



#### NARSTO Emission Inventory Workshop



## **Introductions & Thanks**

#### - Sponsors

- Program Committee
- Facilitators / Scribes
- Workshop Coordinators



#### NARSTO Emission Inventory Workshop



Purpose

Identify and prioritize new and innovative tools, techniques, and methods to prepare or evaluate emission inventories with improved quality, cost, and timeliness.



#### NARSTO Emission Inventory Workshop



## Schedule

Introduction

Tuesday

Wednesday

**Measurement Methods** 

- Source and Flux Measurement
- Mobile and Tunnel Studies
- Ground, Aircraft and Satellite Observations

#### Thursday

#### **Analysis and Application Methods**

- Air Quality and Receptor Modeling
- Emission Modeling
- Evaluation, Uncertainty Assessment and Data Management

**Report Out and Closing Remarks** 

**Friday** 



### NARSTO Emission Inventory Workshop Logistics



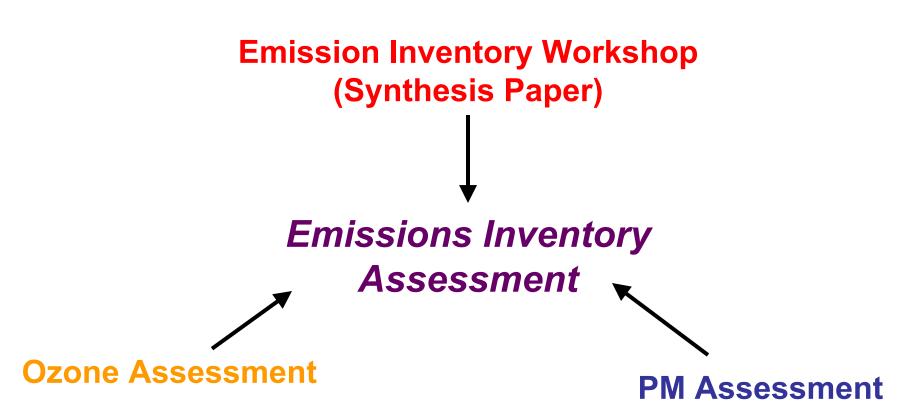
- Emergency Contact (512-471-5898)
- Messages (see message board in lobby)
- Lunch (on your own)
- Restaurants (list available)
- Audio/Visual (see Denzil Smith)
- Translators (large auditorium)
- Questions (contact registration desk)



NARSTO



What's next??





## NARSTO PM Assessment Recommendations cover six themes, including:

# *"Improve emission inventories and emission models"*



- Emission inventories are the foundation to costeffective control strategies. (Socrates, et al)
- Emission inventories are the Achilles Heel of air quality management activities. (Aristotle?)
- Will a NARSTO assessment help emission inventories deliver the quality product needed in a timely and affordable manner?



- Emission inventories will continue to be important for air quality management in the future.
  - Air Quality Forecasting
  - Field Studies
  - Risk Assessments
  - Control Strategy Development
  - Cap and Trade Programs
  - Economic Incentive Programs
  - New Source Review
  - Global Climate and International Transport
  - Accountability and Assessment

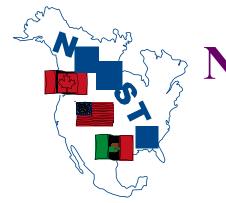


- Emission inventories can benefit from new and innovative tools and techniques
  - Satellites, aircraft and other remote sensing techniques
  - Measurement and monitoring instrumentation and protocols including continuous emission monitoring systems
  - Computer software and hardware including the Internet and GIS capabilities
  - Analysis and application methods including emission and air quality modeling



#### Emission inventories are improving (slowly)

- United States
  - **Consolidated Emission Reporting Rule**
  - National Emission Inventory (Toxics, PM, Hg)
  - Regional Planning Organizations
- Canada
  - New emission reporting rule; Confidentially addressed
  - VOC and PM Speciation addressed
- Mexico
  - National Emission Inventory being developed
  - New emission reporting rule; Confidentially addressed
- CEC
  - Potential for Integrated North American Emission Inventory



#### **Objectives:**

- To promote efficient and effective use of current inventories;
- To set the stage for improving future emission inventories; and
- To establish a roadmap for the future.



#### Audience:

- Decision maker for funding allocations
- Users of emission inventories
  - Policy analysts, policy planners, & policy implementers
  - Chemical-transport modelers
  - Field-campaign designers and practitioners
  - Planners and regulators implementing international agreements
  - Anyone who uses AP-42
- Developers of emission inventories
  - State and Provincial developers in US, Canada, & Mexico
  - Emission inventory/emission model tool developers
  - Instrument developers



#### Schedule:

- Kickoff 10/03 (following Workshop)
- Review Draft 9 months 06/04
- Peer Review 3 months 09/04
- Revisions 3 months 12/04
- Final Report 12/04



#### **Budget:**

- 6 People & \$200K
- Support from EPA, NOAA, DOE, DOT, USDA, NASA
- Support from States and MJO's
- Support from Industry
- Support from Canada & Mexico
- \* Commitment and involvement needed from stakeholders



Summary:

- **NARSTO Particulate Matter Assessment provides** significant recommendations for emission inventory enhancement.
- **NARSTO Emission Inventory Workshop will provide** focus for research and development activities.
- NARSTO Assessment will provide basis to impact emission inventory activities in the future.
- Support from stakeholders is needed to make this happen!
- For more information, reference http://www.cgenv.com/narsto.