# Final Program 11<sup>th</sup> Annual Emission Inventory Conference:

# Emission Inventories-Partnering for the Future



Courses: April 15, 2002 Conference: April 16-18, 2002 Hyatt Regency - Atlanta, GA

## Sponsored by:



U. S. Environmental Protection Agency Office of Air Quality Planning & Standards Emission Factor and Inventory Group

Hosted by: US EPA Region IV, and Georgia Department of Natural Resources

## Conference Overview

"Emission Inventories - Partnering for the Future" is the eleventh in a series of annual conferences targeted at professionals from federal/state/local and international regulatory agencies, tribal governments, industry, and academia who prepare, review, or utilize emission inventory data. The conference begins April 15 with a day of training courses covering several aspects of emission inventory preparation and use. The technical program, April 16 -18, includes presentations that describe new developments in methodologies for characterizing and inventorying air pollutant emissions, especially in emerging programs such as air toxics, fine particulate matter, and greenhouse gases. Also of interest are a number of poster presentations to be held in conjunction with an informal reception April 16. Several exhibit booths will be on display.

This conference is sponsored by the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Emission Factor and Inventory Group, with assistance from the EPA Region IV office and the Georgia Department of Environmental Protection. At the conclusion of the conference on Thursday, the Georgia DEP is coordinating a tour of the Georgia Power facility.

**Keynote Speaker - Emission's Inventories: A Key in Regional Air Quality Planning** John Hornback is the Executive Director of Metro 4 and SESARM, two non-profit organizations that represent local and state air pollution control agencies in the Southeast. He is also the director of VISTAS, the planning organization addressing regional haze in the southeast.

John recently retired as director of the Kentucky Division for Air Quality, a position he had held since 1992. Primary accomplishments during his tenure as director were establishing staffing and other resources necessary to implement the Clean Air Act Amendments of 1990, attainment of the 1-hour ozone standard throughout the state, and forging relationships between citizens and businesses in Kentucky. He was a key supporter of major reevaluation and reengineering of the way the environmental agencies conduct their business.

John is a graduate of Eastern Kentucky University with a B.S. in Biology and an area of emphasis in wildlife management. He is married and has two sons who are sophomores – one at the University of Kentucky and the other in high school. His family will join him in Atlanta at the end of the spring school term.

In his spare time, John has served the youth of his community as a soccer referee, his church as treasurer, and he has taken photographs of more than 175 covered bridges across the country.

#### **General Information**

#### **Exhibition**

An exhibition of relevant organizations and activities complements the conference.

A reception will be held in conjunction with poster presentations in the exhibition area during the times designated in the program (see complete schedule). Exhibitors include:

US EPA/Emission Inventory Improvement Program

E.H. Pechan and Associates

S Pacific Environmental Services MCNC Environmental Modeling Center

## Speakers' Meetings

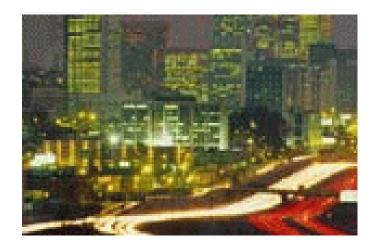
Presenters of papers and session chairs should meet at 7:00 a.m. in the Hong Kong room the morning of their session to make final arrangements for their presentation. This will be an opportunity to meet face-to-face, review bio's, ensure pc slides or overhead transparencies are working properly, and to review the schedule for the day.

### **Incoming Messages**

Messages may be received at (404) 588-2950. Messages will be posted on the message board at the registration desk.

## **Conference Proceedings**

Just prior to the conference, technical papers, and slide presentations where available, will be posted on the ClearingHouse for Emission Inventories and Factors (CHIEF) web site under the heading of Conferences. The address is www.epa.gov/ttn/chief. In order to minimize resources, paper copies of the conference proceedings will not be mailed to attendees. Papers that were submitted past the March 15 deadline may not be posted until shortly after the close of the conference.



Schedule at a Glance

Time	Session	Time	Session		
Mon, Apr 15		8:00 - 10:00	Session 9a - Tribal Issues		
8:00 - 5:00	Courses (See Training Schedule)	10:00 - 10:30 Break		urses (See Training Schedule) 10:00 - 10:30 Break	
Tue, Apr 16		Wed, Apr 17			
8:00 - 9:00	Plenary Session- John Hornback, SESARM - Keynote Speaker	10:30 - 12:00 Session 7- Stationary Source Methodologies			
9:00 - 10:00	Demonstration of EPA's National Emission Inventory		Session 8 - RPOs (Continues)		
10:00 - 10: 30	Break		Session 9b-Mobile Sources		
10:30 - 12:00	Session 1 - State Experiences with Point Source Emission Inventories	12:00 - 1:00	Lunch (On Your Own)		
	Session 2 - Emission Factors	1:00 - 3:00	Session 10 - Emission Inventory Preparation for Modeling		
	Session 3 - Fugitive Dust		Session 11 - Inventory Validation/QA		
12:00 - 1:00	Lunch (On Your Own)	Session 9b - Mobile (Cont'd			
1:00 - 3:00	Session 4 - PM/Managed Burning	3:00 - 3:30	Break		
	Session 5 - Data Management	3:30 - 5:30	Session 10 - Modeling (Cont'd)		
	Session 6 - Greenhouse Gas		Session 11 Inv Val/QA (Cont'd)		
3:00 - 3:30	Break		Session 9b -Mobile (Cont'd)		
3:30 - 5:30	Session 4 - PM/Managed Burning (Cont'd)	Thu, Apr 18			
	Session 5 - Data Management (Cont'd)	8:00 -10:00	Session 12 - NH <sub>3</sub> /Agricultural Issues		
	Session 6 - Greenhouse Gas (Cont'd)		Session 13 - Toxics		
6:00 - 8:00	Poster Session and Exhibitors Reception	10:00 - 10:30	Break		
Wed, Apr 17		10:30 - 11:00	Session 12 - NH <sub>3</sub> /Ag Issues (Cont'd)		
8:00 - 10:00	Session 7 - Stationary Source Methodologies		Session 13 - Toxics (Cont'd)		
	Session 8 - Planning Org Activities				

## **Training Schedule** - Morning Session (8:00 am - 12:00 pm)

### **April 15, 2002**

Courses will be offered, free of charge, on a first come, first serve basis. Pre-registration is required. Registered participants will be notified of class locations upon check-in.

#### **EPA's Emission Estimation Tools**

Location: U. S. EPA, Region IV Offices

Instructors: Dennis Beauregard, David Misenheimer, Bill Kuykendal, U.S. EPA

This course will introduce participants to the use of several of EPA's emission estimation tools and hands-on training for Air CHIEF Version 9.0; FIRE; TANKS; PM Calculator; the CHIEF website and Air DATA.

## **Basic Emission Inventory Preparation**

Room: Hong Kong

Instructor: Roy Huntley, Doug Solomon, U.S. EPA

This course presents an introduction and broad overview of Emission Inventories. Topics covered include basic emission inventory concepts, planning for an emission inventory, and emission inventory quality assurance. The course also includes an introduction to developing emission estimates for different source types (e.g., stationary point sources, stationary area sources, onroad mobile sources, and nonroad mobile sources). This course is designed primarily for air quality agency staff that are new to the emission inventory field.

## **National Emission Inventory (NEI) Input Format (NIF)**

Room: Montreal/Vancouver Instructor: Lee Tooly, U.S. EPA

Most of the State/local and tribal agencies will use the NIF to transfer data electronically to EPA. A thorough review of NIF Ver 2.0 user package will be provided. Implementation conventions will be demonstrated by reviewing a data set in the NIF Ver 2.0. The course is intended for State/Local/Tribal users.

## **Emission Inventory Preparation for Modeling**

Room: Cairo

Instructor: Gregory Stella, U.S. EPA

Emissions modeling is an important and integral step in the translation of mass emissions inventories into useful inputs for air quality analysis and air dispersion model runs. This training session will provide a background into the development of emissions inventories suitable for emissions modeling and an outline of the steps and stages involved with emissions modeling activities. Key topics of discussion will be the completeness, temporal and spatial allocation, and speciation of mass emission inventories.

## **EPA's Emission Estimation Tools**

Location: U. S. EPA Region IV Office

Instructors: Dennis Beauregard, David Misenheimer, Bill Kuykendal, U.S. EPA

This course will introduce participants to the use of several of EPA's emission estimation tools and hands-on training for Air CHIEF Version 9.0; FIRE; TANKS; PM Calculator; the CHIEF website and Air DATA.

## **Emission Inventory Quality Assurance**

Room: Hong Kong

Instructor: Rhonda Thompson, U.S. EPA

With the evolution of the National Emission Inventory (NEI), U. S. EPA has developed a new quality assurance tool to identify potential errors in the inventory. Learn how to use this new software which automates checks for database format and content using the NEI Input format. It reads the submittal form accompanying the database and compares the database pollutant, geographic, SCC, and temporal coverage with the coverage specified. Other database format checks include completeness of mandatory fields and relational database referential integrity. It also performs database content checks on computational fields, acceptable codes, and numeric value ranges.

## **PM Fine Emission Inventory Preparation**

Room: Cairo

Instructor: Tom Pace, U.S. EPA

This course will focus on the principal stationary source categories emitting PM fine particles. For each category, we will discuss how the National Emission Inventory (NEI) develops its emission estimates, suggest activities Sates can do to improve upon the NEI estimate and locate on-line resources to facilitate State inventory improvement activities. A case study will provide examples.

## **Inventory Preparation for Toxics**

Room: Montreal/Vancouver

Instructor: Stephanie Finn, Eastern Research Group; Anne Pope, US EPA

This course discusses specific toxics issues to consider when developing toxics air emission inventories. It is designed as a segment to be used as a follow-on to the basic emission inventory course. It does not cover material on basic emission inventory development. Specific topics include how to report hazardous air pollutant compound groups, source categorization.

Session 1	State Experiences with Point Source Inventories	Room: Chairs:	Montreal/Vancouver Roy Huntley, U. S. EPA Robert Betterton, South Carolina, DHEC
10:30 am	West Virginia Point Source Emis Step Back, J. E. Morgan, D. J. Po Quality.		1
11:00 am	New York State's Point Source Inventory Merging Criteria and Hazardous Air Pollutant Inventories, R. G. Sliwinski, M. P. Sheehan, R. D. Bielawa, New York State Dept of Environmental Conservation.		
11:30 am	Virginia's Point Source Inventor to CEDS, T. Ballou, Virginia De	•	· ·
Session 2	<b>Emission Factors</b>	Room: Chairs:	Cairo Joey Levasseur, U. S. EPA Scott Southwick, GA DEP
10:30 am	Evaluation of the Transport and Deposition of Fugitive Dust Using Lidar, D. Fitz, R. Philbrick, D. Pankratz, University of California, Riverside; R. Philbrick, G. Li, Pennsylvania State University		
11:00 am	Methods for Quantifying Variability and Uncertainty in AP-42 Emission Factors: Case Studies for Natural Gas-Fueled Engines, H. C. Frey, S. Li, North Carolina State University		
11:30 am	Average Displaced Emission Rat Kerr, R. Morgan, U.S. EPA; J. H		
Session 3	<b>Fugitive Dust</b>	Room: Chair:	Hong Kong William Kuykendal, U. S. EPA
10:30am	The Effect of Vehicle Speed on Unpaved Road Emissions, G. E. Muleski, C. Cowherd, Jr., Midwest Research Institute		
11:00 am	Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads, C. Cowherd, Jr., M. A. Grelinger, C. Kies, Midwest Research Institute; T. G. Pace, U.S. EPA		
11:30 am	Measurement of PM <sub>10</sub> Emission I Board Particle Sensors, D. R. Fit Riverside	•	9

# Tuesday, April 16, 2002

i desuay,	April 16, 2002		
<b>Session 4</b>	Particulate Matter/	Room:	Hong Kong
	Managed Burning	Chair:	William Kuykendal, U. S. EPA
1:00 pm	Potential of Polyethylene Oxide S. Bae, H. I. Inyang, Global Insti (GIEES).		9
1:30 pm	Emission Estimation Methods for Factor Database, T. Pulles, A. V. NETHERLANDS.		
2:00 pm	Progress on Developing a Feder R. Myers, U.S. EPA.	al Referen	ce PM Fine Source Test Method,
2:30 pm	Emissions Estimate from Forest European Case Studies, C. Trozz ITALY.		. · · ·
3:00 pm	BREAK		
3:30 pm	A GIS-Based Methodology to Est for Clark County, Nevada, S. Pul Las Vegas.		10
4:00 pm	The FHWA Particulate Matter R Highway Administration.	esearch Pi	rogram, K. N. Black, Federal
4:30 pm	Locating and Quanitfying Fine P Residential Wood Burning, J. Ra P. Gong, University of California	dke, Y. Q.	Tian, D. Zhou, L. Mu, J. Xu,

# Tuesday, April 16, 2002

Session 5	Data Management	Room: Chair:	Montreal/Vancouver Lee Tooly, U.S. EPA
1:00 pm	National Environmental Information, K Dunne, The E M. Shaffran, US EPA.	U	
1:30 pm	Web Services Implementation: The C. Dwyer, C. Clark, U.S. EPA; M.		
2:00 pm	The System of the German Emissis Environmental Agency (UBA) M Seven2one Information Systems,	Ianagement; C	O.
2:30 pm	Developing Internet-Based GIS A Emissions Activity Data, T. H. F		8
3:00 pm	BREAK		
3:30 pm	Environmental Data Managemen (EDMACS): Rethinking the Creat Regulated Community, R. Emigh	tion and Use o	f Emissions Data by the
4:00 pm	The Area Source Assessment Too Area Source Emission Inventories S. P. Anderson, Texas National R Stoeckenius, ENVIRON Corpora	s. S. Boone, E. esource Conse	H. Pechan & Associates, Inc.;

Tuesday, April 16, 2002

Session 6	<b>Greenhouse Gas</b>	Room:	Cairo	
		Chairs:	Michael Gillenwater, U. S. EPA Guido Franco, CA Energy Comm	
1:00 pm	R. Acosta, S. Pesmaj	Technical Review of the National Greenhouse Gas National Inventories, R. Acosta, S. Pesmajoglou, J. Grabert, R. Lichte, U. N. Climate Change Secretariat, GERMANY.		
1:30 pm			Hong Kong Special Administrative commental Protection Department,	
2:00 pm	An Assessment of the Use of Inventories in Determining Global Anthropogenic Methane and Nitrous Oxide Emissions, E. Scheehle, W. Irving, D. Kruger, US EPA.			
2:30 pm	· ·	M. Gibbs, ICF Consu	nd Trends Over the Past Decade, lting; D. Coe, N. Hyslop, Sonoma nergy Commission.	
3:00 pm	Break			
3:30 pm	from Electricity General Price, C. Marnay, J. S.	ration for the Californ athaye, S. Murtishaw	lating Greenhouse Gas Emissions nia Climate Action Registry, L. r, D. Fisher, A. Phadke, Lawrence California Energy Commission.	
4:00 pm	Emissions from Oil	and Gas Industry (	y for Estimating Greenhouse Gas Operations, K. Ritter, American T Shires, URS Corporation.	
4:30 pm	Consumption and Gr	reenhouse Gas Emiss m, ChevronTexaco Re	Process for Estimating Energy sions from Oil and Gas Industry esearch and Technology Company;	
5:00 pm	v 1	O	es of Black Carbon and Organic corporated; T. G. Pace, U.S. EPA.	

#### **Poster Session**

6:00 pm - 8:00pm

1990-2010 Area Source Emission Trends in the State of Texas, A. Bollman, H. Chelf, R. Strait, E. H. Pechan & Associates, Inc.

1999 Tugboat Fuel Consumption in Seattle Area, K. Agyei, Puget Sound Clean Air Agency

The System of the German Emission Inventory, U. Doring, Federal Environmental Agency; C. Schlenzig, U. Schellmann, Seven2One, Inc., GERMANY

Emission Inventory Reporting through EPA's Central Data Exchange: 2001 Reporting Period, L. Tooly, S. Dombrowski, C. Freeman, C. Clark, US EPA; R Chaudet, M. Nobles, Logistics Management Institute

Evaluating the Drivers, Benefits, and Challenges for Corporations to Perform Greenhouse Gas Inventories; Experiences of EPA's Climate Leaders Partner Companies, V. Camobreco, US EPA

Olympic Air Pollution Control Authority Air Toxics Emissions Inventory Interim Report, J. T. Kelly, Olympic Air Pollution Control Authority

Recent Activities Related to PM 2.5 Emissions Estimation, T. P. Pace, US EPA; M. Saeger, Pacific Environmental Services, Inc.

A Roadmap of Research: Improvements of Methods Used to Estimate GHG Emissions in California, G. Franco, California Energy Commission

Supporting Real-Time Air Quality Forecasting for Summer 2001 Using the SMOKE Modeling System, J. M. Vukovich, J. N. McHenry, C. J. Coats, A. Trayanov, MCNC-Environmental Programs. (At MCNC Booth)

Design of Emission Data Processing for Including Emissions Uncertainties, C. Frey, D. Loughlin, North Carolina State University; A. Holland, G. Cano, MCNC.

## **Poster Session (Continues)**

6:00 pm - 8:00pm

Wind-Direction-Dependent Differences Between Model Calculations and Field Measurements as Indicator for Inaccuracies in Emission Inventories, J. A. vanAardeene, P. J. H. Builtjes, M. P. J. Pulles, TNO Institute of Environmental Sciences; L. Hordijk, C. Kroeze, Wageningen University, THE NETHERLANDS

EstimatER, An Expert System for Emissions, T. Pulles, TNO-MEP; J. Skakala, J. Svetlik, M. Linek, SPIRIT Informacne Systemy a.s., THE NETHERLANDS

ControlNET, Emissions Inventory and Control Technology Tool, F. Divita, L. Hockstad, P. Horch, E. H. Pechan & Assoc, Inc; L. Sorrels, B. Gilbert, U.S. EPA.

An Analysis Is Only As Good As the Data On Which It Is Based: EIA Electric Power Surveys and Their Quality Assurance Reviews, S. S. Rothschild, M. L. Cohen, E. H. Pechan & Assoc, Inc.

*Update: E-GRID Data Base*, R. Morgan, U.S. EPA; S. S. Rothschild, E. H. Pechan & Assoc, Inc.

The Emission Inventory and Air Quality Home Page, F. Divita, M. Salhotra, P. Horch, E. H. Pechan & Associates, Inc; B. Gilbert, U. S. EPA

Surrogate Selection within SMOKE to Obtain Realistic Spatially Resolved Mobile Source Emissions, Y. J. Choi, K. Yue, R. V. Calabrese, S. H. Ehrman, University of Maryland

Greenhouse Gas Inventory Tools for States, R. Freed; ICF Consulting; A. Choate, A. Denny, S. Brown, U.S. EPA.

Influence of Biogenic Emission Uncertainties on Ozone Model Predictions in the Boreal Forest, D. Fox, Environment Canada; K. McDonald, Concordia University College of Alberta, R. Goodson, Environment Canada.

Session 7a	<b>Stationary Source Methodologies</b>	Room: Vancouver/Montreal
		Chairs: Chuck Mann, U. S. EPA Ray Bishop, Oklahoma DEQ
8:00 am	Weekday/Weekend Activity Patterns Commercial Area Sources in Los An Chinkin, Sonoma Technology, Inc.	
8:30 am	Development of Revised Emission Estrea Sources in Texas, S. M. Roe, P. Strait, E. H. Pechan & Associates Resources Conservation Commission	H. Chelf, M. Caldwell, R., Inc; M. Torres, Texas Natural
9:00 am	Lessons Learned in the Development for Open Burning, K. B. Thesing, S. & Associates, Inc.	• 0
9:30 am	Development of an Area and Mobile Chlorine Compounds in Southeast T J. T. Bursey, Eastern Research Grou	Yexas, C. E. Buklin, S. Erickson,
10:00 am	BREAK	
Session 7b	<b>Stationary Source Methodologies</b>	Room: Vancouver/Montreal
		Chairs: Roy Huntley, U.S. EPA Bob Betterton, So Carolina DHEC
10:30 am	Estimating PM and HAPs Area Source Emile. H. Pechan & Associates, Inc; T. G. Pace	9
11:00 am	The Effect of Air Pollutant and Control Dev Rates, M. L. Hochhauser, Allegheny Count J. Betterton, South Carolina Department of Control.	y Health Department, R.
11:30 am	Method for Development of Probabilistic E Case Study for Utility $No_x$ Emissions, H. C. State University.	-

<b>Session 8</b>	<b>Regional Planning Organizations</b>	Room: Hong Kong
	Chairs:	Rosalina Rodriguez, U.S. EPA John Hornback, SESARM
8:00 am	Assessment of Emission Inventory No. S. Kayin, S. Wierman, Mid Atlantic Association, B. Haneke, M. Saeger, Inc.	Regional Air Management
8:30 pm	Preparation of a Base Year Inventor Haze in the West, L. Gribovicz, D. S Regional Air Partnership; M. Saeger Services, Inc.	chweher, B. Ramirez, Western
9:00 pm	Efforts to Improve Spatial and Temp Procedures, G. Stella, U.S. EPA; B. Pacific Environmental Services, Inc	
9:30 pm	New Approaches to PM Inventory Ev M. Janssen, Midwest Regional Plant	<del>-</del>
10:00 pm	BREAK	
10:30 pm	Establishment of a Community Mode Support Mechanism, W. G. Benjey, I Atmospheric Administration; R. E. I Programs.	National Oceanic and
11:00 pm	A New Resource for International Enand Data Retrieval: A Proposal, B. I. T. J. Keating, US EPA; M. Levy, G. University.	L. Hemming, S. R. Falke,
11:30 pm	Developing a National Emissions Inv Planning, P. G. Fields, Eastern Reseaves Western Governor's Association; W.	arch Group, Inc; R. Halvey,

Session 9a Tribal Issues Room: Cairo

Chair: Annabelle Allison, Tribal Air

**Monitoring Support Center** 

8:00 am Practical Workshop on Emission Inventory, K. C. Flores, Jr., Cortina

Indian Rancheria.

8:30 am Assisting Tribes in Submitting Data to the National Emissions

*Inventory, Challenges and Successes*, S. Kelly, V. Masayesva, Institute for Tribal Environmental Professionals; A. Allison, Tribal

Air Monitoring Support Center.

9:00 am A Robinson Rancheria's Emissions Inventory: A Minor Inventory

Leading to Major National Impacts, D. C. Jones, Robinson

Rancheria.

9:30 am Conducting an Emission Inventory for a Traditional Haudenasaunee

Territory, L. S. Printup, Tuscarora Environment Program.

10:00 am Break

**Session 9b Mobile Sources-** Room: Cairo

Modeling Issues Chairs: Laurel Driver and

Joe Pedelty, U.S. EPA

10:30 am EPA's Plan for MOVES: A Comprehensive Mobile Source Emissions

*Model*, J. Koupal, H. Michaels, M. Cumberworth, C. Bailey, D.

Brzezinksi, U.S. EPA.

11:00 am Design and Application of SMOKE Integration with MOBILE 6,

C. Seppanen, M. Houyoux, MCNC; M. Strum, G. Stella, N. Possiel,

U.S. EPA.

11:30 am An Object-Oriented Design for a New Generation Model for Mobile

Source Emissions, A. Eyth, K. Hanisak, P. Pai, C. Seppanen, MCNC.

12:00 pm Lunch

Session 9b Mobile Sources Room: Cairo

On-Road Issues Chairs: Laurel Driver and

Joe Pedelty, U. S. EPA

1:00 pm The Use of MOBILE6 in Preparing National Onroad Emission

Inventories, M. A. Mullen, E. H. Pechan and Associates; L. Driver,

J. Somers, U.S. EPA.

1:30 pm Sensitivity Testing of MOBILE6, the US EPA's Most Recent Edition

of It's Emissions Estimator for Gasoline and Diesel Powered Roadway Vehicles, R. A. Giannelli, J. H. Gilmore, S. Srivastava, M. Beardsley, D. Brzezinski, G. Dolce, J. Koupal, J. Pedelty, U.S.

EPA.

Development of Mobile Source Emission Factors, H. C. Frey, A.

Unal, North Carolina State University.

2:30 pm The California Department of Transportation/Air Resources Board

Modeling Program (CAMP): New Research to Improve Speed Correction Factors and Mobile Source Emissions Modeling, D.

Eisinger, D. Niemeier, T. Kear, University of California, Davis.

3:00 pm Break

3:30 pm Evaluation of On-Road Emissions from Transit Busses During

Revenue Service, D. Lambert, P. J. Wilson, M. Vojtisek-Lom, Clean

Air Technologies, Inc.

**Session 9b Mobile Sources -** Room: Cairo

Non-Road Issues Chairs: Laurel Driver and

Joe Pedelty, U.S. EPA

C.

4:00 pm Quantification of Variability and Uncertainty for Selected Nonroad

Mobile Source Emission Factors; H. C. Frey, S. Bammi, North

Carolina State University.

4:30 pm *Use of GIS Data for Allocating Aircraft, Rail, and Commercial* 

Marine Vessels Emissions to the County Level, R. Billings, A. Langmaid, R. Mongero, Eastern Research Group; L. Driver,

Scarbro, US EPA.

## Wednesday, April 17, 2002

Session 10 Emis Preparation for I	_	Room: Chairs:	Hong Kong Gregory Stella, U. S. EPA Patrick Barickman, Utah DEQ
1:00 pm	The Climate-Air Quality S Inventory Activity, P. Mid G. Benjey, National Ocean	ldleton, RA	_
1:30 pm		Iason, Dyn 'R Incorpoi	Tel Corporation; M. Strum, U.S. rated; J. S. Touma, National
2:00 pm	Air Pollution in the CAM (	(Spain), J.	Emission Inventory for Modeling Lumbreras, M. J. Sanchez, iversidad Politecnica de Madrid
2:30 pm	Emission Model for Industrial ENSCO, Inc.	trial Sourc	es (EMIS), N. M. Wolfe,
3:00 pm	Break		
3:30 pm	Developing Spatial Surrog W. Boulton, K. Siriunas, M Davies and Irwin, Inc.	-	S. Schill, Rowan Williams
4:00 pm	Developing a Statewide En Geographic Information S Resources Board		ventory System Using S), P. Gaffney, California Air
4:30 pm	The Implementation of BE Framework, J. M. Vukovica. Pierce, National Oceanical	ch, MCNC	-Environmental Programs;
5:00 pm		ern US, S.	Estimates from BEIS-3 on Ozone Arunachalam, Z. Adelman, ironmental Programs

**Session 11 Inventory Validation/** 

<b>Quality Assurance</b>	ce	Chairs:	Rhonda Thompson, US EPA Joshua Fu, Univ of Tennessee
1:00 pm	Uncertainty in Emission In Could We Assess It?, J. A. Institute of Environmental	van Aarde	
1:30 pm		ory, J. S. 1	se Management System for the Fu, W. T. Davis, T. L. Miller, C.
2:00 pm	A Demonstration of the Qu Specifically Developed for Thompson, US EPA.	•	rance (QA) Software nal Emission Inventory (NEI), R.
2:30 pm	Incorporation of State, Loc into the 1999 National Emi McKenzie, S. Connor, E. H Huntley, US EPA.	ission Inve	
3:00 pm	Break		
3:30 pm	QC/QA - An Integral Step of Emissions Inventory for HA Finn, Eastern Research Gro University.	A <i>Ps</i> , A. Po	-
4:00 pm	Texas Natural Resource Co Assurance and Quality Con B. Limsakul, D. Preusse, T Commission.	ntrol Plan	in the Preparation , M. Torres,
4:30 pm	Use of GIS and GPS as a Q Inventory, A. Alexis, Califo	-	

Montreal/Vancouver

Room:

Thursday, April 18, 2002

Session 12 Agricultural Issues Room: Cairo

Chair: Tom Pace, US EPA

8:00 am Ammonia Emissions and Fertilizer Applications in California's

*Central Valley*, C. Kruater, D. Goorahoo, S. Klooster, California State University; C. Potter, S. Klooster, NASA Ames Research

Center

8:30 am Development of a Gridded Ammonia Emission Inventory for the San

Joaquin Valley of California, G. E. Mansell, ENVIRON

International Corporation; S. M. Roe, E. H. Pechan & Associates,

Inc.

9:00 am Development of a Methane Conversion Factor to Estimate Emissions

from Animal Waste Lagoons, J. Mangino, U.S. EPA; D. Bartram,

A. Brazy, Eastern Research Group, Inc.

9:30 am Non-Point Source Ammonia Emissions in Texas: Estimation

Methods, Pitfalls, Corrections, and Comparisons, S. P. Anderson, Texas Natural Resource Conservation Commission; R. L. Corsi,

J. Banks, K. Kinny, M. G. Sawar, University of Texas.

10: 00 am Break

10:30 am A Passive Monitoring Technique for Measuring Ammonia Fluxes for

Emission Factor Measurement From Fugitive Sources, D. R. Fitz, J. T. Pisano, University of California, Riverside; D. Goorahoo, C. F. Krauter, California State University; I. L. Malkina, University of

California, Riverside.

11:00 am Modeling and Processing Ammonia Emissions for PM Studies in the

Lower Fraser Valley, É. Giroux, H. Roth, D. Yin, W. Jiang,

National Research Council of CANADA.



## Thursday, April 18, 2002

Session 13	Air Toxics	Room:	Montreal/Vancouver		
		Chair:	Leonardo Ceron, US EPA		
			Lynn Barnes, So Carolina DHEC		
8:00 am	-	· ·	tional Toxics Inventory, A. Pope, D. Wilson, Eastern Research Group,		
8:30 am	Emissions fro	dy of the Contribut	ion of Diesel Particulate Matter uipment, L. Silva, Colorado l Environment.		
		da, L. Shelton, Envi	and Monitoring in Hillsborough ronmental Protection Commission		
	Inventories, L	NATA: What South Carolina Learned As Related to Emissions Inventories, L. S. Barnes, R. B. Thompson, South Carolina Department of Health and Environmental Control			
10:00 am	Break				
10:30 am	M. C. Pitrolo	•	ufacturing Processes, J. Mulholland, ury, C. W. Bayer, R. J. Hendry,		
11:00 am	~ "		d Variability for Censored Data  Zhao, North Carolina State		