

**Workshop on Elongate Mineral Particles:
Integrating Terminology, Characterization, and Health Effects**

September 7-8, 2016

Lister Hill Conference Center on NIH Campus

Bethesda, MD

Wednesday September 7, 2016		Perspective Presenters		
8:00am – 8:30am	Registration	Mineralogical	Health & Toxicology	Laboratorian
8:30am – 8:40am	Welcome and Introduction	John Howard and Jessica Kogel		
8:40 – 9:00am	Setting the Stage	Martin Harper		
9:00am – 9:45am	I. Characterization of EMPs in Bulk and Soil Samples	Ann Wylie	Aubrey Miller	Jim Millette
9:45am-10:15am	Illustrative Case Studies on Terminology and Characterization: <ul style="list-style-type: none"> • Talc • Taconite 	Julie Pier and Sean Fitzgerald Yuan Shao		
10:15am- 11:30am	Panel: Presenters on EMPs in Bulk and Soil samples in Discussion with the Audience	A Wylie, A Miller, J Millette, J. Pier, S. Fitzgerald, Y Shao		
11:30am – 12:30pm	Lunch – on your own			
12:30pm – 1:15pm	II. Characterization of EMPs in Air and Water Samples	Martin Harper	Chris Weis	Garry Burdette
1:15pm –1:45pm	Illustrative Case Studies on Terminology and Characterization: <ul style="list-style-type: none"> • Libby • Calavaris Dam Project 	Greg Meeker Bradley Erskine		
1:45pm – 2:30pm	Panel: Presenters in Discussion of EMPs in Air and Water Samples with the Audience	M. Harper, C. Weis, G. Burdette, G. Meeker, B. Erskine		
2:30pm – 2:45pm	Break			
2:45pm – 3:30pm	III. Characterization of EMPs in Biological Samples	George Guthrie	Vic Roggli	Vince Castranova
3:30pm – 4:15pm	Panel: Presenters EMPs in Biological Samples in Discussion with the Audience	G. Guthrie, V. Roggli, V. Castranova		
4:15pm-5:00pm	Summarization of the Day:	Martin Harper		

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Thursday September 8, 2016				
8:00am – 8:15am	Brief Summary and Intro to Day 2	Martin Harper		
8:15am – 8:30am	Research Priorities for Characterization	Rod Metcalf		
8:30am – 8:45am	Background Level Issues	Dave Berry		
8:45am – 9:30am	Characterization Issues: <ul style="list-style-type: none"> a. How much of the sample is representative of the whole sample? b. Resolving variation between different laboratories c. What is the minimal number of EMPs (EM and EDS) for accurate characterization d. Analytical calibration and reference materials 	Martin Harper	Dan Crane	Eric Chatfield
9:30am – 10:00am	Emerging technologies for EMP characterization (auto counting, personal monitoring, etc.)	Chris Weis		
9:30am – 10:00am	Break			
10:00am – 11:00am	Panel: Presenters on research, priorities, background level, emerging technologies and other issues in Discussion with the Audience	Rod Metcalf, Dave Berry, D. Crane, Eric Chatfield, Chris Weis		
11:00am – 11:30am	Segue to Health Effect: Emerging technologies for animal dosing.	Urmila Kodavanti		
11:30 am – 1:00pm	Lunch – on your own			