

**U.S. ENVIRONMENTAL PROTECTION AGENCY
SCIENCE ADVISORY BOARD**

**Environmental Engineering Committee, Augmented for Advice on EPA's Research
Program Related to Hydraulic Fracturing**

**April 7-8, 2010
St. Regis Hotel
923 16th Street, N.W., Washington, D.C. 20006**

Purpose of Meeting: Provide advice on EPA's Office of Research and Development (ORD) proposed approach to be used to frame the hydraulic fracturing study design and the areas that will be addressed by research relevant to hydraulic fracturing

April 7, 2010

8:30 - 8:40 AM	Opening and Welcoming Remarks	Mr. Edward Hanlon <i>Designated Federal Officer SAB Staff Office</i> Dr. Anthony Maciorowski <i>Deputy Director SAB Staff Office</i>
8:40 - 8:55 AM	Introduction of Members and Review of Agenda	Dr. David A. Dzombak <i>Chair</i>
8:55 - 9:15 AM	Introductory Remarks from EPA Office of Research and Development and EPA Program Office	Dr. Kevin Teichman <i>Deputy Assistant Administrator for Science; EPA Office of Research and Development</i> Ms. Cynthia C. Dougherty <i>Office Director; EPA Office of Ground Water and Drinking Water</i>

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9:15 – 9:40 AM	Introduction to Approach for Developing EPA’s Hydraulic Fracturing Research	Dr. Audrey Levine <i>National Program Director for Drinking Water Research; EPA Office of Research and Development</i>
	Overview of Initial Design of EPA Research Study on Potential Relationships Between Hydraulic Fracturing and Drinking Water Resources	Dr. Robert Puls <i>Project Manager and Technical Lead; EPA Office of Research and Development</i>
	Concepts for Stakeholder Involvement	Ms. Ann Codrington <i>EPA Office of Ground Water and Drinking Water</i>
9:40 – 10:00 AM	Questions/Answers with Dr. Levine, Dr. Puls and Ms. Codrington	Dr. David A. Dzombak and Committee Members
10:00 – 10:15 AM	BREAK	
10:15 – 11:30 AM	Public Comments	Commenters
11:30 – 12:00 AM	General Discussion	Dr. David A. Dzombak and Committee Members
12:00 – 1:00 PM	LUNCH	
1:00 – 3:00 PM	Committee Discussion Charge Question #2A: Proposed Research Topics	
	Charge Question 2A: Hydraulic fracturing lifecycle	<u>Lead Discussants:</u> Dr. Autenrieth Dr. Connolly Dr. Horvath

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	Charge Question 2A: Potential Relationships to Drinking Water	<u>Lead Discussants:</u> Dr. Reible Dr. Roy Dr. Shannon Dr. Westerhoff
	Charge Question 2A: Potential Health and Environmental Risks	<u>Lead Discussants:</u> Dr. Griffiths Dr. Korrick Dr. Patten
3:00 – 3:15 PM	BREAK	
3:15 – 4:30 PM	Committee Discussion (Continued) Charge Question #2A: Proposed Research Topics	
4:30 – 5:00 PM	Summary of Discussion Charge Question #2A	Dr. David A. Dzombak and Committee Members
5:00 PM	Adjourn	Mr. Edward Hanlon

April 8, 2010

8:00 – 8:10 AM	Reconvening of Meeting	Mr. Edward Hanlon
8:10 – 9:30 AM	Committee Discussion: Charge Question #1: Proposed Scope of Study; and Charge Question #2B: Prioritizing Research Needs	<u>Lead Discussants:</u> Dr. Lee Dr. Peters Dr. Shortle Dr. Young
9:30 – 9:45 AM	BREAK	

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9:45 – 10:30 AM	Committee Discussion: Charge Question #3: Stakeholder Process	<u>Lead Discussants:</u> Dr. Aneja Dr. Elliot Dr. Nance
10:30 – 11:30 AM	Summary of Discussion of Charge Questions #1, 2B, and 3, and Committee Discussion on Remaining Issues	Dr. David A. Dzombak and Committee Members
11:30 – 12:00 AM	Action Items and Plan for Report	Dr. David A. Dzombak and Committee Members
12:00 PM	Adjourn	Mr. Edward Hanlon