

## 5th ICCT Workshop on Marine Black Carbon Emissions

September 19-20, 2018

Energy Foundation Offices, 301 Battery St., Fifth Floor, San Francisco, California, USA 94111

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### Agenda

**Workshop Goal:** Identify the most appropriate black carbon control measures for international shipping.

#### Day 1

Time	Activity	Details
9:00-9:30	<b>Registration, coffee/tea and light breakfast</b>	
9:30-10:00	<b>Review of agenda and workshop goals</b> Dan Rutherford, ICCT	
10:00-10:30	<b>Taking stock: Where are we on defining, measuring, and controlling BC?</b> Bryan Comer, ICCT	Brief review of the progress to date
10:30-11:00	<b>Update on IMO's BC Correspondence Group</b> Alissa Boardley, Transport Canada	Goal: Learn the status of the IMO BC CG discussions
11:00-11:30	<b>New research on BC Control, Part 1</b> Stéphanie Gagné, NRC Canada	BC from dual fuel diesel/LNG engine
11:30-12:00	<b>New research on BC Control, Part 2</b> Chiori Takahashi, NMRI Japan	BC after a DPF
12:00-12:15	<b>Group Photo</b>	
12:15-13:15	<b>Lunch</b> (Provided)	
13:15-13:45	<b>New research on BC Control, Part 3</b> Päivi Aakko-Saksa, VTT Finland	BC after diesel oxidation catalysts and scrubbers
13:45-14:15	<b>New research on BC Control, Part 4</b> John Storey, Oak Ridge National Laboratory, USA	BC with biofuels
14:15-14:45	<b>New research on BC Control, Part 5</b> Sunho Park, Dankook University, Korea	BC after DPFs and electrostatic precipitators
14:45-15:15	<b>Zero emission vessels (ZEVs)</b> Joseph Pratt, Golden Gate Zero Emission Marine	New work on building ZEVs
15:15-15:30	<b>Coffee/tea break</b>	
15:30-15:45	<b>Scrubber Design and BC</b> Wanye Miller, University of California, Riverside	How scrubbers work
15:45-16:45	<b>Discussion: Criteria for appropriate control measures, Part 1</b> Bryan Comer and Dan Rutherford, ICCT, Facilitators	Goal: Begin discussion
16:45-17:15	<b>Day 1 Closing remarks</b> Dan Rutherford, ICCT	- Closing remarks - Preview of Day 2 agenda - Logistics for dinner
17:15	<b>Adjourn for the day</b>	
18:30-21:00	<b>Group Dinner</b> (complimentary) E&O Kitchen and Bar, 314 Sutter St., San Francisco, CA	Join your colleagues for dinner.

**Day 2**

9:00-9:30	<b>Coffee/tea and light breakfast</b>	
9:30-10:00	<b>Recap of Day 1</b> Dan Rutherford, ICCT	Brief recap of Day 1
10:00-10:45	<b>Discussion: Criteria for appropriate control measures, Part 2</b> Bryan Comer and Dan Rutherford, ICCT, Facilitators	Goal: Agree on criteria for “appropriate” BC controls
10:45-12:00	<b>Discussion: What are the most appropriate control measures based on the criteria? Part 1</b> Bryan Comer and Dan Rutherford, ICCT, Facilitators	Goal: Begin discussion
12:00-13:00	<b>Lunch</b> (Provided)	
13:00-14:30	<b>Discussion: What are the most appropriate control measures based on the criteria? Part 2</b> Bryan Comer and Dan Rutherford, ICCT, Facilitators	Goal: Continue discussion
14:30-14:45	<b>Coffee/tea break</b>	
14:45-15:45	<b>Discussion: What are the most appropriate control measures based on the criteria? Part 3</b> Bryan Comer and Dan Rutherford, ICCT, Facilitators	Goal: Agree on appropriate BC controls
15:45-16:05	<b>Coffee/tea break</b>	
16:05-16:45	<b>Summary of workshop outcomes</b> Dan Rutherford, ICCT	Goal: Agree on key workshop outcomes, including appropriate control measures
16:45-17:00	<b>Closing remarks</b> Dan Rutherford, ICCT	
17:00	<b>Adjourn</b>	
17:15+	<b>Happy Hour</b> Royal Exchange, 301 Sacramento St., San Francisco, CA	Join us for an informal networking happy hour!