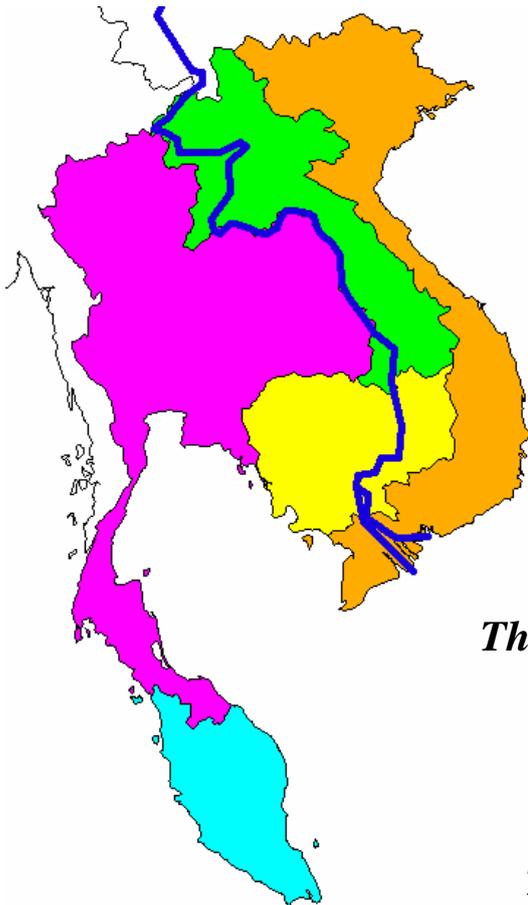




**The University Network for Wetland Research and Conservation
Trainings in the Mekong Region**



90th Anniversary of
Chulalongkorn University

REPORT

The 6th Regional Training Course on

**“WETLAND ECOLOGY
AND MANAGEMENT IN
THE LOWER MEKONG BASIN”**

11-30 May 2008

By

**Chulalongkorn University
Bangkok, Thailand**



The 6th Training Course in 2008 :

1. TRAINING PROVIDER

Name of Host Organisation :

Chulalongkorn University, Thailand

Address:

Biology Department, Faculty of Science, Chulalongkorn University,
Phayathai Road, Patumwan District,
Bangkok 10330, Thailand

Main Contact Person :

Assoc. Prof. Dr. Nantana Gajaseni, Programme leader
Tropical Ecology and Natural Resource Management Research Unit,
Department of Biology, Faculty of Science, Chulalongkorn University,
Bangkok 10330, Thailand

Phone :

++662-218-5360

Fax :

++662-218-5386

E-mail :

gnantana@chula.ac.th

21 participants and 2 observers from 11 participating universities:

1. Royal University of Agriculture (RUA), Phnom Penh, Cambodia
2. Royal University of Phnom Penh (RUPP), Phnom Penh, Cambodia
3. National University of Laos (NUOL), Vientiane, Lao PDR
4. Champasack University (CPU), Champasak, Lao PDR
5. Chulalongkorn University (CU), Bangkok, Thailand
6. Khon Kaen University (KKU), Khon Kaen, Thailand
7. Mahasarakham University (MSU), Mahasarakham, Thailand
8. An Giang University (AGU), Long Xuyen, Vietnam
9. Can Tho University (CTU), Can Tho, Vietnam
10. Nong Lam University (NLU), Ho Chi Minh City, Vietnam
11. University of Science, Vietnam National University – Ho Chi Minh City, (UNS), Ho Chi Minh City, Vietnam

2. COURSE OVERVIEW

Title of Training Course :

WETLAND ECOLOGY AND MANAGEMENT IN THE LOWER MEKONG
BASIN

Course Duration : 20 days

Provisional Dates : 11-30 May 2008

Overall Purposes :

(a) To build and enhance the capacity of university lecturers and researchers of the Mekong region in teaching wetland-related courses, conducting scientific research in wetland-related fields, and assisting wetland conservation practices; and

(b) To enhance the knowledge and understanding in wetland ecology and management of protected areas staff, junior staff of GOs, NGOs and CBOs, grass-root and community leaders and facilitators of the Mekong riparian countries and to improve their capacity in wetland conservation and management practices.

Specific Objectives :

(a) To introduce the concepts and principles of wetland ecology and management;

(b) To provide intensive academic and practical training on wetland ecosystem management, focusing on wetland biodiversity conservation in the Lower Mekong Basin;

(c) To provide in-situ training and hands-on experience in designing and conducting wetland surveys, inventory, studies, and research and in wetland conservation and management by means of field projects carried out by course participants; and

(d) To introduce education and training methodology for the design and implementation of wetland academic courses and special training for communities in wetland-related subjects.

Specific Outcomes :

The course participants will :

(a) understand the concepts and principles of wetland ecology;

(b) have knowledge on major wetland ecosystems of the Mekong region and their biodiversity;

(c) have knowledge on approaches and methods, techniques and equipments commonly used in wetland biodiversity surveys and research and wetland management;

(d) understand major issues related to wetland management in the lower Mekong basin

(e) have experience in designing and conducting wetland studies and research; and

(f) understand methods and have necessary materials to transfer knowledge on wetland ecosystems to communities and wider public, and to develop and teach wetland courses at university level.

Main Location(s) for the Training Course :

Biology Department, Faculty of Science, Chulalongkorn University will provide:

(a) Lecture rooms with audio-visual facilities;

(b) Chemistry, biology and field ecology laboratories; and

(c) Accommodations and other facilities located nearby within walking distance.

Sites for Field Work :

Huay Kum Wildlife Conservation Development and Education Center (Chaiyaphum province), Phu Khieo Wildlife Sanctuary (Chaiyaphum Province), The Mekong River, Mun River, Pak Mun Dam, Tana Rapids, Kaeng Tana National Park (Ubon Ratchathani Province).

Site visit :

Natural History Museum of Chulalongkorn University, Bangkok
 Natural Medicinal Mushroom Museum, Mahasarakham University, Mahasarakham Province

3. TRAINERS/INSTRUCTORS and AREAS OF EXPERTISE**Lead Trainers/Instructors:**

Dr. Nantana Gajaseni, Chulalongkorn University, Thailand
Dr. Sansanee Choowaew, Mahidol University, Thailand
Dr. Usa Klinhom, Mahasarakham University, Thailand
Dr. Weena Mekvichai, Chulalongkorn University, Thailand
Dr. Somsak Panha, Chulalongkorn University, Thailand
Dr. Boripat Siriaroonrat, DVM, Zoological Park Organisation, Thailand
Mr. Kobchai Worrapiumphong, Biology Department, Chulalongkorn University, Thailand
Dr. Christophe Le Page, Ecological modeler, CIRAD, Montpellier, France
Dr. Tran Triet, University of Natural Sciences, Viet Nam
Dr. Duong Van Ni, Can Tho University, Viet nam
John (Jeb) Barzen, International Crane Foundation (USA)
Dr. Stanley Ponce, Regional Executive, South Central Area, USA
Dr. Gregory Smith, Director, USGS – National Wetland Research Center, USA
Dr. Gerry Carlson, University of Louisiana, USA

4. PROGRAMME

Date	Main activity
Day 1: (May 11)	Arrivals
Day 2-8: (May 12-18)	Lecture courses at Chulalongkorn University, BKK
Day 9-12: (May 19-22)	Field trip I: Huai Kum Wildlife Conservation Development and Education Centre, Chaiyaphum Province
Day 13-15: (May 23-25)	Field trip II: The Mekong River, Mun River, Pak Mun Dam, Tana Rapids, Kaeng Tana National Park, Ubon Ratchathani Province
Day 16-20: (May 26-30)	Group work/ project presentation/ and seminar at Chulalongkorn University, BKK
Day 1: (May 11)	Arrivals
ABBR.	Building
SSN	Suksit Nives International House
GRTB	2 nd Floor, Gem Research and Testing Building (GRTB), Faculty of Science, CU
KVB	Room 103, Klum Vajcharobol Building (KVB), Faculty of Science, CU
TAB	Computer room, Tab Building (TAB), Faculty of Science, CU
Bio I	Room 224, Biology I Building (Bio I), Faculty of Science, CU

Date/Time	Details	Instructors	Remarks
Day 1: Sunday (May 11)			
17.00	Arrival of participants: Course syllabus and training document delivery	Staff	SSN
Day 2-8: (May 12-18) (Lecture courses at Chulalongkorn University, BKK)			
Day 2: Monday (May 12) (Lecture)			
08.00 – 09.00	Registration (Please prepare bus ticket, receives, boarding pass or etc. to claim for your reimbursement.)	Staff	2 nd Floor, GRTB
09.00 – 09.10	Opening Remark by Assoc. Prof. Dr. Kumthorn Tirakhupt, Head of Biology Department, Faculty of Science	Nantana Gajaseni	2 nd Floor, GRTB
09.10 – 09.30	Welcoming Remark by Asst. Prof. Dr. M.R. Kalaya Tingsabath, Vice President of Academic Affairs		
09.30 – 09.40	Photo Session	Staff	
09.40 – 10.00	<i>Coffee break</i>		
10.00 – 10.30	Orientation/ Open-house <ul style="list-style-type: none"> Introduction of participants, instructors, staff, logistics Review of the wetland activities of the member universities and alumni of the network after the 5th Training Course in Vietnam 2007 	Nantana Gajaseni	
10.30 – 12.15	Topic 1: Wetland ecosystem: definitions, structure and function; identification, delineation, classification, inventory, monitoring	Nantana Gajaseni	
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Topic 2 : Wetland hydrology	John Barzen	2 nd Floor, GRTB
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Topic 2 (Continued)	John Barzen	
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB
Day 3: Tuesday (May 13) (Lecture)			
08.00 – 08.30	Short presentation on assignment/ Question hour	Lecturers and staff	2 nd Floor, GRTB
08.30 – 10.30	Topic 3 : Wetland soils & biogeochemistry	Duong Van Ni	
10.30 – 10.45	<i>Coffee break</i>		
10.45 – 12.15	Topic 3 (Continued)	Duong Van Ni	
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Topic 4 : Wetland ecosystem: Structure, function and development	Nantana Gajaseni	2 nd Floor, GRTB
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Topic 4 (Continued)	Nantana Gajaseni	
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB

Date/Time	Details	Instructors	Remarks
Day 4: Wednesday (May 14) (Lecture)			
08.00 – 08.30	Short presentation on assignment/ Question hour	Lecturers and staff	2 nd Floor, GRTB
08.30 – 10.30	Topic 5: Wetland biota (I. Plants)	Tran Triet	
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.00	Wetland biota (I. Plants) (Continued)	Tran Triet	
12.00 – 13.00	<i>Lunch</i>		
13.00 – 15.00	Topic 5: Wetland biota (II. Plankton)	Nantana Gajaseni	2 nd Floor, GRTB
15.00 – 15.15	<i>Coffee break</i>		
15.15 – 16.30	Wetland biota (II. Plankton) (Continued)	Nantana Gajaseni	
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB
Day 5: Thursday (May 15) (Lecture)			
08.00 – 08.30	Short presentation on assignment/ Question hour		2 nd Floor, GRTB
08.30 – 10.30	Topic 6 : Wetland birds (ecology & habitats analysis), • Efforts to reintroduce Eastern Sarus Crane back to the nature	John Barzen	
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.15	Topic 7 : Birds in wetland ecosystem	Wina Meckvichai	
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Topic 8 : Wetlands and Avian Influenza	Boripat Siritroonrat	2 nd Floor, GRTB
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Topic 8 (Continued)	Boripat Siritroonrat	
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB
Day 6: Friday (May 16) (Lecture)			
08.00 – 08.30	Short presentation on assignment/ Question hour		
08.30 – 10.30	Topic 9: Wetland management particularly computer modeling by case studies	Christophe Le Page	2 nd Floor, GRTB
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.15	Topic 9 (Continued)	Guy Trebuil Nantana Gajaseni Kobchai Worrapiumphong	
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Topic 9 (Continued): Computer laboratory practices • E-learning on Natural Resources Management • Companion modeling case study of Don Hoi Lord Ramsar site	Christophe Le Page Guy Trebuil Nantana Gajaseni Kobchai Worrapiumphong	Computer room, TAB

Date/Time	Details	Instructors	Remarks
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Topic 9 (Continued)		
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB
Day 7: Saturday (May 17) (Lecture)			
08.00 – 08.30	Short presentation on assignment/ Question hour	Lecturers and staff	Room 224, Bio I
08.30 – 10.30	Topic 10: Values and valuation of wetlands	Sansanee Choowaew	
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.15	Topic 10 (Continued)		
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Topic 11: Wetland communication, education and public awareness.	Usa Klinhom	Room 224, Bio I
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Topic 11 (Continued)		
Evening hour	Assignment and take home exercise (individual or group work), problem reviews.		Room 103, KVB
Day 8: Sunday (May 18) (Field trip preparation)			
08.00 – 08.30	Short presentation on assignment/ Question hour	Lecturers and staff	
08.30 – 09.30	<ul style="list-style-type: none"> • Field trip arrangement • The narrative of field places <ol style="list-style-type: none"> 1) Huai Kum Wildlife Conservation Development and Education Center, Chaiyaphum; 2) Pak Moon Dam, Tana Rapids, Kaeng Tana National Park (Ubon Ratchathani) 	Lecturers and staff	Room 103, KVB
09.30 – 10.30	Field trip arrangement <ol style="list-style-type: none"> 1) Group division 2) Briefing on field projects and assignments (Four aspects: Soil, water, biodiversity and socio-economic) 		
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.15	Field trip instruments and materials checking	Lecturers and staff	Room 103, KVB
12.15	<i>Lunch/ Free time</i>		
Evening hour	Luggage wrapping/ / preparing to move tomorrow morning		SSN
Day 9-12: (May 19-22) (Field trip I): Field trip I at Huai Kum Wildlife Conservation Development and Education Center (HK-WCDEC), and at Phu Khieo Wildlife Sanctuary (PK-WS), Chaiyaphum province (~350 km. far)			
Day 9: Monday (May 19): (Field trip I)			
06.00	Departure from Bangkok to HK-WCDEC	Nantana Gajaseni Duong Van Ni	Luggage depositing at SSN and key room return before
08.00 - 09.00	<i>Breakfast</i> at Muaklek Saraburi	John Barzen Sansanee	

12.30 – 01.45	<i>Lunch</i> at Chaiyaphum	Choowaew Boripat	leaving
14.00	Arrival & check in at HK-WCDEC	Siriaronrat Staff	
14.30 – 16.00	Welcome brief by Mr. Kriengsak Jaturasooksakul, Head of HK-WCDEC	Mr. Kriengsak Jaturasooksakul	
18.00	<i>Dinner</i>		
19.00	<ul style="list-style-type: none"> Group discussion and preparation of field survey Short presentation on tomorrow work (of your own group) 		
Day 10: Tuesday (May 20): (Field trip I)			
07.00	<i>Breakfast</i>		Preparing lunch box and drink
08.00	Field survey by 4 assigned groups (<i>Lunch</i> in field)	Lecturers and staff	
18.00	<i>Dinner</i>		
19.00	<ul style="list-style-type: none"> Short presentation on the results of today survey and tomorrow work (of your own group) Data analysis/ group discussion/ and report development 		
Day 11: Wednesday (May 21): (Field trip I)			
07.00	<i>Breakfast</i>		Preparing lunch box and drink
08:00	Field survey (continued) (<i>Lunch</i> in field)	Lecturers and staff	
18.00	<i>Dinner</i>		
19.00	<ul style="list-style-type: none"> Short presentation on the results of today survey and tomorrow work (of your own group) Data analysis/ group discussion/ and report development 		
Day 12: Thursday (May 22): (Field trip I)			
07.00	<i>Breakfast</i>		Preparing lunch box and drink
08.00	Departure from HK-WCDEC to PK-WS		
09.00 – 09.45	Welcome brief by Dr. Kanchana Nittaya Head of PK-WS	Dr. Kanchana Nittaya	
10.00 – 11.30	Briefing on the “Wildlife Management: Reintroduction Programme” by Chief Assistant of PK-WS	Mr. Mongkol Kumsuk	
12.00 – 13.00	<i>Lunch</i>		
13.30 -17.00	Natural trail study at PK-WS	Phu Khieo staff	
18.00	<i>Dinner</i>		
19.00	<ul style="list-style-type: none"> Short presentation on the results of natural trail study Data analysis/ group discussion/ and report development 		Lecturers and staff
Night time	Luggage wrapping/ preparing to move tomorrow morning		
Day 13-15: (May 23-25) (Field trip II):			
Field trip II at Kaeng Tana National Park (KT-NP), Ubon Ratchathani province (~520 km. far)			
Day 13: Friday (May 23): (Travel from HK-WCDEC, Chaiyaphum to KT-NP, Ubon Ratchathani			

Date/Time	Details	Instructors	Remarks
06.30	<i>Breakfast</i>	Lecturers and staff	Returning key before leaving
07.30	Departure from HK-WCDEC to KT-NP		
12.30 – 13.30	<i>Lunch</i> at Buri Ram province		
17.00	Check in at KT-NP Guesthouse		
18.30	<i>Dinner</i>		
19.30	Discussion and experience exchange among groups/ people at Pak Mun Dam/ and wetland alumni		
Day 14: Saturday (May 24): (Field trip II)			
07.00	<i>Breakfast</i>		
08:00 – 12.00	Briefing on the “Environmental Condition of Mun River: Before and after Pak Mun Dam Construction” by Mr. Wachira Kwang-khwang, Head of Fisheries Research and Development Centre (FRDC), Pak Mun Dam	Mr. Wachira Kwang-khwang	
12.00 – 13.00	<i>Lunch</i>		
13.00 – 15.00	Visit Pak Mun Dam	Pak Mun Staff	
15.30	Visit Kaeng Tana Rapids and Welcome brief by KT-NP staff	KT-NP staff	
18.00	<i>Dinner</i>		
19.00	<ul style="list-style-type: none"> Group discussion on the results of Field trip II Luggage wrapping/ preparing to move tomorrow morning 		
Day 15: Sunday (May 25): (Travel back from Ubon Ratchathani to BKK) (~709 km. far)			
07.00	<i>Breakfast</i>	Lecturers and staff	Returning key before leaving
08.00	Departure from KT-NP to BKK.		
12.00	<i>Lunch</i> at Buri Ram Province		
19.00	Arrival to BKK and check-in at SSN		
Day 16-20: (May 26-30) (Group work/ presentation and seminar at CU)			
Day 16: Monday (May 26) (Group work)			
08.00 – 10.30	Special lecture: Wetland biota (Mollusk)	Somsak Panha	Room 103, KVB
10.30 – 10.45	<i>Coffee break</i>	Lecturers and staff	
10.45 – 12.15	Group discussion on the results of field survey and data analysis		
12.15 – 13.30	<i>Lunch</i>		
13.30 – 14.45	Group work continued.		
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Group work continued.		
Evening hour	Group work continued.		
Day 17: Tuesday (May 27) (Group work)			
08.00 – 10.30	Group work continued.	Lecturers and staff	Room 103, KVB
10.30 – 10.45	<i>Coffee break</i>		
10.45 – 12.15	Group work continued.		
12.15 – 13.15	<i>Lunch</i>		

Date/Time	Details	Instructors	Remarks
13.15 – 14.45	Group work continued.		
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Group work continued.		
Evening hour	Group work continued		
Day 18: Wednesday (May 28) (Presentation day: Group work presentation/ questions)			
08.00 – 09.00	Preparation for presentation	Lecturers and staff	2 nd Floor, GRTB
09.00 – 10.30	Group 1 (1.5hr)		
10.30 – 10.45	<i>Coffee break</i>		
10.45 – 12.15	Group 2 (1.5hr)		
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	Group 3 (1.5hr)		
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	Group 4 (1.5hr)		
Evening hour	Report writing/ revision and correction		
Day 19: Thursday (May 29) Seminar on “Wetlands in the US”			
08.30 – 10.30	<ul style="list-style-type: none"> Wetlands in the Mississippi River Delta From Science to Policy, Planning & Decision Making 	USGS team: Dr. Stanley Ponce, Dr. Gregory Smith, Dr. Gerry Carlson	2 nd Floor, GRTB
10.30 - 10.45	<i>Coffee break</i>		
10.45 – 12.15	<ul style="list-style-type: none"> Protection and Restoration of wetlands in the Mississippi River Delta 	USGS team:	2 nd Floor, GRTB
12.15 – 13.15	<i>Lunch</i>		
13.15 – 14.45	<ul style="list-style-type: none"> GIS & Remote Sensing Technology and Applications in wetland research and management 	USGS team:	2 nd Floor, GRTB
14.45 – 15.00	<i>Coffee break</i>		
15.00 – 16.30	<ul style="list-style-type: none"> Vulnerability, impacts, preparedness, mitigation, adaptation The Delta Research And Global Observation Network 		
Evening hour	Report writing/ revision and correction	Lecturers and staff	Room 103, KVB
Day 20: Friday (May 30) Closing day			
08.30 – 10.30	<ul style="list-style-type: none"> Training course evaluation Report submission (soft file and hard copy) 	Lecturers and staff	2 nd Floor, GRTB
10.00 - 10.15	<i>Coffee break</i>		
10.15 – 12.00	Certificates Delivery and closing ceremony by Prof. Dr. Supot Hannongbua, Dean of Faculty of Science	MC: Nontivich Tandavanitj	
12.00 – 14.00	<i>Lunch and Farewell party</i>		
Day 21: Saturday (May 31) Departure from Chulalongkorn University			

5. TRAINING METHODS

- (a) In-class lectures, key concepts;
- (b) In-situ training, hands-on observations and exercises;
- (c) Developing essential technical skills such as field survey, measurement, inventory, assessment, monitoring, participatory rural appraisal (PRA), interview, facilitating techniques, team work, group discussion, oral presentation, report writing, conceptualizing research concept; and
- (d) Encouraging active participation from trainees and sharing experience through activities such as brain-storming, group discussion, presentation, workshop

6. REPORT OF ACTIVITIES

The official opening ceremony was conducted in the spirit of Thai culture which Associate Professor Dr. Kumthorn Teerakupt, Head of Biology Department, Faculty of Science, Chulalongkorn University reported on the development of the University Network for Wetland Research and Conservation Trainings in the Mekong Region and the previous trainings. After that Assistant Professor Dr. M.R. Kalaya Tingsabadh, Vice-president for Academic, Chulalongkorn University presented the warm welcoming speech to all delegates from five countries in Mekong Region as well as the quest lecturers from Viet Nam and USA and also took a group photo with all delegates.



Figure 1: Group photo at the opening ceremony on 12 May 2008.



Figure 2: Atmosphere in the lecture room between quest lecturers and the head of Biology Department.



Figure 3: Atmosphere in the lecture room at Biology Department



Figure 4: Soil survey at Tung Lui Lai reservoir, Chaiyaphum Province



Figure 5: Hydrological study at Tung Lui Lai reservoir, Chaiyaphum Province



Figure 6: Biodiversity study at Tung Lui Lai reservoir, Chaiyaphum Province



Figure 7: Aquatic plants identification at the Huai Kum Wildlife Conservation Development and Education Center (HK-WCDEC)



Figure 8: Plankton identification and counting



Figure 9: Activities during the night



Figure 10: Dinner time with a local food



Figure 11: Group discussion after dinner



Figure 12: Visit Phu Khieo Wildlife Sanctuary (PK-WS), Chaiyaphum Province



(A)



(B)

Figure 13: Group photo during visit (A) Phu Khieo Wildlife Sanctuary (PK-WS), and (B) Kaeng Ta Na National Park



Figure 14: Departure to Kaeng Tana National Park (KT-NP), Ubon Ratchathani province



Figure 15: Briefing the situation of Pak Mun Dam before visit and Head of Fishery Unit presenting the situation of Pak Mun Dam, Ubol Ratchathani, Province



Figure 16: Fish survey at Pak Mun Dam, Ubol Ratchathani Province



Figure 17: Boat trip in Mekong River between Thai and Laos border



Figure 18: Special lecture by Dr. Stanley Ponce at Faculty of Science, Chulalongkorn University

After all trainees came back from the field trip on Sunday 25 May, each group had to analyse their field data and prepare the group report for submission, even that each group had to give the presentation on 28 May. On 30 May 2008, Professor Dr. Somsak Panha, Vice-Dean for Research, Faculty of Science, gave the closing remark and delivered the certificate to all trainees.

Evaluation Report
Of
The 6th Regional Training Course on
Wetland Ecology and Management in the Lower Mekong Basin
At
Chulalongkorn University, Bangkok
11-30 May 2008

During the 20-day training at Chulalongkorn University and in northeastern Thailand near the Mekong River, the 21 trainees and 2 observers participated and 19 of them involved in training evaluation in which the themes of organization, logistics, academic training in class and in field were mainly indicated in the summary as follows:

Keys of Evaluation	Need improvement	Fair	Good	Very good	Excellent
1. <u>Course session:</u>					
1.1 course structure and schedule	0	10.5	21.1	52.6	10.5
1.2 proportion of theory and practice	5.3	5.3	31.6	36.8	15.8
1.3 course length	5.3	21.1	21.1	47.4	5.3
1.4 course content of lecture session	5.3	0	31.6	31.6	31.6
1.5 course content of the quest speaker session	5.3	10.5	31.6	36.8	15.8
1.6 course content of field trip I at HK-WCDEC, Chaibabum province	0	10.5	21.1	31.6	31.6
1.7 course content of field trip II at KT-NP, Ubon Ratchathani province	0	10.5	21.1	47.4	21.1
2. <u>Workshop session:</u>					
2.1 Workshop session	5.3	5.3	10.3	57.9	5.3
2.2 Overall course contents/subject cover	0	15.8	15.8	42.1	10.5
2.3 Key lecturers	0	10.5	5.3	42.1	42.1
2.4 Invited lecturers	5.3	5.3	21.1	42.1	26.1
2.5 Delivery methods/styles/techniques	0	5.3	21.1	52.6	15.8
2.6 Delivery tools/audio-visual equipments	0	10.5	31.6	31.6	21.1
2.7 Facilities provided and technical assistance	0	5.3	26.3	42.1	21.1
2.8 Course background information	0	10.5	26.3	47.4	15.8
2.9 Lecture notes	0	10.5	15.8	63.2	10.5
2.10 In-class exercise	5.3	0	31.6	47.4	10.5

2.11 Assignments/homeworks	5.3	5.3	31.6	42.1	15.8
2.12 Reading materials	0	15.8	36.8	31.6	15.8
2.13 Opportunity for participation	0	10.5	15.8	47.4	26.3
2.14 Interactions between trainees and trainers	0	5.3	15.8	26.3	52.6
2.15 Interactions among trainees	0	10.5	15.8	57.9	15.8
2.16 Classroom environments	0	5.3	15.8	36.8	42.1
2.17 Groupwork environments	5.3	0	26.3	47.4	21.1
2.18 Class size (number of trainees)	0	5.3	21.1	31.6	26.8
2.19 Accommodations	10.5	5.3	15.8	42.1	21.1
2.20 Meals/refreshments	0	0	26.3	42.1	26.3
2.21 Transportation	5.3	10.5	21.1	52.6	10.5
2.22 Social events/activities	0	21.1	31.6	31.6	15.8
2.23 Freetime/Excursions	15.8	10.5	31.6	36.8	0
2.24 Supporting staff	0	10.5	0	42.1	47.4
2.25 Overall organization	0	5.3	21.1	42.1	31.6
	Yes and can present paper on wetland work		No	Not sure	
2.26 Are you interested to attend the Alumni Conference in 2009?	73.7		10.5		5.3

The details of evaluation indicate as follows:

1. Course structure and schedule: it was appropriated and the respondents satisfied with course structure and schedule by scaling from very much up to excellent of 63%.

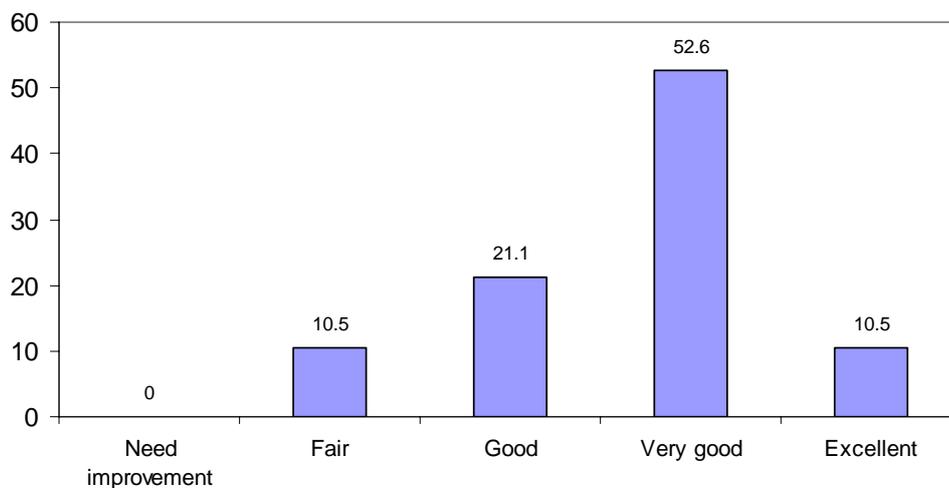


Figure 1: Evaluation of course structure and schedule

2. Proportion of theory and practice: they responded that the proportion of theory and practice is very appropriate and very good as they expected.

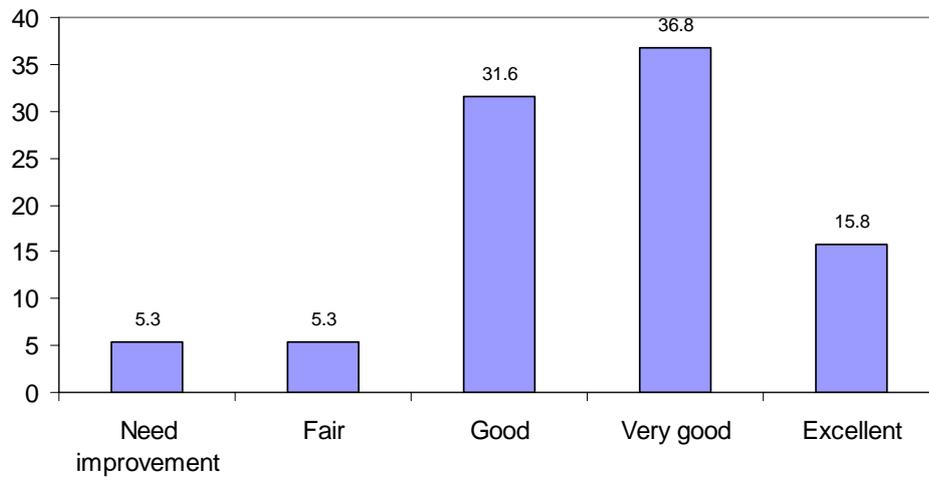


Figure 2: Evaluation of proportion of theory and practice

3. Course length: the 52.6 % of respondents evaluated that was very good and excellent duration for them to participate in the training without any obstacle regarding the teaching responsibility at their individual university.

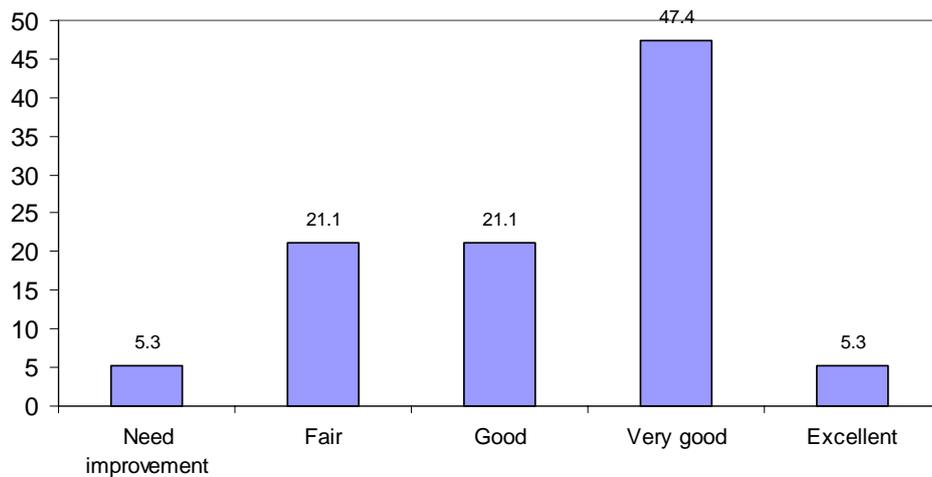


Figure 3: Evaluation of course length

4. Course contents of lecture session: most of respondents were approximately about 95% satisfied in the degree of good up to excellent as in figure 4.

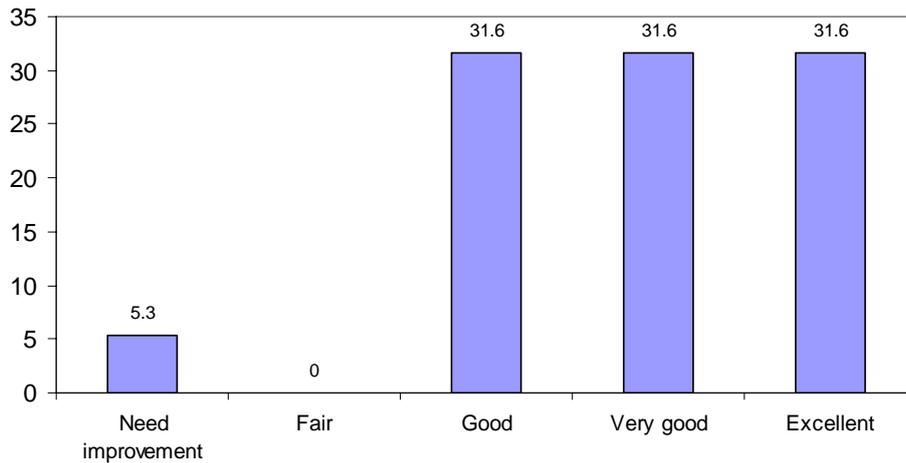


Figure 4: Evaluation of course content of lecture session

5. Course content of the quest speaker session: the 36.8% of respondents thought and satisfied with the degree of very good and the 31.6% responded as good as indicated in figure 5.

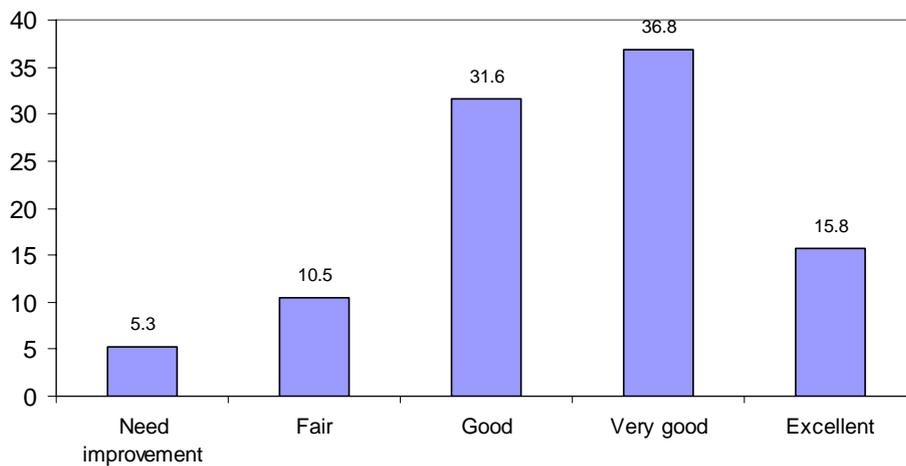


Figure 5: Evaluation of course content of the quest speaker session

6. Course content of field trip I at HK-WCDEC, Chaiyabhum province: the 63.2% of respondents satisfied with the course content during the field trip at the degree of very good up to excellent as indicated in figure 6.

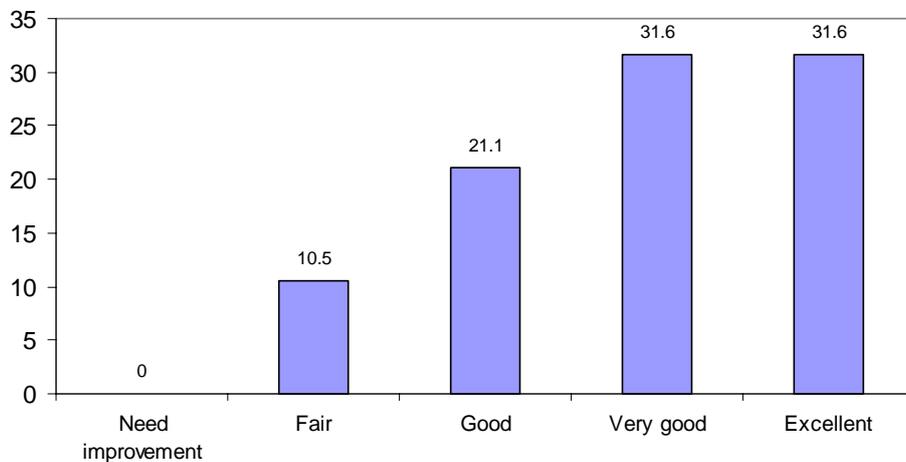


Figure 6: Evaluation of course content of field trip I at HK-WCDEC, Chaiyabhum province

7. Course content of field trip II at KT-NP, Ubon Ratchathani, province: the 47.4% of respondents felt very satisfactory and very good while the 21.1% felt excellent as indicated in figure 7.

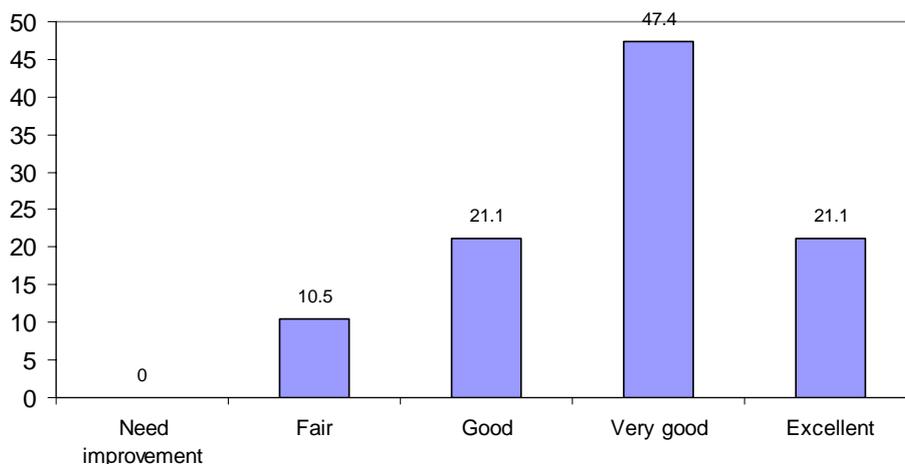


Figure 7: Evaluation of course content of field trip II at KT-NP, Ubon Ratchathani province

8. Workshop session: the 57.9% of respondents considered the workshop session be arranged in the very appropriate as in figure 8.

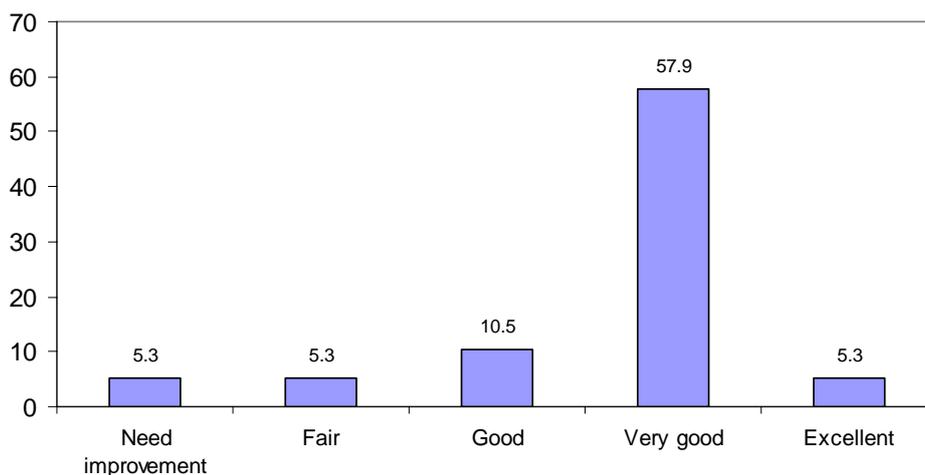


Figure 8: Evaluation of workshop session

9. Overall course contents per subject cover: The arrangement of overall course per subject cover was considered as very good arrangement by 42.1% of respondents as in figure 9.

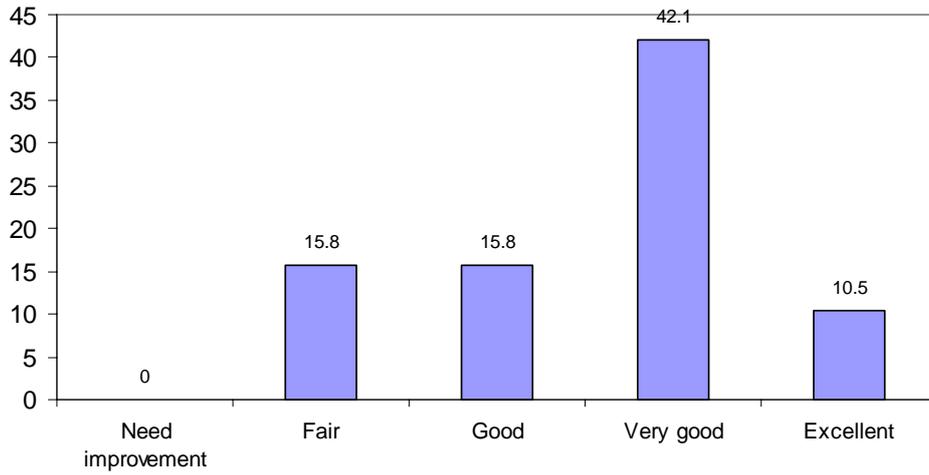


Figure 9: Evaluation of overall course contents per subject cover

10. Key lectures: the most of 84.2% of respondents agreed that the key lectures were higher very good to excellent as in figure 10.

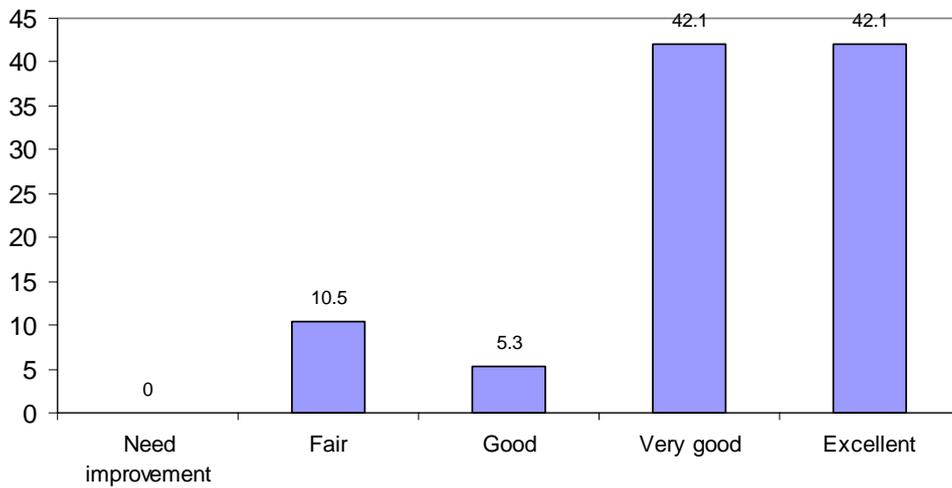


Figure 10: Evaluation of key lectures

11. Invited lecturers: the 68% of respondents considered the invited lecturers to be very good up to excellent as in figure 11.

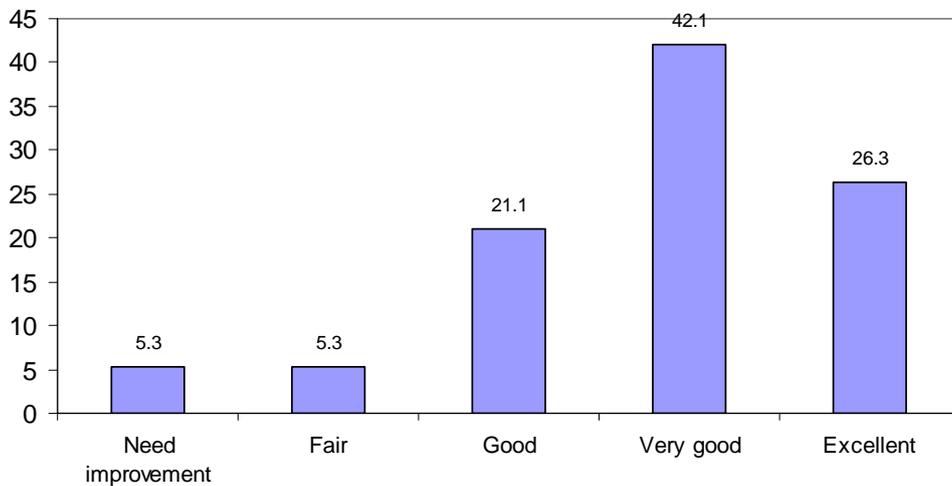


Figure 11: Evaluation of invited lecturers

12. Delivery methods/styles/techniques: the most of 68% of respondents agreed that the delivery method/styles/techniques were conducted by all lecturers to be very good up to excellent as in figure 12.

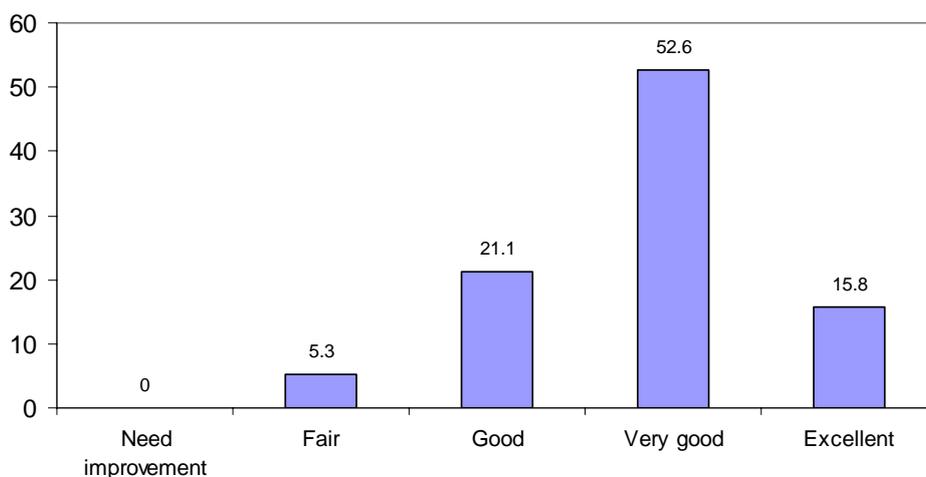


Figure 12: Evaluation of delivery methods/styles/techniques

13. Delivery tools/audio-visual equipments: the majority of respondents of 84% agreed that the quality of delivery tools/audio-visual equipments were highly qualified from good up to excellent as in figure 13.

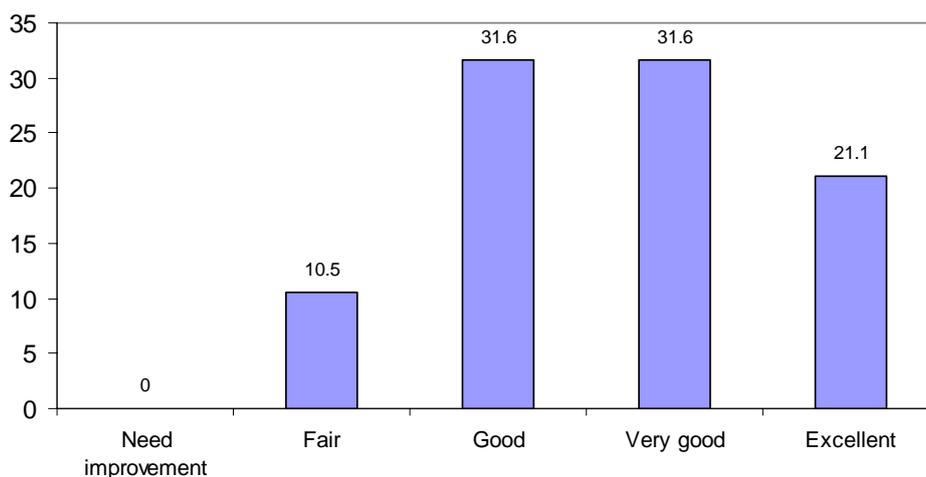


Figure 13: Evaluation of delivery tools/audio-visual equipments

14. Facilities provided and technical assistance: the 63% of respondents agreed that the facilities provided and technical assistance were above very satisfactory to excellent as in figure 14.

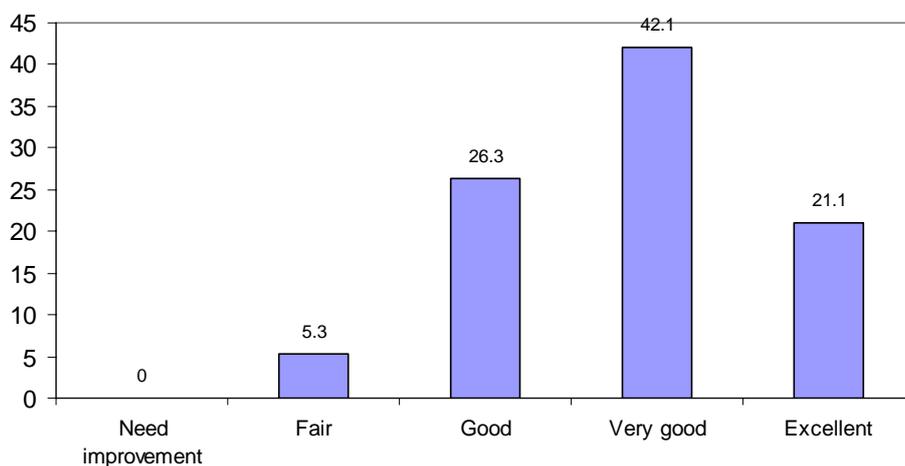


Figure 14: Evaluation of facilities provided/technical assistance

15. Course background information: the 47.4% of respondents agreed that the course background information was very good and enough to prepare the trainees to catch up with the lecture content as in figure 15.

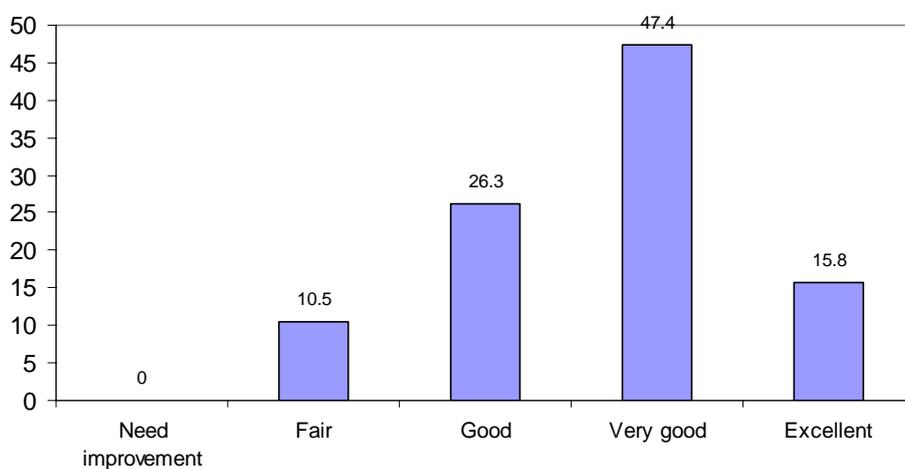


Figure 15: Evaluation of course background information

16. Lecture notes: the 63.2% of respondents were very satisfactory with the lecture notes in terms of not only content but also the quality as in figure 16.

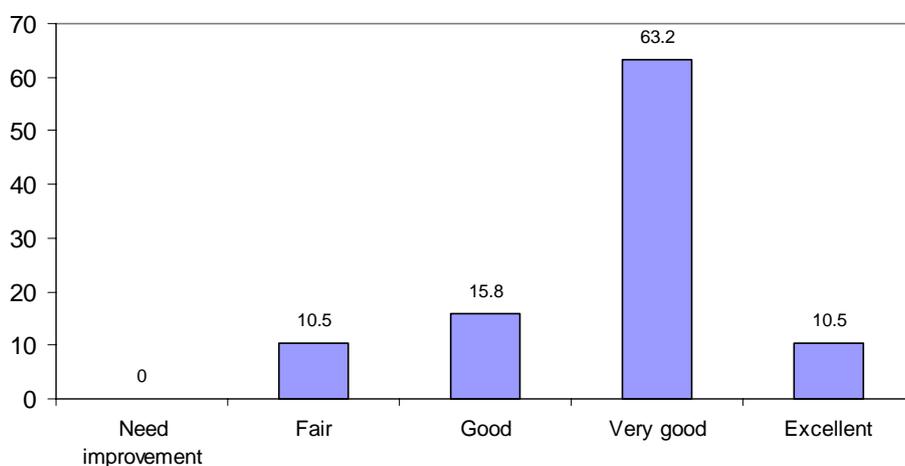


Figure 16: Evaluation of lecture notes

17. In-class exercise: the 47.4% of respondents agreed that the in-class exercise was very good and helpful for better understanding for following with the lecture as in figure 17.

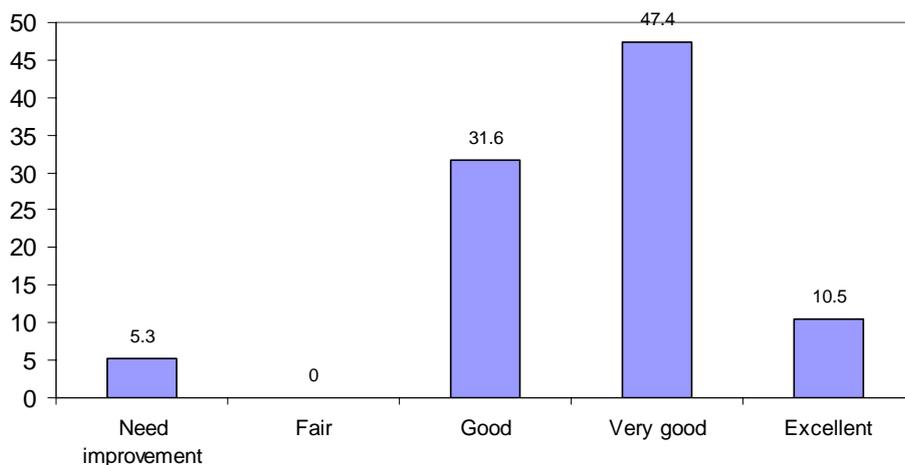


Figure 17: Evaluation of in-class exercise

18. Assignments/homeworks: the 88% of respondents agreed that the assignments/homeworks were good up to excellent for trainees to follow the lecture contents as well as create the close relationship among trainees by working as a group as in figure 18.

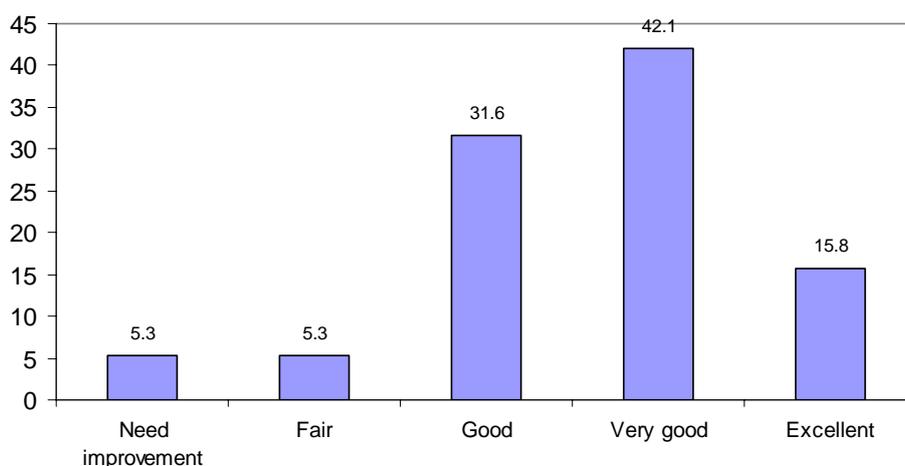


Figure 18: Evaluation of assignments/homeworks

19. Reading materials: the 36.8% felt that the reading materials were good and following by only 31.6% felt very good as in figure 19.

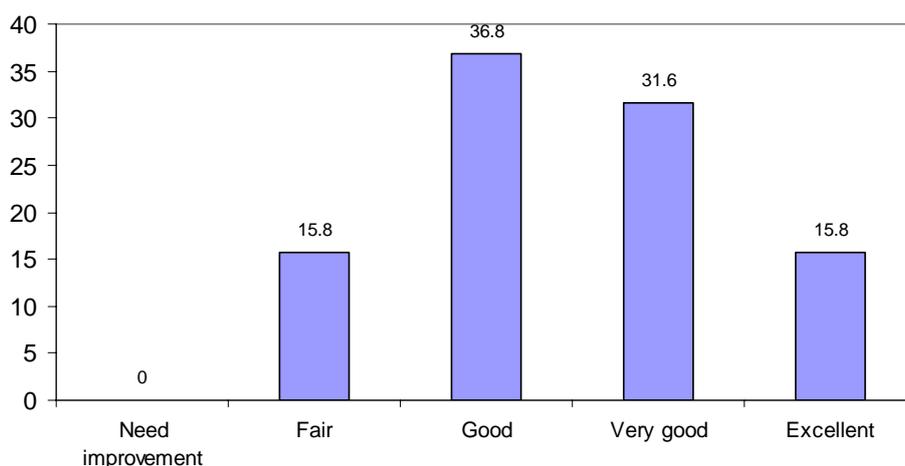


Figure 19: Evaluation of reading materials

20. Opportunity for participation: the 47.4% of respondents considered that the workshop provided the very good opportunity for participation not only during in-class but also during in-field as in figure 20.

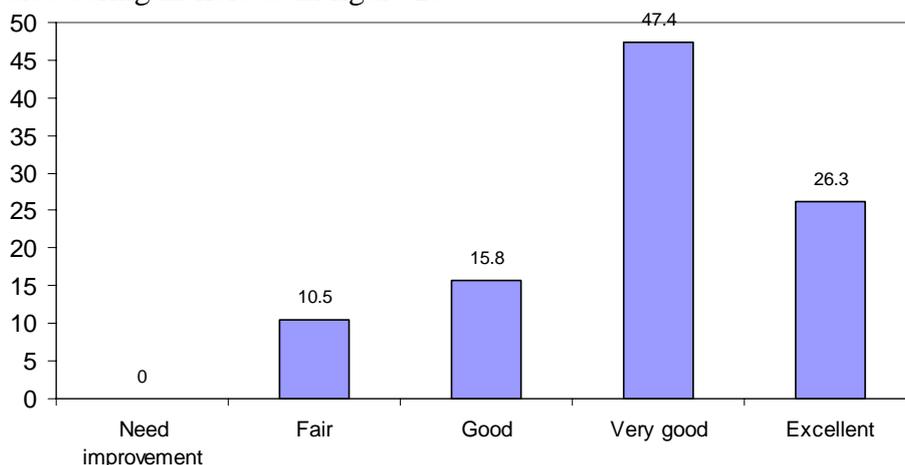


Figure 20: Evaluation of opportunity for participation

21. Interaction between trainees and trainers: the most of 52.6% of respondents clearly agreed that the provided activities created opportunity of interaction between trainees and trainers as in figure 21.

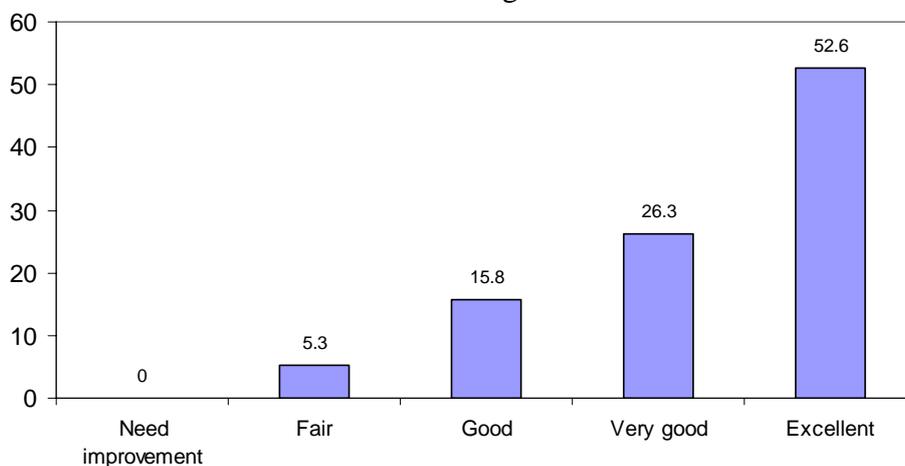


Figure 21: Evaluation of interaction between trainees and trainers

22. Interactions among trainees: the 57.9% of respondents felt very satisfactory with the provided opportunities for trainees to have close interactions in-class as well as in-field as in figure 22.

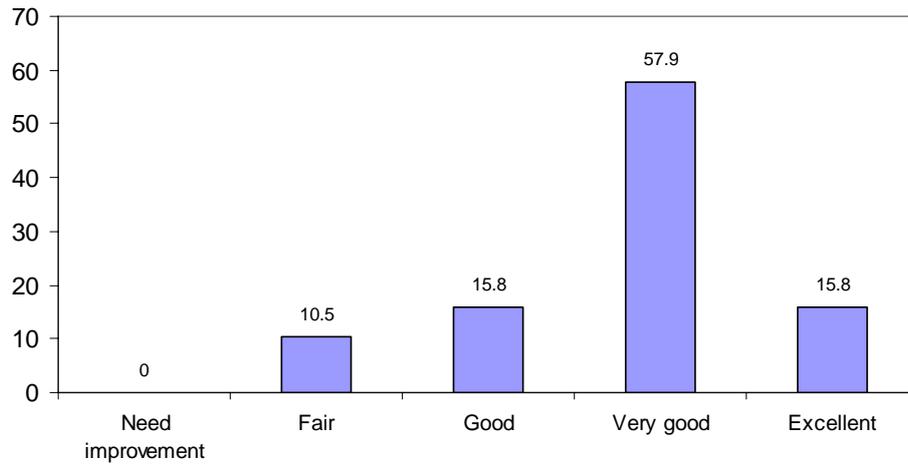


Figure 22: Evaluation of interaction among trainees

23. Classroom environments: the most of 42% of respondents considered that the classroom environments were excellent as in figure 23.

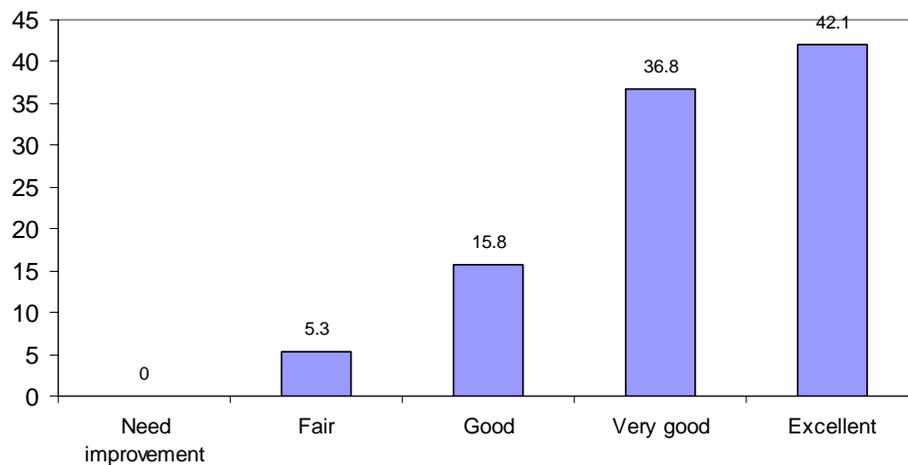


Figure 23: Evaluation of classroom environments

24. Group work environments: the 47% of respondents felt very satisfactory with group work environments when they worked after class regarding the assignment as in figure 24.

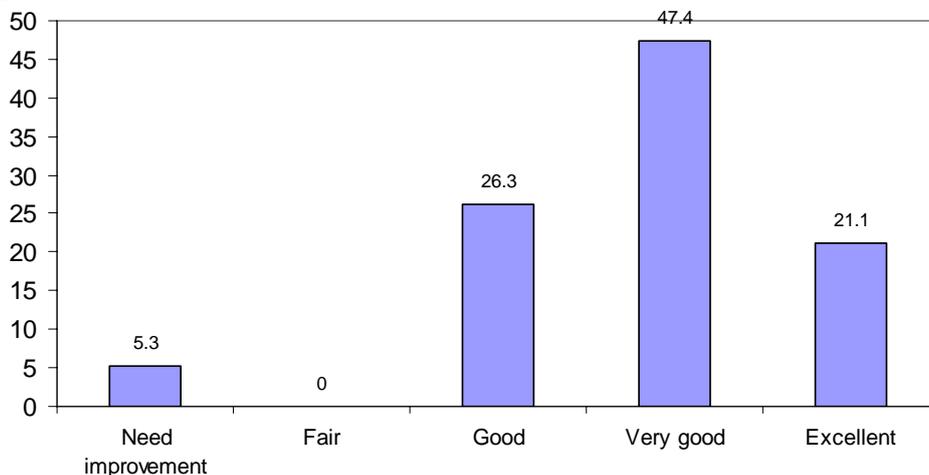


Figure 24: Evaluation of group work environments

25. Class size (number of trainees): the 67% of respondents agreed that the number of trainees was very appropriate up to excellent for the effective training as in figure 25.

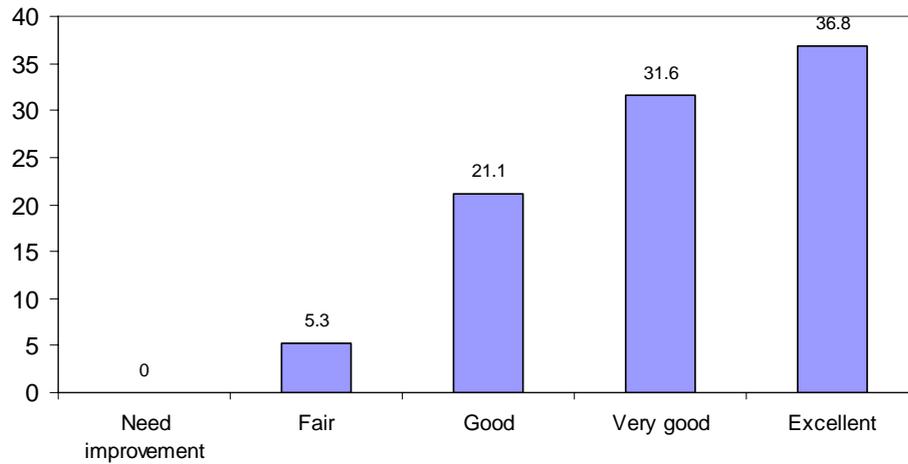


Figure 25: Evaluation of class size (number of trainees)

26. Accommodations: the most 42% of respondents felt the quality of accommodation on campus and in the field were very good as in figure 26.

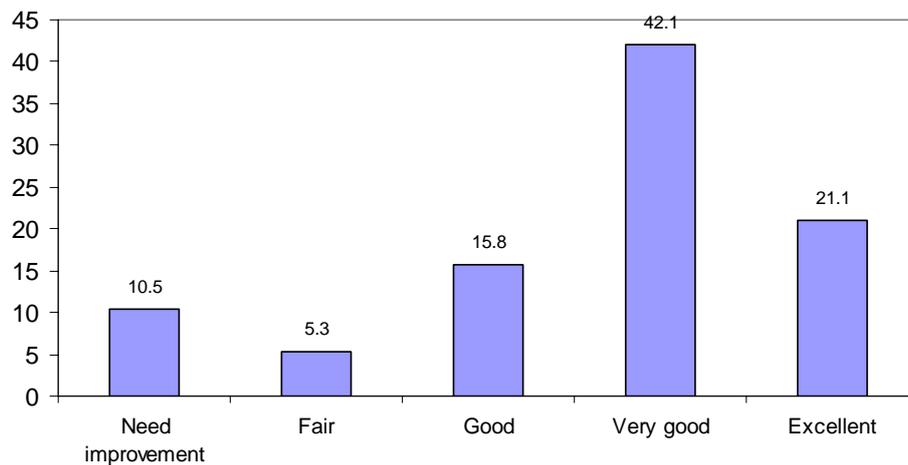


Figure 26: Evaluation of accommodations

27. Meals/refreshments: the 68% of respondents agreed on the quality of meals and refreshments were very good up to excellent as in figure 27.

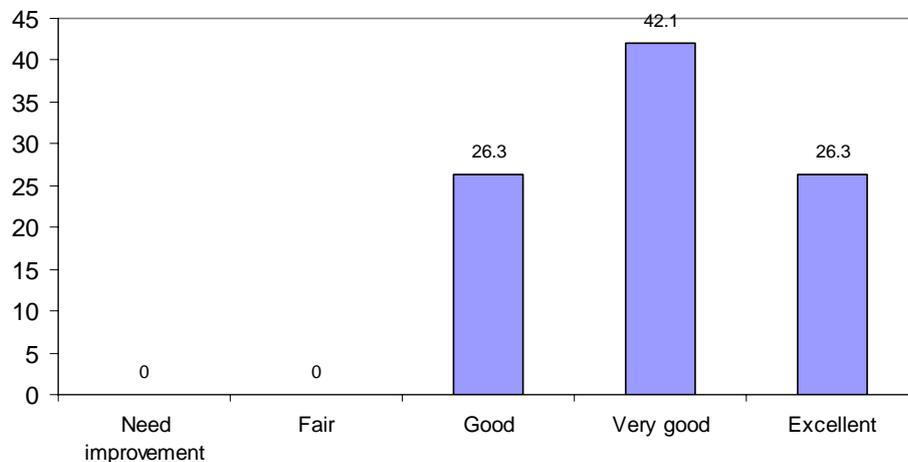


Figure 27: Evaluation of meals/refreshments

28. Transportation: the 52.6% of respondent felt very satisfactory with the provided transportation for the field trip as in figure 28.

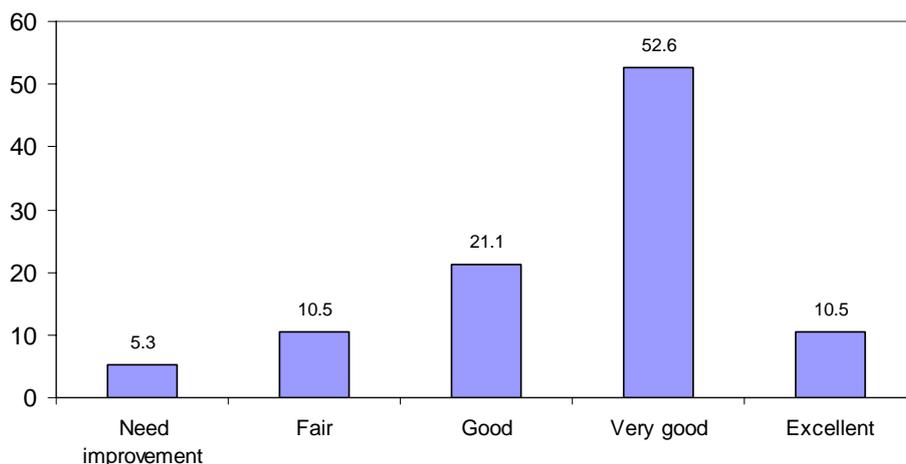


Figure 28: Evaluation of transportation

29. Social events/activities: the most of respondents about 78% agreed that the arranged social events/activities were satisfactory up to excellent as in figure 29.

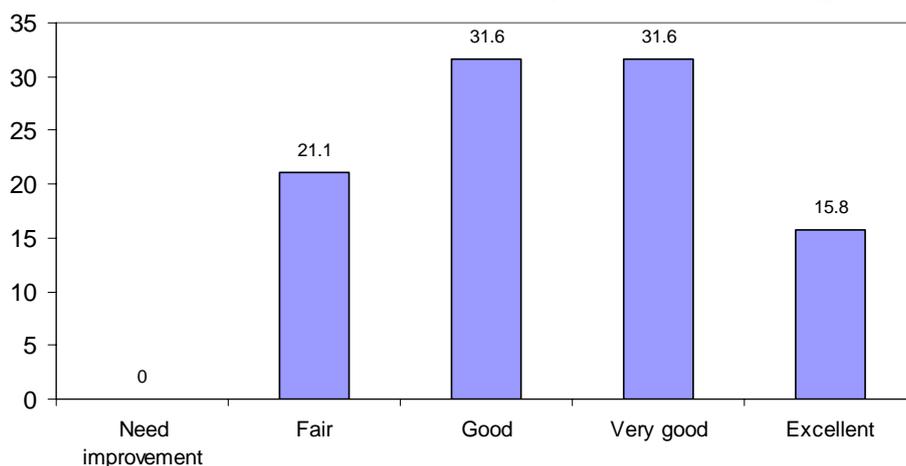


Figure 29: Evaluation of social events/activities

30. Free time/excursions: the 36.8% of respondents felt that the organizers arranged the free time or excursions very satisfactory as in figure 30.

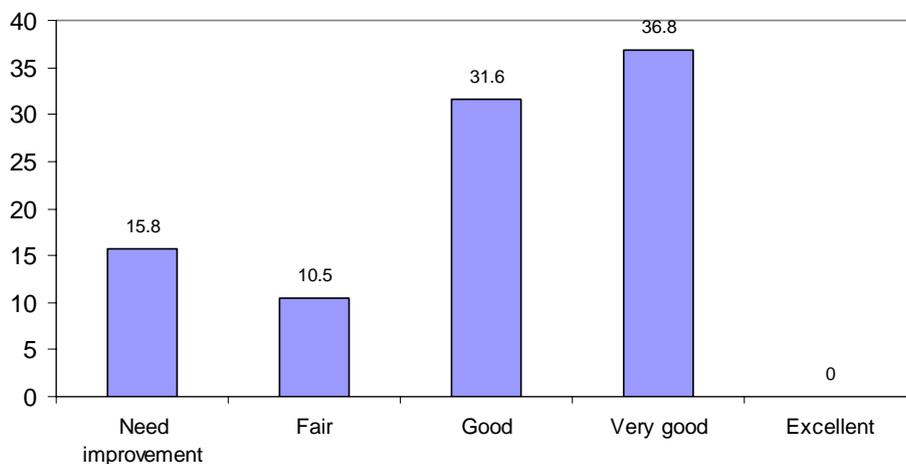


Figure 30: Evaluation of free time or excursions

31. Supporting staff: the 47.4% of respondents agreed that both of supporting staff on campus and in the field were excellent in terms of academic and hospitality as in figure 31.

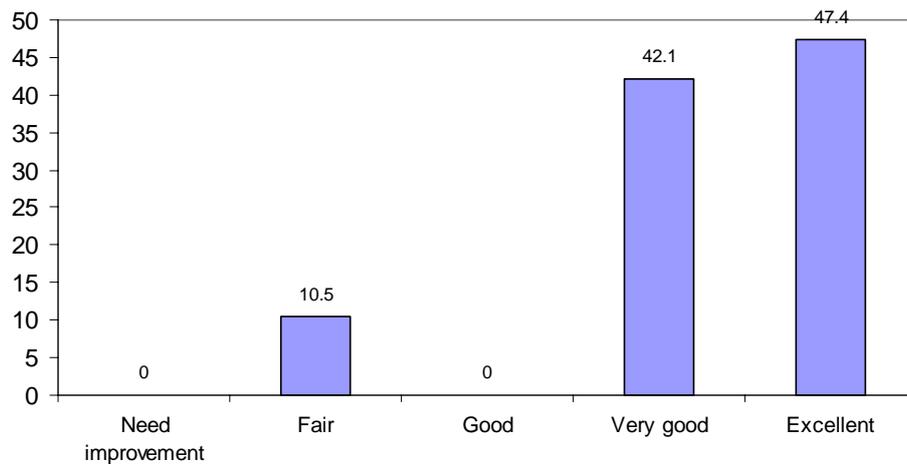


Figure 31: Evaluation of supporting staff

32. Overall organization: the most of 42% of respondents felt that the overall organization was very good in time and content as in figure 32.

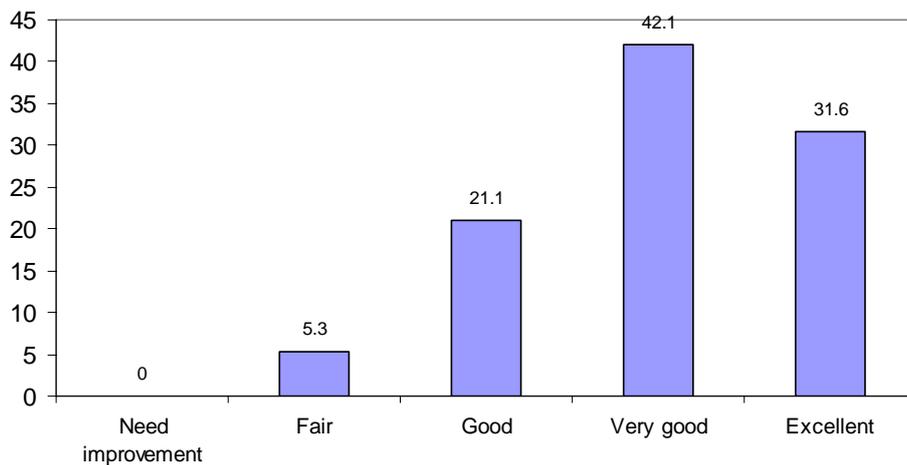
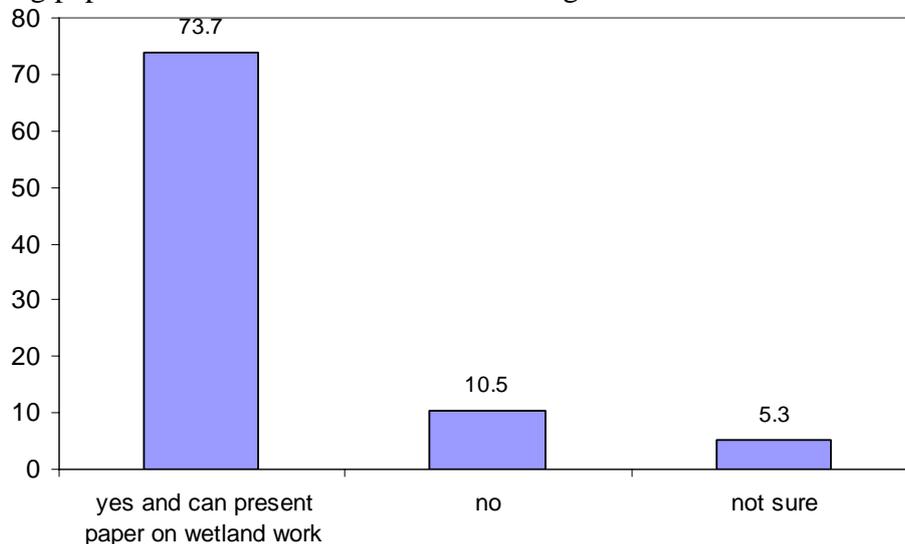


Figure 32: Evaluation of overall organization

33. Are you interested in attending the Alumni Conference in 2009: it is very impressive that the 74% of respondents expressed the intention of attendance as well as presenting paper at the Alumni Conference as in figure 33.



Nevertheless, the respondents also expressed and shared their idea as the feedback and comments to the organizing committee who would improve the next coming training for the benefit of trainees. The all feedback and comments indicate as follows:

1. Potential/recommended trainees (Who else should be trained?)

- Other agency which involved in wetland management and others. (It is possible.)
- Should have one woman and one man come from each university, and may be should have some students be participant in the next time.
- Representatives from organization/institutions in the area. Participants of each training would go to visit and do their field works. (such as officers from Phu Khieo Wildlife Sanctuary)
- The staff from the institutes involving in wetland ecology
- Officer who works for foundations/organizations related to ecosystem & biodiversity.
- I would like to recommend trainees to my colleagues.
- Chinese participants & Myanmar participants.
- Some trainees very good in their background. English sometimes is a obstacle.
- The staff who work for the government and researcher & student who work on wetland.
- I think, all the trainees have a potential in the knowledge of wetland. But there are some of the participants should understand how to speak in clear of language.
- I would point that, they might be undergraduate students.
- The trainees should be youthfully
- Other universities staff located near the Mekong river (e.g. UBU)
- Researchers and teaching staff with at least a Master degree with very ground communication skill.
- Need more case studies of driving factor and their interrelationships with wetland biodiversity.
- I think should have all of participants from every university in the country that is located in the Mekong river basin.
- I think who interesting in this course can join the experience and knowledge.

2. Other subjects/practices that should be covered?

- Enough
- Effects of global warming on wetland ecosystem.
- Wetland modeling
- Pollution possible occur in wetland system
- I can participate in training course about rural development such as: livelihood, alleviate poverty, journey system and sustainable development rural tourism.
- How to design questionnaire
- How to treat waste water by wetland
- Birds, fish. IF study in forest area need to study relating to forest. Also, insect, too.
- Mammals and bio-assessment
- Computer modeling and conceptual modeling
- How to do data analysis from socio-economic?
- Practices should be more.

- Community-based management
- Public involvement and conflict resolution
- Co-management and outreach
- Yes, I do. Gaining knowledge on the function and services of wetland ecosystems will be the added value to improving of teaching (of course for teaching staff) and field research as wee. Great thanks to the training instructor for helping me with strategies to improve presentation skills.
- I think it good and perfect.

3. Do you think you can apply the knowledge and experience gained from this training course in your future works? Please explain.

- Yes, I do. The experience of this training will be useful for my teaching and lecture because I can explain with a real example. This training also gives me the knowledge to continue the research on wetland and it is inspiring me on Wetland management and conservation.
- I think this training course to be important, because I get a lot of experience on Inter training course, and using the knowledge to develop the Mekong basin in my country and training course improvement in the future.
- Yes. As a lecturer, my experiences from the training could be brought to my students.
- As a researcher, I am now very interested in conducting research on wetland and local communities.
- Yes, in research work and in course curriculum.
- Yes, my major is environmental ecology and wetland is one of subjects I am responsible. That why I need to improve my knowledge about wetland ecosystem & management. This training is very useful for my work. Thank you for everything.
- I think, I will apply the knowledge and experience gained from this training course in my future work, because it is very using to improve my teaching methodology, professional knowledge and skills and have necessary materials to teacher knowledge on wetland ecosystem to community and wider public.
- Yes, we can. We can get a lot of new knowledge and can understand theory clearly by practice.
- I can apply the knowledge and experience gained from this training course in my future works because I am a lecturer, I am teaching about Hydrometeorology and forestry policy. I will use the knowledge to teach my student in the future.
- Yes, I do. It's was appropriated for research on Wetland related socio-economic research.
- I actually get more information and gained the knowledge about the wetland. So after I go back to do my work, I can understand about the wetland ecosystem and will conduct wetland research including teaching the students in the future.
- Yes, in term of biodiversity, I think this wetland training provided a lot of capacity in the learning and teaching. I am really appreciation in this training course. And I hope a chance to provide the wetland course at my university.
- Of course, I am pretty sure that, all of topics are presented relate to my working area, especially biota in wetland and water quality and it's can be applied for flood protection and drainage system.
- I hope that the knowledge and experience gained from this training course should be improving on base my knowledge.

- I can bring the knowledge from this training course to apply with my work in another area.
- Some can be applied the course was too basic.
- I think it's very good for knowledge and experience that is the new knowledge and new experience for me. And I hope that it's better for my works such as lecture and field.
- This training course, it's the first time and new experience for me. I think, I can use them in my lecture for teaching my students about protect the natural resources in the wetland and sustainable using.

4. Other comments/suggestions for the 7th training course to be held in 2009

- Give a good facilities
- Should have more participants
- More time on field study to get more information.
- Need internet connection.
- I would like to share some suggestion for the 7th training course to held in 2009 of following to:
 - More practice and theory
 - Have more time field trip
- Set up more home exercise.
- Need learning enough such as plant, soil, water, bird, fish, insect and forest related.
- Provide more information about the host including map of the way which we go.
- Give more time for working group after field trip.
- Good
- Trainees need more time to prepare for data analysis and presentation.
- Yes.
- Decrease some assignments and increase the day for rest.
- No hidden agenda about Sarus crane reintroduction (eventhrough ICF is the main sponsor) wheather it extinct no longer exist, who care anyway.
- It's very good for all country and member in the lower Mekong basin on wetland management especially LAOS
- In the 7th course I think have new place for field trip and good wetland for study.

5. Your impression about this 6th training course

- Learned new things and have opportunity to do many different things.
- Learned and experience the different culture
- Field trip survey
- Presentation
- The instructors, training staffs and participants are very nice
- I gain a lot of useful experiences from the two field trips
- The arrangement of this training course from the day I applied for the course until the closing day is perfect.
- Overall arrangement: committee, staffs, all participants, the way we work together.
- Lecturer
- Hard-working staff
- My impression about this 6th training course is special Mekong language.
- Very good.

- The staff are very lovely and enthusiastic
- My impress on landscape of field study
- Lesson from teachers
- Thai's food
- Help from organizer
- I'm glad to join this training course because I can make a lot of friend and get a lot of knowledge of wetland. Sometimes, it felt hard to understand all information or working hard but I can did it. Thank you for your supporting us.
- Practice in how to be a good scientific researcher.
- Cooperation with the other natives.
- Being a good relation
- Sarus crane
- Animal introduction in Phu Khieo Wildlife Sactuary
- Well organize
- Excellent trainers or presenters
- Social community is very friendly
- Friendly alumni
- Yes.
- Friendly trainees and Staff is work very good.
- Supporting staff are very nice and thankful to their facilitation and hospitality.
- I think, it's very good thing for me.
- My impressin in this training course I have good lecture and good practices in the fieldtrip.

7. LIST OF TRAINEES



The University Network for Wetland Ecology and Conservation Trainings in the Mekong Region

LISTS OF TRAINEE

The 6th Training Course on
WETLAND ECOLOGY AND MANAGEMENT
IN THE LOWER MEKONG BASIN, THAILAND
 12 - 30 May 2008

University	Name	Field	Sex	Contact address
Royal University of Agriculture (RUA), CAMBODIA	1. Mr. Heng Chamroeun	Economics	Male	Chamkar Doung, Dongkor District, Phnom Penh. City, CAMBODIA Tel. (855) 16 231 983 E-mail: chamroeun07@yahoo.com
Royal University of Phnom Penh (RUPP), CAMBODIA	2. Mr. Phauk Sophany	Biology	Male	Royal University of Phnom Penh, Blvd. Confederation of Russia, P.O.Box. 2640, Phnompenh City, CAMBODIA Tel. (855) 16 941 231 E-mail: hellosophany@yahoo.com
Champasack University (CPU), LAO PDR	3. Mr. Inpeng Duangvongsa	Crop Science	Male	Chatsanh Village, Pakse district, Champasak Province, LAO PDR Tel. 85631 900392 E-mail: Inp_Nongkhien@yahoo.com
	4. Mr. Saysamone Dalakham	Animal Science	Male	Chatsanh Village, Pakse district, Champasak Province, LAO PDR Tel. (856)-900392, (856)-31 900394 E-mail: sdalakham@yahoo.com
National University of Laos (NUOL), LAO PDR	5. Mr. Kethsa Nanthavongduangs y	Forestry	Male	Faculty of Forestry, National University of Laos, LAO PDR Tel. (856) 21 770096

				E-mail: keth-nts@yahoo.com
	6. Mr. Phouthone Kingsada	Ecology (Taxonomic of Bat)	Male	Faculty of Science, Department of Biology, National University of Laos, LAO PDR. Tel. (856-21) 770 173 Email: p_kingsada@yahoo.com
Kasetsart University Thailand	7. Dr. Patana Anurakpongsatorn	Environmental Technology and management	Female	Department of Environmental Science, Faculty of Science, Kasetsart University, Bangkok 10900 P.O. Box 1072 (Kasetsart) Tel. 662-9428715 E-mail: fscipna@hotmail.com
	8. Mrs. Janya Jadejaroen	Environmental Biology	Female	Faculty of Resources and Environmental, Kasetsart University, Sriracha Campus 199 Sukhumvit Road, Sriracha, Chonburi Province 20230 Tel. 085-1243345, 66 38 354587 E-mail: janya@src.ku.ac.th
Chulalongkorn University (CU), THAILAND	9. Mr. Lerson Vasinopas	Zoology		Biology Department, Faculty of Science Te: 089-7722001 E-mail: fuchigidanae@hotmail.com
	10. Mr. Tachanat Bhatrasataponkul	Coastal Oceanography		Faculty of Science, Chulalongkorn University Tel. 086-3925036 E-mail: tachanat@buu.ac.th
Khon Kaen University (KKU), THAILAND	11. Mrs Nisarut Tungpaiojwong	Biology		Biology Department, Faculty of Science Te. 084-4744748 E-mail: nklaytong@yahoo.com
Maharakham University (MSU), THAILAND	12. Dr. Penkhae Thamsenanupap	Biology	Female	Faculty of Environmental and Resources Studies, Maharakham University, Maharakham Province Tel. 66 43742135, 66 899742135 E-mail: t_penkhae@yahoo.com
	13. Ms. Papong Khwanruan	Biology	Female	Department of Biology, Faculty of Science,

				Maharakham University, Maharakham Province Tel. 66 43 754245, 66 899232963 E-mail: khwanruen@hotmail.com
	14. Dr. Thiha	Natural Resources Management	Male	Walai Rukhavej Botanical Research Institute, Maharakham University, Kantharawichai District, Maharakham Province 44150 Tel. 66 43 754322-40 ext. 1176, 1174 E-mail: thiha@msu.ac.th , thihafnu@gmail.com
	15. Mr. Pham Xuan Phu	Land management and Rural Development	Male	25 Vo Thi Sau Street, Soil Science and Natural Resources Department, Faculty of Agriculture and Natural Resources, An Giang University, Longxuyen City, Angiang Province, Vietnam Tel. 84 076 945454 E-mail: pxphu@agu.edu.vn
Can Tho University (CTU), VIETNAM	16. Ms. Nguyen Thi Bach Kim		Femal e	Cantho University, Cantho, Vietnam Tel. E-mail: nbkim@yahoo.com
	17. Mr. Le Dang Khoa		Male	Cantho University, Cantho Vietnam Tel. E-mail:
Nong Lam University (NLU), VIETNAM	18. Ms. Vu Thi Thanh Giang	Environmenta l Engineering	Femal e	Faculty of Environmental Technology, Nong Lam University, Ho Chi Minh City, Vietnam Tel. 84 8 7220291 E-mail: thanhgiangmt@gmail.com
	19. Mr. Mac Van Cham	Forestry	Male	Forestry Faculty, Nong Lam University, Ho Chi Minh City, Vietnam Tel. (84-8) 8960712 E-mail: chamk1978@yahoo.com
University of Science, Vietnam National University –	20. Mr. Ha Tri Cao	Zoology	Male	227 Nguyen Van Cu, District 5, Ho Chi Minh City Vietnam Tel. 84 8 8307077 E-mail:

Ho Chi Minh City (UNS), VIETNAM				hacao84@yahoo.com
	21. Ms. Phan Thi Bao Chi	Zoology	Female	227 Nguyen Van Cu, District 5, Ho Chi Minh City Vietnam Tel. 84 8 8307077 E-mail: ptbchi@hcmuns.edu.vn