

Thursday, April 8, 2010

9:15 Plenary Lecture:

Exposure to flame retardants and its health effects in pregnant women and children

Brenda Eskenazi

Center for Children's Environmental Health Research, University of California, Berkeley, School of Public Health, USA

Exposure & Toxicology

Chair: Arnold Schechter, Martin van den Berg

10:00 Spontaneous Behavior and Learning and Memory of the Adult Mice Offspring after Gestational and Lactation Exposure to the Decabrominated diphenyl ether

ShanHua Chang¹, L H Tseng¹, Y J Ho², P C Hsu³

1) Department of Occupational Safety and Health, Tajen University, Taiwan

2) School of Psychology, Chung Shan Medical University, Taiwan

3) Department of Safety, Health and Environmental Engineering, National Kaohsiung First University of Science and Technology, Taiwan

90050

10:15 Effects of PBDE-209 exposure on primary cultures of fetal rat hippocampal neurons

Jingsi Chen¹, Dunjin Chen¹, Chunfang Zhang¹, Yanhong Chen¹, Zhihua Li¹, Bo Xu¹

1) The Third Affiliated Hospital of Guangzhou Medical College

90034

10:30 PBDEs alter species-specific larval settlement pattern of marine benthic polychaetes at environmentally relevant concentrations

Cindy Lam^{1,2}, Rebecca Neumann^{1,2}, Paul KS Shin¹, Doris WT Au¹, Pei-Yuan Qian³, Rudolf SS Wu^{1,4}

1) Marine Environmental Research and Innovative Technology (MERIT), Department of Biology and Chemistry, City University of Hong Kong

2) State Key Laboratory of Marine Pollution (SKLMP)

3) Department of Biology, Hong Kong University of Science and Technology,

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Clear Water Bay, Hong Kong SAR

4) School of Biological Sciences, University of Hong Kong, Pok Fu Lam,
Hong Kong SAR

90068

10:45 Coffee Break

11:15 POPs in U.S. Humans and Food

Arnold Schecter¹, Justin Colacino², Sarah Smith¹, Keyur Patel¹, Olaf Paepke³,
Mathias Opel³, Kurunthachalam Kannan⁴, Se Hun Yun⁴, Linda Birnbaum⁵

1) Division of Environmental and Occupational Health Sciences, University of
Texas School of Public Health

2) University of Michigan

3) Eurofins GfA GmbH

4) Wadsworth Center, New York Department of Health

5) National Institute of Environmental Health Sciences/National Institutes of
Health Research Triangle Park, NC, USA

90014

**11:30 Chlorinated and Brominated Organic Contaminants in Human Breast
Milk from Different Regions in India**

Gnanasekaran Devanathan¹, Agus Sudaryanto², Annamalai Subramanian¹,
Tomohiko Isobe², Shin Takahashi¹, Shinsuke Tanabe¹

1) Center for Marine Environmental Studies (CMES), Ehime University

2) Senior Research Fellow Center (SRFC), Ehime University

90055

**11:45 Are BFRs responsible for brominated dioxins and furans (PBDD/Fs) in
food?**

Martin D Rose¹, Alwyn R Fernandes¹

1) The Food and Environment Research Agency

90029

**12:00 Oral Bioaccessibility of PBDEs in Dust Using an In Vitro Gastrointestinal
Model**

Peter Lepom¹, Maggie Berndt¹, Anja Duffek¹, Evelyn Warmbrunn-Suckrow¹

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1) Laboratory for Water Analysis, Federal Environment Agency

90145

12:15 Serum PBDE Levels Measured In Pregnant Women: Associations with Thyroid Hormones

Heather M Stapleton¹, Sarah Eagle¹, Amy Wolkin², Marie Lynn Miranda¹

1) Duke University

2) National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA, USA

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12:30– 14:00 Vendor's Session by Thermo Scientific:

Thermo Scientific DFS: The most sensitive HRGC / HRMS for POPs analysis

12:30 Talk 1: The latest in sectorfield HRMS technology - an introduction and overview

Talk 2: Instrument performance standards and their implication in routine POPs analysis

Takashi Sawashima¹, Kazuhiro Tonoike¹, Tatsuko Nakano¹, Takashi Sugimoto¹, Murray Wigmore¹, Helmut Munster², Heinz Mehlmann², Dirk Krumwiede²

1) Thermo Fisher Scientific K.K., Yokohama, Japan

2) Thermo Fisher Scientific, Bremen, Germany

13:10 – 14:00 Lunch Sponsored by Thermo Scientific:

14:00 – 15:00 Poster Session

15:00 Plenary Lecture:

Fire Retardants – necessary, nuisance or nemesis?

Richard Hull

Centre for Fire and Hazard Science, University of Central Lancashire (UCLan), UK

Indoor Pollution

Chairs: Mehran Alae and Myrto Petreas

- 15:45 Concentrations of Brominated Flame Retardants (BFRs) in Air and Dust from UK Cars - Spatial Variability and Evidence for Degradation**
Stuart Harrad¹, Mohamed A Abdallah^{1,2}, Adrian C Covaci³
1) Division of Environmental Health & Risk Management, School of Geography, Earth & Environmental Sciences, University of Birmingham
2) Department of Analytical Chemistry, Faculty of Pharmacy, Assiut University, Egypt
3) Toxicological Center, University of Antwerp, Belgium
90030
- 16:00 PentaBDE Alternatives in Homes, Offices and Cars**
Thomas F Webster¹, Deborah J Watkins¹, Courtney Walker¹, Alicia J Fraser¹, Wendy Heiger-Bernays¹, Heather M Stapleton², Michael D McClean¹
1) Boston University School of Public Health, Department of Environmental Health
2) Duke University, Nicholas School of the Environment
90044
- 16:15 Concentrations of PBDEs in indoor air of daycare facilities and elementary schools**
Song-Yee Baek¹, Mingliang Fang¹, Yoon-Seok Chang¹
1) Pohang University of Science and Technology
90059
- 16:30 Assessment of Decabromodiphenyl Ether (BDE-209) in the Indoor Environment: Implications on Environmental Exposure Assessment**
Yu-Li Huang¹, Yu-Ping Wang¹, Dai-Rong Yang¹, Shen-Yi Chen¹, Jenq-Ren Chen¹
1) National Kaohsiung First University of Science and Technology
90065
- 16:45 Behavior of Additive Brominated Flame Retardants in Textile Products**
Natsuko Kajiwara¹, Hidetaka Takigami¹
1) National Institute for Environmental Studies
90074

17:00 Dioxin-like Compounds in Japanese Indoor Dusts: Brominated Dibenzofurans Strongly Contribute to Dioxin-Like Activity Evaluated by In Vitro Bioassay

Go Suzuki^{1,2}, Masayuki Someya¹, Shin Takahashi¹, Hidetaka Takigami², Shin-ichi Sakai³, Shinsuke Tanabe¹

1) Center for Marine Environmental Studies, Ehime University

2) National Institute for Environmental Studies

3) Kyoto University

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Environment II

Chairs: Åke Bergman and Shinsuke Tanabe

17:15 Monitoring of Decabromodiphenylether in the European Environment: Results of the First Five Years (2005-2009)

Jacob de Boer¹, Heather A Leslie¹, Philippe Bersuder², Gier W Gabrielsen³, Richard F Shore⁴, Lee A Walker⁴, Pim E Leonards¹

1) VU University, Institute for Environmental Studies

2) CEFAS United Kingdom

3) Norwegian Polar Institute

4) Center for Ecology and Hydrology

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17:30 Concentrations of Hexabromocyclodocanes and Tetrabromobisphenol-A in Water, Sediment, and Fish from English Lakes

Stuart Harrad¹, Mohamed A-E Abdallah^{1,2}, Neil L Rose³, Simon D Turner³, Thomas A Davidson³

1) Division of Environmental Health & Risk Management, School of Geography, Earth & Environmental Sciences, University of Birmingham

2) Department of Analytical Chemistry, Faculty of Pharmacy, Assiut University, Egypt

3) Environmental Change Research Centre, Department of Geography, University College London, UK

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17:45 Brominated Flame Retardants in American Eel: a Reason for the Eel's Decline?

Jonathan D Byer^{1,2}, Mehran Alaei², R Stephen Brown¹, Michel Lebeuf³, Steve Trottier³, Sean Backus², Susan Blunt², Mike Keir², Margaret Konefal², Grazina Pacepavicius², Peter V Hodson¹

- 1) Queen's University
- 2) Environment Canada
- 3) Fisheries and Oceans Canada

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19:00 – 21:00 Banquet

THE GARDEN ORIENTAL KYOTO