

Environment III

Chairs: Åke Bergman and Shinsuke Tanabe

9:15 Brominated Flame Retardants in European Food Samples Collected in 2007 to 2009

Olaf A.B. Paepke¹, Matthias Opel¹, Frank Neugebauer¹, Peter Ebsen¹, Malte Petersen¹

1) Eurofins GfA GmbH

90157

9:30 Integrated Multi-Media Monitoring of PBDEs in the Canadian Environment: Current Status and Trends.

Sean M Backus¹, Pamela Martin¹, Megan Lewis¹, Cathy Banic¹, Doug Spry¹, Chris Marvin¹, Magella Pelletier¹, Shirley Anne Smyth¹, Alicia Berthiaume¹, Susan Fraser¹, Jesse Shen¹, Jessica Harris¹

1) Environment Canada

90156

9:45 The Atmospheric Concentrations of Brominated Flame Retardants at Extreme Remote Locations: The Canadian High Arctic and the Tibetan Plateau

Hang Xiao¹, Hayley Hung¹, Li Shen², Frank Wania³, Ed Sverko¹, Yushan Su¹, Ying-Duan Lei³, Eric Reiner², Shichang Kang⁴, Enzo Barresi¹

1) Environment Canada

2) Ontario Ministry of the Environment

3) University of Toronto Scarborough

4) Institute of Tibetan Plateau Research, Chinese Academy of Sciences

90067

10:00 Brominated Flame Retardants in the Arctic Environment - Trends and New Candidates

Cynthia A. de Wit¹, Dorte Herzke², Katrin Vorkamp³

1) Department of Applied Environmental Science, Stockholm University

2) Norwegian Institute for Air Research (NILU)

3) National Environmental Research Institute (NERI), Denmark

90007

Friday, April 9, 2010

10:15 BFRs in Arctic marine mammals during three decades. Not only a story of BDEs

Bert van Bavel¹, Anna Rotander¹, Gunilla Lindstrom¹, Maria Dam², Anuschka Polder³, Frank Riget⁴, Atli Audunsson Gudjon⁴

1) MTM Research Center, School of Science and Technology, Orebro University

2) Environment Agency Faroe Islands

3) Norwegian school of veterinary science

4) Department of Arctic Environment, National Environmental Research Institute

90146

10:30 Reductive debromination of nonabrominated diphenyl ethers

Lisa M Granelli¹, Ake Bergman¹, Johan Eriksson¹, Maria Athanasiadou¹

1) Department of Materials and Environmental Chemistry, Stockholm University

90042

10:45 Coffee Break

Alternatives

Chairs: Yacob de Boer and Hidetaka Takigami

11:15 Recent Studies on the Identification and Occurrence of PentaBDE Replacement Chemicals in Indoor and Outdoor Environments

Susan Klosterhaus¹, Heather M Stapleton², Mark La Guardia³, Elizabeth Davis², Sarah Eagle², Arlene Blum⁴

1) San Francisco Estuary Institute

2) Duke University

3) Virginia Institute of Marine Science

4) Green Science Policy Institute

90060

11:30 New Flame Retardants in the Global Atmosphere under the GAPS Network

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Sum Chi Lee¹, Ed Sverko², Tom Harner¹, JoAnne Schachtschneider², Donna Zaruk², Maryl DeJong², Enzo Barresi²

1) Atmospheric Science & Technology Directorate, Environment Canada

2) Water Science & Technology Directorate, Environment Canada

90066

11:45 Brominated and Chlorinated Norbornene Flame Retardants in Tributary Sediments of the Laurentian Great Lakes

Li Shen¹, Eric J Reiner¹, Karen A MacPherson¹, Terry M Kolic¹, Debbie A Burniston³, Paul A Helm¹, Lisa A Richman¹, Brad Hill³, Ian D Brindle², Chris H Marvin³

1) Ontario Ministry of the Environment

2) Brock University, Canada

3) Environment Canada

90079

12:00 Tris (1,3-dichloro-isopropyl) phosphate, a PentaBDE Replacement: Detection in Consumer Products, Human Metabolism, and Neurodevelopmental Effects

Heather M Stapleton¹, Ellen Cooper¹, Laura Dishaw¹, Frederic Seidler², Theodore Slotkin², Thomas F Webster³

1) Duke University

2) Department of Pharmacology and Cancer Biology, Duke University

3) Boston University School of Public Health, Dept. Environmental Health

90033

12:15 Life Cycle and Risk Assessment of Environment-Compatible Flame Retardants (Prototypical Case Study): ENFIRO

Pim Leonards¹, Sicco Brandsma¹, Jacob de Boer¹

1) Institute for Environmental Studies, VU University Amsterdam

90036

12:30 “Novel” Brominated Flame Retardants: a Review

Robin J Law¹, Adrian Covaci², Stuart Harrad³, Dorte Herzke⁴, Nadeem Ali², Mohamed A.-E. Abdallah³

1) The Centre for Environment, Fisheries and Aquaculture Science

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- 2) University of Antwerp
- 3) University of Birmingham
- 4) The Polar Environmental Centre

90024

12:45 – 14:15 Lunch

Sources, Control & Regulation

Chairs: Gang Yu and Yasuhiro Hirai

14:15 Brominated flame retardants in products: Results of the Swiss market survey 2008

Eva Bantelmann¹, Albert Ammann², Urs Naef³, Josef Tremp⁴

- 1) Canton Aargau, Agency for Consumer Protection, Chemical Safety
- 2) Canton Berne, Cantonal Laboratory Berne
- 3) Canton Zurich, Official Food Control Authority of the Canton of Zurich
- 4) Federal Office for the Environment (FOEN)

90004

14:30 The Releases of PBDD/DFs from the Flame-retarded Textile Manufacturing Facilities

Shizuko Ota¹, Yoshiyuki Kondo¹, Tohru Miyazaki², Hidetaka Takigami³, Yasuhiro Hirai⁴, Shin-ichi Sakai⁴

- 1) Ministry of the Environment, Japan
- 2) Nittech Research Corporation
- 3) National Institute for Environmental Studies
- 4) Kyoto University

90142

14:45 Photodegradation of Polybrominated Diphenyl Ethers in Organic Solvents and Surfactant Solution

Gang Yu¹, Jun Huang¹, Lei Fang¹, Xue Li¹, Shu B. Deng¹

- 1) POPs Research Center, Tsinghua University

90144

15:00 Measurement of vapor pressures of some PBDEs and HBCD

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diastereoisomers

Hidetoshi Kuramochi¹, Shin-ichi Sakai²

1) National Institute for Environmental Studies

2) Kyoto University

90071

15:15 Halogenated Flame Retardants in Consumer Products: Do the Fire Safety Benefits Justify the Health and Environmental Risks?

Arlene Blum^{1,2}, Linda Birnbaum³

1) University of California, Berkeley

2) Green Science Policy Institute

3) U.S. National Institute of Environmental Health Sciences and National Toxicology Program

90058

15:30 Tissue-Specific Biomagnification of Polybrominated Diphenyl Ethers and Hexabromocyclododecanes in Harbor Seals from the Northwest Atlantic

Susan D Shaw¹, Michelle L. Berger¹, Liesbeth Weijs^{2,3}, Laurence Roosen², Adrian Covaci^{2,3}

1) Marine Environmental Research Institute, Center for Marine Studies

2) Toxicological Centre, University of Antwerp

3) Department of Biology, University of Antwerp

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15:45 New POPs - The unique challenge of controlling PBDEs under the Stockholm Convention

Roland Weber¹, Alan Watson², Tom Webster³

1) POPs Environmental Consulting, Goepingen, Germany

2) Public Interest Consultants, Wales, UK

3) Boston University School of Public Health, Boston, USA

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Chairs: Shin-ichi Sakai

16:00 Wrap-up Session

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16:45 Closing Session

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Substances Control, USA