

The Sixth Senior Technical Managers' Meeting
of the Acid Deposition Monitoring Network
in East Asia
27-29 July 2005, Hanoi, Viet Nam

National Training Activities in the Participating Countries of EANET in 2004

I . INTRODUCTION

1. The "Training Programs for EANET in the Regular Phase (EANET/IG 3/10/2)" was endorsed at the Third Session of the Intergovernmental Meeting for EANET (IG3), held on 19-20 November 2001 in Chiang Mai, Thailand. In order to submit the draft document, the Network Center (NC) for the Acid Deposition Monitoring Network in East Asia (EANET) implemented a "Questionnaire Survey for Training/capacity Building Needs".

2. In line with the "Training Programs for EANET in the Regular Phase" and the "Work Program and Budget in 2005", NC implemented the "Questionnaire Survey for National Training Activities in 2004" in this summer. This report was developed to disseminate the result of this survey.

II . RESULTS OF QUESTIONNAIRE SURVEY FOR NATIONAL TRAINING IN 2003

3. The summary of the result of the "Questionnaire Survey for National Training in 2004" is attached as ANNEX. In 2004, totally 37 (2003: 22) events of national training/capacity building activities such as national workshops, technical meetings and individual training, etc. were carried out in 8 (2003: 8) participating countries. They were implemented various kinds of training/capacity building activities in line with specific needs of their countries and under existing institutional framework in the participating countries.

4. The major topics of national training in 2004 were wet deposition monitoring (including sampling and analysis of samples), dry deposition monitoring (including air quality monitoring and analysis). Training on Soil/vegetation and/or inland aquatic environment monitoring (including sampling and analysis of inland water) were also implemented in three countries (Japan, Russia and Thailand) as well as data management and/or modeling in two countries (Malaysia and Russia). Training course on ozone was also

carried out in Malaysia. NC dispatched experts as lecturers of national training based on the request from participating country (China) for the national training courses. If other countries request to dispatch experts as the lecturers, NC would like to accept as possible as we can.

ANNEX

National Training Programs in 2004

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Cambodia	1	Basic knowledge of acid deposition and its harmful influence reduction	9-11 March 2004	47	<ul style="list-style-type: none"> - General aspect of acid deposition (cause and effects) - Acid deposition in a transboundary formation and its harmful effects - Technical countermeasures (experience from countries in the region and Cambodia)
	2	Basic knowledge of acid deposition and its harmful influence reduction	6-8 July 2004	57	<ul style="list-style-type: none"> - General aspect of acid deposition (cause and effects) - Acid deposition in a transboundary formation and its harmful effects - Technical countermeasures (experience from countries in the region and Cambodia) - Related legislation to cut down the emission of acid deposition
China	1	Training on SO ₂ and acid deposition monitoring	6-17 June 2004	50	<ul style="list-style-type: none"> - Laws and policy on the control of SO₂ emission; - Methods and technique of wet deposition monitoring; - Introduction of acid deposition monitoring in Chongqing; - Introduction of National Acid deposition monitoring; and - Lectures on national air quality monitoring network.
	2	Workshop on acid deposition monitoring in Fuzhou, Fujian province	24 - 26 November 2004	80	<ul style="list-style-type: none"> - Acid Deposition Monitoring Network in East Asia; - Wet deposition monitoring and QA/QC of EANET; - Dry deposition monitoring of EANET; - Introduction of the progress of national wet deposition survey; and - Introduction of Acid deposition monitoring activities in Fujian, Anhui and Zhejiang province.
Indonesia	-				

Country Name	Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Japan	1 Training on Instrumental Analysis	15 -30 January 2004	46	- Ambient air and water analysis (Including practice on Atomic Absorption Spectrometry 3 hours, Ion chromatography 3 hours)
	2 Meeting on National Acid Deposition Monitoring, JFY2003	30 January 2004 (3hours)	78	- Wet/Dry deposition monitoring
	3 Meeting on National Acid Deposition Monitoring (inland aquatic environment), JFY 2003	15 March 2004 (3hours)	29	- Inland aquatic environment monitoring
	4 Training on Water Analysis	10 - 25 May 2004	36	- Practices on water analysis (related to inland aquatic)
	5 Meeting on National Acid Deposition Monitoring (soil & vegetation), JFY2004	7 July 2004 (3hours)	31	- Soil & vegetation monitoring
	6 Meeting on Survey and Research of Acid deposition	19 October 2004 (3 hours)	82	- Overview of acid deposition monitoring in Japan, Progress on EANET activities, Some topics related to acid deposition monitoring by local governments
	7 Training on Operation of Automatic Ambient Air Monitoring Instruments	8-10 November 2004 (Osaka) 17-19 November 2004 (Tokyo)	87	- Gaseous concentration monitoring (related to dry deposition)
	8 Training on Instrumental Analysis	29 November - 14 December 2004	49	- Ambient air and water analysis (Including practice on Atomic Absorption Spectrometry 3 hours, Ion chromatography 3 hours)

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
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Malaysia	1	Seventh GAWTEC Course	14-25 June 2004	15	- Ozone monitoring and studies, data quality assurance and control
	2	Eight GAWTEC Course	21 September – 1 October 2004	14	- Aerosol and precipitation chemistry; and - Data quality assurance and control
	3	Advance Aerosol Training Course	13-17 December 2004	20	- Aerosol monitoring and analysis.
	4	Meeting with Dr Magnus Engardt on MATCH Model	2 days	6	- Transboundary acid transport and deposition
	5	Visit of post graduate students from University of Malaya	1 day	15	- Briefing on environment including acid deposition
	6	On-site training of students	6 weeks	2	- Acid deposition monitoring and analysis
	7	Dialogue between Malaysian Meteorological Service and Department of Chemistry.	1 day	10	- Dry and wet sampling and analysis, data QA and QC.
	8	Workshop on Regional GHG measurement and modeling	10 days	20	- Air pollution modeling
	9	Dialogue between Malaysian Meteorological Service and Department of Chemistry on 28/1/2004	28 January 2004 (1 day)	8	- Dry and wet sampling and analysis, data QA and QC.
	10	Dialogue between Malaysian Meteorological Service and Department of Chemistry on 4/8/2004	4 August 2004 (1 day)	10	- Dry and wet sampling and analysis, data QA and QC.

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Mongolia	1	Yearly seminar for environmental monitoring	14-18 March 2004	10	Environmental quality monitoring including acid deposition monitoring, QA/QC program.
	2	Air pollution & acid deposition	14-18 May 2004	20	Air pollution; Wet & dry deposition
Philippines	1	Introduction of Passive Sampling Method / Preparation of Sampler	14 January – 06 March 2004	10	Lecture on passive sampling method; Preparation of passive sampler; Set up of three passive samplers at Metro Manila EANET station; and Collection of sample using passive sampler
	2	Second Seminar-Workshop on Acid Deposition Monitoring: Wet and Dry and Inland Aquatic Environment Monitoring	17 – 20 February 2004	40	Overview and updates on the activities of the Acid Deposition Monitoring Network in East Asia; Site selection criteria and overview of EANET's QA/QC procedures; Significant parameters for wet / dry deposition and inland aquatic; Sampling procedure and sample preparation; Demonstration and hands-on: laboratory analysis; and General discussion on acid deposition action plan.
	3	Bantay Ulan (Rain Watch) Launching Ceremonies cum Training Session	25 June 2004	45	Acid Deposition Overview; Bantay Ulan (Rain Watch); Bantay Ulan Demonstration; and Hands on exercises for teachers of participating schools.
R. of Korea	-				

Country Name	Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Russia	1 Training course on the water analysis Inter-laboratory comparison project on “reference material” of Baikal water	1-20 May 2004	15	Quality control of methods using for analyses of inland aquatic environment; and To find out the correctness of methods of analyses of inland aquatic environment in laboratories of Siberia.
	2 Environment training course for students of chemical faculty of Irkutsk State University	1-8 July and 2-6 September 2004	40	Sampling and analyses of wet and dry deposition, inland aquatic environment, effects of acid deposition for environment
	3 Meeting on “Aerosols of Siberia”	25-30 November 2004	83	Air pollution of Siberia, greenhouse gases, biological aerosol, processes of mathematical modelling in the atmosphere.
	4 Individual training	5-15 April 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment.
	5 Individual training	6-20 July 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment.
	6 Individual training	15-26 October 2004	8	Wet deposition, dry deposition, soil, inland aquatic environment

Country Name		Title of Training course/ Meeting	Duration	No. of Participants	Major Topics
Thailand	1	Seminar on Acid Deposition Problem in Thailand	6 February 2004	50	Mechanism, situation, monitoring activities, control strategy, case study of acid deposition problem.
	2	Third Country Training on Acid Deposition Monitoring and Assessment.	15-27 February 2004	24	General information of acid deposition monitoring; Wet Deposition Monitoring; Soil and Vegetation monitoring; Inland Aquatic Monitoring; Dry Deposition Monitoring; QA/QC for acid deposition Monitoring. Discussion on acid deposition monitoring; and Oervation.
	3	National Training on Acid Deposition Monitoring in Thailand	3-6 August 2004	40	Wet , Dry Deposition; Soil and vegetation; and Inland Aquatic Environment.
Viet Nam	3	Advanced Training Workshop on Regional Greenhouse Gas Measurement and Modeling	22 November 2004 - 2 December 2004	4	Emissions of Air pollutants US & European Researches on Emissions and Modeling Air quality Modeling in Taiwan Air quality Observations in Taiwan Meteorological Modeling Modeling techniques Modeling findings preparations