



Proceedings of the 2007 National Forum on Contaminants in Fish



2007 National Forum on Contaminants in Fish

Holiday Inn By the Bay • Portland, Maine • July 23 – 26, 2007

Agenda

Monday, July 23, 2007

Welcome to the 2007 National Forum on Contaminants in Fish

Forum Co-Chairs and General Moderators:

Jeffrey Bigler, Office of Science and Technology, Office of Water, U.S. EPA

Eric Frohberg, Maine Center for Disease Control

8:00 – 8:10 a.m.

U.S. EPA Welcome:

John Wathen, Chief, Fish, Shellfish, Beaches, and Outreach Branch, Standards and Health Protection Division, Office of Science and Technology, Office of Water, U.S. EPA

8:10 – 8:20 a.m.

U.S. EPA Welcome:

Ephraim King, Director, Office of Science and Technology, Office of Water, U.S. EPA

8:20 – 8:30 a.m.

U.S. EPA Welcome:

Denise Keehner, Director, Standards and Health Protection Division, Office of Science and Technology, Office of Water, U.S. EPA

8:30 – 8:40 a.m.

Maine Welcome:

Dora Anne Mills, Director of the Maine Center for Disease Control

8:40 – 9:00 a.m.

Maine Welcome:

David P. Littell, Commissioner of the Department of Environmental Protection

Sampling and Analysis Issues

Moderators:

Robert Brodberg, Office of Environmental Health Hazard Assessment, California Environmental Protection Agency

Robert Gerlach, Alaska Department of Environmental Conservation

9:00 – 9:10 a.m.

Introduction

9:10 – 9:35 a.m.

Mercury Measurements Using Direct-Analyzer Methodology

Thomas A. Hinnners, Office of Research and Development, National Exposure Research Laboratory, U.S. EPA

9:35 – 10:00 a.m.

A Biopsy Procedure for Determining Mercury in Fish Tissue with Results from a Western USA Survey

Robert Hughes, Department of Fisheries and Wildlife, Oregon State University

10:00 – 10:25 a.m.

Mercury in Fish in the Gulf of Mexico

Tony Lowery, National Marine Fisheries Service

10:25 – 10:45 a.m.

Break

Monday, July 23, 2007 (continued)

Sampling and Analysis Issues (continued)

- 10:45 – 11:10 a.m. **Report on EPA’s National Lake Fish Tissue Survey**
Leanne Stahl, Office of Science and Technology, Office of Water, U.S. EPA
- 11:10 – 11:35 a.m. **EPA Pilot Study on Pharmaceuticals and Personal Care Products (PPCPs) in Fish Tissue**
John Wathen and Leanne Stahl, Office of Science and Technology, Office of Water, U.S. EPA
- 11:35 a.m. – 12:00 p.m. **Polybrominated Diphenyl Ethers (PBDEs) in Fish from the Delaware River Drainage Basin**
Richard Greene, Delaware Department of Natural Resources and Environmental Control
- 12:00 p.m. – 12:25 p.m. **Distribution of PBDE Flame Retardants in Fish and Water from Washington Rivers and Lakes**
Dale Norton, Washington State Department of Ecology
- 12:25 – 1:30 p.m. **Lunch (on your own)**

Biomonitoring

Moderator:

Amy Kyle, University of California, Berkeley

- 1:30 – 1:40 p.m. **Introduction**
- 1:40 – 2:05 p.m. **Omega-3 Fatty Acids and Mercury Exposure: Differences Associated with which Fish Species are Consumed**
Kate Mahaffey, U.S. EPA
- 2:05 – 2:30 p.m. **Toxics and Risk Assessment at the Biomonitoring Crossroads – Summary of NRC Report**
Gary Ginsberg, Connecticut Department of Public Health
- 2:30 – 2:55 p.m. **Fish Consumption Advice Goes Local: How Human Biomonitoring and Local Risk Management Improve Public Health Policy in Alaska**
Lori Verbrugge, Environmental Public Health Program Manager Alaska DHSS
- 2:55 – 3:15 p.m. **Break**

Biomonitoring (continued)

- 3:15 – 3:40 p.m. **Blood Mercury Levels in New York City Adults**
Wendy McKelvey, New York City Department of Health and Mental Hygiene
- 3:40 – 4:05 p.m. **Fish Consumption and Mercury Exposure Among Washington Residents – Results from the Behavioral Risk Factor Surveillance System (BRFSS) Survey and the Women’s Diet Survey**
Denise Laflamme, Washington State Department of Health
- 4:05 – 4:30 p.m. **Increased Levels of Mercury Associated with High Fish Intakes Among Children of Different Ethnic Groups from Vancouver**
Sheila Innis, University of British Columbia
- 4:30 – 4:55 p.m. **PBDE Biomonitoring of Great Lake Charter Captains**
Henry Anderson, Wisconsin Department of Health and Human Services
- 6:00 – 8:00 p.m. **Reception and Poster Displays**

Tuesday, July 24, 2007

Risk Assessment/Toxicology

Moderator:

Randall Manning, Georgia Department of Natural Resources

- 8:00 – 8:10 a.m. ***Introduction***
- 8:10 – 8:35 a.m. **Health Risks and Toxicological Effects of Mercury – A Summary from the 2006 International Conference on Mercury as a Global Pollutant**
Henry Anderson, Wisconsin Department of Health and Human Services
- 8:35 – 9:00 a.m. **Australia’s Advisory on Mercury in Fish**
Peter Abbott and Tracy Hambridge, Food Standards Australia New Zealand
- 9:00 – 9:25 a.m. **Canada’s Risk Assessment of Mercury in Fish**
Kelly Hislop, Health Canada
- 9:25 – 9:50 a.m. **IRIS Toxicological Reviews of Several PBDE Congeners**
Joyce Donohue and Hend Galal-Gorcheve, Office of Water, Office of Science and Technology, U.S. EPA
- 9:50 – 10:15 a.m. ***Break***

Health Benefits of Fish Consumption

Moderator:

Judy Sheeshka, University of Guelph

- 10:15 – 10:25 a.m. ***Introduction***
- 10:25 – 10:50 a.m. **Omega-3 Fatty Acid Deficiency Among Pregnant Women: Biochemical and Dietary Approaches to Identifying Women at Risk and Implications for Infant Development**
Sheila Innis, University of British Columbia
- 10:50 – 11:15 a.m. **Fish, n-3 Fatty Acids and Dementia**
Martha Clare Morris, Rush University Medical Center
- 11:15 a.m. – 11:40 a.m. **Fish Consumption and Cardiovascular Risk**
Dariusz Mozaffarian, Harvard School of Public Health
- 11:40 a.m. – 1:10 p.m. ***Lunch (on your own)***

Risks and Benefits

Moderator:

Rita Schoeny, U.S. EPA

- 1:10 – 1:20 p.m. ***Introduction***
- 1:20 – 1:45 p.m. **Risk Benefit Evaluations of Fish Consumption**
Joanna Burger, Environmental and Occupational Health Sciences Institute, Rutgers University
- 1:45 – 2:10 p.m. **Maternal Seafood Consumption in Pregnancy and Neurodevelopmental Outcomes in Childhood (ALSPAC Study)**
Jean Golding, University of Bristol
- 2:10 – 2:35 p.m. **Project Viva: Cognitive Outcomes at 3 Years of Age**
Emily Oken, Harvard Medical School

Tuesday, July 24, 2007 (continued)

- 2:35 – 3:00 p.m. **Summary on the Institute of Medicine’s (IOM’s) Report, *Seafood Choices: Balancing Benefits and Risks***
Malden Nesheim, Cornell University
- 3:00 – 3:25 p.m. **Moving Beyond the Reference Dose to Compare Risks and Benefits of Fish Consumption**
Joshua Cohen, Tufts-New England Medical Center
- 3:25 – 3:45 p.m. **Break**
- Risks and Benefits (continued)***
- 3:45 – 4:10 p.m. **Synthesis for Fish Consumption Advisory Impacts**
Gary Ginsberg, Connecticut Department of Health
- 4:10 p.m. – end **Panel Discussion on Risks and Benefits**
Emily Oken, Joshua Cohen, Joanna Burger, Malden Nesheim, Jean Golding, Gary Ginsberg, and Dariush Mozaffarian

Wednesday, July 25, 2007

Risk Communication

Moderator:

Charles R. Santerre, Purdue University

- 8:00 – 8:10 a.m. ***Introduction***
- 8:10 – 8:35 a.m. **Evaluating Risk Communication for Fish Advisories**
Missy Cody, Georgia State University
- 8:35 – 9:00 a.m. **Awareness of Mercury Among Pregnant Women (EPA/FDA National Study)**
Steve Bradbard, Food and Drug Administration
- 9:00 – 9:25 a.m. **Application of Hair-Mercury Analysis to Determine the Impact of Seafood Advisory in the Faroes**
Pal Weihe, Department of Occupational and Public Health, The Faroese Hospital
- 9:25 – 10:40 a.m. **State Efforts to Evaluate Impacts of Fish Advisories**
Henry Anderson, Wisconsin Department of Health and Human Services; Pat McCann, Minnesota Department of Health; Eric Frohberg, Maine Center for Disease Control; Karen Knaebel, Vermont Department of Environmental Conservation; and Charles R. Santerre, Purdue University
- 10:40 – 11:00 a.m. **Break**

Risk Communication (continued)

- 11:00 – 11:05 a.m. **Introduction to Tribal Risk Communication Issues**
George Frantz, U.S. EPA
- 11:05 – 11:30 a.m. **Effective Risk Communication: Weighing the Benefits of Consuming Contaminated Fish**
Fred Corey, Aroostook Band of Micmacs
- 11:30 – 11:55 a.m. **Developing and Communicating Fish Consumption Guidelines for Penobscot Nation Territory Waters**
Dan Kusnierz, Penobscot Nation
- 11:55 a.m. – 12:20 p.m. **2006 Food Safety Survey - Analysis of Seafood Questions (EPA/FDA)**
Steven Bradbard, Food and Drug Administration
- 12:20 – 1:30 p.m. **Lunch (on your own)**

Wednesday, July 25, 2007 (continued)

PCBs and Dioxins

Moderator:

Eric Frohberg, Maine Center for Disease Control

- 1:30 – 1:40 p.m. ***Introduction***
- 1:40 – 2:05 p.m. **WHO - 2006 Re-evaluation of TEF for Dioxins and Dioxin-Like Compounds**
Daniele Staskal, ChemRisk
- 2:05 – 2:30 p.m. **Use of Total-PCB Fish Measurements in Dioxin-Like PCB Related Fish Advisories and Risk Assessment**
Satyendra Bhavsar, Ontario Ministry of the Environment
- 2:30 – 2:55 p.m. **Cancer Risk Assessment of PCBs**
Kevin Connor, Geomatrix
- 2:55 – 3:20 p.m. **Developmental Health Effects of PCBs in a Superfund Community**
Susan Korrick, Harvard School of Public Health
- 3:20 – 3:40 p.m. ***Break***

PCBs and Dioxins (continued)

- 3:40 – 4:05 p.m. **Overview of the Consortium of East Coast States Involved in Evaluating Atlantic Coastal PCB Advisory for Striped Bass and Bluefish**
Eric Frohberg, Maine Center for Disease Control
- 4:05 – 4:30 p.m. **PCB Body Burdens Associated with Adverse Outcome in Epidemiological Studies**
Deborah Rice, Maine Center for Disease Control
- 4:30 – 4:45 p.m. ***Closing Remarks***
- General Forum Moderators:**
Jeffrey Bigler, Office of Water, Office of Science and Technology, U.S. EPA
Eric Frohberg, Maine Center for Disease Control