

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



Monday Afternoon, February 26, 2007



## PRE-SUMMIT WORKSHOP/TRAINING BEGINS

MONDAY AFTERNOON, FEBRUARY 26, 2007

12:00 pm – 5:00 pm		Registration	
1:00 pm – 5:00 pm	Sheraton Buckhead – Atrium Level (Above Parking Deck)	<b>Region 4 Air Toxics Monitoring Program (R4 State/local/tribal Air Agencies Only)</b>  <b>BUCKEAD ROOM</b>  <i>(Chairs – Tom Stringfellow/Pinellas Co. and Van Shrieves/EPA)</i>	<b>Introduction to Air Toxics Risk Assessment (Open to All)</b>  <b>HERITAGE C ROOM</b>  <i>(Trainers – Solomon Pollard/EPA and Ken Mitchell/EPA)</i>
1:00 pm – 2:40 pm		<b>Welcome and Introduction</b>  <b>Monitoring Technology – Tim Slagle/EPA R4 SESD</b> <ul style="list-style-type: none"> <li>Monitoring Air Toxics Compounds</li> <li>TO Methods</li> <li>Innovative Technologies</li> </ul> <b>Quality Assurance Overview– Tim Slagle/EPA R4 SESD</b> <ul style="list-style-type: none"> <li>Data Quality, DQOs, QAPPS, and SOPs</li> <li>Proficiency Evaluations</li> <li>Field and Lab Audits</li> </ul>	<b>Welcome and Introduction</b>  <b>Background of Risk Assessment</b> <ul style="list-style-type: none"> <li>Learning Objectives</li> <li>Legislation and Resources</li> <li>Air Toxics Risk Assessment Overview</li> </ul> <b>Planning and Scoping an Assessment</b> <ul style="list-style-type: none"> <li>Problem Formulation</li> <li>Conceptual Model and Deliverables</li> </ul> <b>Exposure Assessment Part I</b> <ul style="list-style-type: none"> <li>Source Identification</li> <li>Emissions Inventories</li> </ul>
2:40 pm – 3:00 pm	<b>Afternoon Break</b>		
3:00 pm – 5:00 pm		<b>Air Toxics Monitoring Program</b> <ul style="list-style-type: none"> <li>Overview of Regional Program – Jackie Lewis and Donnette Sturdivant /EPA R4</li> </ul> <b>Air Toxics Monitoring Programs</b> <ul style="list-style-type: none"> <li>Georgia Air Toxics Program – Susan Zimmer-Dauphinee /Georgia DNR</li> <li>Pinellas County, Fl National Air Toxics Trends Station (NATTS) Program – Tom Stringfellow /Pinellas County DEM</li> <li>Hillsborough County, Fl Community Assessment Project – Tom Tamanini/Hillsborough County EPC</li> <li>Deposition Monitoring – Artra Cooper /EPA R4</li> </ul> <b>Emergency Response Monitoring</b> <ul style="list-style-type: none"> <li>Greg Noah – EPA R4 SESD</li> </ul>	<b>Exposure Assessment Part II</b> <ul style="list-style-type: none"> <li>Fate/transport of Chemicals</li> <li>Monitoring versus Dispersion Modeling</li> <li>Exposure Assessment</li> </ul> <b>Toxicity Assessment</b> <ul style="list-style-type: none"> <li>Hazard Identification</li> <li>Dose/response Assessment</li> </ul> <b>Risk Characterization</b> <ul style="list-style-type: none"> <li>Cancer Risk</li> <li>Non-Cancer Hazard</li> <li>Uncertainty Assessment</li> <li>Presenting the Results</li> </ul> <b>Risk Management</b>  <b>Risk Communication</b>
Evening	<b>Dinner on Your Own</b>		

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



Tuesday Morning, February 26, 2007



## PRE-SUMMIT WORKSHOP/TRAINING CONTINUES

TUESDAY MORNING, FEBRUARY 27, 2007

8:00 am – 12:00 pm	Registration Continues	
7:30 am – 9:00 am	Continental Breakfast	
8:00 am – 12:00 pm	<p><b>Region 4 Air Toxics Monitoring Program CONTINUED (R4 State/local/tribal Air Agencies Only)</b></p> <p><b>BUCKHEAD ROOM</b></p> <p><i>(Chairs – Tom Stringfellow/Pinellas Co. and Van Shrieves/EPA)</i></p>	<p><b>Air Toxics 101 (Open to All)</b></p> <p><b>HERITAGE C ROOM</b></p> <p><i>(Trainers – Region 4 Staff; Joydeb Majumder Training Coordinator)</i></p>
8:00 am – 10:00 am	<p><b>Overview of Sonoma’s Assessment of Region 4 Air Toxics Monitoring Data</b></p> <p>Mike McCarthy and Hilary Hafner Sonoma Technology, Inc.</p>	<p><b>A Brief History Of Air Toxics In The Clean Air Act (CAA) – How Did We Get To Where We Are Today?</b></p> <p><b>CAA Section 112 – How Is It Structured And What Does It Require (e.g., MACT Standards)?</b></p> <p><b>What Are The Requirements For Mobile Source Air Toxics Under The CAA?</b></p> <p><b>What Is Being Done On Indoor Air Toxics?</b></p>
10:00 am – 10:20 am	Morning Break	
10:20 am – 12:00 pm	<p><b>Overview of Sonoma’s Assessment of Region 4 Air Toxics Monitoring Data (Continued)</b></p> <ul style="list-style-type: none"> <li>• Data Gaps – Where do we go from here?</li> <li>• Future Data Needs of the Scientific Community</li> </ul>	<p><b>Tools For Assessing Air Toxics Issues: Risk Assessment, Monitoring, Modeling, And Emissions Inventories</b></p> <p><b>What Is The Relationship Between EPA And The States On Air Toxics Issues?</b></p> <p><b>Who Else (Outside Of Air Agencies) Works On Air Toxics And How Do They Do Their Work?</b></p>
12:00 pm – 1:00 pm	Lunch on Your Own	

## PRE-SUMMIT WORKSHOP/TRAINING CONCLUDES

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



**Tuesday Afternoon, February 27, 2007  
(continued)**

**Metro 4, Inc. – SESARM**  
The Southeastern Local Air Pollution Control Agencies      Southeastern States Air Resources Managers, Inc.

## AIR TOXICS SUMMIT BEGINS

**TUESDAY AFTERNOON, FEBRUARY 27, 2007**

12:00 pm – 5:00 pm	<b>Registration</b>	
1:00 pm – 1:30 pm	<b>Sheraton Buckhead – Terrace Ballroom</b>	<p style="text-align: center;"><b>Welcome and Introductions</b>  <b>Beverly Banister/EPA Region 4</b>  <b>Keynote Address: Jimmy Palmer, EPA Regional Administrator:</b>  <b>“Improving on a Good Idea”</b></p> <p style="text-align: center;"><i>(Chairs – Karen Hays/GA EPD + Ken Mitchell/EPA Region 4)</i></p>
1:30 pm - 2:30 pm		<p><b>Overview of Air Toxics Chemical, Sources, and Programs</b></p> <ul style="list-style-type: none"> <li>• Overview of air toxics chemicals and sources - Karen Hays/Georgia EPD</li> <li>• Overview of air toxics programs, offices and people - Ken Mitchell/EPA R4</li> <li>• The EPA stationary source program for air toxics – Ken Hustvedt/OAQPS</li> <li>• The EPA community-based air toxics program – Yvonne Johnson/OAQPS</li> </ul>
2:30 pm – 2:50 pm		<b>Afternoon Break</b>
2:50 pm – 5:30 pm		<p><b>Overview of Air Toxics Chemical, Sources, and Programs – Continued</b></p> <ul style="list-style-type: none"> <li>• Technical support for air toxics programs <ul style="list-style-type: none"> <li>○ Monitoring, modeling, and emissions inventories – Chet Wayland/OAQPS</li> <li>○ Risk assessment - Dave Guinnup/OAQPS</li> </ul> </li> <li>• The EPA mobile source air toxics (MSAT) program - Kathryn Sargeant/OTAQ</li> <li>• The EPA indoor air program and air toxics –Jeremy Ames/ORIA</li> <li>• Public health agencies air toxics efforts <ul style="list-style-type: none"> <li>○ Federal efforts (NCEH/ATSDR) – Ken Orloff and Bob Safay/ATSDR</li> <li>○ Region 4 State and local agencies – Prakesh Patel/Florida DOH</li> </ul> </li> <li>• How does this all translate down to the EPA Region 4 office? - Doug Neeley/EPA R4</li> <li>• How does this all translate down to Region 4 State air toxics programs - John Glunn/FL DEP</li> </ul> <p><b>Pulling it all together in theory – EPA’s National <i>Integrated Air Toxics Strategy</i> –</b>  Yvonne Johnson/OAQPS</p> <p><b>Open Discussion</b></p>
<b>EVENING</b>		<b>Icebreaker and Dinner on Your Own</b>

## ***Invitation to Attendees***

Please join us in the Hotel’s restaurant from 5:30 to 6:30 pm to mingle with your colleagues and meet some new friends!  
(Cash Bar)

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



Wednesday Morning, February 28, 2007



## AIR TOXICS SUMMIT CONTINUES

WEDNESDAY MORNING, FEBRUARY 28, 2007

7:30 am – noon	<b>Registration Continues</b>	
7:30 am – 9:00 am	<b>Continental Breakfast</b>	
8:00 am – 9:40 am	<b>Sheraton Buckhead – Terrace Ballroom</b>	<b>The Stationary Source Program</b> ( <i>Chairs – Errol Reksten/Chattanooga-Hamilton Co. APCB + Lee Page/EPA R4</i> ) <ul style="list-style-type: none"> <li>• Updates on hot topics (e.g., residual risk, HAP listing/delistings) – Steve Fruh/OAQPS</li> <li>• Impact of the Area Source Program, a Local Perspective – Corey Masuca/JCDH</li> <li>• Area-wide Area Source Approach – Yvonne Johnson/OAQPS</li> <li>• Open discussion/Q and A</li> </ul>
9:40am – 10:40am		<b>The Mobile Source Program</b> ( <i>Chair – Scott Davis/EPA</i> ) <ul style="list-style-type: none"> <li>• Mobile source air toxics (MSATs) – Kathryn Sargeant/OTAQ</li> <li>• Near roadway exposure – Rich Baldauf/OAQPS</li> <li>• Diesel emissions and the SEDC – Dale Aspy and Scott Davis, EPA R4</li> <li>• Biodiesel production and emissions benefits – Dr. Dan Geller, University of Georgia</li> <li>• Open discussion/Q and A</li> </ul>
10:40am – 11:00am		<b>Morning Break</b>
11:00 am – 12:00 pm		<b>The Community Based Program</b> <i>(Chairs – Lawson Oti/Florida DEP + Paul Wagner/EPA)</i> <ul style="list-style-type: none"> <li>• Toxics reduction in a Greenville, SC, neighborhood – Diane Minasian/ SC DHEC</li> <li>• The Louisville Air Toxics Project– Art Williams/Louisville Metro APCD</li> <li>• Open discussion/Q and A</li> </ul>
12:00 pm – 1:00 pm		<b>Lunch on Your Own</b> <b>(Poster Session Begins – Camellia Room)</b>

## Note to Attendees

**Please join us in the Camellia Room on the Terrace Level starting at noon and running through 6:30 to view posters on a number of interesting air toxics projects in the Southeast. We'll also have a raffle drawing during the 5:30-6:30 hour, so make sure you remember to bring your raffle tickets (in your conference package).**

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



## Wednesday Afternoon, February 28, 2007 (continued)

**Metro 4, Inc. - SESARM**  
The Southeastern Local Air Pollution Control Agencies      Southeastern States Air Resources Managers, Inc.

### AIR TOXICS SUMMIT CONTINUES

WEDNESDAY AFTERNOON, FEBRUARY 28, 2007 (cont.)

1:00 pm - 2:00 pm	Sheraton Buckhead – Terrace Ballroom	<b>Region 4 Public Health Programs</b> <i>(Chairs – P.S. Patel/FL DOH + Reg Jordan/NCDENR)</i> <ul style="list-style-type: none"> <li>Public Health Investigation at a Hazardous Waste Site in Florida – Prakash Patel/Florida DOH</li> <li>Exposure Investigations: Criteria for Acceptance – Greg Zarus/ATSDR</li> <li>CDC's National Environmental Public Health Tracking Program and Air Toxics – Jeff Shire/NCEH</li> <li>Open discussion/Q and A</li> </ul>	<b>Poster Session Continues in the Camellia Room</b>  <i>Chairs – Ray Gregory/EPA R4 and Diane Minasian/SC DHEC)</i>	
2:00 pm – 3:00 pm		<b>The Indoor Air Program</b> <i>(Chairs – John Glunn/FL DEP + Henry Slack/EPA)</i> <ul style="list-style-type: none"> <li>Indoor Air Toxics: Sources and Programs to Reduce Exposures – Jeremy Ames/ORIA</li> <li>Indoor Air Quality: EPA Region 4 Efforts – Henry Slack/EPA R4</li> <li>Florida's Green Tourism Campaign – John Glunn/Florida DEP</li> <li>Open discussion/Q and A</li> </ul>		
3:00 pm – 3:20 pm		<b>Afternoon Break</b>		
3:20 pm – 4:30 pm		<b>Emerging Issues</b> <i>(Chairs – Haidar Alrawi/TN DEC + John Ackermann/EPA)</i> <ul style="list-style-type: none"> <li>Generic summary of Sonoma R4 monitoring analysis results - Mike McCarthy/Sonoma Technology, Inc.</li> <li>Persistent, Bioaccumulative Toxics issues/John Ackermann – EPA R4</li> <li>Air quality during disaster recovery efforts - Greg Noah/EPA R4</li> <li>Open discussion/Q and A</li> </ul>		
4:30 pm – 5:30 pm		<b>Tools, Training, and Resources</b> <i>(Chairs – Robert Soptei/Pinellas County + Solomon Pollard/EPA)</i> <ul style="list-style-type: none"> <li>NATA and RSEI – Dave Guinnup/OAQPS</li> <li>New Guidance for Air Toxics – Robert Soptei/Pinellas County</li> <li>Open discussion/Q and A</li> </ul>		
5:30 pm – 6:30 pm	<b>Poster Session Continues (Raffle Drawing)</b>			
7:00 pm	<b>Dinner on Your Own</b>			

# EPA Region 4 Air Toxics Summit Atlanta, Georgia

Thursday Morning, March 1, 2007



**Metro 4, Inc. – SESARM**  
The Southeastern Local Air Pollution Control Agencies      Southeastern States Air Resources Managers, Inc.

## AIR TOXICS SUMMIT CONTINUES

THURSDAY MORNING, MARCH 1, 2007

7:30 am – 9:00 am	Continental Breakfast	
8:30 am – 9:00 pm	Sheraton Buckhead – Terrace Ballroom	<p><b>Breakout Sessions</b>  <i>(Chair –Metro4/SESARM + Ken Mitchell/EPA)</i></p> <p><b>EVERYONE CONVENE IN THE TERRACE BALLROOM AT 8:30 AM – Get instructions for breakouts. Purpose is to solicit ideas on issues such as:</b></p> <ul style="list-style-type: none"> <li>• What's going well</li> <li>• How we can enhance those successes</li> <li>• What could be better and how do we get there</li> <li>• How do we communicate better with one another</li> <li>• Etc.</li> </ul> <p>Each group will be given a list of specific issues and questions to explore and assigned a breakout room. The four breakout facilitators will report out during the ensuing panel discussion.</p>
9:00 am – 10:30 am		<p>Check the color of the dot on your name badge and proceed to the appropriate breakout room:</p> <ul style="list-style-type: none"> <li>• Breakout Session 1 (<b>RED DOT</b> – Stay in the Terrace Ballroom)</li> <li>• Breakout Session 2 (<b>GREEN DOT</b> – Dogwood Room)</li> <li>• Breakout Session 3 (<b>BLUE DOT</b> – Magnolia Room)</li> <li>• Breakout Session 4 (<b>YELLOW DOT</b> – Camellia Room)</li> </ul>
10:30 am – 11:00 am	<b>Morning Break</b>	
11:00 am – 11:45 am	<b>Panel discussion followed by open discussion</b>	
11:45 am – 12:00 pm	<b>Concluding Remarks, Air Toxics Summit ends</b>	

**Air Toxics Summit Concludes**  
**(Please see the next page for post-summit training courses)**

# EPA Region 4 Air Toxics Summit Atlanta, Georgia



Thursday Afternoon, March 1, 2007  
(continued)

**Metro 4, Inc.** – **SESARM**  
The Southeastern Local Air Pollution Control Agencies      Southeastern States Air Resource Managers, Inc.

**THURSDAY AFTERNOON, MARCH 1, 2007 (CHAIR – EPA REGION 4)**

<p>1:30 pm - 5:30 pm</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sheraton Buckhead – Atrium Level (Above Parking Deck)</p>	<p><b>Dosimetric Adjustments and Benchmark Dose Modeling - (PART 1)</b>  <b>Trainer – Dr. Jay Zhou, Toxicology Excellence for Risk Assessment (TERA)</b>  <b>Air Toxics Course 2 (Part 1)</b></p> <p><b>LENOX ROOM</b></p> <p>This course is designed to provide basic training in dosimetric adjustments which are involved in dose-response assessment. The participants will learn the significance of conducting dosimetric adjustment, and how to conduct it. The topics will include interspecies oral dose adjustment for noncancer and cancer assessment, cancer unit risk or slope factor conversion, inhalation exposure concentration unit conversion, human equivalent concentration (HEC) calculation for particle and vapor exposure.</p> <p><b>Trainer:</b> Dr. Jay Zhao, Toxicology Excellence for Risk Assessment (TERA). Dr. Zhao obtained a medical degree and M.P.H. from Shanghai Medical University, and a Ph.D. in Toxicology from University of Cincinnati. He has worked in areas of mutation research, biomarkers for exposure to environmental pollutants, tumor epidemiology, and chemical risk assessment for more than 15 years. He specializes in dose-response analysis and human health risk assessment, and has extensive experience in using BMD technique in risk assessment, and providing BMD training to risk assessors.</p> <p><b>NOTE: Attendees will need to bring a laptop computer for this course (an internet/wireless card will NOT be needed). Computer requirements and software were sent to attendees prior to the course.</b></p>
<p>1:30 pm - 5:30 pm</p>		<p><b>Area Source Discussion</b>  <b>Air Toxics Course 3-4 (Part 1)</b></p> <p><b>BUCKHEAD ROOM</b></p> <p>EPA is working to develop and implement, in conjunction with our State, local and tribal partners, a program for addressing area sources, many of which are, as yet, unregulated. This time slot will allow for stakeholders to spend quality time having an in-depth discussion with OAQPS regarding the developing area source program. Topics for discussion include:</p> <ul style="list-style-type: none"> <li>• What is the area source program?</li> <li>• Why are area sources an issue?</li> <li>• What has been done, to date, regarding area sources?</li> <li>• What are the potential approaches to addressing area sources in the future?</li> <li>• What are the impediments and possible solutions to a successful area source program at the Federal, state, local, and tribal level?</li> </ul> <p>Leading this discussion will be Yvonne Johnson from the Community and Tribal Programs Group, and Steve Fruh from the Sector Policy and Programs Division in the EPA Office of Air Quality Planning and Standards. These groups are responsible for developing the national strategy and regulations for the Federal area source program.</p>

**(Please see the next page for additional post-summit training courses)**

# EPA Region 4 Air Toxics Summit Atlanta, Georgia

Friday Morning, March 2, 2007



**Metro 4, Inc. – SESARM**  
The Southeastern Local Air Pollution Control Agencies      Southeastern States Air Resource Managers, Inc.

**FRIDAY MORNING, MARCH 2, 2007 (CHAIR – EPA REGION 4)**

<p>8:00 am - 12:00 pm</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sheraton Buckhead – Atrium Level (Above Parking Deck)</p>	<p><b>Dosimetric Adjustments and Benchmark Dose (BMD) Modeling - Continued (PART 2)</b>  <b>Trainer – Dr. Jay Zhou, Toxicology Excellence for Risk Assessment (TERA)</b>  <b>Air Toxics Course 2 (Part 2)</b></p> <p><b>LENOX ROOM</b></p> <p>The training course will be designed to give an overview of benchmark modeling software for cancer and noncancer dose-response assessment, and provide hands-on experience in using the EPA BMD software. Through this training course, participants will learn the basic concept of BMD approach, appropriate application of BMD modeling in cancer and noncancer dose-response assessment, model and parameter selections during BMD modeling, data selection and model run, and to select an appropriate BMD point of departure for use in a human health risk assessment. This workshop will cover all the BMD models available in current version of EPA's BMD software including continuous models, dichotomous models, and nested models.</p> <p><b>Trainer:</b> Dr. Jay Zhao, Toxicology Excellence for Risk Assessment (TERA). Dr. Zhao obtained a medical degree and M.P.H. from Shanghai Medical University, and a Ph.D. in Toxicology from University of Cincinnati. He has worked in areas of mutation research, biomarkers for exposure to environmental pollutants, tumor epidemiology, and chemical risk assessment for more than 15 years. He specializes in dose-response analysis and human health risk assessment, and has extensive experience in using BMD technique in risk assessment, and providing BMD training to risk assessors.</p> <p><b>NOTE: Attendees will need to bring a laptop computer for this course (an internet/wireless card will NOT be needed). Computer requirements and software were sent to attendees prior to the course.</b></p>
<p>9:00 am - 12:00 pm</p>		<p><b>Mercury School</b>  <b>Air Toxics Course 3-4 (Part 2)</b></p> <p><b>BUCKHEAD ROOM</b></p> <p>Mercury is a naturally occurring element that can be found throughout the environment. Human activities, such as burning coal and using mercury to manufacture certain products, have increased the amount of mercury in many parts of the environment including the atmosphere, lakes and streams. People and animals are exposed to mercury by eating organisms that live in places where microbes have converted some of the natural and human mercury to a more toxic form, methylmercury.</p> <p>In order to help stakeholders better understand this important chemical and its potential impacts, this course will overview the basic science of mercury, including the following questions:</p> <ul style="list-style-type: none"> <li>• What is mercury (Hg) and how does it get into human body?</li> <li>• What types/forms of Hg exist?</li> <li>• What are the sources of Hg in the environment?</li> </ul> <p><b>Trainer:</b> Bill Maxwell, Energy Strategies Group, EPA Office of Air Quality Planning and Standards. Bill is a nationally recognized expert on mercury issues. In particular, he was one of the lead developers of the Agency's Clean Air Mercury Rule (CAMR).</p>