



NTSB Public Forum April 11-12, 2013

DAY ONE

Opening Remarks from Chairman Deborah Hersman

9:00 a.m. – 9:10 a.m.

Overview of Forum Format and Housekeeping

9:10 a.m. – 9:15 a.m.

Panel 1: Design, Development, and Use of Lithium Ion Battery Technology

Technical Panel: John Vorderbrueggen – Chair, Jennifer Morrison, Matt Nicholson, Carl Schultheisz

Objective: This panel will discuss the design, development, and performance of lithium ion batteries. The design and development discussion will focus on battery configurations; advantages and disadvantages based on chemistry, power stability, and energy density; physical and electrical protective devices; manufacturing procedures and best practices; and quality assurance. The battery performance discussion will explore failure modes and other performance issues. Discussions will also include the range of lithium ion battery manufacturing processes.

Anticipated Schedule:

- 9:15 a.m. – 10:15 a.m.: Presentations from panelists (10 minutes each)
- 10:15 a.m. – 10:45 a.m.: Break
- 10:45 a.m. – 11:25 a.m.: Q&A with technical panel
- 11:25 a.m. – 12:05 p.m.: Q&A with NTSB Board Members

Panelists:

- Dr. M. Stanley Whittingham, PhD
Binghamton University
- Dr. Yet-Ming Chiang, PhD
Massachusetts Institute of Technology
- Dr. Daniel Doughty, PhD
Battery Safety Consulting, Inc.
- Dr. Judy Jeevarajan, PhD
NASA

- Mr. Vince Visco
Quallion, LLC
- Mr. Glen Bowling
Saft Specialty Battery Group

Lunch (12:05 p.m.-1:30 p.m.)

Panel 2: Regulations and Standards for Lithium Ion Batteries

Technical Panel: Paul Stancil – Chair, Muhamed El-Zoghbi, John Lovell, Tom Barth

Objective: This panel will provide an overview and update of domestic and international regulatory requirements and standards associated with manufacturing, consumer and industry use, and transportation of lithium ion battery cargo. Topics will also include current and future lithium ion battery safety challenges for regulatory agencies and standard setting organizations.

Anticipated Schedule:

- 1:30 p.m. – 2:30 p.m.: Presentations from panelists (10 minutes each)
- 2:30 p.m. – 3:00 p.m.: Break
- 3:00 p.m. – 3:40 p.m.: Q&A with technical panel
- 3:40 p.m. – 4:20 p.m.: Q&A with NTSB Board Members

Panelists:

- Mr. George Kerchner
Portable and Rechargeable Battery Association
- Ms. Janet McLaughlin
Federal Aviation Administration
- Mr. Duane Pfund and Mr. Kevin Leary
Pipeline and Hazardous Materials Safety Administration
- Ms. Laurie B. Florence
Underwriters Laboratories, Inc.
- Mr. Keith Wilson
SAE International
- Ms. Margaret Jenny
RTCA

Day One Closing Remarks

4:20 p.m. – 4:30 p.m.

DAY TWO

Opening Remarks from Chairman Deborah Hersman

9:00 a.m.-9:05 a.m.

Reminder of Forum Format and Housekeeping

9:05 a.m.-9:10 a.m.

Panel 3: Lithium Ion Battery Applications and Safety in Transportation

Technical Panel: Tom Barth – Chair, Paul Schuda, Eric Stolzenberg , Tim LeBaron, Nancy McAtee

Objective: This panel will discuss the application and safety aspects of lithium battery technology in various transportation modes. The integration of the technology into existing designs will be explored including design standards, advantages and risks associated with use, reliability and failure; and what future use is planned. The panel will also discuss safety management considerations and strategies for first responders.

Anticipated Schedule:

- 9:10 a.m. – 10:10 a.m.: Presentations from panelists (10 minutes each)
- 10:10 a.m. – 10:40 a.m.: Break
- 10:40 a.m. – 11:20 a.m.: Q&A with technical panel
- 11:20 a.m. – 12:00 p.m.: Q&A with NTSB Board Members

Panelists:

- Mr. Jeff Dermott
EaglePicher
- Ms. Celina Mikolajczak
Tesla Motors
- Mr. Patrick Davis
U. S. Department of Energy
- Mr. Steve Summers
NHTSA
- Mr. Kevin Cook
NAVSEA
- Mr. Ken Willette
National Fire Protection Association

Day Two Closing Remarks

12:00 p.m.-12:15 p.m.