

**U.S. ENVIRONMENTAL PROTECTION AGENCY
SCIENCE ADVISORY BOARD
Environmental Engineering Committee
Public Meeting
July 21 and 22, 2009
Kingsgate Marriott Conference Hotel at the University of Cincinnati
151 Goodman Drive, Cincinnati, Ohio, 45219**

AGENDA

July 21, 2009

- 8:30 - 8:35 a.m. **Opening Remarks**
Mr. Edward Hanlon, Designated Federal Officer
- 8:35 - 8:40 a.m. **Welcoming Remarks**
Dr. Vanessa Vu, Director, Science Advisory Board
- 8:40 - 8:50 a.m. **Purpose of the Meeting and Review of Agenda**
Dr. David A. Dzombak, Chair
- 8:50 – 10:15 a.m. **Overview of EPA’s Aging Drinking Water and Wastewater
Infrastructure Research Initiative**
Dr. Thomas Speth, Acting Division Director, EPA’s Office of Research
and Development (ORD), National Risk Management Research
Laboratory (NRMRL), Water Supply and Water Resources Division
(WSWRD), and other members of EPA/ORD
- 9:05 – 9:20 a.m. Condition assessment research
Dan Murray, EPA/ORD/NRMRL/WSWRD
- 9:20 – 9:35 a.m. System rehabilitation research
Ari Selvakumar, EPA/ORD/NRMRL/WSWRD, Urban Watershed
Management Branch
- 9:35 – 9:50 a.m. Advanced concepts research; innovative treatment technologies research
Rich Field, EPA/ORD/NRMRL/WSWRD, Urban Watershed
Management Branch
- 9:50 – 10:05 a.m. Cross-cutting, integrative research
Darren Lytle, EPA/ORD/NRMRL/WSWRD, Treatment Technology
Evaluation Branch
- 10:05 – 10:15 a.m. Goals for consultation from ORD perspective
Dr. Thomas Speth, Acting Division Director,
EPA/ORD/NRMRL/WSWRD

July 21, 2009 (continued)

10:15 – 10:30 a.m. **BREAK**

10:30 – 10:45 a.m. **Review of Charge Questions**
Dr. David A. Dzombak and Dr. Thomas Speth

10: 45 – 11:00 a.m. **Public Comments**

11:00 – 11:45 a.m. **Committee Discussion – Charge Question 2(a)**
Dr. David A. Dzombak, Chair, and Committee Members

- Charge Question #2(a): Comment on whether research on *condition assessment* will result in tangible outputs and outcomes that will support Aging Infrastructure Research Program goals
 - Charge Question #2(a):
 - Mr. John Colbert
 - Dr. Michael K. Stenstrom
 - Mr. Larry Jaworski
 - Dr. Horace Moo-Young

11:45a.m.–12:45p.m. **LUNCH**

12:45 – 1:30 p.m. **Committee Discussion – Charge Question 2(b)**

- Charge Question #2(b): Comment on whether research on *system rehabilitation* will result in tangible outputs and outcomes that will support Aging Infrastructure Research Program goals
 - Charge Question #2(b):
 - Mr. Larry Johnson
 - Dr. James R. Mihelcic
 - Dr. John C. Crittenden
 - Ms. Liliana Maldonado

1:30 – 2:15 p.m. **Committee Discussion – Charge Question 2(c)**

- Charge Question #2(c): Comment on whether research on *advanced concepts and innovative treatment technologies* will result in tangible outputs and outcomes that will support Aging Infrastructure Research Program goals
 - Charge Question #2(c):
 - Dr. John C. Crittenden
 - Mr. Michael Selna
 - Dr. John R. Smith
 - Dr. Michael K. Stenstrom

July 21, 2009 (continued)

- 2:15 – 3:00 p.m. **Committee Discussion – Charge Question 2(d)**
- Charge Question #2(d): Comment on whether the *cross-cutting, integrative research* on water infrastructure will result in tangible outputs and outcomes that will support Aging Infrastructure Research Program goals
 - Charge Question #2(d):
 - Dr. Mark Rood
 - Dr. Vanessa Speight
 - Dr. James R. Mihelcic
 - Dr. Catherine Peters
- 3:00 – 3:15 p.m. **BREAK**
- 3:15 – 4:15 p.m. **Committee Discussion – Charge Question 1**
- Charge Question #1: Comments on major goals of aging water infrastructure program, including: a) whether program is focused appropriately on major water infrastructure technical issues, and b) what refinements could improve program effectiveness.
 - Charge Question #1:
 - Dr. Catherine Peters
 - Mr. Michael Selna
 - Dr. Cindy Lee
 - Ms. Liliana Maldonado
- 4:15 – 4:45 p.m. **Summary and Discussion of Key Points – Charge Questions 1 & 2**
Dr. David A. Dzombak, Chair, and Committee Members
- 4:45 – 5:00 p.m. **Review of Plan for July 22; Closing Comments**
Dr. David A. Dzombak, Chair, and Committee Members

July 22, 2009

8:00 – 8:10 a.m.

Reconvening of Meeting

Edward Hanlon, DFO

8:10 – 8:15 a.m.

Review of Agenda for July 22

Dr. David A. Dzombak, Chair

8:15 – 9:15 a.m.

Committee Discussion – Charge Question 3

- Charge Question #3: Comment on whether the following research approach is appropriately designed in sequence to meet program goals: a) national and regional assessments, b) analyze “state of the technology,” and c) move “state of the technology” forward through demonstration of innovation
 - Charge Question #3:
 - Mr. Larry Johnson
 - Dr. Reid Lifset
 - Mr. John Colbert
 - Dr. Mark Rood

9:15 – 10:00 a.m.

Committee Discussion - Charge Question 4

- Charge Question #4: Comment on whether ORD is collaborating with appropriate research partners, and whether other potential partners should engaged with
 - Charge Question #4:
 - Mr. Larry Jaworski
 - Dr. Cindy Lee
 - Dr. Viney Aneja
 - Dr. John R. Smith

10:00 – 10:15 a.m.

BREAK

10:15 – 11:00 a.m.

Committee Discussion – Charge Question 5

- Charge Question #5: Comment on whether ORD is engaged with appropriate stakeholders to attain Aging Infrastructure Research Program goals and to transfer results to appropriate users.
 - Charge Question #5:
 - Dr. Horace Moo-Young
 - Dr. Vanessa Speight
 - Dr. Viney Aneja
 - Dr. Reid Lifset

July 22, 2009 (continued)

- 11:00 – 11:30 a.m. **Summary and Discussion of Key Points – Charge Questions 3-5**
Dr. David A. Dzombak, Chair, and Committee Members
- 11:30 – 11:50 a.m. **Feedback from EPA ORD Regarding EEC Response to Charge Questions**
Dr. Thomas Speth, EPA ORD
- 11:50a.m.–12:00p.m. **Summary of the Discussion and Action Items**
Dr. David A. Dzombak, Chair, and Committee Members
- 12:00 p.m. **Adjourn**
Edward Hanlon, DFO