

Course Lecturers

Noriyuki Tanaka

Prof. Noriyuki Tanaka is a Geochemist and Environmental Scientist. He is the Vice-Director of CENSUS, Hokkaido University.



This lecture introduces the basic concepts of sustainability. In this lecture the basic framework of sustainability science (environment, society and humanity) is introduced. Significant changes in our way of thinking (think globally, act locally) are also stressed. Also, multi-angled approach and thinking are introduced to be very important and fair sharing of livelihood resources to every living creature on earth at present as well as in our future (inter-generational equity, etc.) is also elaborated.

Xujun Ye

Dr. Ye, is an Associate Professor at the School of Biosystems Engineering and Food Science at Zhejiang University, China.



This lecture introduces the concept and principles of Chinese Ecological Agriculture (CEA). Giving examples, Dr. Ye will discuss how CEA projects are organized, as well as outline the significant benefits achieved by the launching of appropriate CEA projects in China's rural areas. Finally, the prospects of Chinese Ecological Agriculture as a holistic approach to sustainable agriculture and rural development in China are discussed.

Yasuhiro Fukushima

Dr. Fukushima is an Associate Professor at the Department of Environmental Engineering at National Cheng Kung University, Taiwan.



In this lecture, I would like to discuss how to evaluate the impact of new technologies using life cycle assessment (LCA). Conventionally, LCA is used for evaluating environmental impacts associated with a product. Calculation of "carbon footprint", "water footprint", "ecological footprint", all uses life cycle thinking. However, when we discuss how new technology will influence the way we consume products, we need to consider more. What? How? I would like to introduce that with some example.

Sulmin Gumiri

Professor Gumiri is a lecturer in the Department of Aquatic Resource Management at the University of Palangka Raya, Indonesia.



This lecture will review the importance of water for human life, exploring the relationships between water and sustainable development, hydrologic cycle and water distribution, and also water availability and use. Students will be exposed to existing global water issues including water shortages, water pollution and potential water conflicts. Ways of addressing global water issues will also be discussed.

- UNESCO e-learning course on Sustainability Science :

- Student attendees:

1. The Chinese University of Hong Kong
2. BAPPENAS, Indonesia
3. Central Bicol State of Agriculture, Philippines
4. Kathmandu /Tribhuvan University, Nepal
5. Naga City Central Bicol State University of Agriculture, Philippines
6. Università degli Studi di Bergamo, Italy
7. Universitas Negeri Yogyakarta, Indonesia
8. Utrecht University
9. University Kebangsaan, Malaysia
10. University of Malaya
11. Clean Energy, Nepal
12. Multimedia University, Malaysia
13. National Pingtung University of Science and Technology, Taiwan
14. Bangladesh
15. Habitat for Humanity, Indonesia
16. Water supply and sanitation specialist, Nepal



Lecture themes:



United Nations
Educational, Scientific and
Cultural Organization



UNESCO e-Learning Course on SUSTAINABILITY SCIENCE

Sustainability Science course is developed under Comprehensive Programme to Enhance, Technology, Engineering and Science Education (COMPETENCE) to enhance awareness in Sustainability Science.

The course will be delivered every 12:30-14:00 PM (GMT+9), except on Jan 31 and Feb 9, 2012

For registration, please visit:
www.connect-asia.org

19/01/2012 (Thu)

THEME 1: INTRODUCTION

Prof. Motoyoshi Ikeda, Hokkaido University (JAPAN)

*Overview of the current status, Generation Equity
Concept of Sustainability Science*

24/01/2012 (Tue)

THEME 2: WATER RESOURCES MANAGEMENT

Prof. Sulmin Gumiri, Palangka Raya University (INDONESIA)

*Hydrology and Water Resources, Water Resource Management and Water Issues
Water Management in Sanitation
Water Resources for Ecosystem and Food Security*

25/01/2012 (Wed)

THEME 3: ENERGY

Prof. Rowlands, Swinburne University of Technology (AUSTRALIA)

Nuclear Energy; Solar Energy; Wind, Water, Geothermal

26/01/2012 (Thu)

THEME 4: HEALTH AND WELL-BEING

Dr. Zainal Abidin Sanusi, Universiti Sains Malaysia (MALAYSIA)

*Key Issues in Health and Well-Being
Challenges in Developing Countries
Environment and Health Sciences in Developed Countries*

30/01/2012 (Mon)

THEME 5: FOOD SECURITY

Anthony R. Chittenden, Hokkaido University (JAPAN)

*Introduction on What is Food Security
Improvement of Productivity and Land Management
Fisheries and Ocean Governance
Safety, Availability and Consumption*

Lecture themes (contonued ...)

Contact:

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Marlin Tambowon
Engineering Science & Technology Unit
UNESCO Office, Jakarta
ml.tambowon@unesco.org
www.unesco.org/Jakarta

31/01/2012 (Tue) - 10:00 - 11:30 AM (GMT+9)

THEME 6: NATURAL RESOURCES MANAGEMENT

Dr. Gaku Ishimura, Hokkaido University (JAPAN)

General Concept of Natural Resources, Tragedy of Commons

Prof. Dwikorita Kamawati, Gadjah Mada University (INDONESIA)

Case Study Carried Out for Indonesia

Impact Assessment and Evaluation

01/02/2012 (Wed)

THEME 7: CLIMATE CHANGE

Prof. Young-Shin Park, Chosun University (SOUTH KOREA)

Climate Change and Mechanism

Impacts of Climate Change

Global Climate Change & Public Policy, Climate Change & Conflict,

International Relationship & Global Change

06/02/2012 (Mon)

THEME 8: LOSS OF BIODIVERSITY

Prof. Masahide Kaeriyama, Hokkaido University (JAPAN)

Concept of Biodiversity, Biomass and Diversity in Marine

Ecosystems with Their Services

Geographic Pattern of Terrestrial Ecosystems and Biodiversity

09/02/2012 (Thu) - 11:00 - 12:30 AM (GMT+9)

THEME 9: CONCLUDING IDEAS AND ADDITIONAL THEMES

Prof. Motoyoshi Ikeda, Hokkaido University (JAPAN)

Review of the Themes, Sustainability Science toward Suggestion to Society

Governance for Environmental Sustainability

Cultural Value Conservation



Japan
Funds-in-Trust

• ECOSUS: Education Course of Sustainability

- Participants:

1. Hokkaido University, Japan
2. Tokyo University of Agriculture, Japan
3. Zhejiang University, China
4. National Cheng Kung University, Taiwan
5. Institute of Water and Env. Engineering, Burkina Paso
6. The University of Palangka Raya, Indonesia
7. Gajah Mada University, Indonesia
8. Bogor Agricultural University, Indonesia
9. Mulawarman University, Indonesia
10. Lambung Mangkurat University, Indonesia
11. Local Government of Central Kalimantan Province
12. City of Palangka Raya office



OTHER EXISTING PROGRAMS

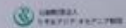
1. Symposium on forest and water conservation

- Sponsor : Resona Foundation for Asia Pacific
- Purpose : Educating future leader and school teachers
- Participants : Students of Faculty of agriculture and Faculty of Education
- Activities : Lectures, Panel discussion





**WELCOME TO
SYMPOSIUM ON FOREST AND WATER ENVIRONMENT CONSERVATION FOR
UNIVERSITY STUDENTS**
Faculty Of Agriculture, University Of Palangka Raya
3rd September 2013



Supported by
Resona Foundation For Asia and Oceania

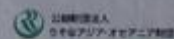
progress to date

- 2009
 - Inventory and Mapping of Wetland Ecosystem
- 2010
 - Design Model of Conservation - Culture Based Fisheries
- 2011
 - Capability Evaluation of Aquaculture Infrastructure
 - Social Fish Culture Trip
- 2012
 - Aquaculture Management Training
 - Aquaculture Policy Implementation, Fish Farming
- 2013
 - Social Fish Breeding
 - Fish Culture for Mass Production



WELCOME TO SYMPOSIUM ON FOREST AND WATER ENVIRONMENT CONSERVATION FOR UNIVERSITY STUDENTS

Faculty Of Agriculture, University Of Palangka Raya
3rd September 2013



Supported by
Resona Foundation For Asia and Oceania

thank you





2. Workshop

- Sponsor : Resona Foundation for Asia Pacific
- Purpose : Educating future generation
- Participant : Primary schools students, teachers and villagers
- Activities : Playing, singing, painting and Practicing









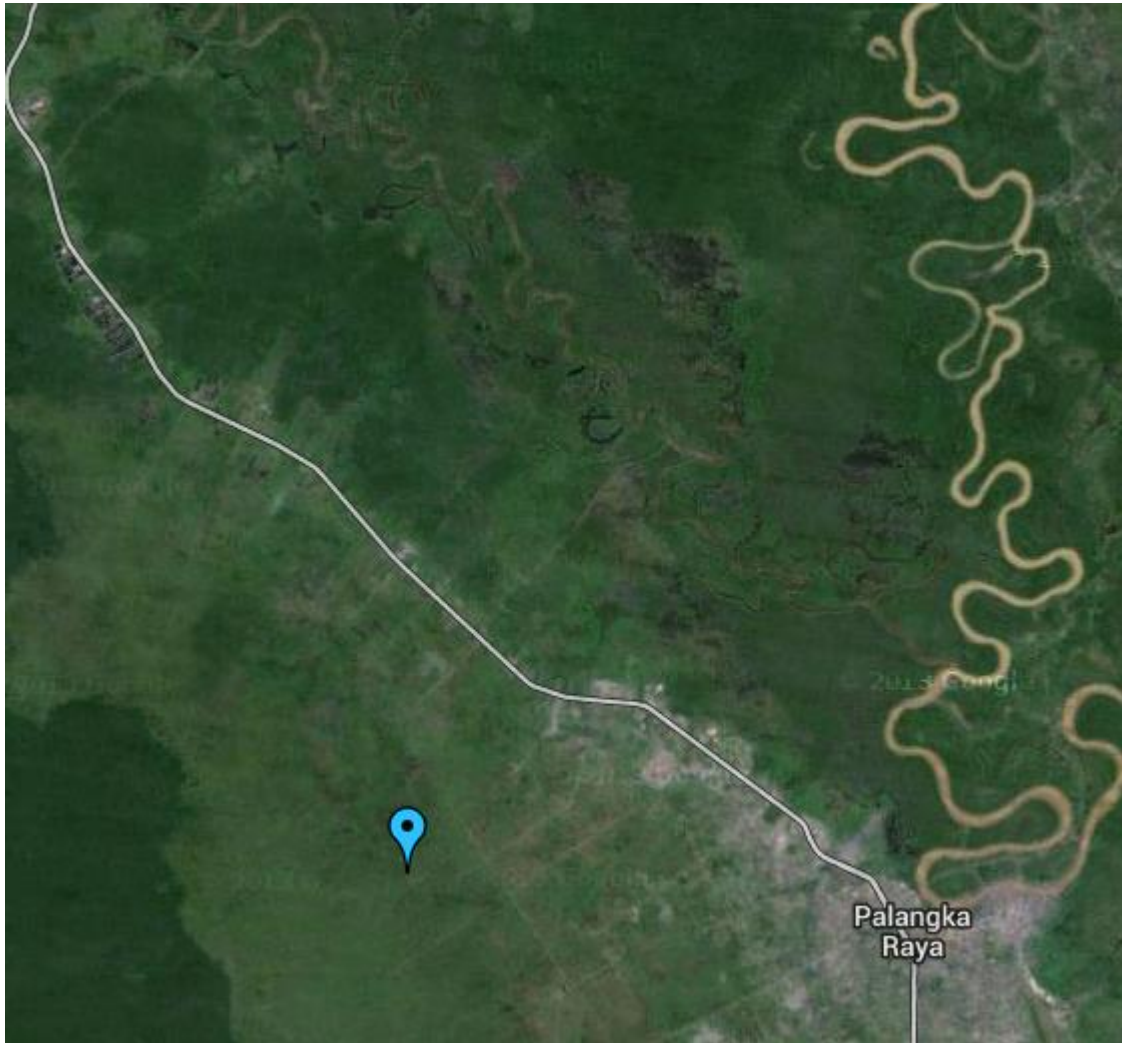


FUTURE PROGRAMS

Promoting Eco-village

- Purpose : Promoting Green Development
- Site : Petuk Katimpun Village
- *Collaborator* : Local Government Agencies
- Funding : - Mayor of Palangka Raya City,
- Resona Foundation for Asia Pacific
- Activities : Conservation, eco-tourisms and
community empowerment by
promoting small scale enterprises

Jungle River Cruise in Palangka Raya





Cultured Based Fishery



LOCAL FISH HATCHERY TRAINING FOR FISHERMEN

