

# SCOS97-NARSTO



## SCOS97-NARSTO DATA ANALYSIS CONFERENCE

February 13 to 15, 2001

**South Coast Air Quality Management District**

21865 East Copley Dr.

Diamond Bar, CA 91765-4182

**Sponsored by:**

**Cal/EPA Air Resources Board & South Coast Air Quality Management District**

### Draft Agenda

**February 13, 2001- Day 1- 9:00 am to 5:00 pm**

### Ambient Data

**8:55 to 9:00**

**Executive Officer of South Coast Air Quality Management District, Dr. Barry R. Wallerstein**

Welcome

**9:00 to 9:15**

**Chairman of Air Resources Board, Dr. Alan C. Lloyd**

Welcome & Opening Remarks

### Day 1 Sessions I & II-III Run Concurrently

**9:15 am to 3:10 pm**

**Session I: Hydrocarbons Data Analysis & Model Network-Chair Eileen McCauley**

**9:15 Eric Fujita (DRI)**

QA Issues

**9:40 Barbara Zelinska (DRI)**

Boundary VOC Conditions during SCOS97-NARSTO

**10:05 Eric Fujita (DRI)**

Source Attributions of Ambient Hydrocarbons in the South Coast Air Basin

**10:30 to 10:40**

**Refreshment Break**

**10:40 Robert Keislar (DRI)**

Source Apportionment of Hydrocarbon Samples from Barstow

**11:05 Janet Arey (UCR)**

Biogenic Volatile Organic Compounds at Azusa & Elevated Sites: Indications of Nighttime Nitrate Radical Chemistry

**11:30 Suzanne Paulson (UCLA)**

Comparing TNMOC and Speciated VOC's

**11:55 to 1:00**

**Lunch Break**

# SCOS97-NARSTO



## Session I Continues

- 1:00 George A. Klouda (NIST)** Biogenic Contributions to Ambient VOC in Azusa, CA Measured by Radiocarbon (<sup>14</sup>C)
- 1:25 Hillary Main (STI)** PAMS Analysis for Southern California: Characteristics of Hydrocarbon Data collected in The South Coast Air Quality Management District from 1994 to 1997
- 1:50 Don Hammond (ARB)** California PAMS Network 2000
- 2:15 to 2:25 Refreshment Break**
- 2:25 Eileen McCauley** **Moderator-Roundtable** on Hydrocarbon Data Analysis & Ideal Network (45M)

**3:10 Session I Concludes**

## Day 1 Sessions II-III Run in Series

- 9:15 am to 11:55 pm Session II: Nitrogen Species Data Analysis & Ideal Network – Chair Daniel Grosjean**
- 9:15 Dennis Fitz (UCR)** NOY Instruments Measurements & QA Issues
- 9:35 Daniel Grosjean (DGA)** Ambient Levels of PAN & PPN during SCOS97 -NARSTO & Long-Term Trends in Ambient PAN in Southern California
- 9:55 Daniel Grosjean (DGA)** A modeling study of VOC precursors of PAN
- 10:15 Robert O'Brien (PSU)** Free Radical Data from FAGE
- 10:30 to 10:40 Refreshment Break**
- 10:40 Luis Woodhouse (ARB)** The Thermal Decomposition of PAN
- 11:05 Akula Venkatram (UCR)** **Moderator-Roundtable** on Nitrogen Species Analysis & Ideal Network
- 11:55 Session II Concludes**
- 11:55 to 1:00 Lunch Break**

# SCOS97-NARSTO



**1:00 to 4:20**

**Session III: Upper Air & Other Meteorology Data  
Analysis-Chair Bob Weber**

**1:00 Jim Pederson (ARB)**

Characterization of Upper Air Meteorological  
Conditions on IOP Days

**1:25 Clinton MacDonald (STI)**

STI Analysis of 1997 Upper Air Met Data in SoCAB

**1:50 Bob Weber (NOAA)**

Interpreting Data from a RWP/RASS Network

**2:15 to 2:25**

**Refreshment Break for ten minutes**

**2:25 Bob Baxter (Parsons)**

Quality Assurance of Upper Air Met Data

**2:50 Robert Bornstein (SJSU)**

The 4-7 August SCOS'97 Ozone Episode:  
Comparison between Observations and MM5  
Simulations

**3:15 to 3:20**

**Refreshment Break**

**3:20 Clinton MacDonald (STI)**

**Moderator-Roundtable** on Use of Aloft  
Meteorological Data-Lidar, Radar Wind Profiler  
Radio Acoustic Sounding Networks, Sodar  
Networks (60M)

**4:20**

**Session III Concludes**

**4:25 to 5:00**

**General Roundtable on Lessons Learned from  
SCOS97-NARSTO Ambient Monitoring**

**5:00**

**Day 1 Concludes**

# SCOS97-NARSTO



## SCOS97-NARSTO DATA ANALYSIS CONFERENCE

February 14, 2001- Day 2 - 8:00 am to 6:00 pm  
Emission Inventory & Modeling

### Day 2 Sessions Run in Series

8:00 to 10:30	<b>Session I: Emission Inventory-Chair Randy Pasek</b>
8:00 Dale Shimp (ARB)	Developing Emission Inventories for Regional Air Quality Studies
8:15 Michael Benjamin (ARB)	Biogenic Emissions Inventory through Geographic Information Systems (BEIGIS)
8:35 Arthur Collins (ARB)	Airplane Emissions in 3-D
8:55 Mena Shah (ARB)	Final SCOS97-NARSTO Emission Inventory
9:15 Lyle Chinkin (STI)	SCOS97-NARSTO Development of Improved Area Source Spatial Surrogates
9:35 Dale Shimp (ARB)	<b>Moderator-Roundtable</b> on Emission Inventory 3-D Approaches (35M)
10:10 to 10:25	<b>Refreshment Break</b>
10:25 to 1:55	<b>Session II: Emission Inventory-Mobile Sources-Chair Mark Carlock</b>
10:25 Debbie Niemeier (UCD)	Incorporating Spatial Variability: The Effects on Running Stabilized Mobile Emissions Inventories
10:50 Ed Yotter (ARB)	Innovations in Mobile Sources
11:15 Mark Carlock	EMFAC 2000
11:35 Eric Fujita (DRI)	“Why is Ozone Higher on Weekends in the South Coast Air Basin: a 20-Year Perspective”
11:55 Leon Dolislager	Weekend Effect Hypotheses
12:10 to 1:10	<b>Lunch Break</b>
1:10	<b>Session II Continues</b>
1:10 Mark Carlock (ARB)	<b>Moderator-Roundtable</b> on GIS-based Emission Inventory Approaches (35M)
1:45 to 1:55	<b>Refreshment Break</b>
1:55	<b>Session II Concludes</b>

# SCOS97-NARSTO



## 1:55 to 3:55 Session III: Radiation Data Analysis & Observation Based Modeling - Chair Charlie Blanchard

- 1:55 Rob Harley (UCB) A Fuel-Based Assessment of Motor Vehicle Emissions during SCOS97-NARSTO
- 2:20 Charlie Blanchard (Envair) The Use of Observation-Based Methods for Corroborating Photochemical Modeling
- 2:45 Laurent Vuilleumier(LBL) Measurements and Modeling of Solar Ultraviolet Radiation and Photolysis Rates during SCOS97-NARSTO
- 3:10 James Pederson (ARB) Role of Radiation Data in Future Studies
- 3:25 James Pederson (ARB) **Moderator-Roundtable** on Radiation Component of Modeling Designs (30M)
- 3:55 **Session III Concludes**
- 3:55 to 4:05 **Refreshment Break**
- 4:05 to 6:00 **Session IV: Air Quality Simulation – Chair Neil Wheeler**
- 4:05 Neil Wheeler (STI) Community Modeling and Analysis System (CMAS) – Application to SCOS97-NARSTO
- 4:30 Gail Tonnesen (UCR) Evaluation of Radical Budgets & the Fate of NO<sub>x</sub> in SCOS97-NARSTO Model Simulations
- 4:55 Neil Wheeler (STI) **Moderator-Photochemical Modeling Forum** (65M)
- 6:00 **Day 2 Concludes**

# SCOS97-NARSTO



## SCOS97-NARSTO DATA ANALYSIS CONFERENCE

February 15, 2001- Day 3 - 8:00 am to 4:20 pm  
Aerosols & Air Quality Aloft

### Day 3 Sessions Run in Series

<b>8:00 to 10:45</b>	<b>Session I: Aerosol I-Emissions &amp; Ambient Data- Chair Glen Cass</b>
<b>8:00 Lara Gertler (UCR)</b>	Evolution of Atmospheric Aerosols Crossing the Los Angeles Basin during the SCOS97-NARSTO Experiment
<b>8:25 Jonathan Allen (ASU)</b>	Emissions of Size-Segregated Aerosols from On- Road Vehicles in the Caldecott Tunnel
<b>8:50 Kim Prather (UCR)</b>	Single Particle Mass Spectrometry
<b>9:15 to 9:25</b>	<b>Refreshment Break</b>
<b>9:25 Glen Cass (GIT)</b>	Particulate Matter Emissions in the South Coast Air Basin
<b>9:50 Tony Van Curen (ARB)</b>	Long Range Transport of Aerosols
<b>10:15 Bill Oslund (ARB-Ret.)</b>	<b>Moderator-Roundtable</b> on Emissions & Ideal Aerosol Monitoring Network (PT:45M)
<b>11:00 to 11:10</b>	<b>Refreshment Break</b>
<b>11:10 to 3:00</b>	<b>Session II: Aerosol II-Secondary Organic Aerosol Formation-Chair John Seinfeld</b>
<b>11:10 John Seinfeld (Cal Tech)</b>	Secondary Organic Aerosols Formation Simulation
<b>11:35 John Seinfeld (Cal Tech)</b>	Airplane Measurements of Aerosols Aloft
<b>12:00 to 1:00</b>	<b>Lunch Break</b>
<b>1:00</b>	<b>Session II Continues</b>
<b>1:00 David Cocker (UCR)</b>	Chamber Investigations of Secondary Organic Aerosol

# SCOS97-NARSTO



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|--------------|----------------------------------|--|
| 1:25         | Janet Arey (UCR)                 | Gas-Phase Atmospheric Chemistry of Biogenic VOCs   |
| 1:50         | Paul Ziemann (UCR)               | Aerosol Formation from Biogenic VOCs   |
| 2:15 to 2:25 |                                  | <b>Refreshment Break</b>   |
| 2:25         | Bill Carter (UCR)                | <b>Moderator-Roundtable</b> on Required Measurements to Validate Simulation & Chamber Studies (PT:35M) |
| 3:00 to 4:20 |                                  | <b>Session III: Air Quality Aloft Data Analysis Chair Don Blumenthal</b>                               |
| 3:00         | Bill Brick (SDCAPCD)             | Ozone Layers Aloft   |
| 3:20         | Alan Dixon (UCD)                 | Airplane Lidar Measurements Comparison   |
| 3:40         | C.Russell Philbrick (Penn State) | Lidar Measurements During SCOS97-NARSTO  |
| 4:00         | Don Blumenthal (STI)             | Air to Ground Comparisons During SCOS97-NARSTO   |
| 4:20         |                                  | <b>Day 3 Concludes</b>   |

# SCOS97-NARSTO



## SCOS97-NARSTO DATA ANALYSIS CONFERENCE

### Conference Format

#### **Conference Rooms and Check-in**

SCAQMD **Auditorium** and the nearby room **CC6** (“Classroom”) will host the Conference. Session I on the first day will be held in the Auditorium while the concurrent sessions II and III will be in the “Classroom.” All other sessions on other days will be held in the Auditorium. The Auditorium has capacity for 250 people and the “Classroom” has room for at least 60 participants. Please check in with the SCAQMD front desk as you enter the building.

#### **Sessions**

The session chairs are responsible for keeping their session on time and for allowing five to ten minutes after each presentation for questions, comments, and exchanges of points of view. Chairs will introduce the presenters in one or two sentences. Each presentation will last fifteen to twenty minutes. Recorders will take minutes and use audiotape to collect conference notes. After approval by the session chairs, these notes will be available to the conference participants on ARB’s web site. Each session will close with a roundtable to incorporate the knowledge learned during SCOS97-NARSTO. Roundtable moderators are responsible to keep the discussion focused and on time, and after the conference, the moderators will review and approve the notes kept by roundtable recorders. These notes will also be available as a compendium from the ARB web site.

#### **Meals**

South Coast has an excellent cafeteria available to conference participants. A list of other restaurants is attached to this brochure. The starting time for lunch is shown on the agenda for each day. Coffee, tea, bagels, and cream cheese will be provided every morning. Snacks and drinks will be provided at refreshment breaks.

#### **Transportation & Parking**

Parking is not limited in the SCAQMD lot. If you have a hotel room nearby, there may be a shuttle to the SCAQMD facility. We encourage carpooling and sharing car rentals. Maps and directions are also attached to this brochure.

# SCOS97-NARSTO



## Diamond Bar Hotel List

### **Country Suite by Ayres - Diamond Bar**

21951 Golden Springs Drive  
Diamond Bar, CA 91765  
1-888-59A-YRES (reservations)  
909-860-6290  
FAX 909-860-5469  
Price Range: \$89.00 - \$99.00

### **Hotel Diamond Bar-Best Western Inn**

259 Gentle Springs Lane  
Diamond Bar, CA 91765  
909-860-3700  
Price Range: \$52.00 - \$64.80

### **Holiday Inn Select Diamond Bar**

21725 E Gateway Center Dr  
Diamond Bar, CA 91765  
1-800-988-3587 (reservations)  
1-800-988-3587  
909-860-5440  
FAX 909-860-8224  
Price Range: \$94.00 - \$139.00

### **Shilo Hilltop Suites (4-5 miles from SCAQMD HQs)**

30101 Temple Avenue  
Pomona, CA 91766  
1-800-222-2244 (reservations)  
909-598-7666  
FAX 909-598-5654  
Price Range: High

# SCOS97-NARSTO



## Map & Directions to SCAQMD Facility

Diamond Bar is generally East of City of Industry & Rowland Heights in the borderlands between Los Angeles, Orange, and San Bernardino Counties. Use highway 60/57 either from Pomona Airport or from downtown Los Angeles East and exit on North Grand Avenue, proceed to and turn west on Golden Springs Drive, and enter Copley Drive. If you reach Gateway Center Drive, you have gone too far. Golden Springs Drive runs parallel to highways 60/57. SCAQMD facility is the first and most prominent building on Copley Drive. To get to highway 60/57, you must follow the appropriate signs that generally guide you north from the Pomona Airport to 60 and 57. If you are going east on highway 10 from West Los Angeles or east and south on highway 210 coming from the San Fernando Valley, both lead to highway 57 and the exit is again the North Grand Drive. Map is provided to guide you in further inquiries.



# SCOS97-NARSTO



## List of Restaurants

### **Acapulco Mexican Restaurant**

9405 Monte Vista Avenue  
Montclair  
909-621-3955

### **Sycamore Inn**

8318 Foothill Boulevard  
Rancho Cucamonga  
909-982-1104

### **Sushi Tokyo**

868 N. Diamond Bar Boulevard  
Diamond Bar  
909-861-6537

### **Casa Del Rey**

345 W. Bonita Avenue  
San Dimas  
909-592-2776

### **Hilltop Restaurant**

3101 Temple Avenue  
Pomona  
909-594-3575

### **Hometown Buffet**

5247 Arrow Highway  
Montclair  
909-909-624-3060

### **In N Out Burger**

21133 Golden Springs Road  
Diamond Bar  
1-800-786-1000

### **La Paloma**

2975 Foothill Boulevard  
La Verne  
909-593-7209

# SCOS97-NARSTO



## List of Restaurants (Continued)

### **Tuti Mangia**

102 Harvard Avenue  
Claremont  
909-625-4669

### **Aroma Cuisine of India**

8851 Central Avenue Suite E  
Montclair  
909-445-1455

### **China Gate**

365 South Mountain Avenue  
Upland  
909-982-2449