Symposium on
Evolution of Maritime Fuels,
Ship Speed and Operational
Efficiency

21 July 2014
University of Southern California

Sponsored Jointly by
USC Loker Hydrocarbon Research Institute
USC Sea Grant Program
USC Paul Hall Endowment for Marine Transportation
Welcome to our one-day symposium on advancing knowledge about maritime fuels, the engines and ships that will use them and the economics of change in the industry. We have brought together a diverse group of experts to share their knowledge about the industry, addressing its evolution toward cleaner burning fuels, an alternative to the heavy fuel oils currently powering the maritime fleet and, as we will discuss, the prospect for more secure long-term sources and prices for these products. Our discussion is divided into three distinct realms: first, the fuels themselves; second, the engines and ships to use these new fuels; and third, the policies and economics affecting use and marketing. We have designed the program to address each of these areas.

PROGRAM

0830-0900 Continental breakfast
Loker Hydrocarbon Research Institute
Loker Bistro, 2nd Floor

0900-0915 Welcome
Dr. James Fawcett, USC Sea Grant Program
Dr. Surya Prakash, Director, USC Loker Hydrocarbon Research Institute
Dr. George A. Olah, Nobel Laureate
Founding Director, Loker Hydrocarbon Research Institute
Distinguished Professor of Chemistry and Engineering
University of Southern California
Stauffer Lecture Hall

0915-1000 The Promise of Methanol
Dr. Surya Prakash
Professor and Director
USC Loker Hydrocarbon Institute

1000-1045 The International Energy Agency and Alternative Fuels
William (Bill) Remley
Alion Science & Technology

1045-1100 BREAK

1100-1145 Practical Applications of Methanol Fuels
Paul Wuebben
Senior Director, Renewable Fuels
Carbon Recycling International

1200-1300 Lunch Served on at the Loker Bistro, 2nd Floor

1300-1345 Very High Efficiency Methanol Engines
Dr. Dan Cohn
Division Head and Senior Research Scientist,
Plasma Science & Fusion Center
Massachusetts Institute of Technology

1345-1430 Design of Vessels Using Alternative Fuels
Per Fagerlund
ScandiNAOS AB
Goteborg, Sweden

1430-1445 BREAK

1445-1530 The Economics of Alternative Fuels
Dr. Meifeng Luo
Professor of Maritime Logistics
The Hong Kong Polytechnic University

1530-1615 The Seaport Perspective
Richard D. Cameron
Managing Director, Environment Affairs and Planning Port of Long Beach
Eric Caris
Assistant Director, Business Development
Port of Los Angeles
Carter Atkins
Environmental Planner for Air Quality Programs
Environmental Affairs Division, Port of Los Angeles

1615-1645 Panel: Prospects for Alternative Maritime Fuels
Moderated Question and Answer Session

1700-1900 Reception/Cocktails
Loker Hydrocarbon Research Institute
George Olah Library, 3rd Floor