

The Monticello Conference



2017 SUNDAY, OCTOBER 15

12.00 pm – 5.00 pm	Registration/Hospitality in the Tack Room at Boar's Head Inn
	MONDAY, OCTOBER 16
9.00 am – 5.30 pm	Registration/Hospitality in the Tack Room at Boar's Head Inn
3.15 pm	Meet in lobby of Boar's Head Inn
3.30 pm	Depart for the Behind the Scenes Tour of Monticello
4.00 pm	Behind the Scenes Tour begins
6.00 pm	Behind the Scenes Tour concludes, depart for Montalto (<i>this dinner is for conference attendees only, spouses/guests will be returned to Boar's Head Inn</i>)
6.00 pm	Meet in lobby of Boar's Head Inn, depart for reception and dinner at Montalto (<i>for conference attendees who did not</i> <i>go on the tour, but are planning to attend the dinner</i>)
6.30 pm – 7.30 pm	RECEPTION
7.45 pm – 9.00 pm	DINNER
9.30 pm	RETURN TO BOAR'S HEAD INN







TUESDAY, OCTOBER 17

6.30 am – 8.00 am	BREAKFAST AT BOAR'S HEAD INN Hearth Room
8.00 am	MEET IN LOBBY OF BOAR'S HEAD INN
8.15 am	DEPART FOR MONTALTO
9.00 am - 9.15 am	WELCOME AND MEETING OVERVIEW David Weill

SESSION I: DEFINING EMPS

Moderator: Ann Wylie Rapporteur: Bob Nolan, Alan Rogers, Christy Barlow

9:15 am - 9:30 am

CHARACTERISTICS OF NATURALLY OCCURRING EMPS

Mickey Gunter Elongate Mineral Particles in the Natural and Built Environment 9.30 am – 9.40 am Questions

9.40 am - 9.55 am

EMPS FROM EXCAVATION

Bradley Erskine

An Example: Calaveras Dam Replacement Project 9.55 am – 10.05 am Questions

TUESDAY, OCTOBER 17 (CONTINUED)

10.05 am - 10.20 am

MEASURING EMPS IN THE LUNG

Victor Roggli What Can Be Measured in the Lung: Asbestiform Minerals and Cleavage Fragments 10.20 am – 10.30 am Questions

10.30 am - 10.45 am

Coffee Break

10.45 am - 11.00 am

CHARACTERISTICS OF LUNG BURDEN EMPS

Fred Pooley

Analysis of Respirable Fibrous Particles 11.00 am – 11.10 am Questions

11.10 am - 11.25 am

BACKGROUND LEVELS OF EMPS

Drew Van Orden Identification and Analysis of Ambient EMPs 11.25 am – 11.35 am Questions

11.35 am - 11.50 am

EMP DEPOSITION AND RETENTION IN THE HUMAN LUNG

Bahman Asgharian

Dosimetry of Inhaled Elongated Particles in the Respiratory Tract: The Impact of Shape Factor 11.50 am – 12.00 pm Questions

12.00 pm – 12.15 pm

MEASUREMENT OF EMPS

Eric Chatfield What We Should Measure and How Do We Do It? 12.15 am – 12.25 pm Questions

12.30 pm - 1.30 pm

Lunch

TUESDAY, OCTOBER 17 (CONTINUED)

1.30 pm - 2:30 pm

GENERAL DISCUSSION

EMP Definitions: What Can and What Should be Known About Them That Would Inform Health-Related Studies

SESSION II: EFFECTS AND MECHANISMS

Moderator: Roger McClellan Rapporteurs: Eric Chatfield, Victor Roggli, Murray Finkelstein

2.30 pm – 2.45 pm

EFFECTS AND MECHANISMS

Gunter Oberdorster

Extrinsic and Intrinsic Physico-Chemical Properties of EMPs: Predictors of Toxicity 2.45 pm - 2.55 pm Questions

2.55 pm- 3.10 pm

IN VITRO MODELS AND EXPERIMENTS

Brooke Mossman Mechanistic Studies of EMPs: Cell Cultures, Organ Cultures and Beyond? 3.10 pm - 3.20 pm Questions

3.20 pm - 3.35 pm

BIOPERSISTENCE AND OTHER OBSERVATIONS FROM EXPERIMENTAL STUDIES

David Bernstein Comparative Analysis of Elongated Mineral Particles Using Quantitative Inhalation Toxicology 3.35 pm - 3.45 pm Questions

3.45 pm - 4:00 pm

Coffee Break

TUESDAY, OCTOBER 17 (CONTINUED)

4.00 pm - 4.15 pm

WHAT CAN WE LEARN FROM NANO PARTICLE STUDIES?

Agnes Kane The Asbestos-Carbon Nanotube Analogy: An Update 4.15 pm – 4.25 pm Questions

4.25 pm - 4.40 pm

BIOLOGICAL RESPONSES TO EMPS

Uschi Graham Translocation, Bioprocessing and Tissue Interactions of EMPs following Inhalation Exposure

4.40 pm - 4.50 pm Questions

4.50 pm – 5.05 pm

TOXICITY PREDICTION

Alessandro Gualtieri Towards a General Model to Predict the Toxicity of Mineral Fibers 5.05 pm - 5.15 pm Questions

- 5.30 pm **DEPART MONTALTO**
- 6.00 pm ARRIVE BOAR'S HEAD INN
- 7.00 pm COCKTAILS & DINNER AT BOAR'S HEAD INN Hearth Room



The Monticello Conference



WEDNESDAY, OCTOBER 18

6.30 am - 8.00 am	BREAKFAST AT BOAR'S HEAD INN Hearth Room
8.00 am 8.15 am	MEET IN LOBBY OF BOAR'S HEAD INN DEPART FOR MONTALTO
9.00 am – 10.30 am	

GENERAL DISCUSSION

Toxicology, Mechanisms and Experimental Issues

10.30 am - 10.45 am

Coffee Break

SESSION III: HUMAN EXPOSURE, EFFECTS AND RISKS

Moderator: Graham Gibbs Rapporteurs Wayne Berman, Morton Lippmann, Philip Hibbs

10.45 am - 11.00 am

RELATIONSHIPS BETWEEN QUALITATIVE ASPECTS OF EXPOSURE AND DISEASE FROM LUNG TISSUE STUDIES

Bruce Case

Does Qualitative Examination of EMP Recovered from Human and Animal Lungs Provide Reliable Information on their Carcinogenic and other Effects?

11.00 am - 11.10 am Questions

11.10 am - 11.25 am

THE EPIDEMIOLOGIC EVIDENCE FOR EMP-RELATED HUMAN HEALTH EFFECTS

Paola Boffetta

Carcinogenic Risk of Elongated Particles: The Contribution of Epidemiology 11.25 am - 11.35 am Questions

WEDNESDAY, OCTOBER 18 (CONTINUED)

11.35 am - 11.50 am

PARTICLE DIMENSIONS AND MESOTHELIOMA

Ed Ilgren and Yosara Andrea Mejia The Role of Fiber Width in Mesothelioma - Bolivian Crocidolite, Finnish Anthophyllite and Fiber Width 11.50 am - 12.00 pm Questions

12.00 pm – 12.15 pm

ARE CANCER RISKS IN TACONITE MINING CAUSED BY ASBESTIFORM OR NON-ASBESTIFORM EMPS?

Jeff Mandel The Taconite Story 12.15 pm - 12.25 am Questions

12.25 pm - 12.40 pm

NON-CANCER ENDPOINT RISKS WE MIGHT ANTICIPATE FROM NON-ASBESTIFORM EMPS

Mark Utell Refractory Ceramic Fibers as an EMP: Fibre Characteristics, Potential Health Effects and Clinical Observations

12.40 pm - 12.50 am Questions

12.50 pm - 1.50 pm Lunch

1.50 pm – 2.05 pm

OTHER FACTORS TO CONSIDER; SURFACE PROPERTIES

Art Langer and Robert Nolan

Surface Chemistry and Structure: Factors Controlling the Biological Potential of Inorganic Particulate

2.05 pm - 2.15 pm Questions

2.15 pm – 2.30 pm

FIBER POTENCY VS EMP POTENCY IN HUMANS

David Garabrant Fiber Potency Analyses for Mesothelioma and Lung Cancer 2.30 pm - 2.40 pm Questions

WEDNESDAY, OCTOBER 18 (CONTINUED)

2.40 pm - 2.55 pm

DOSE RESPONSE

Tony Cox

Biomathematical Mechanisms of Non-Linear Dose-Response for Respirable Elongated Mineral Particles 2.55 pm - 3.05 pm Questions

3.05 pm – 3.20 pm

RISK FROM NON-OCCUPATIONAL EMP EXPOSURES

Bian Liu

Environmental Mesothelioma Risk 3.20 pm – 3.30 pm Questions

3.30 pm – 3.45 pm Coffee Break

3.45 pm – 4.00 pm

MESOTHELIOMA AND TALC

Gary Marsh and Christy Barlow The Mineralogy and Epidemiology of Cosmetic Talc 4.00 pm – 4.10 pm

4.10 pm - 4.25 pm

RISK ESTIMATES FOR EMPS

Annie Jarabek

What a Difference the Dose Makes: Dosimetry Approaches to Aid Experimental Design, Inform Inferences, and Support Evidence Integration for Risk Assessment Applications 4.25 pm – 4.35 pm Questions

4.45 pm	DEPART MONTALTO
5.15 pm	ARRIVE BOAR'S HEAD INN
6.00 pm	MEET IN LOBBY OF BOAR'S HEAD INN
6.15 pm	DEPART FOR FARMINGTON COUNTRY CLUB
6.30 pm - 7:30 pm	RECEPTION - LOWER PATIO
7.45 pm - 9:30 pm	DINNER - MAIN DINING ROOM
9.45 pm	RETURN TO BOAR'S HEAD INN



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The Monticello Conference

THURSDAY, OCTOBER 19

6.30 am - 8.00 am	BREAKFAST AT BOAR'S HEAD INN Hearth Room
8.00 am	MEET IN LOBBY OF BOAR'S HEAD INN
8.15 am	DEPART FOR MONTALTO

9.00 am -10.00 am

OTHER FACTORS TO CONSIDER: GENETICS AND THE ENVIRONMENT

Michele Carbone Gene-Environment Interaction in Asbestos Carcinogenesis and Mesothelioma 10.00 am - 10.15 am Questions

10.15 am - 10.30 am

Coffee Break

10.30 am - 12.00 pm

GENERAL DISCUSSION

Is there human evidence that non-asbestiform EMPS cause health effects? If so, under what circumstances? What are the levels of risk from EMPS?

12.00 pm - 1.00 pm

Lunch

SESSION IV: RAPPORTEURS REPORTS AND GENERAL DISCUSSION

Moderator: John Hoskins Rapporteurs: Brooke Mossman, Gunter Oberdorster, Robert Glenn

1.00 pm – 4.00 pm

THURSDAY, OCTOBER 19 (CONTINUED)

SESSION V: FUTURE RESEARCH

Moderator: David Weill Rapporteurs: Gunter Oberdorster, Brooke Mossman, Robert Glenn

4.00 pm – 4.15 pm

STATE OF KNOWLEDGE IN FRANCE

Erell Leocat

State of Knowledge in France Pertaining to Legislation and to the ANSES Report

4.15 pm - 4.25 pm Questions

4:25 pm – 5:30 pm

GENERAL DISCUSSION WHAT WE DO NOT KNOW AND WHAT IS NEEDED TO FILL THE GAPS

5.30 pm	DEPART MONTALTO
6.00 pm	ARRIVE AT ROTUNDA
6.15 pm - 7:15 pm	RECEPTION - UPPER WEST OVAL ROOM
7.45 pm	DINNER - DOME ROOM

9.00 pm KEYNOTE SPEAKER: ANDREW O'SHAUGHNESSY

"The Illimitable Freedom of the Human Mind" Thomas Jefferson's Idea of a University

CLOSING REMARKS

10.00 pm RETURN TO BOAR'S HEAD INN

FRIDAY, OCTOBER 20

6.30 am - 8.30 am BREAKFAST AT BOAR'S HEAD INN Hearth Room