http://www.cgenv.com/Narsto

NARSTO PM Assessment Set for March Release

ARSTO's PMAssessment, Particulate-Matter Science for Policy Makers, is currently in its final page-layout process, and we expect it to be available publicly during late March.

The Assessment contains a Preface, a short Executive Summary, and a more lengthy Synthesis of relevant findings, in addition to the 11-chapter main report and its appendices. The Preface, Executive Summary, and Synthesis will appear in hard-copy form in Spanish, English, and French, along with CD versions of the total document in English. Depending on response, NARSTO may opt to produce hard-copy forms of the full document at a later date.

In addition to the Executive Assembly meeting (see accompanying article, this page) the Assessment will be released during sessions at the March 31 - April 4 AAAR meeting in Pittsburgh. On Tuesday April 1, the AAAR meeting will feature a panel discussion of federal and state administrators, who will publicly discuss the Assessment's utility in helping to attain existing air-quality standards in Canada, the United States, and Mexico. Barry Stemshorn, Jeff Holmstead, and Adrian Fernandez, respectively, will represent the federal levels of these three countries. State-level interests will be respresented by Susan Wierman (MARAMA) and Lynn Terry (CARB).

Immediately following this panel discussion, NARSTO will host a media briefing on the Assessment, wherein a balance of representatives from the three North-American countries and from NARSTO's private-sector and government membership will be invited to give brief comments to the press.

We hope to distribute CD copies of the Assessment at the AAAR meeting, and to provide hard-copy/CD packages to attendees at the Executive Assembly meeting. Copies will become available for purchase through EPRI in the near future.

Additional information on the Pittsburgh AAAR meeting is available on www.aaar.org/PM2003.

Annual Executive Assembly Meeting Scheduled for March 24-25 in Washington

ARSTO will hold the annual combined meeting of its Executive Assembly and Executive Steering Committee (ESC) on March 25 and 26 at the White House Conference Center in Washington DC. The meeting will start at 1:00 on Tuesday, March 25 and conclude on the afternoon of the 26th.

Topics for this year's meeting include overviews of forthcoming NARSTO field efforts (see article on page 2), a preview of our October 2003 NARSTO Workshop on Innovative Methods for Emission-Inventory Development and Evaluation, and a final presentation on the Assessment. Copies of the Assessment will be distributed to attendees at the meeting.

The Annual Meeting provides NARSTO's principal forum for Executive Assembly guidance to the ESC and the Management Coordinators for the coming year's activities. In addition to more routine issues, the Assembly will consider the important question of whether NARSTO should proceed to perform a formal assessment on emission-inventory status, technology, and future directions. Should this decision be made, the October Workshop will serve as a launch point for the effort.

The White House Conference Center is located at 726 Jackson Place, NW. Please contact Jake Hales at the NARSTO Management Coordinator's office (jake@cgenv.com 509/546-9542) if you plan to attend.

"Forward-Looking" Emission Inventory Workshop Scheduled for Austin

Narsto will hold a Workshop on "Innovative Methods for Emission-Inventory Development and Evaluation" at the Pickle Conference Center at the University of Texas, Austin on October 14 - 17, 2003. As its title implies, this meeting will focus on development and verification techniques whose future application promises to significantly enhance the efficiency and quality of emission estimates.

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In this edition...

NARSTO PM Assessment NARSTO Executive Assembly Meeting Emission Inventory Workshop New NARSTO Studies Meeting Announcement Marvin L. Wesely The NARSTO News is published biannually for the purpose of communicating NARSTO activities and progress to members of the extended NARSTO community. Persons wishing to comment on the newsletter or submit material for publication are invited to do so by contacting either Diane Fleshman or Jake Hales in the NARSTO Management Coordinator's office, at the following address:

NARSTO Management Coordinator's Office 12507 Eagle Reach Pasco, WA 99301

Phone: 509/546-9542 e-mail: jake@cgenv.com

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NARSTO Welcomes Two New Field Studies to its Fold

n January the Executive Steering Committee formally accepted two new research efforts as official NARSTO components. The first of these, the Mexico City Metropolitan Area (MCMA) Field Campaign, is an element of the Integrated Program on Urban, Regional and Global Air Pollution, a collaborative research and education program initiated at MIT in 1999 to address air-pollution problems in megacities in a coordinated and interdisciplinary manner. The MCMA effort will center on an intensive five-week campaign, to be conducted in the spring of 2003. It will include participation of US and Mexican researchers, as well as scientists from European institutions. Persons wishing additional information on this effort should contact Luisa Molina at MIT (Itmolina@mit.edu).

The second effort is the first in a series of two experiments to investigate the chemical processing of biogenic organic compound emissions above forests. Named Chemistry of Terpene Emissions from Forests - Isoprene (CTEF I), this effort will deploy advanced fast-response instrumentation for direct flux measurement of isoprene emissions above selected forest canopies. Both surface and aircraft-based systems will be used, and will include special fast-response chemical instrumentation such as a proton-transfer mass spectrometer and Argonne National Laboratory's (ANL) new Fast Isoprene Sensor. The three-week field campaign is scheduled for August 2003. Persons interested in more information on CTEF I should contact Paul Doskey at ANL (pvdoskey@anl.gov).

NARSTO welcomes these two new efforts to our organization, and we look forward to our future interactions.



Emission Inventory Workshop, . . . , Continued

The motivation for this meeting is based on two basic premises. First, it is self-evident that pollution emissions must be characterized in a precise manner, in order to produce credible and useful air-pollution model results. Furthermore, air-pollution scientists and policy analysts generally agree that our current ability to quantify emissions is at an unsatisfactory state, which detracts seriously from model performance in most cases. Improvement of this situation is of paramount importance for developing future, more cost-effective pollution-management strategies.

Second, this importance is reflected by large amounts of financial, material, and human resources allocated to routine activities for emission measurement, projection, and modeling. These efforts are an invaluable component of our current state of understanding. Given this substantial effort and considering the results to date it is arguable, however, that the field has reached a point of diminishing returns, where additional investments into conventional activities will produce only limited returns of additional useful information.

These two opposing factors — high importance versus effective resource allocation — lead naturally to the suggestion that, perhaps, more innovative techniques can be developed which can, when combined with conventional efforts, enhance the quantitative assessment of emissions in a superior and more costeffective manner. This suggestion is the motivation for the Emission Inventory Workshop.

David Mobley of EPA, NARSTO's new Emissions Team Co-Chair, is serving as the central Workshop coordinator (see Announcement on page 3). We will have a registration page operational on the NARSTO Web site in the near future. In the interim, please feel free to contact David on (Mobley.David@epamail.epa.gov) for further information.



Announcement and Call for Papers

NARSTO Workshop on Innovative Methods for

Emission-Inventory Development and Evaluation

University of Texas, Austin; October 14-17, 2003

Emission inventories are the foundation for air-quality management activities and are essential for development of cost-effective emission control strategies. However, the quality of emission inventories often limits their effectiveness and utilization since the time and energy/cost required to develop emission inventories generally exceeds the resources available. The focus of this Workshop is to identify and prioritize new and innovative tools, techniques, and methods to prepare or evaluate emission inventories with improved quality, cost, and timeliness.

The Workshop will focus on new and innovative methodologies related to the development of emission inventories and emission factors, the evaluation and assessment of the adequacy and quality of emission inventories, the application of emission inventories in air-quality management activities, and the development of real-time emission inventories for field studies and air-quality forecasting. Although most emission-inventory methodologies are applicable to characterization of multiple species, the emphasis of the Workshop will be on criteria air pollutants and their precursors. Priority will be placed on current controversial issues, including but not limited to, emissions of multicomponent VOCs, ammonia, and primary organic particulate matter as well as transient and fugitive releases. In keeping with the NARSTO charter, emission-inventory issues related to the United States, Canada, and Mexico will be addressed. Methodologies that can advance current approaches for point, area, mobile, and biogenic sources in the 3-5 year as well as the 10-20 year time frame are of interest.

Abstracts are solicited on new and innovative methodologies in the following topic areas along with any other methodology that can advance emission-inventory development, evaluation, or application:

Measurement Methods

Innovative Source and Flux Measurements
New Developments in Continuous Emission Monitoring
Emission-Relevant Ambient Air Monitoring and Remote Sensing
Aircraft Measurements (in situ and Remote Sensing)
Satellite Remote Sensing
Tunnel Studies
Tracer Studies

Analysis and Application Methods

Real-time Inventories for Field Studies and Forecasting
Field-Study Design for Acquisition of Emission-Related Information
Emission and Air-Quality Modeling
Inverse Modeling
Receptor Modeling
Data Base Management, Documentation, and Auditing
Uncertainty Assessment

Following an overview and background session, the Workshop will be organized in breakout sessions. Breakout sessions will consist of presentations on new and innovative techniques related to a topic area followed by discussion of the participants to identify and prioritize techniques which can make an impact in the emission inventory community and are strong candidates for additional research and development funding. The product of the Workshop will be a synthesis paper with findings and recommendations.

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Announcement, . . . Continued

If you would like to make a presentation on one of the session topics or desire to attend the Workshop, please contact David Mobley of the US Environmental Protection Agency at mobley.david@epa.gov. Abstracts to be considered for presentation should be submitted by 04/15/03 via e-mail and should be ~250 words. Please indicate which of the above topic areas is most applicable. Presentations in PowerPoint format will be expected prior to the Workshop. A formal paper will not be required. The Workshop will be held at the University of Texas Pickle Research Center. A registration fee of \$50 will be required to cover expenses. The host hotel will be the AmeriSuites in Austin, TX (512-231-9437). A Workshop rate of \$80/night is available for attendees. There will be a shuttle between the hotel and the meeting site. To facilitate travel arrangements, the Workshop will span the period from noon on Tuesday until noon on Friday.

Marvin L. Wesely 1944 - 2003

We are sad to note the passing of Marv Wesely, who died on January 20 following complications from heart surgery. A Senior Meteorologist at Argonne National Laboratory, Marv served as scientific coordinator for DOE's Atmospheric Chemistry Program. He was a trusted colleague, well known for his scientific integrity, his evenhanded management skills, and his ability to place scientific cooperation above institutional boundaries. He will be sorely missed.

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