

SNAME Symposium
April 28-29
San Francisco, CA, USA

OPERATING SHIPS WITHIN EMISSION CONTROL AREAS (ECA's)

Understanding Fuel Switching, Appropriate Vessel & Equipment Configurations, and Compliance Concerns

The geographic regions in which only low sulfur fuel can be used are growing. Whether it is regional air quality regulations (e.g. CARB) or international Emissions Control Areas (ECAs) as defined by IMO, the commercial vessel operator is faced with the task of regularly switching HFO burning diesels to distillate. Some operators are experiencing difficulties during the fuel switching process and during sustained operation on marine distillates due to the effects of the low sulfur and low viscosity characteristics of this fuel. These can be manifested in higher maintenance costs, changes in fuel oil handling and storage systems, and decreases in plant reliability during critical maneuvering operations.

This symposium will examine the operational issues and practical experiences of fuel switching from multiple view points, including those of owners/operators, regulators, fuel suppliers, machinery manufacturers, and those responsible for vessel safety. Panel discussions will encourage dialog between all interested parties. It is intended that this dialog and the information presented will help ship owners and operators meet the requirements for fuel switching safely and reliably.

Venue

Aboard Commodore Events Vessels, embarkation at 2394 Mariner Square Drive, Alameda

Schedule

April 28, Wednesday - Evening dinner cruise on San Francisco Bay
5:45PM Boarding in Alameda
6:00PM – 9:00PM Cruise and Dinner

April 29, Thursday - Technical Meetings
7:30AM –Boarding in Alameda
8:00AM – 5:00PM – dockside for meetings.
Continental breakfast, lunch buffet on board

Web Site:

<http://www.sname.org/SNAME/ECA>



Technical Program (Thursday, April 29)

0730 Registration and Continental Breakfast

0800 Welcome

0815 Regulatory background, status and enforcement

Session Chair: Keith Michel, President SNAME

Overview and background of IMO ECA requirements and developments at EPA for the North American ECA

Mike Samulski, EPA

Flag and Port State Enforcement

CDR Lee Boone, Chief of Domestic Vessel Compliance, USCG

Classification Society Role in the Implementation of Low Sulfur Fuel Regulations

Roy Bleiberg, ABS Americas Division

Report on CARB Industry forum on operating within the California 24nm ECA

Bonnie Soriano, California Air Resources Board

1015-1030 Break

1030 Vessel and engine capabilities for operating for extended periods on these fuels and modifications that may be required

Session Chair: Charlie Walther

Fuel Storage and handling systems, and the costs of operating in ECA's

Eugene van Rynbach, Herbert Engineering

2 Stroke Diesel Engines – Operating for extended periods with low sulfur fuels

Kjeld Aabo, MAN Diesel

4 Stroke Diesel Engines – Operating for extended periods with low sulfur fuels

John Hatley, Wartsila North America, Inc.

Marine Auxiliary Boilers: Distillate Fuel Conversion and Operation

Kevin Reynolds, The Glosten Associates

Marine Boilers – Operating for extended periods with low sulfur fuels

Boelo Lussenburg and Kasthuri R. Chelliah, Aalborg Industries Inc.

1245-1345 Lunch

1345-1430 Fuel and Cylinder Oil characteristics, availability, and quality

Session Chair: Jerry Aspland

Fuel and cylinder lube oil characteristics to monitor in order to avoid degraded engine performance.

Kjeld Aabo, MAN Diesel

Bunker market: current/future availability and knowing what to order to get what you need

Richard Clark, World Fuels

1430-1445 Break

1445 Panel: Fuel switching experiences and current/best practices

Session Chair: Spencer Schilling

Teekay Corporation, Mark Cameron
Chevron Shipping, Dave Wall
A P Moller Maersk, Neils Bjorn Mortensen
Matson Navigation, Dragan Samardzic
California Maritime Academy, Robert Jackson,

1645 Closing Remarks

Special Arrangements with CARB forum

This meeting has been arranged to compliment the Industry Forum on low sulfur fuel operations being conducted by the California Air Resources Board (CARB) on Wednesday April 28 in downtown Oakland. The CARB forum is focused on the requirements of California while the SNAME meeting addresses the IMO and ECA requirements with operations on low sulfur for extended periods. The meeting topics and schedule have been arranged to minimize overlap and allow participants to attend both days without missing any of the presentations or discussions. Registration for the CARB meeting is being taken separately by CARB directly (<http://www.arb.ca.gov/marine>). The CARB meeting ends at 4:00pm, allowing ample time to participate in the SNAME evening dinner cruise.

Registration Fees

	Full Program Wed evening + Thu	Technical Program Thursday only
Members (SNAME, ASNE, & Society of Port Engineers)	\$175	\$150
Non Members	\$225	\$200
Students	\$105	\$40
Guests for Dinner Cruise Only	\$65	

Hotels

Several local hotels are offering a discount for those attending this symposium. Please refer to the web site for the latest information.