**2009 Emissions Inventory Conference**
**Training Courses**

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**1. Course Title**: The Emissions Inventory System Process
**Instructor**: Martin Husk, US EPA
**Time:** Thursday Apr 16 pm; and Friday Apr 17 am
Exact start times to be determined. Course will conclude on Friday by 12 noon.

**Course Description**:

The EPA has undertaken a project to redefine how the National Emissions Inventory is developed within the new Emissions Inventory System (EIS) process. The purpose of this course is to go through the new process, with an emphasis on the resources and tools EPA is making available to State, Local and Tribal agencies to help them report their emissions inventories, and to review the EPA procedures when the data are submitted. Prior to attending the course, you are encouraged to learn more about the new process by reviewing the 2008 NEI-EIS Implementation Plan at http://www.epa.gov/ttn/chief/net/neip/index.html.

The course will be split into two parts. The first part, on Thursday, April 16th, will focus on the new EIS process.

The second part of the course, on Friday, April 17th, will include a live demonstration of the EIS Gateway and of the tools used to convert data to the new EIS CERS XML file. This session will be followed by a general questions and answer session on emissions inventory and EIS topics.

Attendance priority is given to State, Local and Tribal agency staff.

Please note that this course does not cover basic emissions inventory characterization methods and data development processes, but rather the EIS process for reporting and sharing the data.

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**2. Course Title**: Introduction to EPA's Motor Vehicle Emission Simulator (MOVES)
**Instructor**: David Brzezinski, US EPA Office of Transportation and Air Quality
**Time:** Thursday Apr 16 pm; and Friday Apr 17 am
Exact start times to be determined. Course will conclude on Friday by 12 noon.

**Course Description**:
EPA's MOVES is an emissions modeling system that will replace MOBILE6 and NONROAD as EPA's tool for estimating air pollution emissions from mobile sources. A draft version of the model including criteria pollutants, greenhouse gases and energy consumption from highway vehicles is now available. Participants will learn how to use the draft highway vehicle version of MOVES on a Windows PC, including how to create a Run Specification, how to customize the data used by the model, how to run the model, and how to work with model output.

The course will be organized around hands-on exercises, but persons without computers are also welcome. Computers will not be provided, so PARTICIPANTS MUST BRING THEIR OWN

LAPTOPS running Windows 2000 or newer operating systems (we have NOT yet fully tested MOVES with Windows Vista), with a CD drive, a minimum of 256 Mb of RAM, and a minimum of five free gigabytes of hard drive space. In order to participate in the hands-on portions of the training, participants will be expected to successfully install the draft version of MOVES and the MySQL Browser software on their machines prior to attending the course. This version of the model, including the browser, is available on the EPA web site at http://www.epa.gov/otaq/ngm.htm.

No unusual computer software skills are required, but participants will need to know how to locate files and open and edit spreadsheets and text files. A background in existing highway vehicle emission modeling terminology and techniques is not required, but will be helpful.

Class size will be limited to 50 students with laptop computers and 50 additional students without laptops.

Organizations should limit the number of students sent to allow space for the maximum number of individual organizations to attend.

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**3. Course Title**: **Greenhouse Gases Inventory 101**
**Instructors**: Andrea Denny and Leif Hockstad, US EPA
**Time:** Thursday Apr 16 pm. Exact start time to be determined.

**Course Description**:
This lecture-style course will provide an introduction to greenhouse gas inventories. Topics covered will include:

- Overview of GHG emissions sources in the US
- Purpose and scope of a GHG inventory,
- Differences between traditional criteria pollutant inventories and GHG inventories
- Choosing a baseline year
- Quantification approaches (top-down vs. bottom up)
- Available software and methodologies
- Differences between inventories and registries
- Certification and reporting protocols
- Comparability
- Level of effort

Instructors will allow ample time for Q&A with the audience.
This course is open to all conference attendees and laptops will not be used.

*Self-paced Alternative:*
A Web-based alternative is available and allows participants to preview this course prior to attendance or provides the option of remote self-paced training, in lieu of on-site training.
A series of three, 90 minute web-based trainings was recorded in Fall 2007. While aimed at state and local governments, much of the information is broadly applicable. The trainings can be viewed by visiting: http://www.epa.gov/climatechange/emissions/state_training.html

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**4. Course Title:** Quantifying Greenhouse Gas Emissions
**Instructor**: Andrea Denny, US EPA
**Time:** Friday Apr 17 am. Exact start time to be determined. Course will conclude by 12 noon.

**Course Description**:
This lecture style course will provide training on three greenhouse gas quantification tools that state/local governments can use to track emissions. Participants will learn how to access and use each tool, as well appropriate uses for each tool. Tools covered by this training will include:

- **The Emissions and Generation Resource Integrated Database (eGrid**), is a comprehensive inventory of environmental attributes of all U.S. electricity generating plants that provide power to the electric grid and report data to the U.S. government. eGRID contains air emissions data for nitrogen oxides ($NO_x$), sulfur dioxide ($SO_2$), carbon dioxide ($CO_2$), mercury (Hg), methane ($CH_4$) and nitrous oxide ($N_2O$).
- **WAste Reduction Model (WARM)** helps solid waste planners and organizations track and voluntarily report greenhouse gas emissions reductions from several different waste management practices. WARM calculates and totals GHG emissions of baseline and alternative waste management practices—source reduction, recycling, combustion, composting, and landfilling.
- **Portfolio Manager** is an interactive energy management tool that allows users to track and assess energy and water consumption and $CO_2$ emissions within individual buildings or across an entire portfolio of buildings.

Instructors will allow ample time for Q&A with the audience.
This course is open to all conference attendees and laptops will not be used.

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