

The Fifth PCB Workshop

New Knowledge
Gained from Old Pollutants

PROGRAM

Iowa City, Iowa USA

May 18 -22, 2008

Sunday, May 18th

18:30 Evening Welcoming Reception with Guest Lectures

19:30 – 19:40 **Thomas R. Sharpe** (Associate Vice President for Economic Development) Special Welcome to the Participants

19:40 – 19:45 **Larry Robertson** (University of Iowa) Thanks to the Supporters & Sponsors

19:45 – 20:15 **Claudia Thompson** (NIEHS) State of the Superfund Basic Research Program

20:15 – 20:45 **William Suk** (NIEHS) Strategies for Addressing Environmental Health Needs and Disease Outcomes

20:45 – 20:55 **Rich Seegal** (University of Albany) Introduction of the Honorary Lecturer

20:55 – 21:25 **Larry Hansen** (University of Illinois) Honorary Lecture: Forty Years of PCBs—More or Lessons?

Monday, May 19th

Session 1

Emissions and transport of PCBs in Natural and Urban systems

Session Chairs Keri Hornbuckle (University Iowa) and Stuart Harrad (University Birmingham)

8:30 – 9:00 **Bob Herrick** (Harvard University) PCB Exposures from Building Materials

9:00 – 9:30 **Stuart Harrad** (University of Birmingham) Household dust ingestion as a pathway of human exposure to PCBs in Canada and the UK

9:30 – 10:00 **Keri Hornbuckle** (University of Iowa) Spatial Distribution and Sources of Atmospheric PCBs in the Chicago Urban Industrial Region

10:00 – 10:30 COFFEE BREAK & POSTER VIEWING

10:30 – 11:00 **Karin Norström** (Stockholm University) Do PCB congener profiles differ in humans depending on the route of exposure? - A model assessment using ACC-HUMAN

11:00 – 11:30 **Lisa Rodenburg** (Rutgers University) Investigating Atmospheric PCB Source Types, Locations, and Magnitudes in Urban Areas of New Jersey

11:30 – 12:00 **Don Patterson** (CDC) A U.S. National Reference Range for PCB congeners and Total PCBs from the NHANES 2003-2004 Survey

12:00 – 14:00 LUNCH & POSTER VIEWING

Monday, May 19th - CONTINUED

Session 2

Chiral aspects of PCBs transport, metabolism and distribution

Session Chairs Hans Lehmler (U Iowa) and Charles Wong (U Alberta)

14:00 – 14:30 **Heinrich Huehnerfuss** (University of Hamburg): Analysis of chiral PCBs and their metabolites

14:30 – 15:00 **Stuart Harrad** (University of Birmingham): Exploiting Chiral Signatures of PCBs for Atmospheric Source Apportionment

15:00 – 15:30 **Cindy Lee** (Clemson University): Biodegradation of chiral PCBs in soil and sediments

15:30 – 16:00 COFFEE BREAK & POSTER VIEWING

16:00 – 16:30 **Charles Wong** (University of Alberta): Chiral PCBs as a marker of biochemical weathering in aquatic food webs

16:30 – 17:00 **Izabela Kania-Korwel** (University of Iowa): PCB atropisomers in animal models – what we know about toxicity and disposition

17:00 – 17:30 **Hans-Joachim Lehmler** (University of Iowa): Enantiomeric fraction of chiral PCBs in humans – an overview

17:30 – 19:30 **POSTER SESSION** (Food and Libations will be provided)
(ODD NUMBERED POSTERS WILL BE ATTENDED)

Tuesday, May 20th

Session 3

New aspects of environmental metabolism of PCBs: From microbes to plants to animals

Session Chairs Mike Duffel (University Iowa), Jerry Schnoor (University Iowa)

08:30 – 09:00 **Paige Novak** (University Minnesota) Biostimulation of PCB Contaminated Sediment

09:00 – 9:30 **Mary Beth Leigh** (University Alaska) New insights into PCB degradation through stable isotope probing

9:30 – 10:00 **Benoit Van Aken** (West Virginia University) Biodegradation of Individual PCB Congeners by Rhizosphere Bacteria

10:00 – 10:30 COFFEE BREAK & POSTER VIEWING

10:30 – 11:00 **Jerry Schnoor** (University Iowa) Plant Degradation of Airborne PCB Congeners

11:00 – 11:30 **Margaret James** (University Florida) PCB Metabolism in Aquatic Animals

11:30 – 12:00 **Mike Duffel** (University Iowa) Interactions of Hydroxylated PCBs with Rat and Human Sulfotransferases

12:00 – 14:00 LUNCH & POSTER VIEWING

Tuesday, May 20th - CONTINUED

Session 4

Reproductive, developmental and cardiovascular effects of PCBs

Session Chairs: Surendra Sharma (Brown University) and Bernhard Hennig (University Kentucky)

14:00 – 14:30 **Surendra Sharma** (Brown University) Pregnancy and angiogenic disruption by PCBs

14:30 – 15:00 **Bernhard Hennig** (University of Kentucky) Nutritional modulation of PCB-mediated vascular endothelial dysfunction

15:00 – 15:30 **Lisa Cassis** (University of Kentucky) Obesity and PCBs

15:30 – 16:00 COFFEE BREAK & POSTER VIEWING

16:00 – 16:30 **Mary K. Walker** (University of New Mexico) The function of AhR in cardiovascular physiology

16:30 – 17:00 **Warren G. Foster** (McMaster University) Hormonal aspects of PCB congeners

17:00 – 17:30 **Biljana Skrbic** (University of Novi Sad, Serbia) Principal Component Analysis of Indicator PCB Profiles in Breast Milk in Poland

17:30 – 19:30 **POSTER SESSION** (Food and Libations will be provided)
(EVEN NUMBERED POSTERS WILL BE ATTENDED)

Wednesday, May 21st

Session 5

Anniston: The most severe US PCB community exposure

Session Chairs Allen Silverstone (SUNY Upstate Medical University and University Rochester School of Medicine) and Marian Pavuk (ATSDR/CDC)

8:30 – 8:40 **Allen Silverstone** Opening Remarks: Anniston: One of the most impacted communities in the world.

8:40 – 9:10 **Shirley Baker** (Anniston Community Leader, Mothers and Daughters Protecting Children's Health) How the community discovered they were Exposed to PCBs and What they did about it

9:10 – 9:40 **Allen Silverstone** The Anniston-PCB Consortium Health Study: Origins and Objectives

9:40 – 10:10 **James Olson** (SUNY at Buffalo) Assessing Environmental Contamination and Human Exposure to PCBs in Anniston, AL

10:10 – 10:40 COFFEE BREAK & POSTER VIEWING

10:40 – 11:10 **Fred Biasini** (University of Alabama Birmingham) A Study of Neurocognitive and Neurobehavioral Function in Children in Anniston Following PCB Exposure

11:10 – 11:40 **Herman Russell Foushee** (University of Alabama at Birmingham) Community Health Survey: Self Reported Conditions and Perceptions of Exposure

11:40 – 12:10 **Allen Silverstone** PCBs, Diabetes and Cardiovascular Risk Factors in the Anniston Community Health Survey Population

12:10 – 12:20 **Marian Pavuk** Closing Remarks

12:20 – 14:00 LUNCH & POSTER VIEWING

Wednesday, May 21st - CONTINUED

Session 6

TEFs: New and Novel approaches; Implications for Risk Assessment

Session Chairs Isaac Pessah (UC Davis) and Prasada Kodavanti (US EPA)

14:00 – 14:30 **Prasada Kodavanti** (US EPA) Introductory comments, what we know and what we need to know

14:30 – 15:00 **Pam Lein** (Oregon Health & Science U) How PCBs influence dendritic growth, complexity and neuronal plasticity - new concerns about PCB developmental neurotoxicity

15:00 – 15:30 **Rich Seegal** (U Albany) Effects of PCBs on dopaminergic systems, what we have learned from animal models and what we are learning from studies of capacitor worker

15:30 – 16:00 COFFEE BREAK & POSTER VIEWING

16:00 – 16:30 **Isaac Pessah** (UC Davis) Structure-activity relationship for non-coplanar persistent organic pollutants at Ca release channels- PCBs and beyond

16:30 – 17:00 **Ted Simon** Predictive risk modeling of persistent non-coplanar contaminants with low AhR activity - are we currently protecting health?

17:00 - 17:30 **Linda Birnbaum** (US EPA) summary and closing comments and general discussion.

19:00 - Evening - Banquet with local music and dancing

Updated April 4, 2008