



Asia Pacific Mercury Monitoring Network

The 9th Annual Asia Pacific Mercury Monitoring Network Partners Meeting

Virtual Workshop

September 8, 2020

Starting at 8:30 am (Taiwan Time)

Organizers: Environmental Protection Administration, R.O.C. (Taiwan)

United States Environmental Protection Agency

National Central University

National Atmospheric Deposition Program

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About APMMN

Mercury Concerns in Asia

Mercury (Hg), a persistent and bioaccumulative toxicant of increasing global concern, is dispersed worldwide primarily via long-range atmospheric transport. Methylmercury (MeHg), the most toxic species of Hg, is a neurotoxin that can cause long-term development delays in children. Because consumption of marine fish is the primary exposure route through which people are exposed to MeHg, methylation of inorganic Hg in aquatic environments and its subsequent accumulation in fish are major environmental concerns for human health. However, the main source of inorganic Hg is from the atmosphere for many aquatic systems, such as the open ocean worldwide.

Asia is the largest source region of atmospheric mercury and emissions continue to increase rapidly. The rapid growth of economic and industrial activities in Asia marked by the massive consumption of coal, petroleum, and fossil fuels has resulted in a dramatic increase of atmospheric mercury emissions. It is expected that mercury deposition within Asia will also continue to increase, leading to more mercury health issues in the region.

At present, scientists and decision-makers in the Asia-Pacific region must rely on limited information to understand and quantify the critical linkages between mercury emissions, environmental response, and potential human health concerns. As a primary mercury source region with limited mercury information and data, Asia is a particularly important region to further develop monitoring capacity.

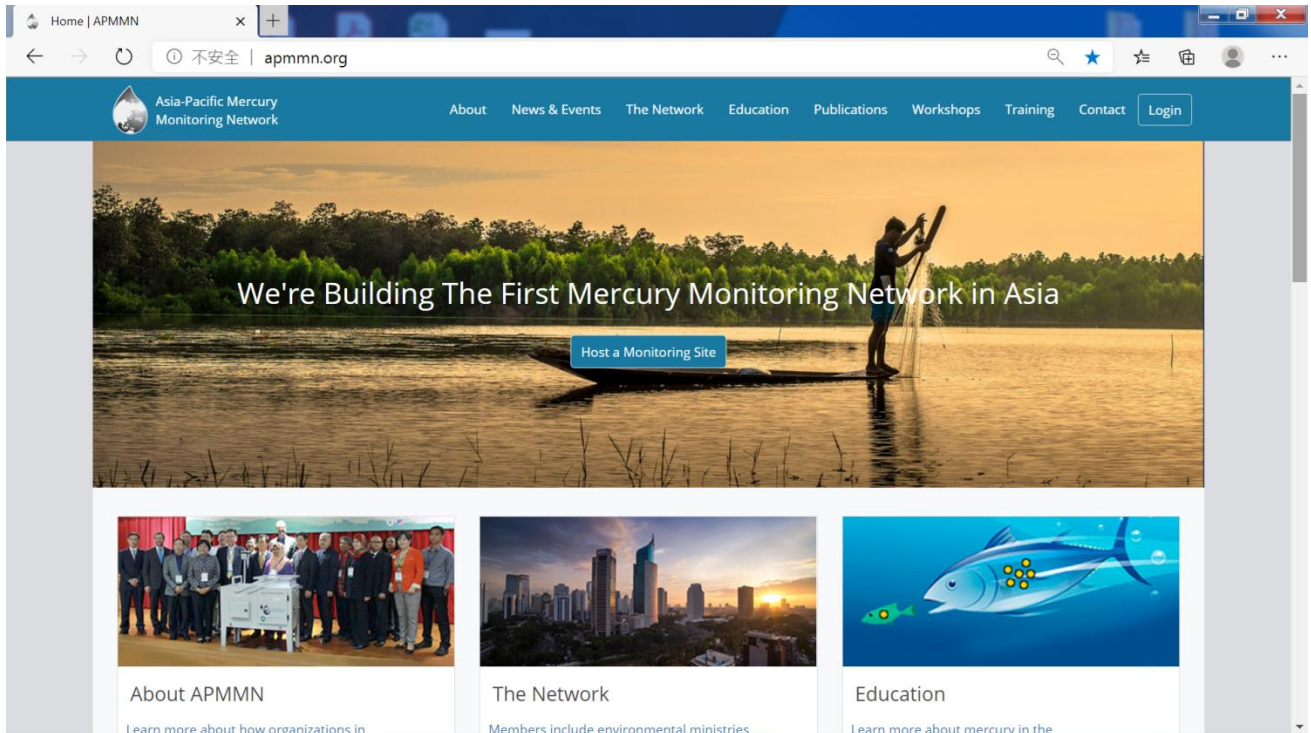
The **Asia Pacific Mercury Monitoring Network (APMMN)** is a cooperative effort involving many different groups, including environmental ministries and federal government agencies, academic institutions, and scientific research and monitoring organizations. The goal of the APMMN is to systematically monitor wet deposition and atmospheric concentrations of mercury in a network of stations throughout the Asia-Pacific region. Objectives of the APMMN include:

- Determine the status and trends in: concentrations of ambient air mercury species - Gaseous Oxidized Mercury (GOM), Particulate Bound Mercury (PBM_{2,5}), Elemental Mercury (GEM); and wet, dry and total atmospheric deposition of mercury.
- Assist partner countries in developing their mercury monitoring and assessment capacity by providing training on multi-media (e.g., air, precipitation, water, sediment, biota) sampling and analytical methods, and best practices.
- Provide a robust dataset for regional and global model input.
- Share data and monitoring information among network partners.



APMMN Website

<http://apmmn.org/>



Contact Information

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National Atmospheric Deposition Program

Dr. David Gay

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Event Date

Starting at 8:30 am on Tuesday, September 8, 2020 (Taiwan Time)

Time zone	Country	APMMN Meeting Time		
		Date	Begin	End
UTC-4:00	Canada Eastern Time	Monday, September 7, 2020	20:30	23:45
UTC-4:00	United States Eastern Time	Monday, September 7, 2020	20:30	23:45
UTC-5:00	United States Central Time	Monday, September 7, 2020	19:30	22:45
UTC-7:00	United States Pacific Time	Monday, September 7, 2020	17:30	20:45
UTC+2:00	South Africa	Tuesday, September 8, 2020	02:30	05:45
UTC+5:00	Maldives	Tuesday, September 8, 2020	05:30	08:45
UTC+5:30	India, Sri Lanka	Tuesday, September 8, 2020	06:00	09:15
UTC+5:45	Nepal	Tuesday, September 8, 2020	06:15	09:30
UTC+6:30	Myanmar	Tuesday, September 8, 2020	07:00	10:15
UTC+7:00	Indonesia, Thailand, Vietnam	Tuesday, September 8, 2020	07:30	10:45
UTC+8:00	Philippines, Mongolia, Taiwan	Tuesday, September 8, 2020	08:30	11:45
UTC+9:00	Japan, Korea, Palau	Tuesday, September 8, 2020	09:30	12:45
UTC+12:00	Fiji	Tuesday, September 8, 2020	12:30	15:45

Link to Meeting

The event will be held online using **Google Meet**.

Use the following link to join the meeting:

<https://meet.google.com/ayi-bopa-qhy>

Technical Specifications

To ensure the safety and healthiness of all event participants, the event will be held online using **Google Meet**. No cross-country travel will be required, and the participant can participate the event at their own home or office via the internet. To ensure that the participants of this event will be able to efficiently interact with speakers, mentors, and other participants, we recommend the following Hardware minimum requirements

(https://support.google.com/meet/answer/7317473?hl=en&ref_topic=7306097)

Attendees who joins via mobile device will be required to download Google Meet application.

Before the workshop date, please see below for the instruction to download the application or joining with a web browser. If the participants cannot use the software, or for any other technical problems, please contact Mr. Da-Wei Lin (dwlin@g.ncu.edu.tw) for instruction.

[How to download a Google Meet Application]

Mobile app for iPhone & iPad: <https://apps.apple.com/us/app/meet/id1013231476>

Mobile app for Android:

<https://play.google.com/store/apps/details?id=com.google.android.apps.meetings>

[How to Join a video meeting]

Desktop app on Windows or Mac:

https://support.google.com/meet/answer/9303069?hl=en&ref_topic=7192926&co=GENIE.Platform%3DDesktop&oco=1

Mobile app for iPhone & iPad :

https://support.google.com/meet/answer/9303069?hl=en&ref_topic=7192926&co=GENIE.Platform%3DiOS&oco=1

Mobile app for Android:

https://support.google.com/meet/answer/9303069?hl=en&ref_topic=7192926&co=GENIE.Platform%3DAndroid&oco=1

[How to share screen images in a video conference]

Desktop app on Windows or Mac:

Present during a meeting

1. Join a video meeting.

2. In the bottom-right corner, select Present now.
3. Select Your entire screen, A window, or Chrome tab.
 - If you present a Chrome tab, it shares that tab's audio by default.
 - To present a different tab, at the bottom of your screen, select Change source.
4. Select the content you'd like to share.
5. Select Share.
6. If someone is presenting, confirm that you want to present instead.



If your camera is turned on, your video is active while you're presenting.

Stop presenting

- In the Meet window, click Stop Presenting.
- In the bottom-right corner, you can also click You are presenting > Stop presenting.

Present if someone else is already presenting

1. In the bottom-right corner, click Present now.
2. Select Your entire screen or A window.
3. Select Present instead.

If another participant presents their screen, you'll get a notification that your presentation is still visible to others. You can click the buttons in the notification to end or resume your presentation.

Join only to present

When you join to present, only your computer's window or application is displayed in the meeting.

No audio or other video is sent or received.

1. Go to <https://meet.google.com/>.
2. Select the scheduled meeting, or click Join or start a Meeting.
3. Enter a meeting code.
4. Click Present.
5. Select a window or application.
6. Select Share.

Mobile app for iPhone & iPad :

Present during a meeting

To present your mobile screen, start a broadcast on your iOS device.

1. Join a video meeting using the mobile app.
2. Tap More > Present screen.
3. Tap Start Broadcast.
4. Everything on your screen will be presented to everyone in the Meet meeting.

Join only to present

When you join to present, only your window or application is displayed in the meeting. No audio or other video is sent or received.

1. Open the Meet app and select an option:
 - Swipe up from the bottom and select a scheduled meeting.
 - Tap Meeting code and enter the meeting code or nickname. The hyphens in the code are optional.
2. Instead of Join meeting, tap Present.
3. Tap Start Broadcast.

Everything on your screen will be presented to everyone in the Meet meeting. No audio is sent or

received.

Stop presenting

In the Meet app, tap Stop Broadcast.

You can also tap the red banner at the top of any screen, and tap Stop.

Present if someone else is already presenting

You can present your screen even if someone else is already presenting.

Mobile app for Android:

Present during a meeting

To present your mobile screen, select the Present screen option in your Android Meet app.

1. Join a video meeting using the mobile app.
2. Tap More > Present screen.
3. Everything on your screen will be presented to everyone in the Meet meeting.

Join only to present

<https://storage.googleapis.com/support-kms-prod/AcqNC8dkSsLleBihQz2X4dXUN470wki54SUy>

When you join to present, only your window or application is displayed in the meeting. No audio or other video is sent or received.

1. Open the Meet app and select an option:
 - Swipe up from the bottom and select a scheduled meeting.
 - Tap Meeting code and enter the meeting code or nickname. The hyphens in the code are optional.
2. Instead of tapping Join meeting, tap Present.

Everything on your screen will be presented to everyone in the Meet meeting. No audio is sent or received.

Stop presenting

In the Meet app, tap Stop presenting.

Present if someone else is already presenting

You can present your screen even if someone else is already presenting.

Agenda

The 9th Annual Asia-Pacific Mercury Monitoring Network Partners Meeting

Starting at 8:30 am on Tuesday, September 8, 2020 (Taiwan time)

Virtual Meeting on [Google Meet](#)

Link: <https://meet.google.com/ayi-bopa-qhy>

Time	
08:30-08:50	<p>Welcome, Meeting Overview, and Opening Remarks</p> <p>Hung-Teh Tsai, Deputy Minister, Environmental Protection Administration, Taiwan</p> <p>Jane Nishida, Principal Deputy Assistant Administrator, US Environmental Protection Agency, Office of International and Tribal Affairs, USA</p>
08:50-09:00	<p>Update on the Minamata Convention</p> <p>Alexandra Steffen, Environment and Climate Change Canada, Canada</p>
09:00-09:15	<p>APMMN Overview and State of the Network:</p> <p>Guey-Rong Sheu and Da-Wei Lin, National Central University, Taiwan</p>
09:15-09:55	<p>Expanding the Utility of Rainwater and Air Mercury Monitoring Data</p> <p>09:15-09:35 <i>Development of a national scale mercury bio-monitoring program with a citizen science framework: the Dragonfly Mercury Project</i> Collin Eagles-Smith, U.S. Geological Survey, USA</p> <p>09:35-09:55 <i>Sampling and Mercury Analysis of Human Hair for Health Assessment</i> Kohji Marumoto, National Institute of Minamata Disease, Japan</p>
09:55-11:31	<p>APMMN Monitoring Partner Updates (16 countries, 6 minutes per country)</p> <p>09:55-10:01 Canada Sandy Steffen, Environment and Climate Change Canada</p> <p>10:01-10:07 Fiji Vincent Vishant Lal, Univ. of the South Pacific</p> <p>10:07-10:13 India Asif Qureshi, Indian Institute Technology</p>

10:13-10:19	Indonesia Rina Aprishanty, Research and Development Center of Environmental Laboratory Quality (P3KLL)
10:19-10:25	Japan Kohji Marumoto, National Institute of Minamata Disease
10:25-10:31	Korea Seunghee Han, Gwangju Institute of Science and Technology
10:31-10:37	Mongolia Enkhmaa Sarangerel, National Agency for Meteorology and Environmental Monitoring
10:37-10:43	Nepal Ashmita Oli, Department of Environment
10:43-10:49	Palau Darwin Florencio, Environmental Quality Protection Board
10:49-10:55	Philippines Jundy Del Socorro, Philippines Department of Environment and Natural Resources
10:55-11:01	South Africa Lynwill Martin, South African Weather Service
11:01-11:07	Sri Lanka Anurudha Karunarathne, University of Peradeniya
11:07-11:13	Taiwan Chihwei Andrew Chang, Environmental Protection Administration
11:13-11:19	Thailand Hathairatana Garivait, Environmental Research and Training Center, Ministry of Natural Resources and Environment
11:19-11:25	United States David Gay, National Atmospheric Deposition Program
11:25-11:31	Vietnam Pham Thi Vuong Linh, Northern Centre for Environmental Monitoring, Vietnam Environment Administration
11:31-11:40	Questions and Discussion
11:40-11:45	Closing Remarks Shuenn-Chin Chang, Director General, Department of Environmental Monitoring & Information Management, Environmental Protection Administration, Taiwan