

7/30/03

**DRAFT Agenda**

**9<sup>th</sup> DIESEL ENGINE  
EMISSIONS REDUCTION  
CONFERENCE**

**Newport Marriott  
Newport, Rhode Island**

**August 24-28, 2003**

**Organized by  
U.S. Department of Energy**

**Chair: John W. Fairbanks**

**9<sup>th</sup> Diesel Engine Emissions Reduction Workshop**  
**August 24-28, 2003**  
**Marriott Newport**  
**Newport, Rhode Island**

**PRELIMINARY AGENDA**

Sunday, August 24, 2002

3:00 – 10:00 p.m.      Registration

5:00 – 6:30 p.m.      Hosted reception (heavy appetizers) and cash bar

**Plenary Session – A VIEW FROM THE BRIDGE**  
**Session Chairs: John Fairbanks and Ed Wall,**  
**U.S. Department of Energy**

6:30 – 6:35 p.m.      *Welcome Aboard!*  
John Fairbanks  
U.S. Department of Energy  
Washington, D.C.

6:35 – 6:55 p.m.      *DOE's Role in the Future of Transportation Technologies*  
Sam Baldwin, Chief Scientist, Office of Energy Efficiency and  
Renewable Energy (*invited*)  
U.S. Department of Energy  
Washington, D.C.

6:55 – 7:15 p.m.      *NESCAUM presentation (title TBD)*  
Jan Reitsma, Director, Rhode Island Department of Environmental  
Management (*invited*)  
Providence, Rhode Island

7:15 – 7:35 p.m.      *Global Climate Change and the Transportation Sector: An  
Update on Issues and Mitigation Options*  
J. J. Dooley  
Joint Global Change Research Institute  
Battelle Pacific Northwest National Laboratory  
Richland, Washington

- 7:35 – 8:05 p.m.      *Overview of the Global Climate & Energy Project Program*  
Christopher Edwards  
Stanford University  
Palo Alto, California
- 8:00 – 8:20 p.m.      *Energy Independence for North America – Transition to the  
Hydrogen Economy*  
Eberhardt James J.  
U.S. Department of Energy  
Washington, D.C.
- 8:20 – 8:40 p.m.      *SCAQMD Clean Transportation Programs*  
Bogdanoff Michael  
South Coast Air Quality Management District  
Diamond Bar, California
- 8:40 – 9:00 p.m.      *Development of the Cummins 5.9 Liter for the Gale Banks  
Engineering Dodge Dakota Sidewinder*  
Mike Ruth  
Cummins  
Columbus, Indiana
- 9:00 p.m.              *Adjourn for the evening*

**Session 1 – EMERGING DIESEL TECHNOLOGIES**  
**Session Chair: TBD**

Monday, August 25, 2003

- 7:30 – 7:40 a.m.      *Administrative Remarks*  
John Fairbanks  
U.S. Department of Energy  
Washington, D.C.
- 7:40 – 8:00 a.m.      *Reduction of Emissions from a High-Speed Ferry*  
Gregory Thompson  
West Virginia University  
Morgantown, West Virginia
- 8:00 – 8:20 a.m.      *Caterpillar, Inc., HTCD Program*  
David M. Milam  
Caterpillar, Inc.  
Peoria, Illinois
- 8:20 – 8:40 a.m.      *PowerTrap™: Ultrafine PM Control without Performance Penalties*  
Peter Kukla  
Per-Tec Ltd.  
University of Manchester  
Manchester, United Kingdom
- 8:40 – 9:00 a.m.      *Development and Deployment of Advanced Emission Controls for the Retrofit Market*  
Edgar Brad  
Claire Advanced Emission Controls  
San Leandro, California
- 9:00 – 9:20 a.m.      *Fuel Additive Strategies for Enhancing the Performance of Engines and Engine Oils*  
Benjamin Kaufman  
Chevron Oronite Technology Center  
Beacon, New York
- 9:20 – 9:40 a.m.      *Transient, Real-Time, Particulate Emission Measurements in Diesel Engines*  
Sreenath Gupta  
Argonne National Laboratory  
Argonne, Illinois
- 9:40 – 10:00 a.m.      *Break*

## Session 2 – FUELS AND LUBRICATION, PART 1

Session Chair: *TBD*

Monday, August 25, 2003

- 10:00 – 10:20 a.m.    *The Non-Petroleum Based Fuel Initiative*  
Bunting Bruce  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 10:20 – 10:40 a.m.    *APBF-DEC NO<sub>x</sub> Adsorber/DPF Project: Passenger Car Platform*  
Dean Tomazic  
FEV Engine Technologies  
Auburn Hills, Michigan
- 10:40 – 11:00 a.m.    *APBF-DEC NO<sub>x</sub> Adsorber/DPF Project: SUV/Pick-Up Platform*  
Cynthia Webb  
Southwest Research Institute  
San Antonio, Texas
- 11:00 – 11:20 a.m.    *APBF-DEC NO<sub>x</sub> Adsorber/DPF Project: Heavy-Duty Line Haul Platform*  
Mike May  
Ricardo Inc.  
Burr Ridge, Illinois
- 11:20 – 11:40 a.m.    *Demonstration of the Low-Emission Potential for Urea-Selective Catalytic Reduction and Diesel Particulate Filter Technologies*  
Magdi Khair  
Southwest Research Institute  
San Antonio, Texas
- 11:40 – 12 noon        *The Chemical States and Compounds of Lube Phosphorous in Diesel Exhaust*  
Bruce Bunting  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 12 noon                 *Adjourn for lunch*



**Session 3 – FUELS AND LUBRICATION, PART 2**  
**Session Chair: TBD**

Monday, August 25, 2003

- 1:00 – 1:20 p.m.      *Emissions from Heavy-Duty Diesel Engine with EGR using Oil Sands Derived Fuels*  
Stuart Neill  
National Research Council Canada  
Ottawa, Ontario, Canada
- 1:20 – 1:40 p.m.      *Development and Demonstration of Fischer-Tropsch Fueled Heavy-Duty Vehicles with Control Technology for Reduced Diesel Exhaust Emissions*  
Michael May  
Ricardo, Inc.  
Burr Ridge, Illinois
- 1:40 – 2:00 p.m.      *Fuel Formulation Effects on Diesel Fuel Injection, Combustion, Emissions, and Emission Control*  
Boehman André  
Pennsylvania State University  
State College, Pennsylvania
- 2:00 – 2:20 p.m.      *A Review of Vegetable Oil Research at Penn State*  
Joseph Perez  
Pennsylvania State University  
State College, Pennsylvania
- 2:20 – 2:40 p.m.      *The Impact of Oil Consumption Mechanisms on Diesel Exhaust Particle Size Distributions and Detailed Exhaust Chemical Composition*  
David Foster  
University of Wisconsin  
Madison, Wisconsin
- 2:40 – 3:00 p.m.      *Impact of the Fuel-Borne Catalyst MMT on Diesel Particulate Filters and LNT Performance*  
David Human  
Ethyl Petroleum Additives  
Richmond, Virginia
- 3:00 – 3:20 p.m.      *Break*

**Session 4 – WASTE HEAT UTILIZATION**  
**Session Chair: TBD**

Monday, August 25, 2003

- 3:20 – 3:40 p.m.      *Thermoelectric Energy Recovery from the Exhaust of a Light Truck*  
Karri Madhav  
Clarkson University  
Potsdam, New York
- 3:40 – 4:00 p.m.      *Scale-Up of Si/Si<sub>0.8</sub>Ge<sub>0.2</sub> and B<sub>4</sub>C/B<sub>9</sub>C Superlattices for Harvesting of Waste Heat in Diesel Engines*  
Peter Martin  
Pacific Northwest National Laboratory  
Richland, Washington
- 4:00 – 4:20 p.m.      *Potential Thermoelectric Applications in Diesel Vehicles*  
Crane Douglas  
BSST, LLC.  
Irwindale, California
- 4:20 – 4:40 p.m.      *Recent Progress in the Development of High-Efficient Thermoelectrics*  
Elsner Norm  
Hi-Z Technology, Inc.  
San Diego, California
- 4:40 – 5:00 p.m.      *Design and Development of e-Turbo™ for SUV and Light Truck Applications*  
S. M. Shahed  
Garrett Engine Boosting Systems  
Torrance, California
- 5:00 – 5:20 p.m.      *Diesel Engine Waste Heat Recovery Utilizing Electric Turbocompound Technology*  
Ulrich Hopmann  
Caterpillar, Inc.  
Peoria, Illinois
- 5:20 p.m.              *Adjourn for reception and dinner followed by a poster session*

**Session 5 – DIESEL AND CNG BUS EMISSIONS**  
**Session Chair: Doug Lawson, National Renewable Energy**  
**Laboratory and Peter Ahlvik, Ecotraffic**

Tuesday, August 26, 2003

- 7:30 – 8:00 a.m.      *State of the Art in Diesel Emission Control*  
Timothy Johnson  
Corning, Inc.  
Corning, New York
- 8:00 – 8:20 a.m.      *Summary of the Swedish Experiences on CNG and “Clean” Diesel Buses*  
Peter Ahlvik  
Ecotraffic  
Stockholm, Sweden
- 8:20 – 8:40 a.m.      *Comparison of Exhaust Emissions, Including Toxic Air Contaminants, from Diesel School Buses in Compressed Natural Gas, Low-Emitting Diesel, and Conventional Diesel Engine Configurations*  
Warren Slodowske  
International Truck and Engine Company  
Chicago, Illinois
- 8:40 – 9:00 a.m.      *Comparison of Clean Diesel Buses to CNG Buses*  
Dana Lowell  
New York City Transit  
New York, New York
- 9:00 – 9:20 a.m.      *CNG and Diesel Transit Bus Emissions in Review*  
Alberto Ayala  
California Air Resource Board  
Sacramento, California
- 9:20 – 9:40 a.m.      *Heavy-Duty Vehicle In-Use Emission Performance*  
Markku Ikonen  
VTT Processes  
Espoo, Finland
- 9:40 – 10:00 a.m.      *Comparative Study on Exhaust Emissions from Diesel- and CNG-Powered Urban Buses*  
Thierry Seguelong  
Aaqius & Aaqius  
Paris, France

10:00 – 10:20 a.m. *State-of-the-Art and Future Developments in Natural Gas Engine Technologies*

Mark Dunn

Westport Innovations, Inc.

Vancouver, British Columbia, Canada

10:20 – 10:30 a.m. *Break*

**Session 6 – ENVIRONMENTALLY CONCERNED PUBLIC SECTOR  
ORGANIZATION PANEL**

Tuesday, August 26, 2003

10:30 – 12 noon

*Panel Discussion*

Panel Moderator: Michael Block  
NESCAUM  
Boston, Massachusetts

Panelists:

*Thomas Lanni*

Senior Research Scientist  
New York State Department of Environmental Conservation  
Albany, New York

*John Heywood*

Sun JAE Professor of Mechanical Engineering and Director, Sloan  
Automotive Laboratory  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

*Richard Kassel*

Senior Counsel  
Natural Resources Defense Council  
New York, New York

*Drew Kodjak*

Program Director  
National Commission on Energy Policy  
Washington, D.C.

*David Park*

Northeast States for Coordinated Air-Use Management  
Boston, Massachusetts

*John DiCicco (invited)*

Senior Fellow  
Environmental Defense  
Washington, D.C.

*David Friedman (invited)*  
Senior Transportation Engineer  
Union of Concerned Scientists  
Berkeley, California

12 noon

*Adjourn for lunch*

**Session 7 – COMBUSTION AND HCCI REGIMES**  
**Session Chair: TBD**

Tuesday, August 26, 2003

- 1:00 – 1:20 p.m.      *Diesel Engine Alternatives*  
Tom Ryan  
Southwest Research Institute  
San Antonio, Texas
- 1:20 – 1:40 p.m.      *Exploring Low NO<sub>x</sub> and Low PM Combustion Regimes*  
Robert Wagner  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 1:40 – 2:00 p.m.      *Advanced Research in Diesel Fuel Sprays Using X-Rays from the  
Advanced Photon Source*  
Christopher Powell  
Argonne National Laboratory  
Argonne, Illinois
- 2:00 – 2:20 p.m.      *New Diesel Combustion Regime: Particulate Analysis with the  
Single-Particle Laser Ablation Time-of-Flight Mass Spectrometer*  
Dan Imre  
Pacific Northwest National Laboratory  
Richland, Washington
- 2:20 – 2:40 p.m.      *Real-Time Simultaneous Measurements of Size, Density, and  
Composition of Single Ultrafine Diesel Tailpipe Particles*  
Alla Zelenyuk/Imre  
Pacific Northwest National Laboratory  
Richland, Washington
- 2:40 – 3:00 p.m.      *Diesel HCCI Development at Caterpillar*  
Kevin Duffy  
Caterpillar, Inc.  
Peoria, Illinois
- 3:00 – 3:20 p.m.      *Break*
- 3:20 – 3:40 p.m.      *Mixed-Mode Diesel HCCI with External Mixture Formation*  
Yann Guezennec  
Ohio State University  
Columbus, Ohio

- 3:40 – 4:00 p.m.      *Detailed Modeling of HCCI and PCCI Combustion and Multi-Cylinder HCCI Engine Control*  
Salvador Aceves  
Lawrence Livermore National Laboratory  
Livermore, California
- 4:00 – 4:20 p.m.      *Overview of Detailed Speciation and Particle Sizing for Diesel Exhaust, Both Real-Time and Filter-Based Measurements*  
David Foster  
University of Wisconsin  
Madison, Wisconsin
- 4:20 – 4:40 p.m.      *Non-Sooting, Low-Flame Temperature Mixing, Controlled DI Diesel Combustion*  
Lyle Pickett  
Sandia National Laboratories  
Livermore, California
- 4:40 – 5:00 p.m.      *Shell Gas-to-Liquids in the Context of a Future Fuel Strategy – Technical Marketing Aspects*  
Richard H. Clark  
Shell Global Solutions (US), Inc.  
Houston, Texas
- 5:00 – 5:20 p.m.      *Effects of Fuel Type and Engine Speed on Required Intake Temperature and Completeness of Combustion in an HCCI Engine*  
John Dec  
Sandia National Laboratories  
Livermore, California
- 5:20 p.m.              *Adjourn for Wine and Cheese Tasting and Heavy Hors d'Oeuvres*

**Session 8 – DIESEL ENGINE DEVELOPMENT AND DURABILITY**  
**Session Chair: TBD**

Wednesday, August 27, 2003

- 7:30 – 7:50 a.m.      *State-of-the-Art and Emerging Truck Engine Technologies for Optimized Performance, Emissions, and Life-Cycle Costs*  
Michael Schittler  
DaimlerChrysler AG  
Stuttgart, Germany
- 7:50 – 8:10 a.m.      *Recent Developments in BMW's Diesel Engine Technology*  
Fritz Steinparzer  
Bayerische Motoren Werke AG  
Munich, Germany
- 8:10 – 8:30 a.m.      *Development of Simultaneous Reduction System of NO<sub>x</sub> and PM from a Diesel Engine*  
Tetsu Watanabe  
Toyota Motor Corporation  
Toyota City, Japan
- 8:30 – 8:50 a.m.      *Performance and Durability of PSA Peugeot Citroën's DPF System on a Taxi Fleet in the Paris Area*  
Thierry Seguelong  
Aaqius & Aaqius  
Paris, France
- 8:50 – 9:10 a.m.      *Combination of Diesel Fuel System Architectures and Ceria-Based Fuel-Borne Catalysts for Improvement and Simplification of the Diesel Particulate Filter System in Serial Applications*  
Michael Civiello  
RHODIA Electronics & Catalysis, Inc.  
Cranbury, New Jersey
- 9:10 – 9:30 a.m.      *DPF: A Success for Faurecia Exhaust Systems*  
Robert Parmann  
Faurecia Exhausts Systems  
Bavans, France
- 9:30 – 9:50 a.m.      *Break*
- 9:50 – 10:10 a.m.      *Cummins/DOE Light Truck Diesel Engine Progress Report – 2003*  
John Stang  
Cummins  
Columbus, Indiana

- 10:10 – 10:30 a.m.     *Advanced Diesel Engine and Aftertreatment Technology Development for Tier 2 Emissions*  
Brian Bolton  
Detroit Diesel Corporation  
Detroit, Michigan
- 10:30 – 10:50 a.m.     *The Development and On-Road Performance and Durability of the Four-Way Emission Control SCRT™ System*  
Andrew Walker  
Johnson Matthey PLC  
Royston, United Kingdom
- 10:50 – 11:10 a.m.     *Variable Change Motion for 2007-2010 Diesel Engines*  
Josef Maier  
AVL Powertrain Engineering, Inc.  
Plymouth, Michigan
- 11:10 – 11:30 a.m.     *Diesel Exhaust Emissions Control for Light-Duty Vehicles*  
Rahul Mital  
Cummins  
Columbus, Indiana
- 11:30 – 11:50 a.m.     *Analytical Tool Development for Aftertreatment Sub-Systems Integration*  
Brian Bolton  
Detroit Diesel Corporation  
Detroit, Michigan
- 11:50 a.m.             *Adjourn for Lunch*

**Session 9 – ENVIRONMENTAL SCIENCE AND HEALTH IMPACTS**  
**Session Chair: Frank Stodolsky, Argonne National Laboratory**

Wednesday, August 27, 2003

- 6:30 – 6:50 p.m.      *The Weekend Ozone Effect: The Weekly Ambient Emissions Control Experiment*  
Douglas Lawson  
National Renewable Energy Laboratory  
Golden, Colorado
- 6:50 – 7:20 p.m.      *Gasoline Vehicle Exhaust Particle Sampling Study*  
David Kittelson  
University of Minnesota  
Minneapolis, Minnesota
- 7:20 – 7:40 p.m.      *DOE's Gasoline/Diesel PM Split Study: Characterizations of the Variations in Chemical Composition of PM<sub>2.5</sub> in the South Coast Air Basin*  
Eric Fujita  
Desert Research Institute  
Reno, Nevada
- 7:40 – 8:00 p.m.      *Relationship between Composition and Toxicity of Engine Emission Samples*  
Joe Mauderly  
Lovelace Respiratory Research Institute  
Albuquerque, New Mexico
- 8:00 – 8:20 p.m.      *The Effect of Changes in Diesel Exhaust Composition and Aftertreatment Technology on Lung Inflammation and Resistance to Viral Infection*  
Jacob McDonald  
Lovelace Respiratory Research Institute  
Albuquerque, New Mexico
- 8:20 – 8:40 p.m.      *In Vitro Genotoxicity of Particulate and Semi-Volatile Organic Compound Exhaust Materials from a Set of Gasoline and a Set of Diesel Engine Vehicles Operated at 30°F*  
William Wallace  
Centers for Disease Control and Prevention  
Morgantown, West Virginia

- 8:40 – 9:00 p.m.      *Comparison of Direct Exposure of Human Lung Cells to Modern Engine Exhaust Particles*  
John Storey  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 9:00 – 9:20 p.m.      *An Engine Exhaust Particle Sizer for Transient Emission Particle Measurements*  
Tim Johnson  
TSI, Inc.  
Shoreview, Minnesota
- 9:20 p.m.              *Adjourn for the evening*

**Session 10 – UREA, NO<sub>x</sub> ADSORBER, AND NON-THERMAL  
PLASMA NO<sub>x</sub> REDUCTION**

**Session Chair: TBD**

Thursday, August 28, 2003

- 7:30 – 7:50 a.m.      *SCR Systems for Heavy-Duty Trucks: Progress towards Meeting Euro 4 Emission Standards in 2005*  
Georg Huethwohl  
PUREM Abgassysteme GmbH & Co. KG  
Menden, Germany
- 7:50 – 8:10 a.m.      *Urea SCR and DPF System for Diesel LDT/SUV Meeting Tier II Bin 5*  
Robert Hammerle  
Ford Motor Company  
Dearborn, Michigan
- 8:10 – 8:30 a.m.      *Ensuring the Availability and Reliability of Urea Dosing for On-Road and Non-Road*  
Glenn Barton  
Hilite International  
Auburn Hills, Michigan
- 8:30 – 8:50 a.m.      *Selective Reduction of NO<sub>x</sub> in Oxygen-Rich Environments with Plasma-Assisted Catalysis: Catalyst Development and Mechanistic Studies*  
Charles Peden  
Pacific Northwest National Laboratory  
Richland, Washington
- 8:50 – 9:10 a.m.      *Heavy-Duty NO<sub>x</sub> Emissions Control: Reformer-Assisted vs. Plasma-Facilitated Lean NO<sub>x</sub> Catalysis*  
Christopher Aardahl  
Pacific Northwest National Laboratory  
Richland, Washington
- 9:10 – 9:30 a.m.      *Dynamometer Evaluation of Plasma-Catalyst for Diesel NO<sub>x</sub> Reduction*  
John Hoard  
Ford Motor Company  
Dearborn, Michigan
- 9:30 – 9:50 a.m.      *Break*

- 9:50 – 10:10 a.m. *Noxtech's Plasma-Assisted Catalyst System Development and Demonstration*  
Ralph Slone  
Noxtech  
Irvine, California
- 10:10 – 10:30 a.m. *NO<sub>x</sub> Adsorber Regeneration Phenomena in Heavy-Duty Applications*  
Brian West  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 10:30 – 10:50 a.m. *Comparison of 4-Way NO<sub>x</sub> Adsorber Catalyst Performance on Fibrous and Conventional Substrates*  
Neil Currier  
Cummins  
Columbus, Indiana
- 10:50 – 11:10 a.m. *Measurement and Characterization of NO<sub>x</sub> Adsorber Regeneration and Desulfation*  
Shean Huff  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 11:10 – 11:30 a.m. *NO<sub>x</sub> Adsorber Catalyst Durability: Light- and Heavy-Duty Perspective*  
Jim Parks  
EmeraChem  
Knoxville, Tennessee
- 11:30 – 11:50 a.m. *Complementary Experimental Tools for Understanding DPF Behavior*  
Aleksey Yezerets  
Cummins  
Columbus, Indiana
- 11:50 a.m. *Adjourn for lunch*

**Session 11 – AFTERTREATMENT**  
**Session Chair: TBD**

Thursday, August 28, 2003

- 1:00 – 1:20 p.m.      *Use of a Diesel Fuel Processor for Rapid and Efficient  
Regeneration of Single-Leg NO<sub>x</sub> Adsorber Systems*  
Ralph Della Batta  
Catalytica Energy Systems, Inc.  
Mountain View, California
- 1:20 – 1:40 p.m.      *Bifunctional Catalysts for the Selective Catalytic Reduction of NO  
by Hydrocarbons*  
Christopher Marshall  
Argonne National Laboratory  
Argonne, Illinois
- 1:40 – 2:00 p.m.      *Lean NO<sub>x</sub> Catalysis Development for Diesel Engines*  
Dennis Endicott  
Caterpillar, Inc.  
Peoria, Illinois
- 2:00 – 2:20 p.m.      *Fuel-Borne Reductants for NO<sub>x</sub> Aftertreatment*  
John Thomas  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee
- 2:20 – 2:40 p.m.      *Hydrogen Generation from Plasmatron Reformers and Use for  
Diesel Exhaust Aftertreatment*  
Leslie Bromberg  
Massachusetts Institute of Technology  
Cambridge, Massachusetts
- 2:40 – 3:00 p.m.      *Diesel Reformers for On-Board Hydrogen Applications*  
Mark Mauss  
Hydrogen Source  
Windsor, Connecticut
- 3:00 – 3:20 p.m.      *Break*
- 3:20 – 3:40 p.m.      *Measurement of In-Use Emissions from Heavy-Duty Diesel  
Vehicles: The State-of-the-Art*  
Mridul Gautam  
West Virginia University  
Morgantown, West Virginia

- 3:40 – 4:00 p.m. *Diesel Particulate Filter Overview: Material, Geometry, and Application*  
Martin Murtagh  
Corning, Inc.  
Corning, New York
- 4:00 – 4:20 p.m. *New Cordierite Diesel Particulate Filters for Catalyzed and Non-Catalyzed Heavy-Duty Applications*  
Gregory Merkel  
Corning, Inc.  
Corning, New York
- 4:20 – 4:40 p.m. *Non-Thermal Plasma-Based Technologies for the Aftreatment of Automotive Exhaust Particulates and Marine Diesel Exhaust NO<sub>x</sub>*  
Roy McAdams  
Accentus PLC  
Abingdon, United Kingdom
- 4:40 – 5:00 p.m. *Recent Diesel Emission Mitigation Activities of the Maritime Administration's Energy Technologies Program*  
Daniel Gore  
U.S. Maritime Administration  
Washington, D.C.
- 5:00 – 5:10 p.m. *Closing Remarks*  
John Fairbanks  
U.S. Department of Energy  
Washington, D.C.
- 5:10 p.m. *Adjourn Meeting*