

19th International Emission Inventory Conference

“Emission Inventories – Informing Emerging Issues”



**Training September 27, 2010
Conference September 28 - 30, 2010
San Antonio, Texas – Hyatt Regency**



Sponsored by:
Emission Inventory and Analysis Group
Air Quality Assessment Division
Office of Air Quality Planning and Standards

Welcome to the 19th Annual Emissions Inventory Conference

The US Environmental Protection Agency (EPA) looks forward to your participation in the 19th Annual Emissions Inventory Conference in San Antonio, Texas September 27-30, 2010. This year's Conference focuses on how emission inventories inform emerging air quality and environmental issues. This theme highlights issues such as:

- How inventories can be used to assess the impact the rapid growth of oil and gas production;
- How inventories need to change to support analyses of short-lived climate pollutants;
- Quantification of emissions from new and emerging fuel technologies such as renewable fuels.

The conference will provide a useful forum for the exchange of ideas and information on the development and uses of emissions data. Participating organizations are to include state, local, tribal, regional, international agencies, and industry.

Training courses on different aspects of inventory preparation and use will be on Monday September 27, 2010. After the training day on Monday, the general Conference will open with a Plenary Session for all Conference attendees on the morning of Tuesday September 28, 2010. The plenary will include a welcome by the US EPA and local hosts, and a report from the US EPA Emissions Inventory and Analysis Group followed by a panel of speakers.

On Tuesday evening, we will have a Poster Session and Exhibitor Reception from 6:00 – 8:00 pm. Attending the reception is a great way to connect with other conference attendees and to discuss your air quality program needs with several exhibitors. We have a very interesting lineup of poster presentations and the authors will be available to explain their work and answer your questions. As we did last year, we intend to mix fun with work by offering attendees the opportunity to vote for the posters of their choice and award prizes to the winners so please stop by and participate.

We will continue hosting an emissions inventory 'software showcase'. The showcase is for both private sector software developers and public entities to demonstrate their wares to Conference attendees. Federal, state, local, and tribal agency staff as well as consultants will showcase their efforts with you regarding development and application of emissions inventory related software. We hope the showcase will lead to a sharing of ideas and solutions among those involved in developing and using software for emissions inventory applications. Demonstrations will be available throughout the day on Tuesday and Wednesday.

This is a great opportunity to keep abreast of developments in the world of emissions data and to share your experiences with other emission inventory professionals from federal/state/local and international regulatory agencies, tribal governments, industry and academia. We think you will also enjoy being in San Antonio and look forward to seeing you at the Conference.

US EPA Conference Organizers
Emission Inventory and Analysis Group
Office of Air Quality Planning & Standards

Schedule at a Glance

Date/Time	Session	Room
Mon Sep 27		
8:30 - 12:00	GHG Inventory 101	Regency East #1
8:30 - 5:00	Using MOVES for County-Level Inventory Develop	Regency East #2
8:30 - 12:00	Intro to EI for Native American Reservations	Regency East #3
1:30 - 5:00	Preparing Tribal EI Submission to EIS	Regency East #3
8:30 - 5:00	Emission Inventory System	Rio Grandee East
Tues Sep 28		
8:30 – 11:30 10:00 – 10:30	Plenary Break – <i>Software Showcase</i>	Regency East (1/2) Guadalupe
11:30 – 1:30	Lunch (On Your Own)	
1:30 – 2:45	- Session 1 – Air Toxics	Regency East #1
	- Session 2 – EI Preparation for Modeling	Regency East #2
	- Session 3 – Greenhouse Gases	Regency East #3
3:10 – 3:40	Break – <i>Software Showcase</i>	Guadalupe
3:40 – 4:55	- Session 4 – Tribal Inventories	Regency East #1
	- Session 2 – Continues	Regency East #2
	- Session 3 – Continues	Regency East #3
6:00 – 8:00	- Poster Session and Exhibitors' Reception	Rio Grandee Ballroom
Wed Sep 29		
		Guadalupe
8:30 – 10:10	- Session 5 – Global/International	Regency East #1
	- Session 6 – Mobile Sources	Regency East #2
	- Session 7 – Innovative EI Development Methods	Regency East #3
10:10 – 10:40	Break – <i>Software Showcase</i>	Guadalupe
10:40 – 11:55	- Session 5 - Continues	Regency East #1
	- Session 6 - Continues	Regency East #2
	- Session 8 - EI Data Analysis	Regency East #3
12:00 – 1:30	Lunch (On Your Own)	
1:30 – 2:45	- Session 5 – Continues	Regency East #1
	- Session 6 – Continues	Regency East #2
	- Session 8 – Continues	Regency East #3
3:10 – 3:40	Break – <i>Software Showcase</i>	Guadalupe
3:40 - 4:55	- Session 9 – Tools – Leveraging Technology	Regency East #1
	- Session 6 - Continues	Regency East #2
	- Session 7 – Continues	Regency East #3
5:00 – 5:30	<i>Software Showcase</i>	Guadalupe
	EPA HQ/RQ Meeting	Medina

Schedule at a Glance (continue)

Date/Time	Session	Room
Thurs Sep 30		
8:30 – 10:10	- Session 9 – Tools – Leveraging Technology	Regency East #1
	- Session 10 – Emission Factors	Regency East #2
10:10 – 10:40	Break	
10:40 – 11:55	- Session 9 – Stationary Sources	Regency East #1
	- Session 10 – Continues	Regency East #2
12:00	Conference Concludes	

Plenary session

Tuesday September 28, 2010 8:30 -11:30 am

Keynote topic:

How inventories are being used to assess the rapid growth and impact of oil and gas production.

Panel of speakers (to be invited) will cover some of the following issues:

- Profile of the growth in the oil and gas sector for state/ local areas and associated air quality issues
- Approaches for developing a more locally-representative emissions inventory for this sector
- Policies and mitigation measures in place or anticipated for this industry sector and potential emission reductions

EPA Reports-

Status of data collection and development efforts for:

- National Emissions Inventory (NEI) 2008
- GHG Mandatory Reporting Rule

Emissions Inventory Software Showcase

We are hosting an emissions inventory 'software showcase' for both private sector software developers and public entities to demonstrate their wares to Conference attendees. The following lists some of the expected participants and software that will be demonstrated. Demonstrations will be available throughout the day Tuesday and Wednesday. The showcase location and schedule will be announced during the Conference.

Software Showcase

EI View, Lakes Environmental Software

regAction, IEA, Inc. (International Environmental Associates, Inc)

REMIS, RFS Consulting, Inc

Greenhouse Gas Mitigation Strategies Database, UNC-Chapel Hill

Exhibitors

E. H. Pechan

Lakes Environmental Software

Perrin Quarles & Associates/SRA International

RFS Consulting Inc

SRA International, Inc

U.S. EPA - Emission Inventory Group

Windsor Solutions

TRAINING SCHEDULE

Monday – September 27, 2010

Course Title: Greenhouse Gases Inventory 101

Instructors: Andrea Denny and Leif Hockstad, US EPA

Time: Monday 27, 2010. 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 3, 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

Course Title: Using MOVES for County-Level Inventory Development

Instructor: David Brzezinski, Gary Dolce and Harvey Michaels US EPA Office of Transportation and Air Quality

Time: September 27, 2010. Exact start times to be determined.

Course Description:

MOVES2010 is EPA's current approved model for estimating air pollution emissions from on-road vehicles for regulatory purposes. This course will cover the use of MOVES at the county level, as required for SIPs and regional conformity analyses. It will include extensive hands-on training exercises including creation of a Run Specification file and use of the County Domain Manager to input local data, as well as a detailed look at MOVES data converters. This course is more detailed than past training for draft MOVES2009 and is design for people who will be using MOVES2010 to develop county-level inventories for SIPs and conformity.

PARTICIPANTS MUST BRING THEIR OWN LAPTOP COMPUTERS WITH THE LATEST VERSION OF MOVES2010 AND THE MOVES2010 DATABASE ALREADY INSTALLED AND TESTED PRIOR TO THE BEGINNING OF THE COURSE.

Course trainers will not have time to help with installations of MOVES2010 during the course. Participants should make sure that their installation of MOVES2010 is operational before they arrive at the course. MOVES2010 and associated documentation is available at <http://www.epa.gov/otaq/models/moves/index.htm>. Users should also have Microsoft Excel or other spreadsheet software capable of opening Excel files on their laptops. While this course will start with the basics, some prior experience with MOVES2010 or Draft MOVES2009 is helpful.

Class size will be limited to 35 students with laptop computers. Organizations should limit the number of students sent to allow space for the maximum number of individual organizations to attend.

Course Title: Introduction to Emission Inventory for Native American Reservations
Instructor: Sarah Kelly and Angelique, Institute of Tribal Environmental Professionals
Time: Monday September 27, 2010 AM; exact start times to be determined.

Course Description:

This training is for tribal environmental professionals who are interested in conducting an emissions inventory for their tribe's lands. We will cover basic emission inventory concepts and strategies for getting started using the TEISS emissions inventory software.

LAPTOPS REQUIRED

Course Title: Preparing Tribal Emission Inventories for Submission to the EIS
Instructor: Sarah Kelly and Angelique, Institute of Tribal Environmental Professionals
Time: Monday September 27, 2010 PM; exact start times to be determined.

Course Description

This training is for tribal environmental professionals who want to submit their completed emission inventory to the National Emission Inventory through EPA's Emission Inventory System (EIS). Participants should have their emission inventories complete or close to it. This is not an introductory course. We will cover data formatting tools and the EIS submission process. **LAPTOPS REQUIRED**

Course Title: Emission Inventory System (EIS)
Instructor: Sally Dombrowski and Roy Huntley, US EPA
Time: Monday September 27, 2010, exact start times to be determined.

Course Description

This course is a repeat of the course offered to State/Local and Tribal agencies this past year. We will cover the required data elements needed to report your facility, point, nonpoint, onroad, nonroad and event inventories. Use of the Bridge Tool, the procedure for submitting data using the Web Client, and an overview of the EIS Gateway will also be covered. Intended audience - State/:Local Agencies, Tribes, Contractors

LAPTOPS REQUIRED.

Poster Session and Exhibitors' Reception

Tuesday, September 28, 2010

6:00 - 8:00 pm

1. "Development and Preliminary Results for a Residential Wood Combustion Emissions Model", Z. Adelman, G. Arora, B. H. Baek, Institute for the Environment – UNC; M. Houyoux, A. Eyth and M. Strum, US EPA
2. "Greenhouse Gas Mitigation Strategies Database", A. Zubrow, Institute for the Environment, UNC Chapel Hill; N. Hutson, EPA; B. Lange, Eastern Research Group, Inc.; J. Staudt, Andover Technology Partners "e-DMA and the IKS eeM System", M. Ballesteros, Environmental Senior Consultant IKS eeM System Manager
3. "Determine Sampling Methodology for Estimating Emissions Contribution of "Drayage" Heavy-Duty Vehicles in the Port of Houston using Remote Sensing Devices (RSD)", C. Fulper, C. Hart, D. Hawkins, R. Giannelli, C. Caffrey, J. Warila, R. Caldwell, E. Schauer, B. Ratkos, M. Christianson, US EPA, Office of Transportation and Air Quality; S. Kishan, T. DeFries, M. Sabisch, Eastern Research Group (ERG); H. Williamson, CACI, Inc "A new set of Canadian Spatial Surrogates based on 2006 Canadian Socioeconomic data and other data sets", M. Sassi, S. Cousineau, D. Davignon, Air Quality Modelling Applications Section, Meteorological Service of Canada, Environment Canada; M. Moran, J. Zhang, and Q. Zheng, Air Quality Research Division, Science and Technology Branch, Environment Canada
4. "Emission Inventory System (EIS) within a Tribal Community", C. M. Horan, SRPMIC
5. "Evaluation of Evaporative Leaks using RSD and Inventory Implications", D. Hawkins, C. Hart, C. Fulper, J. Warila, D. Brzezinski, US EPA; S. Kishan, T. Defries, ERG (Eastern Research Group); J. Kemper, J. Sidebottom, CDPHE (Colorado Department of Public Health and Environment)
6. "NEI Reengineering: A Status Report on EIS and the 2008 NEI", D. Solomon, US EPA
7. "The National Wildfire Coordinating Group (NWCG) Smoke Committee (SmoC) Support and Development of Regional and National Emission Inventory Efforts", P. Lahm, Fire Air Specialist, USDA Forest Service; G. Curcio, Fire Environment Branch Head, NC Division of Forest Resources Fire Environment Branch; S. O'Neill, Air Quality and Atmospheric Change Team,
8. "Fire Management Tools Advance North Carolina's SMP and Emission Inventory", G.M. Curcio and J. Reardon, NC Division of Forest Resources Fire Environment Branch
9. "EPA's SPECIATE Database", H. Simon, P. Bhave, D. Luecken, D. Mobley, G. Pouliot, G. Sarwar, National Exposure Research Laboratory, EPA; L. Beck, National Risk Management Research Laboratory, EPA; F. Divita, Y. Hsu E.H. Pechan and Associates; A. Reff, M. Strum, US EPA
10. "Prompt Indicator of Trends in Australian Greenhouse Gas Emissions", G. Anderson, Pitt&Sherry,
11. "A new set of Canadian Spatial Surrogates based on 2006 Canadian Socioeconomic data and other data sets", M. Sassi, S. Cousineau and D. Davignon, Air Quality Modelling Applications Section, Environmental Canada; M. Moran, J. Zhang and Q. Zheng., Air Quality Research Division, Environmental Canada

12. "Investigation of Cross-Border Differences in the Spatial Distribution of Onroad Mobile Emissions between the U.S. and Canada", J. Zhang, M. Moran, P. Makar, Q. Zheng, Air Quality Research Division, Science and Technology Branch, Environment Canada; M. Sassi, Air Quality Modeling Applications Section, Meteorological Service of Canada, Environment Canada
13. "Emissions Inventory Data Analysis by Mass Balance and Emission Factors in South Pars Gas Complex", L. Zare Haghghi, M. Tanha Ziarati, S. Mazloomizadeh, Environmental Engineering, South Pars Gas Collection, Asaluye, Bushehr, Iran
14. "Comparing On-Road Mobile Source Emission Factor Results", M. Claggett and J. Houk, Federal Highway Administration
15. "Implications of the MOVES2010 Model on Mobile Source Air Toxic Emission Estimates", M. Claggett and V. Martinez, Federal Highway Administration
16. "e-DMA and the IKS eeM System", M. Ballesteros, Environmental Senior Consultant, IKS eeM System Manager
17. "Developing an Improved Wildland Fire Emissions Inventory", N. Larkin, T. Strand, R. Solomon, B. Potter, M. Rorig, P. Lahm, U.S. Forest Service; S. Raffuse, D. Pryden, D. Sullivan, N. Wheeler, Sonoma Technology, Inc
18. "Assessment of Population Health Risks from Environmental Pollution by Emissions of a Chemical Weapons Destruction Facility", N. Khlebnikova, S. Nagorny and M. Kombarova, Research Institute of Hygiene, Occupational Pathology
19. "Using the Environmental Knowledge and Assessment Tool to Assist Decision Makers", R. Green, T. Boguski, L. Jamka, Center for Hazardous Substance Research; J. Fredkin, F. Massachusetts, CABEM Technologies; A. Prill, M2 Technologies
20. "Reducing Emissions from Deforestation and Degradation (REDD) in the Cofan Bermejo Reserve, Ecuador", T. Eckerle, S. Webb, E. Welbourn, H. Abbey, C. Ching
21. "Identification of Sensitive Emission Affecting Air Quality in Beijing", Z. Ying, C. Dongsheng, C. Shuiyuan, H. Qing; College of Environmental & Energy Engineering, Beijing University of Technology, Beijing, China

Tuesday, September 28, 2010

Session 1: Air Toxics

Chairs: Lynn Barns, SC DHEC
Darcy Wilson, ERG

- 1:30 “A Comprehensive Model for Multi-Pathway Risks From Air Pollution: Emission Inventory Preparation”, C. Yi Wu, G. Pratt and M. Dymond, Minnesota Pollution Control Agency
- 1:55 “Results of the 2005 NATA Model-to-Monitor Comparison”, R. Oommen, Eastern Research Group
- 2:20 This panel will discuss several areas where emissions inventory and monitoring data focused on local communities to better assess air toxics and their effects on the nearby residents. The panel includes perspectives from both the national and state levels.
- “The Influence of Air Toxics Emission Inventory Selection on Air Quality Model Predictions in Corpus Christi, Texas”, E. McDonald-Buller, ENVIRON International Corporation Ed Tai,
- “The School Air Toxics Project – Lessons Learned From Decisions Based on Using Air Toxics Emission Inventories”, B. Driscoll, US EPA
- “Chicora Elementary Air Toxics Monitoring Project”, J. Barnes, South Carolina Department of Health and Environmental Control
- 3:10 BREAK

Session 4: Tribal Inventories and Issues

Chairs: Sarah Kelly, ITEP

- 3:40 “The Emission Inventory Preparation Plan”, K. Ray, Air Resource Program, Confederated Tribes of the Colville Reservation
- 4:05 “Emission Inventory System (EIS) within a Tribal Community”, C. M. Horan, Salt River Pima Maricopa Indian Community
- 4:30 “Tribal Emissions Inventory: An NEI Microcosm”, M. Munn, Air Program Coordinator, Fond du Lac Reservation

Session 2: EI Preparation for Modeling

Chairs: Marc Houyoux, US EPA

- 1:30 “Development of a Local Scale Emissions Inventory for the Cleveland Multiple Air Pollutant Study”, S. B. Reid, E. K. Pollard, Y. Du and L.R. Chinkin, Sonoma Technology, Inc; D. Hammond and G. Norris, US EPA
- 1:55 “Development of an Emission Inventory for Natural Gas Exploration and Production in the Haynesville Shale and Evaluation of Ozone Impacts”, S. Kembal-Cook, A. Bar-Ilan, J. Grant, L. Parker, J. Jung, W. Santamaria and G. Yarwood, ENVIRON International Corporation
- 2:20 “Analysis of a New Stationary Non-GU Projection Methodology”, R. Mason, US EPA

- 2:45 “New 2006 Canadian Emissions Files for Air Quality Modeling”, M. Sassi, J. Chen, S. Cousineau, D. Davignon, M. Moran, J. Zhang, Q. Zheng and B. Taylor, Environment Canada
- 3:10 BREAK
- 3:40 “Use of MOVES2010 in Link-Level On-Road Vehicle Emissions Modeling Using CONCEPT-MV”, A. K. Pollack, C. E. Lindhjem, J. Haasbeek, A. DenBleyker, M. Jimenez, S. Shepard, T. Sakulyanontvittaya, P. Piyachaturawat, and T. Shah, ENVIRON International Corporation
- 4:05 “Development of Drivers and Post-Processing Scripts to Incorporate MOVES2010 Emission Factors with the Smoke Emissions Model”, C. E. Lindhjem, A. DenBleyker, M. Jimenez and A. K. Pollack, ENVIRON International Corporation
- 4:30 “The Inegration Approach of Moves and Smoke Models: Part-2; Developments of Meteorological preprocessor and SMOKE enhancements to incorporate MOVE2010 Emission Factors”, B. H. Baek and C. Seppanen, Institute for the Environment; M. Houyoux, US EPA

Session 3: Greenhouse Gases

**Chairs: Andrea Denny, US EPA
Leif Hockstad, US EPA**

- 1:30 “Understanding Uncertainty in Greenhouse Gas Emission Estimates: Technical Considerations and Statistical Calculation Methods”, K. Ritter, American Petroleum Institute; M. Lev-On, The LEVON Group
- 1:55 “Upstream Oil & Gas Sector Greenhouse Gas Reporting Protocol Development”, T. Moore and L. Gribovicz, Western Governors' Association/Western Regional Air Partnership
- 2:20 “Prompt Indicator of Trends in Australian Greenhouse Gas Emissions”, G. Anderson and H. Saddler, Pitt&Sherry, Australia
- 2:45 “Preliminary Results from Fugitive Emission Measurements of Selected Components at Compressor Stations”, M. Harrison, URS Corporation
- 3:10 BREAK
- 3:40 “Port Authority of New York and New Jersey Criteria Pollutant and Greenhouse Gas Emission Inventory – Calendar Years 2006-2008”, S. Colodner, M. Mullen, M. Salhotra, J. Schreiber, M. Spivey, K. Thesing, J. Wilson Jr., E.H. Pechan & Associates, Inc.; R. Adamson and T. Hansen, Southern Research Institute; L. DeSantis, Port Authority of New York and New Jersey
- 4:05 “Development of a Regional Greenhouse Gas Inventory and Forecast Including Direct and Consumption-Based/Energy-Cycle Emissions”, S. M. Roe, J. Wilson, M. Mullen, B. Strode, H. Lindquist, and J. Schreiber, E.H. Pechan & Associates; H. Hammer and J. Matic, AKRF, Inc; J. Perlman North Jersey Transportation Planning Authority
- 4:30 “Electricity Consumption Greenhouse Gas Inventory Tool for States”, A. Denny, A. Diem, L. Pederson, J. Herr, A. Choate, US EPA

Wednesday, September 29, 2010

Session 5: Global/International

Chairs: Gregory Frost, NOAA
Rebecca Tooly, US EPA

- 8:30 “Black Carbon as a Short-Lived Climate Forcer: A Profile of Emission Sources and Co-Emitted Pollutants”, V. Rao, US EPA
- 8:55 “Poorly-Characterized Black Carbon Sources”, D. McCabe, Clean Air Task Force
- 9:20 TBD
- 9:45 “Global Emission Projection from Transportation Sector and its Uncertainty Analysis”, F. Yan, E. Winijkul and T. C. Bond, Department of Civil and Environmental Engineering, University of Illinois-Urbana and Champaign, Urbana, IL, USA; D. G. Streets, Decision and Information Science Division, Argonne National Laboratory, Argonne, IL
- 10:10 BREAK
- 10:40 “Identifying Mitigation Measures to Reduce Near-Term Forcing: The Role of Short-Lived Climate Forcers”, Z. Klimont, M. Amann, W. Schopp, C. Heyes, L. Hoglund-Isaksson, K. Kupiainen, J. Cofala, P. Rafaj, International Institute for Applied Systems Analysis, Austria
- 11:05 “Understanding Historical Ozone Trends at Northern Mid-latitudes”, D.D. Parrish, NOAA/ESRL J.-F. Lamarque, NCAR
- 11:30 “Evaluation of Global and Regional Gridded Distribution of Emissions”, L. Granier, CIRES & NOAA/ESRL; J. F. Lamarque, NCAR; T. Bond, University of Illinois; A. D'Angiola, LATMOS/IPSL; H. D. van der Gon, TNO, The Netherlands; G. J. Frost, CIRES & NOAA/ESRL; A. Guenther, NCAR; A. Heil, FZ Juelich, Germany; C. Liousse, Laboratoire d'Aerologie, France; A. Mieville, LATMOS/IPSL, France; Z. Klimont, IIASA, Austria; S. Smith, Pacific Northwest National Laboratory, USA; J. V. Aardenne, Joint Research Center, Italy; G. van der Werf, VU University, The Netherlands
- LUNCH
- 1:30 “Advancing Climate and Air Quality Database Management Systems and Emissions Inventories in Developing Countries”, N. Davis, and J. Lents, International Sustainable Systems Rese
- 1:55 “The Trend of Sulfur Dioxide Emissions in China after 2000”, Z. Lu, D.G. Streets, S. Wang, Argonne National Laboratory, Argonne, IL USA; Q. Zhang, Tsinghua University, Beijing, China; S. Wang, Department of Environmental Science and Engineering, Tsinghua University, Beijing China; G.R. Carmichael, Y.F. Cheng, and C. Wei, Center for Global and Regional Environmental Research, University of Iowa, Iowa City, IA; M.Chin, T. Diehl, Q. TanLaboratory for Atmospheres, NASA Goddard Space Flight Center, Greenbelt, MD
- 2:20 “The Global Emissions Inventory Activity (GEIA)”, C. Granier, LATMOS/IPSL, France and CIRES&NOAA/ESRL, USA; A. Guenter, NCAR, USA; P. Middleton, Panorama Pathways, USA; A. Mieville, LATMOS/IPSL, France

2:45 “The CIERA US Initiative on Emissions”, G. Frost Univ. Colorado/CIRES and NOAA/ESRL/CSD, Boulder, Colorado, USA; C. Granier, Univ. Colorado/CIRES; NOAA/ESRL/CSD; LATMOS, CNRS and Univ. Pierre and Marie Curie, Paris, France; S. Falke, Washington Univ. St Louis and Northrop Grumman, St Louis, Missouri, USA; T. Keating, US EPA/OAR, Washington, DC, USA; J. F. Lamarque, NCAR, Boulder, Colorado, USA; M. Melamed, AAAS Fellow, US EPA/NCER, Washington, DC, USA; P. Middleton, Panorama Pathways, Boulder, CO, USA; A. Mieville, LATMOS, CNRS and Univ. Pierre and Marie Curie, Paris, France; G. Pétron, Univ. Colorado/CIRES and NOAA/ESRL/GMD, Boulder, Colorado, USA; S. Smith, PNNL, Univ. Maryland/JGCRI, College Park, Maryland, USA

3:10 BREAK

Session 9: Tools – Leveraging Technology

**Chairs: Alison Eyth, US EPA
Michael VanAltena,
RWDI AIR**

3:40 “A Comparison of the 2005 NATA Inventory with the Draft 2008 National Emissions Inventory”, A. Eyth and M. Houyou, US EPA

4:05 “Case Studies, Best Practices and Lessons Learned From Using an Emission Inventory Management System”, R. Chapman, M. Annett and, A. Carriere, RWDI AIR Inc.

4:30 “NEI Reengineering: A Status Report on EIS and the 2008 NEI”, D. Solomon, US EPA

Session 6: Mobile Sources

**Chairs: Jeremy Heiken, Sierra
Research
Chris Dresser, US EPA**

8:30 “MOVES Sensitivity Analysis – the Impacts of Input Parameters on Emissions”, D. Choi, M. Beardsley, D. Brzezinski, J. Koupal, and J. Warila, US EPA

8:55 “Comparing On-Road Mobile Source Emission Factor Results”, M. Claggett, Ph.D. and J. Houk, Federal Highway Administration, Resource Center

9:20 “Characterization of VOC Emissions from Light-Duty Vehicles in Monterrey, Mexico: Tunnel Study”, A. E. Araizaga, Y. Mancilla and A. Mendoza, Department of Chemical Engineering, México

9:45 “A Tunnel Study to Characterize PM_{2.5} Emissions from Light-Duty Vehicles in Monterrey, Mexico”, Y. Mancilla, A. E. Araizaga and A. Mendoza, Department of Chemical Engineering, México

10:10 BREAK

10:40 “Validation of the COPERT Road Emission Inventory Model with Real-Use Data”, M. Kousoulidou, L. Ntziachristos, S. Gkeivanidis, Z. Samaras, Laboratory of Applied Thermodynamics, Dept. of Mechanical Engineering, Aristotle University of Thessaloniki, Greece; V. Franco, P. Dilara, Institute for Environment and Sustainability, Transport and Air Quality Unit, EC-Joint Research Centre, Italy

11:05 “Emission Inventories Development Using MOVES Model: A Dallas-Fort Worth, Texas Area Case Study”, C. Klaus, M. Venugopal, and S. Haque, North Central TX Council of Governments

11:30 “Greenhouse Gas Emissions Analysis of Regional Transportation Plans with EPA’s MOVES Model”, J. Houk, Federal Highway Administration

LUNCH

1:30 “Improvements to Lawn and Garden Equipment Emissions Estimates for Baltimore, Maryland”, S. B. Reid, E. K. Pollard, D. C. Sullivan, Sonoma Technology, Inc.; S. L. Shaw, Electric Power Research Institute

1:55 “Determine Sampling Methodology for Estimating Emissions Contribution of “Drayage” Heavy-Duty Vehicles in the Port of Houston using Remote Sensing Devices (RSD)”, C. Fulper, C. Hart, D. Hawkins, R. Giannelli, C. Caffrey, J. Warila, R. Caldwell, E. Schauer, B. Ratkos, M. Christianson, US EPA; S. Kishan, T. DeFries, M. Sabisch, Eastern Research Group (ERG); H. Williamson, CACI, Inc

2:20 Characteristics of Vehicle Emission in China Based on Portable Emissions Measurement Systems”, K. He, Z. Yao and Y. Zhang, Tsinghua University, China

2:45 “Uncertainty Analysis of Vehicular Emissions Inventory in China”, Y. Zhang, Q. Zhang and K. He, Tsinghua University

3:40 “Fuel Economy and Emissions from Light-Duty Vehicles using Ethanol-Gasoline Blends and a Hybrid Vehicle under Conditions of a Mexican City”, L. Menchaca, M. Hernandez and A. Mendoza, Department of Chemical Engineering, México

4:05 “Texas Implementation of the Motor Vehicle Emission Simulator (MOVES) Model”, B. Kite, Texas Commission on Environmental Quality

4:30 “Implications of the MOVES2010 Model on Mobile Source Air Toxic Emission Estimates”, M. Claggett, Ph.D., Federal Highway Administration, Resource Center; V. Martinez, Federal Highway Administration, Office of Natural & Human Environment

Session 7: Innovative EI Development Methods

**Chairs: Sally Dombrowski,
US EPA**

8:30 “Implementing a Process to Improve the Transparency, Accessibility and Accuracy of the Nonpoint Source Emission Estimates in the 2008 National Emissions Inventory”, J. G. Dorn and F. Divita, Jr., E.H. Pechan & Associates, Inc.; R. Huntley, U.S. EPA; M. Janssen, Lake Michigan Air Directors Consortium

8:55 “Establishing Graffiti Emissions as a Nonpoint Source Sector”, A. Leskys, Clark County Department of Air Quality and Environmental Management

9:20 “Developing an Improved Wildland Fire Emissions Inventory”, T. Strand, R. Solomon, B. Potter, M. Rorig, P. Lahm, U.S. Forest Service; S. Raffuse, D. Pryden, D. Sullivan, N. Wheeler, Sonoma Technology, Inc.

9:45 “Field Study of PM_{2.5} Emissions from a Road Widening Project”, E. K. Pollard, D. S. Eisinger, P. T. Roberts, Y. Du, and S B. Reid, Sonoma Technology, Inc; B. T. Chenausky, Arizona Department of Transportation

10:10 BREAK

Session 8: Emission Inventory Data Analysis

Chairs: Alice Chow, US EPA
Josh Drukenbrod, US EPA

- 10:40 “Innovations in Greenhouse Gas Inventory Methods at the City-Scale”, A. Ramaswami, University of Colorado Denver; T. J. Ewing, ICLEI-Local Governments for Sustainability
- 11:05 “Emissions Inventory Development for Fine-scale Air Quality Modeling”, R. L. Tooly, US EPA; S. Reid, Sonoma Technology
- 11:30 “A Comprehensive Emissions Inventory of Upstream Oil and Gas Activities in the Rocky Mountain States”, A. Bar-Ilan, J. Grant, R. Parikh, A. Pollack, ENVIRON International Corporation; D. Henderer, Buys & Associates, Inc.; K. Sgamma, Independent Petroleum Association of Mountain States (IPAMS)

LUNCH

- 1:30 “Characterization and Breadth of Rail Yard Specific Inventories”, B. Douglass, J. Heiken and G. Rubenstein, Sierra Research
- 1:55 “Estimating Load Factors for Nonroad Diesel Equipment using In-Use Measurements”, D. Choi, C. Fulper, R. Giannelli and J. Warila, US EPA National Vehicle and Fuel Emissions Laboratory; S. Kishan, T. DeFries, Eastern Research Group
- 2:20 “e-DMA and the IKS eeM System”, M. Ballesteros, Environmental Senior Consultor IKS eeM System Manager
- 2:45 “Air Emissions Data Management at the Goddard Space Flight Center”, K. Moxley, NASA/Goddard Space Flight Center; J. E. Martin, Jr., Straughan Environmental Services,
- 3:10 BREAK
- 3:40 “Identification of Sensitive Emission Affecting Air Quality in Beijing”, Z. Ying, C. Dongsheng, C. Shuiyuan and H. Qing, College of Environmental & Energy Engineering, Beijing University of Technology, Beijing, China
- 4:05 “Measurement of Residential Space Heating Fuel Use in Alaska”, B. Dulla, Sierra Research
- 4:30 “The Use of Source Apportionment Modeling and Cost-Effectiveness Data in Control Strategy Development”, G. Stella, Alpine Geophysics, LLC; R. Morris and O. Nopmongcol, ENVIRON International Corp.

Thursday, September 30, 2010

Session 9: Tools -Leveraging Technology

Chairs: Alison Eyth, US EPA
Michael VanAltena, RWDI AIR

- 8:30 “Evaluation of Evaporative Leaks using RSD and Inventory Implications”, D. Hawkins, C. Hart, C. Fulper, J. Warila, D. Brzezinski, US EPA; S. Kishan, T. Defries, Eastern Research Group; J. Kemper, J Sidebottom, Colorado Department of Public Health and Environment
- 8:55 “Fire Management Tools Advance North Carolina's SMPand Emission Inventory”, G. M. Curcio, Fire Environment Branch Head, NC Division of Forest Resources Fire Environment Branch, Kinston, NC; J. Reardon , US Forest Service Rocky Mountain Research Station, Missoula Fire Lab, Missoula, MT, USA.
- 9:20 “Use of Satellite Data in CMAQ Evaluation”, U. Shankar, L. Ran, S. Arunachalam, N. Davis, E. Adams and Z. Adelman, University of North Carolina Institute for the Environment
- 9:45 “The Transparency Imperative in GHG Reporting”, S. S. Salinas and Accenture T. Carnac, Carbon Disclosure Project
- 10:10 BREAK

Session 10: Emissions Factors

Chairs: Roy Huntley, US EPA
Madeleine Strum, US EPA

- 8:30 “Emissions Factors Program Improvement Abstract”, T. Driscoll, US EPA
- 8:55 “Major Environmental Advancements in Military Coatings using reduced VOC Coatings”, J. Mort, Hentzen Coatings
- 9:20 “Emissions Uncertainty: Focusing on NOx Emissions from Electric Generating Units”, E. Wisner, A. Anderson, C. Geisenhoffer, B. Heffner, M. Shaw and B. Hunt, Dept of Statistics, NCS; D. Mobley, G. Pouliot Atmospheric Modeling and Analysis Division, National Exposure Research Laboratory
- 9:45 “Revising the EPA’s Residential Wood Combustion Access Tool to Develop a 2008 Emission Inventory”, R. Huntley, EPA; F. Divita, J. Van Bruggan, EH Pechan & Associates
- 10:10 BREAK
- 10:40 “New Field Study Improves GHG Emissions Factors for Petroleum Industry”, M. Webb, STAR Environmental
- 11:05 “Emission Estimate Methodology for Maritime Navigation”, C. Trozzi, Techne Consulting srl, Roma (Italy)

Session 11: Stationary Source

Chairs: Carl Young, US EPA

- 10:40 “Planning and Developing Emission Inventories for Large Industrial Cities in Qatar”,
H. Sung, Trinity Consultants Krishnasamy Raman, Environmental Studies Center, Qatar
University; Maryam Saoud S M Al-Adba, Environmental Studies Center, Qatar University
- 11:05 “O&G Emission Inventories in the WRAP Region”, L. Gribovicz, WRAP
- 11:30 “Assessing the Anthropogenic Fugitive Dust Emission Inventory and Temporal Allocation using
an Updated Speciation of Particulate Matter”, G. Pouliot, H. Simon, P. Bhave, D. Mobley,
T. Pierce, Atmospheric Modeling, US EPA; D. Tong, Air Resources Laboratory, National
Oceanic and Atmospheric Administration, US EPA; T. Pace, US EPA

Registration

To register for the conference, courses, and meetings, please complete the on-line registration form located on the conference registration web page at <http://projects.pechan.com/EPA/eic/register.cfm>. If you cannot access the Conference Registration webpage, please contact E.H. Pechan and Associates, Inc. at 919-493-3144, ext. 200 or email at conference.ei@pechan.com. Space is on a first come, first served basis, via registration. For additional information regarding registration, please contact Kim Paylor at (919) 541-5474.

Logistics

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