

Asia-Pacific Mercury Monitoring Network Workshop

September 10-12, 2014

Pullman Hotel Hanoi, Vietnam

Objectives: Meeting of the Science Advisory Group (SAG) and interested stakeholders to expand coordinated mercury monitoring capacity in the Asia-Pacific region, in light of the Minamata Convention on Mercury: 1) share information on mercury monitoring plans for the region, with updates from partners on their progress; 2) Further develop plans for the Asia-Pacific Mercury Monitoring Network pilot; finalize modifications to the APMMN standard operating procedures; and decide on a wet deposition sampling start date; 3) provide training and demonstration of mercury wet deposition sampling operations and manual methods for gaseous and particulate atmospheric mercury sampling, including review of SOPs and best practices.

Date		Day 1 Wednesday, September 10, 2014	
Start	End	Topic	Speaker/Session Host
09:00	09:15	Welcoming Remarks <i>(3 minutes each)</i>	Dr. Hoang Duong Tung, Vietnam Environment Administration Vice Director General (<i>invited</i>) Dr. Shuenn-Chin Chang, EPA Taiwan Deputy Director of Department of Environmental Monitoring and Information Management Mr. David Schmeltz, US EPA Office of Atmospheric Programs Dr. David Gay, US National Atmospheric Deposition Program
09:15	9:45	Group Introductions and Photo Workshop Overview	(Moderator: Nguyen Van Thuy, VEA Center for Environmental Monitoring)

9:45	10:45	<p style="text-align: center;">Session I</p> <p style="text-align: center;">Overview of the Mercury Problem</p>	<p>Mercury Overview: Sources and Impacts <i>David Schmeltz, US EPA</i></p> <p>Mercury in East and Southeast Asia <i>Guey-Rong Sheu, National Central University, Taiwan</i></p> <p>Update on the Minamata Convention <i>David Schmeltz, US EPA</i></p> <p>Why is Mercury Monitoring Important? <i>David Gay, NADP</i></p>
10:45	11:00	Break	
11:00	12:00	<p style="text-align: center;">Session II</p> <p style="text-align: center;">Update on Recent Monitoring Activities from Science Advisory Group Members <i>(15 minutes for each speaker)</i></p> <p>(Moderator: David Schmeltz, US EPA)</p>	<p>Vietnam <i>Nguyen Van Thuy, VEA/CEM</i></p> <p>Thailand <i>Hathairatana Garivait, Thailand MONRE</i></p> <p>Preparation for monitoring mercury in ambient air in Indonesia <i>Esrom Hamonangan, Indonesia MOE</i></p> <p>Japan <i>Mr. Motoo Kaneko, MOEJ</i> <i>Kohji Marumoto, NIMD</i></p>
12:00	13:30	Lunch	
13:30	14:30	<p style="text-align: center;">Science Advisory Group Updates <i>(continued)</i></p>	<p>Atmospheric Background Station in Taiwan <i>Hong-Po Hsu/Shuenn-Chin Chang, EPAT</i></p> <p>Update on Taiwan's Mercury Monitoring Program <i>Guey-Rong Sheu, NCU</i></p> <p>United States <i>David Gay, NADP</i> <i>Winston Luke, NOAA</i></p>

14:30	15:15	<p>Invited Updates from Other Southeast/East Asian Stakeholders on Mercury and Atmospheric Monitoring</p> <p>Q&A and Discussion</p>	<p>Philippines <i>Teresita Peralta, Environmental Management Bureau, Department of Environment and Natural Resources, Philippines</i></p> <p>Hong Kong <i>Eric Ho, Environmental Protection Department, Hong Kong</i></p> <p>India <i>Asif Qureshi, Indian Institute of Technology, Hyderabad, India</i></p>
15:15	15:30	Break	
15:30	17:30	<p style="text-align: center;">Session III</p> <p style="text-align: center;">Asia Pacific Mercury Monitoring Network</p> <p>(Moderator: David Schmeltz, US EPA)</p>	<ul style="list-style-type: none"> • Vision • Operations • How to Get Involved <p>Round table discussion: specifics of network operations</p> <p><i>Guey-Rong Sheu, NCU</i> <i>David Gay, NADP</i></p>
17:30	Adjourn		
18:30	Group Dinner (TBD)		

Date		Day 2 Thursday, September 11, 2014	
Start	End	Topic	Speaker/Session Host
08:30	10:00	Training Session 1	<ul style="list-style-type: none"> • Local Siting Criteria • Supporting Site Information • Sampling Start Date and Next Steps

		Introduction of Wet Deposition Standard Operating Procedures	Questions and Discussion
10:00	10:30	Break	
10:30	12:00	<p>Training Session 1 (<i>continued</i>)</p> <p>Review of Wet Deposition Standard Operating Procedures</p>	<ul style="list-style-type: none"> • Installation • Sampler • Sample change out • Field sheet review • Maintenance • Sample storage and shipment
12:00	13:30	Lunch	
13:30	14:30	<p>Training Session 1 (<i>continued</i>)</p> <p>Review of Wet Deposition Standard Operating Procedures</p>	<ul style="list-style-type: none"> • Acid cleaning procedure • Emphasis on clean hands/dirty hands procedure • Quality assurance of sample train blanks • Overview of laboratory procedures • Data reporting (values provided) <i>** to be videotaped for display on web, download, etc.</i> <p><i>David Gay and Mark Olson, NADP</i></p>
14:30	15:00	Demonstration and Practice of Sample Change-outs	<i>Mark Olson, NADP Guey-Rong Sheu, NCU</i>
15:00	15:20	Break	
15:20	16:50	<p>Training Session 2</p> <p>Atmospheric Mercury Introduction to Manual Systems for Monitoring Gaseous and Particulate Mercury</p>	<ul style="list-style-type: none"> • Review equipment set-up • Operation and Maintenance • Data generated • Suppliers of equipment <p><i>Guey-Rong Sheu, NCU Kohji Marumoto, NIMD</i></p>

16:50	17:50	<p style="text-align: center;">Training Session 3</p> <p style="text-align: center;">Atmospheric Mercury Automated System for Monitoring Gaseous and Particulate Mercury</p>	<ul style="list-style-type: none"> • Review equipment set-up • Operation specifics • Data generated • Suppliers of equipment <p style="text-align: right;"><i>Mark Olson, NADP</i></p>
17:50	Adjourn		

Date		Day 3 Friday, September 12, 2014	
Start	End	Topic	Speaker/Session Host
09:00	19:00	Leaving for Ha Long Bay Air Quality Monitoring Station	Technical tour of VEA's Ha Long Bay Air Quality Monitoring Station