



PROGRAM ANNOUNCEMENT

EMISSIONS ADVANTAGE

Diesel Retrofit Boot CampSM

Co-sponsored in partnership with the New York State Energy Research and Development Authority (NYSERDA) and Columbia University

February 28, 2014

Columbia University, New York, New York

PLEASE REGISTER BY FEBRUARY 21, 2014 TO ATTEND

PURPOSE OF THE BOOT CAMP

The Diesel Retrofit Boot CampSM Program has been designed by Emissions Advantage (EA) to be a comprehensive, training approach for those involved in planning and implementing programs to reduce emissions from existing engines, and for fleet operators and technicians that are, or may become involved with these emission reduction activities. The Program describes the various technologies, strategies and engine applications that are likely to be most successful in achieving emission reductions. Engine applications include those for on-road vehicles, and a wide range of nonroad vehicle/equipment functions (e.g., construction and grounds maintenance equipment, locomotive and rail maintenance equipment, airport ground service equipment, marine vessels and port operation equipment, stationary generators, etc.) The Program also includes a discussion of the benefits of reducing diesel emissions as part of a comprehensive strategy to address climate change issues. Additional Program information tools are presented for those planning and implementing emission reduction programs and provides a good understanding of all of the elements needed to achieve a successful program.

During the Program, EA will provide an overview and demonstration of its Clean Diesel ClearingHouse, (CDCH) which is designed to help equipment/vehicle owners/operators to select emission reduction retrofit products and to help retrofit program managers with compliance reporting and monitoring.

PRELIMINARY PROGRAM AGENDA

8:15-9:00 REGISTRATION (BOXED CONTINENTAL BREAKFAST SERVED AT MEETING ROOM SEATS)

9:00 – 9:15 WELCOME TO THE DIESEL RETROFIT BOOT CAMPSM

PRESENTATION: MANHATTANVILLE - COLUMBIA UNIVERSITY’S DIESEL EMISSIONS AND CLEAN CONSTRUCTION SUCCESS STORY – *PHILIP PITRUZZELLO, VICE PRESIDENT, MANHATTANVILLE DEVELOPMENT GROUP, COLUMBIA UNIVERSITY*

9:15 MODULE I - EMISSIONS ADVANTAGE DIESEL RETROFIT BOOT CAMP INTRODUCTION

- On-road and Offroad Sectors and Emission Reduction Application Opportunities
- What’s Behind the Interest/Need for Emission Reduction Programs – The Drivers
- Choosing the Appropriate Strategy(s) to Meet Your Objectives/Requirements

9:30 MODULE II - DIESEL ENGINE OPERATION

- Engine Operation
- Origin of Exhaust Emissions
- Exhaust Temperature Characteristics
- Importance of Duty Cycle

10:00 MODULE III.A - FUEL-BASED EMISSION REDUCTION STRATEGIES AND APPLICATIONS

- Ultra-Low Sulfur Diesel Fuel
- Biodiesel
- Diesel Fuel Emulsions
- Diesel Fuel Additives
- Other Alternative Fuels

10:45 – 11:00 BREAK

11:00 MODULE III.B - TECHNOLOGY-BASED EMISSION REDUCTION STRATEGIES AND APPLICATIONS

- Diesel Oxidation Catalyst
- Diesel Particulate Filter
- Closed Crankcase Control Systems
- Lean NOx Catalyst
- Selective Catalyst Reduction
- Low-Pressure Exhaust Gas Recirculation
- Engine Electronic Control Reprogram

12:15 MODULE III.C - OPERATIONAL-BASED EMISSION REDUCTION STRATEGIES AND APPLICATIONS

- Early Vehicle/Equipment Retirement
- Engine Replacement/Repower
- Idle Reduction
- Repair/Maintenance

12:45 – 1:15 LUNCH BREAK (BOXED LUNCHESES SERVED)

1:15 MODULE IV - CHOOSING EMISSION REDUCTION STRATEGIES AND STRATEGY IMPLEMENTATION

- Selecting the Emission Reduction Strategy
- Selecting the Vehicle/Equipment
- Fleet Constraints
- Pre-Installation
- Maintenance
- Monitoring
- Fuel Considerations

1:45 CLEAN DIESEL CLEARINGHOUSE OVERVIEW AND DEMONSTRATION

2:15 MODULE V - EMISSION REDUCTION PROGRAM EXPERIENCE AND LESSONS LEARNED

- Program Types
- Mandatory Programs -- Considerations, Experience, and Examples
- Voluntary Programs – Considerations, Experience, and Examples

2:30 – 2:45 PRESENTATION: NEW YORK CLEAN TRUCK INCENTIVES – *SUSAN MCSHERRY, PROGRAM MANAGER, ALTERNATIVE FUELS PROGRAM, NEW YORK CITY DEPT. OF TRANSPORTATION, AND ALYCIA GILDE, NEW YORK TRUCK VOUCHER INCENTIVE PROGRAM PROJECT LEADER, NORTHEAST REPRESENTATIVE, CALSTART*

2:45 MODULE VI - EMISSION REDUCTION PROGRAM DEVELOPMENT PROCESS

- Fleet Selection Issues
- Fleet Outreach and Training
- Assessing Emission Reductions, Establishing Realistic Objectives and Setting Achievable Targets
- Emission Reduction Program Policy and Implementation Options
- Structuring, Planning and Managing an Effective Emission Reduction Program
- Program Evaluation

3:15 – 3:30 BREAK

3:30 MODULE VII - DEALING WITH THE DILEMMA: REDUCING POLLUTANT EMISSIONS, GREENHOUSE GASES, OR BOTH

- Analyzing Options, Benefits, Costs and Decision Factors
- Illustration Showing the Outcomes of Several Options and Highlight the Complexities Involved with Those Decisions

4:00 MODULE VIII - RETROFIT PROGRAM PARTNERS AND CONSTITUENTS

- Elements and Methods for Building Constituency and Successful Partnering
- Understanding Industry and Private Sector Perspectives Regarding Emission Reduction Programs, and Factors of Importance to Them
- Public Education and Outreach

4:20 MODULE IX - IDENTIFYING AND ACQUIRING FUNDING

- Funding Sources and Incentives
- Preparing Grant Applications and Funding Proposals

4:50 BOOT CAMP WRAP-UP

LOCATION

The Emissions Advantage Diesel Retrofit Boot Camp will be held at the Columbia University Law School, William and June Warren Hall, Room L107, 1125 Amsterdam Ave., New York, New York, 10027, (at the corner of 115th Street and Amsterdam Ave.), on the campus of Columbia University.

Subway access is via the #1 local train, with a station stop for Columbia University at 116th Street and Broadway.

Please see the campus map on page 5 for meeting room and subway stop locations.

Nearby pay parking lots are at several locations surrounding the Columbia Campus (see list on page 6).

For those attending from out of town and needing hotel accommodation, several hotels (see list on page 7) in New York City have special, reduced rate arrangements with Columbia University. When making a reservation, please mention that you are a guest of University staff and attending a University function.

BOOT CAMP PROGRAM REGISTRATION

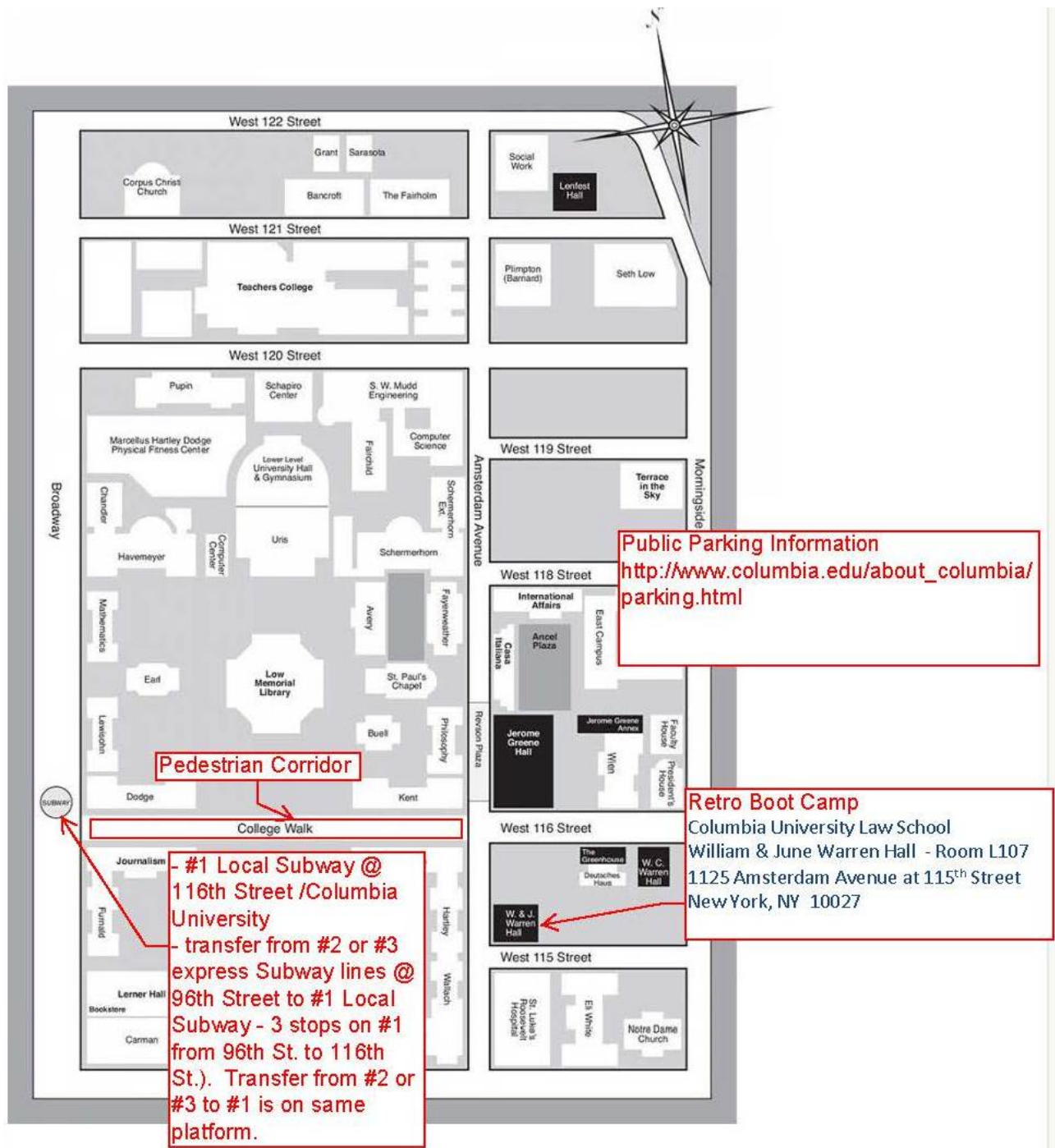
Although there is no fee for attending the Diesel Retrofit Boot Camp, **registration is required BY FEBRUARY 21, 2014 for the event, since meeting room space is limited.** Please register to attend by providing the following information to the email address shown below:

First Name
Last Name
Affiliation
Full Address and Zip Code
Telephone Number
Fax Number
Email Address

Send to: register@emissionsadvantage.org

A confirming email will be provided after the above registration information is received.

Columbia University Campus Map



NEARBY PARKING LOTS/GARAGES

PAO Parking
214 West 95th Street
(between Broadway & Amsterdam Ave.)

West Side Parking
234 West 108th Street
(between Broadway & Amsterdam Ave.)
(212) 222-8800
Open from 7 a.m. to 2 a.m.

E&B Operating Group
143 West 108th Street
(between Columbus & Amsterdam Ave.)
(212) 865-8315
Open 24 hours

GGMC Parking
512 West 112th St.
(between Broadway & Amsterdam Ave.)
(212) 865-1754
Open from 6 a.m. to midnight

Pro Park America
1090 West 114th Street
(between Broadway & Amsterdam Ave.)
(212) 523-1051
Open from 6 a.m. to midnight

Claremont Parking Corp.
Riverside Church, 120th Street
(between Claremont Ave. & Riverside Drive)
(212) 870-6736
Open from 6 a.m. to midnight

GMC Garage
532 West 122nd Street (between Broadway & Amsterdam Ave.)
(212) 961-1075
Open from 6 a.m. to midnight

More Than Parking (MTP)
631-635 West 131st Street
(between Broadway & 12th Ave.)
(212) 368-2579
Open from 6 a.m. to midnight

NEW YORK CITY HOTELS WITH SPECIAL RATES FOR COLUMBIA UNIVERSITY

Hotel, Address, & Neighborhood	Reservations Number	Columbia Reference
Aloft Harlem 2296 Frederick Douglas Boulevard New York, NY 10027 Neighborhood: Upper West Side/ Harlem Contact: Aquaria Harley 646-439-2517	212-749-4000 or 866-961-2995	Request the Columbia University rate
Hotel Beacon NYC 2130 Broadway at 75th Street New York, NY 10023 Neighborhood: Upper West Side Contact: Christopher White 646-277-3213	212-787-1100 x2 or 800-572-4969 or reservations@beaconhotel.com	Request the Columbia University rate
Hotel Belleclaire 250 W. 77 th Street New York, NY 10024 Neighborhood: Upper West Side Contact: Anna Nejasmic 212-706-4479	212-706-4479 salesoffice@hotelbelleclaire.com	Request the Columbia University rate
Hotel Newton 2528 Broadway at West 96 th Street New York, NY 10025 Neighborhood: Upper West Side Contact: Emilio Morales 212-678-6500	800-643-5553 or 212-678-6500	Request the Columbia University rate
Hudson Hotel 356 West 58th Street New York, NY 10019 Neighborhood: Columbus Circle/Upper West Side Contact: Frank Pasqualino 212-554-6127	800-606-6090 or 212-554-6127	Request the Columbia University rate
Mandarin Oriental New York 80 Columbus Circle at 60 th Street New York, NY 10023 Neighborhood: Columbus Circle/Upper West Side Contact: Susan Duggan 212-805-8817	212-805-8800	Request the Columbia University rate
Marriott Courtyard Central Park 1717 Broadway at 54 th Street New York, NY 10024 Neighborhood: Times Square/Central Park South Contact: Jim McCabe 212-651-3309	212-380-5042	Request the Columbia University rate
NYLO 2178 Broadway at 77th Street New York, NY 10024 Neighborhood: Upper West Side Contact: Michael Dwyer 212-651-3309	212-362-1100 or 800-509-7598	Request the Columbia University rate
The Empire Hotel 44 West 63 rd Street New York, NY 10023 Neighborhood: Lincoln Center/Upper West Side Contact: Catherine Grenfell 212-292-3605	212-265-7400	Request the Columbia University rate
The Lucerne 201 West 79th Street at Amsterdam Avenue New York, NY 10024 Neighborhood: Upper West Side Contact: Monica Spencer Ramos 646-845-3327	212-875-1000 x80 or 800-492-8122	Request the Columbia University rate using Corporate Account ID #119
The Millford NYC 700 th Eighth Avenue New York, NY 10036 Neighborhood: Times Square Contact: Aleksandra Truglio 212-642-4667	212-869-3600 x1 then x2 or reservations@themillford.com	Request the Columbia University rate