

NIMD Forum 2023

“Current Status and Challenges of Environmental Mercury Monitoring in the Asia-Pacific and African Regions for Contributing the Effectiveness Evaluation of the Minamata Convention”

November 18-19

Program

November 18 Saturday

9:30 – 9:45 Opening Remark

Mitsuya Maeda *Director-General of NIMD, Japan*

Koki Takaki *Director of Mercury Management Office of Ministry of the Environment, Japan*

9:45 – 9:50 Brief Introduction of NIMD Forum 2023

Kohji Marumoto *NIMD, Japan*

9:50 – 10:00 Coffee Break

Session 1 Mercury Monitoring in biota 1

10:00 – 10:50 Keynote Speech

Global mercury biomonitoring: Patterns and trends with an emphasis on Asia

地球規模の生物中水銀モニタリング：アジアにおけるパターンとトレンド

David Evers *Biodiversity Research Institute, USA*

10:50 – 11:20 Mercury Concentrations in Sediment, Water, and Fish in Freshwater

Ecosystems: Summary of the National Mercury Monitoring Network of South Korea

陸水生態系における魚、水、堆積物中の水銀濃度：韓国における水銀モニタリングネットワークの概要

Seunghye Han *Gwangju Institute of Science and Technology, Korea*

11:20 – 11:50 Indispensable methylmercury (MeHg) analysis for reconstructing historical bird Hg burden using museum specimens

博物館標本を用いた鳥類の水銀曝露の歴史的な傾向の復元に不可欠なメチル水銀分析

Akinori Takeuchi *National Institute for Environmental Studies, Japan*

11:50 – 13:30 Lunch

Session 2: Global and Regional monitoring network for atmospheric mercury

13:30 – 14:20 Keynote Speech

Mercury Observations in Africa: How monitoring can fill in the gaps to determine the Effectiveness of the Minamata Convention

アフリカ地域における水銀の観測：いかにモニタリングが水俣条約の有効性を判断するためのデータギャップを埋めるか

Lynwill Martin, *South Africa Meteorological service, South Africa*

14:20 – 14:50 **New Observations in the National Atmospheric Deposition Network (NADP) in North America**

北米の大気沈着ネットワークプロジェクト (NADP) による新しい観測

David Gay *National Atmospheric Deposition Project, USA*

14:50 – 15:20 **Overview of the Asia Pacific Mercury Monitoring Network (APMMN)**

アジア-太平洋水銀モニタリングネットワークの概観

Guey-Rong Sheu *National Central University, Taiwan*

15:20 – 15:30 Coffee Break

Session 3: National monitoring network for atmospheric mercury

15:30 – 16:00 **Long-Term Monitoring of Mercury in Air and Rainwater in Taiwan**

台湾における大気・降水中の水銀の長期モニタリング

Guey-Rong Sheu *National Central University, Taiwan*

16:00 – 16:30 **Long-term trend of mercury in air and wet depositions in Japan**

日本における大気及び降水中の水銀の長期的変動

Kohji Marumoto *NIMD, Japan*

16:30 – 16:50 **Mercury contents in rainwater in Masue and Minamata, Japan during 2020 to 2023**

2022年から2023年の松江市および水俣市の降水中の水銀含有量について

Katsumichi Takebe *National institute of Technology, Matsue College, Japan*

16:50 – 17:10 **Pathway of the air mass causing mercury deposition in Matsue, Japan**

松江市に水銀を含む降水をもたらす空気塊の経路について

Naoki Aoyama *National institute of Technology, Matsue College, Japan*

18:00 – 19:30 Welcome Banquet

November 19 Sunday

Session 4 Monitoring in atmospheric mercury

10:00 – 10:10 Brief Introduction of this session

Itsuki Kuroda *Mercury Management Office of Ministry of the Environment, Japan*

10:10 – 10:40 Comparative study of the different methods of atmospheric mercury monitoring - manual and automated active sampling

手動アクティブサンプリング法と自動アクティブサンプリング法との並行観測

Tatsuya Hattori *IDEA consultants Inc., Japan*

10:40 – 11:10 Analysis of the variation in the annual mean estimate obtained from intermittent measurements of atmospheric mercury

間欠サンプリングによる年平均値の推定に関する誤差変動の検証

Mitsuko Yasoshima *IDEA consultants Inc., Japan*

11:10 – 11:30 How is a concentration of atmospheric mercury in my high school?

私の高校の大気中水銀濃度はどのくらいか？

Momoka Nakamura *Minamata High School, Japan*

11:30 – 12:00 Observation in the atmospheric concentrations of speciated Hg in volcanic area

火山地帯における大気中水銀形態別濃度の観測

Yuichi Maruo *NIMD, Japan*

12:00 – 13:30 Lunch

Session 5 Mercury Monitoring in biota 2

13:30 – 14:00 Spatial distribution of total mercury and its stable isotope ratio in skipjack tuna from Northwest Pacific Ocean

北西太平洋におけるカツオ中の総水銀濃度および水銀安定同位体比の地域変動

Takaaki Itai *The University of Tokyo, Japan*

14:00 – 14:30 Spatial Variation in Methylmercury Accumulation within Plankton Communities across the Western North Pacific

北西太平洋におけるプランクトン群集内のメチル水銀蓄積の空間的変動

Yuya Tada *NIMD, Japan*

14:30 – 15:00 Global-scale prediction of medium-term variation of methylmercury in seafood

全球海産物中のメチル水銀濃度の中期変動予測

Toru Kawai *National Institute for Environmental Studies, Japan*

15:00 – 15:10 Coffee Break

15:10 – 15:40 General Comments and Discussion

David Schmeltz *Environmental Protection Agency, USA*

Noriyuki Suzuki *National Institute for Environmental Studies, Japan*

15:40 – 15:45 Notification of Next NIMD Forum

Koichi Haraguchi *NIMD, Japan*

15:45 – 15:50 Closing Remark

Masanori Saito *Associate Director-General of NIMD, Japan*