

2011 Superfund Research Program Annual Meeting

Hilton Downtown Lexington • Lexington, KY • October 23 - 26

Superfund Research Program Annual Meeting

October 23-26, 2011

Hilton Lexington/Downtown

Sunday, October 23

- 1:30 pm - 8:00 pm** **Registration**
Second Floor Lobby
- 2:30 pm - 6:15 pm** **RO1 Meeting**
Bluegrass Room
- 5:00 pm - 6:30 pm** **Unique Career Opportunities in Environmental Sciences:
A Panel Discussion for SRP Trainees**
Moderator: Nancy Cox, Associate Dean
UK College of Agriculture
Magnolia Room
- 6:30 pm - 7:30 pm** **Trainee Social Gathering with Panelists**
Magnolia Room
- 7:30 pm - 9:00pm** **Welcome Reception**
Grand Ballroom
- ❖ Research Translation/Community Engagement Poster Session (7:30 pm)
 - ❖ “A Taste of Kentucky” Presentation (8:00 pm)

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Monday, October 24

8:00 am - 5:00 pm **Registration**
Second Floor Lobby

7:30 am - 8:30 am **Breakfast Buffet**
Grand Ballroom

8:30 am - 10:00 am **Welcome and Opening Statements**
Grand Ballroom

Bernhard Hennig
Director, University of Kentucky Superfund Research Program

Eli Capilouto
President, University of Kentucky

The Honorable Ben Chandler
United States House of Representatives, 6th District

Linda Birnbaum
Director, National Institute for Environmental Health Sciences, NIH

William Suk
Director, NIEHS Superfund Research Program

10:00 am - 10:30 am **Break**

10:30 am **Administrators Session Begins**
Bluegrass Room

10:30 am - 12:30 pm **Scientific Session One: Systemic Impacts of Superfund Pollutants on Biological Systems**
Grand Ballroom

Session Moderator: Norbert Kaminski, Director, University of Michigan SRP

Environmental Impacts on the Internal Ecosystem: Antibiotics and the Human Gut Microbiota
Les Dethlefsen, Stanford University

Presentations by Graduate Students and Postdoctoral Scholars

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Glutathione, Arsenic Methylation and Global DNA Methylation in Bangladesh

Megan Niedzwiecki, Columbia University

Aryl Hydrocarbon Receptor Mediated Induction of Stearoyl-CoA Desaturase 1 Alters Hepatic Fatty Acid Composition in TCDD-Induced Steatosis

Michelle Angrish, Michigan State University

Exploration of Oxidative Stress and Inflammatory Markers in Relation to Urinary Phthalate Metabolites: NHANES 1999-2006

Kelly Ferguson, University of Michigan

Environmentally Persistent Free Radicals Decrease Cardiac Function in Healthy Rats

Sara Mahne, Louisiana State University

Implications for Research Translation and Community Engagement

Sarah Wilkinson, University of Arizona

12:30 pm - 1:30 pm Lunch

Grand Ballroom

Trainee Lunch with Directors and Investigators

Kincaid Room

Training Core Leaders Lunch with Danielle Carlin (NIEHS)

Crimson Clover Room

1:30 pm

Administrators Session (continued)

Bluegrass Room

2:00 pm - 4:30 pm

Scientific Session Two: Emerging Models and Strategies for Modulating Chemical Insult in the Human Body

Session Moderator: Lisa Gaetke, University of Kentucky SRP

Grand Ballroom

Nutritional Modulation of Environmental Insults with Implications in Disease Development

Lisa Cassis, University of Kentucky SRP

Presentations by Graduate Students and Postdoctoral Scholars

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Co-Exposure of Low-Dose Extrapolated Model Testicular Toxicants (X-Radiation and 2,5-Hexanedione) Modulates Gene Alterations through Testicular Transcript Profiling

Natasha Catlin, Brown University

Association of Plasma Choline and Betaine with Arsenic Methylation

Megan Hall, Columbia University

3:00 pm - 3:30 pm **Break**

3:30 pm - 4:30 pm **Presentations by Graduate Students and Postdoctoral Scholars (continued)**

Rice Consumption Raises a Health Concern: Evidence from U.S. Pregnant Women

Diane Gilbert-Diamond, Dartmouth College

Dose Response Models of Blood Cell Counts, Biochemical Pathways and Gene Expression Following Exposure to Benzene

Reuben Thomas, University of California, Berkeley

Implications for Research Translation and Community Engagement

Kathleen Gray, University of North Carolina

4:30 pm - 6:30 pm **Poster Session and Reception**

Magnolia Room

7:00 pm - 9:00 pm **Directors' Dinner**

Jonathan's at Gratz Park (off-site)

7:00 pm - 9:00 pm **Trainee Social Hour/Dinner**

Off-site

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Tuesday, October 25

8:00 am - 5:00 pm **Registration**
Second Floor Lobby

7:30 am - 9:00 am **Breakfast Buffet**
Grand Ballroom

9:00 am - 9:45 am **Karen Wetterhahn Award Presentation**
Presenter: Gwen Collman, Director, Division of Extramural
Research and Training, NIEHS

Scientific Presentation by Wetterhahn Award Recipient

9:45 am - 10:00 am **Student Poster Awards**
Presenter: Gwen Collman, Director, Division of Extramural
Research and Training, NIEHS

10:00 am - 10:30 am **KC Donnelly Award Presentation**
Presenter: Danielle Carlin, Program Administrator, NIEHS/SRP

10:30 am - 11:00 am **Break**

11:00 am **Administrators Session Begins**
Bluegrass Room

11:00 am - 12:00pm **Scientific Session Three: Sustainable Strategies for the Detection and
Clean Up of Superfund Pollutants**
Session Moderator: Dibakar Bhattacharyya, University of
Kentucky SRP

Environmental Sustainability with Cleaner Methods
Subhas Sikdar, Associate Director for Science, National Risk
Management Laboratory, U.S. Environmental Protection Agency

Presentations by Graduate Students and Postdoctoral Scholars

**Monitoring Current-Use Pesticide Exposure Using Passive
Sampling Devices**
Kelly O'Neal, North Carolina State University

**Oxidation of Organic Contaminants by Activation of Persulfate and
Hydrogen Peroxide**

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Haizhou Liu, University of California, Berkeley

12:00 pm - 1:00 pm Lunch Lecture: Green Technologies

John Leazer, Director
Sustainable Technology Division
National Risk Management Research Laboratory
U.S. Environmental Protection Agency

1:30 pm Administrators Session (continued)

1:30 pm - 2:30 pm Presentations by Graduate Students and Postdoctoral Scholars (continued)

Iron-Based Nanostructured Materials for Water Purification

Minghui Gui, University of Kentucky

Bringing the Lab to the Field -- The In Situ Microcosm Array

Kristin McClellan, Arizona State University

Implications for Research Translation and Community Engagement

Kelly Pennell, University of Massachusetts - Dartmouth, Brown University
SRP

2:30 pm Closing Remarks

William Suk
Director, NIEHS Superfund Research Program

Bernhard Hennig
Director, University of Kentucky Superfund Research Program

**5:00 pm - 8:00 pm Research Translation/Community Engagement Core Dinner
*deSha's (off-site)***