



Air Quality in Emergency Response: *Monitoring, Modeling, Messaging, and Media*



2008 CARPA Summit

Air Response Training Program

October 15 - 16, 2008

Holiday Inn, Capitol Plaza | Sacramento, CA

Final Report



Prepared by
California State University, Sacramento
College of Continuing Education
Conference and Training Services



**Air Quality in Emergency Response:
*Monitoring, Modeling, Messaging and Media***

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CARPA SUMMIT 2008 FINAL REPORT SUMMARY

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On October 15-16, 2008, the California Air Response Planning Alliance (CARPA) Steering Committee hosted the Inaugural CARPA Summit at the Holiday Inn Capitol Plaza Hotel in Sacramento, California. California State University, Sacramento, (CSUS) Conference and Training Services (CTS) provided conference planning and management services in cooperation with the California Air Resources Board (ARB), the CSUS Center for Collaborative Policy, and the CARPA Steering Committee. This report provides a summary of the scope of work performed by CTS including an analysis of attendee participation, session evaluations, as well as comprehensive registration information of the general participants, speakers, and exhibitors. Following is an outline of the conference planning and management services provided by CTS for the 2008 CARPA Summit:

CARPA SUMMIT PROJECT COORDINATION AND MANAGEMENT TEAM

CTS Team Members (8)

CTS team members included Susan Gonzalez, Chad Smith, Marlene Towns, Jacqueline Castro, Carrie Carothers, Laura Cortez, Steve Grondin and Carrie Dennis. CTS Director Susan Gonzalez served as the project advisor. Chad Smith provided contract administration services. Marlene Towns served as the project manager and managed the contracted scope of work, including monthly committee reports, regular communication and updates with the ARB Project Manager, CCP and committee members, as well as investigating and/or researching specific project needs, hotel negotiations and coordinating facility logistics, assistance developing content for collateral materials associated with the event including event theme and brand. Jacqueline Castro coordinated speaker and exhibitor registration and confirmation and provided additional research assistance. Carrie Carothers coordinated promotional materials and event collateral and made follow up phone calls for event activities. Steve Grondin designed and maintained the CARPA Summit website. Laura Cortez was responsible for registration services and periodic attendance reporting. Carrie Dennis provided the concept development and graphic design of the CARPA logo and overall brand, as well as design of the complete summit collateral.

PLANNING COMMITTEE PARTICIPATION

Committee Meetings (10)

CTS participated in 10-planning committee meetings and/or conference calls, as well as preand post conference meetings. CTS reported on registration status, logistics and other associated activities, as well as reviewed the project timeline to ensure all project objectives were accomplished in a timely manner. Additionally, CTS provided assistance with subcommittee planning groups, as well as coordination and administration of the CARPA Air Quality District and Public Health Scholarship Programs.

FACILITY NEGOTIATION AND COORDINATION

Rooms Reserved (100) – Rooms Secured (134)

Contract negotiations and facility coordination with the Holiday Inn Capitol Plaza were provided by CTS. Coordination included setup for 207 attendees: 100 room blocks, 1 general session, 3 breakout sessions; hosted luncheon; exhibition hall including 12 indoor and 5 outdoor exhibitors; registration services; layout, audio/visual, and a “pre-summit” meeting with the facility staff and committee members to review the final banquet event orders and conduct a trial run of the program prior to the event.

SPEAKER AND EXHIBITOR COORDINATION

Speakers (33) - Exhibitors (17)

CTS provided registration and speaker presentation coordination for 33 summit speakers and 17 exhibitors (12 indoor and 5 outdoor). CTS confirmed arrangements, collected all speaker biographies and abstracts for inclusion in the program guide and handout materials, as well as exhibitor information and confirmations. CTS prepared the confirmation letter and subsequent appreciation letters for each speaker and exhibitor.

CARPA SUMMIT 2008 FINAL REPORT SUMMARY

WEB DEVELOPMENT AND DESIGN

Web Design Services

Web development and design of the CARPA Summit website included online registration, web administration, a speaker's portal and additional menu selections for summit information pertinent to the program as well as ongoing maintenance of the website and periodic updates of the site.

GRAPHIC CONCEPT DEVELOPMENT AND DESIGN

Hours Graphic Design and CARPA Branding

Graphic Design services were provided by CTS including design, typeset, and layout, all print materials associated with the Summit including concept and development, logo design, registration brochure, agenda, speaker handouts, name tags/name tents, evaluations, and signage. Design services also included branding of the CARPA Alliance.

INFORMATION AND REGISTRATION SERVICES

Registered Active Attendees (203)

Cancellations (6) and No Shows (5)

Registration and Information Services provided the following activities to accommodate all participants and registrations:

1. Online, fax and telephone registration services.
2. Personal customer service (8am-5pm) and after hours voice message center.
3. Maintenance and updates to the registration database
4. Distribution of the attendee confirmation letter, meeting receipt, and map.
5. Generated periodic registrant reports and a final list of attendees for ARB.
6. On-site management and registration services for 207 attendees.
7. Development of an evaluation questionnaire and analysis of participant responses.

CARPA SUMMIT 2008 ATTENDANCE

CARPA SUMMIT ATTENDANCE

Attendees (207)

Attendance goals for the 2008 CARPA Summit was set at 150 participants. With the concerted effort of the CARPA Outreach Committee, attendance goals were exceeded with a final count of 203 active participants. A total of 81 agencies and 15 out-of-state attendees participated in the 2008 CARPA Summit. There were 7 cancellations and 4 no shows. This section includes a series of attendance reports including: overall summit attendance; attendance by federal; state; county; local agencies; an itemization by organization; and classification by mutual regions:

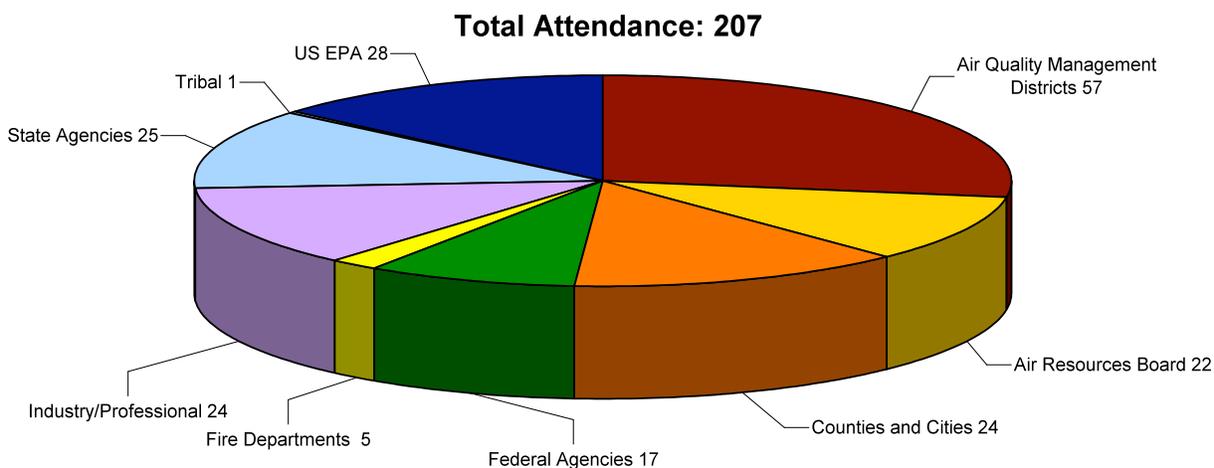
Overall Attendance Analysis

CARPA Registration	Total Participants	Percentages
General Attendees	153	75.5%
Speakers	33	16.0%
Exhibitors	17	8.5%
Total Active Participants	203	100%

Attendance by Agency and Organizations

Organization	Attendees	Percentage
Air Quality Management Districts	57	28.0%
California Air Resources Board	22	10.0%
County Public Health Agencies	24	14.0%
Federal Agencies	17	8.0%
Fire Departments	5	1.0%
Industry Professionals	24	13.0%
State Agencies	25	12.0%
Tribal Communities	1	0.0%
US Environmental Protection Agencies	28	14.0%
Attendance Total	203	100%

CARPA Summit 2008 Organization Participation



CARPA SUMMIT 2008 ATTENDANCE BY ORGANIZATION

Federal, State, County, Local Agencies and Industry Professionals

Following is a list of public agencies and industry professionals that attended the 2008 CARPA Summit.

Agencies	Attendees
Air Quality Management Districts	57
Amador County Air Pollution Control District	
Bay Area Air Quality Management District	
Butte County Air Quality Management District	
El Dorado County Air Quality Management District	
Feather River Air Quality Management District	
Imperial County Air Pollution Control District	
Lake County Air Quality Management District	
Lassen County Air Pollution Control District	
Maricopa County Air Quality Department	
Mendocino County Air Quality Management District	
Mojave Desert Air Quality Management District	
Monterey Bay Unified Air Pollution Control District	
North Coast Unified Air Quality Management District	
North Sierra Air Quality Management District	
Placer County Air Pollution Control District	
Sacramento Metro Air Quality Management District	
San Diego Air Quality Management District	
San Joaquin Air Quality Management District	
San Luis Obispo Air Quality Management District	
Santa Barbara County Air Pollution Control District	
Shasta County Air Quality Management District	
Siskiyou County Air Pollution Control District	
South Coast Air Quality Management District	
Tehama County Air Pollution Control District	
Tuolumne County Air Pollution Control District	
Ventura County Air Pollution Control District	
Yolo-Solano Air Quality Management District	
California Air Resources Board	22
California State Agencies	25
California Department of Public Health	
California Environmental Protection Agency	
Center for Collaborative Policy	
Department of Toxic Substances Control	
California Department of Public Health Environmental Health Laboratory	
Governor's Office of Emergency Services	
Office of Environmental Health Hazard Assessment	
Sacramento State	
County/City Health and Environmental Departments	24
Amador County Environmental	
Calaveras County	
California Conference of Local Health Officers/Mariposa County Health Department	
City of Berkeley Public Health Division	
Colusa County Health Department	
Contra Costa County Health Services Hazmat	
County of Sacramento	
County of Solano Division of Environmental Health	
El Dorado County Public Health Department	

CARPA SUMMIT 2008 ATTENDANCE BY ORGANIZATION

County/City Health and Environmental Departments Continued	
Los Angeles County Department of Public Health	
Madera County Environmental Health Department/CUPA	
Mono/Inyo County Health Department	
Monterey County Health Department	
Placer County	
Placer County Health & Human Services	
Sacramento County Environmental Management Dept	
Sacramento County Public Health Communications Off	
San Diego County Health and Human Services Agency	
San Joaquin County Environmental Health Department	
San Joaquin County Public Health Services	
SOH/DOH/Clean Air Branch	
Stanislaus County	
Stanislaus County Department of Environmental Resources	
Fire Departments	5
Sacramento Fire Department	
Ventura County Fire Department	
West Sacramento Fire Department	
Industry Attending Conference	24
Adashi	
Airsis	
Alberta Environmental Support and Emergency Services	
BGI Instruments	
Center For Toxicology And Environmental Health	
Costal Environmental Systems, Inc.	
E & E Incorporated	
ERRG, Incorporated	
Met One Instruments	
Quetin Consulting, Incorporated	
RAE Systems	
Safer Systems	
Shell Oil Company	
Sonoma Technology, Incorporated	
Thermo Fisher Scientific	
West Tech Environmental	
Tribal Communities	1
La Posta Band of Mission Indians	
U.S. Environmental Protection Agency	28
U.S. Federal Agencies - Other	17
Agency for Toxic Substances and Disease Registry	
LLNL/NARAC/IMAAC	
National Oceanic and Atmospheric Administration	
NPS Sequoia and Kings Canyon National Parks	
Oak Ridge National Laboratory	
U.S. Fish & Wildlife Service Region 8 Fire Management	
U.S. Forest Service	
U.S.D.A. Forest Service, Los Padres National Forest	
U.S. National Guard	
Total Participants	203

CARPA SUMMIT 2008 ATTENDANCE BY ORGANIZATION

Participating Organizations

Following is a list of the 84 individual organizations and agencies that attended the 2008 CARPA Summit.

No.	Attending Organization	Participants
1	ADASHI	1
2	Agency for Toxic Substances and Disease Registry	3
3	AIRSIS	2
4	Alberta Environment Support & Emergency Response	2
5	Amador County Air Pollution Control District	1
6	Amador County Environmental	1
7	Bay Area Air Quality Management District	3
8	BGI Instruments	1
9	Butte County Air Quality Management District	2
10	Calaveras County	1
11	California Air Resources Board	22
12	California Conference of Local Health Officers/Mariposa County Health Department	1
13	California Department of Public Health	9
14	California Environmental Protection Agency	1
15	California National Guard-9th WMD Civil Support Team	2
16	Center for Collaborative Policy	3
17	Center For Toxicology And Environmental Health	1
18	City of Berkeley Public Health Division	1
19	Coastal Environmental Systems, Inc.	1
20	Colusa County Health Department	1
21	Contra Costa County Health Hazmat	3
22	Department of Toxic Substances Control	4
23	E&E, Incorporated	1
24	El Dorado County Air Quality Management District	1
25	El Dorado County Public Health Department	1
26	ERRG, Incorporated	3
27	Feather River Air Quality Management District	1
28	Governor's Office of Emergency Services	4
29	Imperial County Air Pollution Control District	3
30	La Posta Band of Mission Indians	1
31	Lake County Air Quality Management District	1
32	Lassen County Air Pollution Control District	1
33	Lawrence Livermore National Laboratory NARAC/IMAAC	2
34	Los Angeles County Department of Public Health	1
35	Madera County Environmental Health Department/CUPA	1
36	Maricopa County Air Quality Department	1
37	Mendocino County Air Quality Management District	1
38	Met One Instruments	2
39	Mojave Desert Air Quality Management District	1
40	Mono/Inyo County Health Department	1
41	Monterey Bay Unified Air Pollution Control District	4
42	Monterey County Health Department	1
43	National Oceanic and Atmospheric Administration	1
44	National Park Service Sequoia and Kings Canyon National Parks	2
45	North Coast Unified Air Quality Management District	1
46	North Sierra Air Quality Management District	2
47	Office of Environmental Health Hazard Assessment	2
48	Placer County Air Pollution Control District	6
49	Placer County Health & Human Services	2
50	Quentin Consulting, Inc.	1
51	Rae Systems	2

CARPA SUMMIT 2008 ATTENDANCE BY ORGANIZATION

Participating Organizations continued

No.	Organization	Participants
52	Sacramento County Environmental Management Department	2
53	Sacramento County Public Health Communications Office	1
54	Sacramento Fire Department	2
55	Sacramento Metro Air Quality Management District	6
56	Safer Systems	2
57	San Diego County Air Pollution Control District	1
58	San Diego County Health and Human Services Agency	1
59	San Joaquin County Environmental Health Department	3
60	San Joaquin Valley Air Pollution Control District	2
61	San Luis Obispo County Air Pollution Control District	2
62	Santa Barbara County Air Pollution Control District	2
63	Shasta County Air Quality Management District	1
64	Shell Oil Company	1
65	Siskiyou County Air Pollution Control District	2
66	Solano County Division of Environmental Health	1
67	Sonoma Technology, Inc.	2
68	South Coast Air Quality Management District	5
69	Stanislaus County Department of Environmental Resources	2
70	Tehama County Air Pollution Control District	1
71	Thermo Fisher Scientific	1
72	Tuolumne County Air Pollution Control District	2
73	U.S. Environmental Protection Agency, Region 9	28
74	U.S. Fish & Wildlife Service	2
75	U.S. Forest Service	3
76	U.S.D.A. Forest Service, Los Padres National Forest	2
77	Ventura County Air Pollution Control District	1
78	Ventura County Fire Department	1
79	West Sacramento Fire Department	2
80	Wes-Tech Environmental	1
81	Yolo-Solano Air Quality Management District	3
Total Attendees		203

CARPA SUMMIT 2008 ATTENDANCE BY REGION

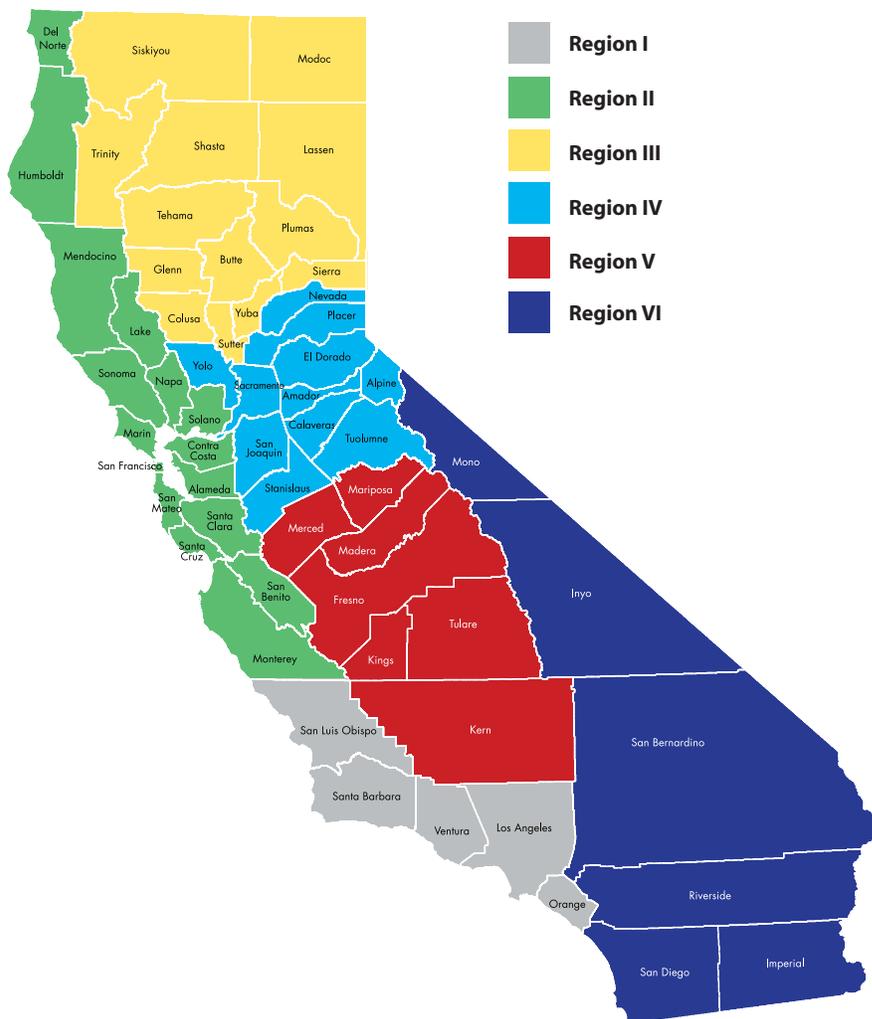
CALIFORNIA MUTUAL AID REGIONS

6 Regions State-wide Regions

CARPA Summit attendees were grouped in regions for a table top exercise. The exercise focused on coordination efforts and critical decisions between local, state, and federal governments. Breakdown of regional attendance is as follows. This section also includes a comprehensive list of participants divided by regions:

California State-wide Regions	No. of Participants
Region I	20
Region II	64
Region III	11
Region IV	74
Region V	08
Region VI	11

CALIFORNIA MUTUAL AID REGIONS



CARPA SUMMIT 2008 ATTENDANCE BY MUTUAL AID REGION

Mutual Aid Region 1		
Organization	City	Total Attendees = 20
California Air Resources Board	El Monte	
Cal National Guard-9th WMD Civil Support Team	Los Alamitos	
ERRG, Inc.	Fallbrook	
Los Angeles County Department of Public Health	Los Angeles	
Safer Systems	Camarillo	
San Luis Obispo County Air Pollution Control District	San Luis Obispo	
Santa Barbara County Air Pollution Control District	Santa Barbara	
South Coast Air Quality Management District	Diamond Bar	
USDA Forest Service, Los Padres National Forest	Santa Maria	
Ventura County Air Pollution Control District	Ventura	
Ventura County Fire Department	Camarillo	

Mutual Aid Region 2		
Organization	City	Total Attendees = 64
Agency for Toxic Substances Disease Registry	San Francisco	
Bay Area Air Quality Management District	San Francisco	
California Department of Public Health	Richmond	
City of Berkeley Public Health Division	Berkeley	
Contra Costa County Health HazMat	Martinez	
Contra Costa County Health Services	Martinez	
County of Solano Division of Environmental Health	Fairfield	
Department of Toxic Substances Control	Berkeley	
E&E, Inc.	Oakland	
ERRG, Inc.	Concord	
Lake County Air Quality Management District	Lakeport	
Lawrence Livermore National Laboratory NARAC/IMAAC	Livermore	
Monterey Bay Unified Air Pollution Control District	Monterey	
Monterey County Health Department	Salinas	
North Coast Unified Air Quality Management District	Eureka	
Office of Environmental Health Hazard Assessment	Oakland	
Office of Restoration and Rescue	Alameda	
Sonoma Technology, Inc.	Petaluma	
U.S. Environmental Protection Agency, Region 9	San Francisco	

Mutual Aid Region 3		
Organization	City	Total Attendees = 11
Butte County Air Quality Management District	Chico	
Colusa County Health Department	Colusa	
Feather River Air Quality Management District	Marysville	
Lassen County Air Pollution Control District	Susanville	
Northern Sierra Air Quality Management District	Quincy	
Shasta County Air Quality Management District	Redding	
Siskiyou County Air Pollution Control District	Yreka	
Tehama County Air Pollution Control District	Red Bluff	
US Fish & Wildlife Service Region 8 - Fire Mgmt	Willows	

CARPA SUMMIT 2008 ATTENDANCE BY MUTUAL AID REGION

Mutual Aid Region 4		
Organization	City	Total Attendees = 74
Amador County Air Pollution Control District	Jackson	
Amador County Environmental Health	Amador	
Calaveras County	San Andreas	
California Air Resources Board	Elk Grove	
California Air Resources Board	Sacramento	
Center for Collaborative Policy	Davis	
Center for Collaborative Policy	Sacramento	
County of Sacramento	Sacramento	
Department of Toxic Substances Control	Sacramento	
El Dorado County Air Quality Management District	Placerville	
El Dorado County Public Health Department	Placerville	
Governor's Office of Emergency Services	Mather	
Governor's Office of Homeland Security	Sacramento	
Mendocino County Air Quality Management District	Ukiah	
Northern Sierra AQMD	Grass Valley	
Office of Environmental Health Hazard Assessment	Sacramento	
Placer County Air Pollution Control District	Auburn	
Placer County Health & Human Services	Auburn	
Sacramento County Environmental Management Dept	Sacramento	
Sacramento County Public Health Communications Office	Sacramento	
Sacramento Fire Department	Sacramento	
San Joaquin County Environmental Health Department	Stockton	
San Joaquin County Public Health Services	Stockton	
San Joaquin County Public Health Services	Stockton	
San Joaquin County Environmental Health Department	Stockton	
Stanislaus County	Modesto	
Tuolumne County Air Pollution Control District	Sonora	
US Forest Service	McLellan	
West Sacramento Fire Department	West Sacramento	
Wes-Tech Environmental	Sacramento	
Yolo-Solano Air Quality Management District	Davis	

Mutual Aid Region 5		
Organization	City	Total Attendees = 8
California Conf. of Local Health Officers/ Mariposa County Health Department	Mariposa	
Madera County Environmental Health	Madera	
National Park Service	El Portal	
NPS Sequoia and Kings Canyon National Parks	Three Rivers	
San Joaquin Valley Air Pollution Control District	Fresno	
USDA Forest Service	Clovis	
USDA Forest Service	Porterville	

CARPA SUMMIT 2008 ATTENDANCE BY MUTUAL AID REGION

Mutual Aid Region 6		
Organization	City	Total Attendees = 11
Airsis	San Diego	
Imperial County Air Pollution Control District	El Centro	
La Posta Band of Mission Indians	Boulevard/San Diego	
Mojave Desert Air Quality Management District	Victorville	
Mono/Inyo County Health Department	Mammoth Lakes	
San Diego County Air Pollution Control District	San Diego	
San Diego County Health and Human Services	San Diego	
US Fish & Wildlife Service	Jamul	

Other Attendees		
Organization	City	State
Adashi	Abingdon	MD
Alberta Environment Support & Emergency Response	Edmonton	Alberta
BGI Instruments	Waltham	MA
Center for Toxicology and Environmental Health	North Little Rock	AR
Coastal Environmental Systems, Inc	Seattle	WA
Gila River Indian Community	Sacaton	AZ
Agency for Toxic Substances and Disease Registry	Atlanta	GA
Maricopa County Air Quality Department	Phoenix	AZ
Met One Instruments	Grants Pass	OR
Oaqps Heid	Durham	NC
Shell Oil Company	Houston	TX
Thermo Fisher Scientific	Roswell	GA
US Environmental Protection Agency	Research Triangle Park	NC
US Environmental Protection Agency	Kansas City	KS
US Environmental Protection Agency – Environmental Response Team	Edison	NJ



CARPA SUMMIT 2008 EVALUATIONS

EVALUATIONS SUMMARY

Evaluation Overview

CTS developed a questionnaire for evaluation of the CARPA Summit, as well as each breakout session. CTS collected, analyzed, and interpreted the information. These evaluations are designed to measure the effectiveness of the Summit goals and to assist the CARPA Steering Committee construct future programs to meet the needs of air response communities. Comprehensive summit evaluations are included in this section. Below is an at-a-glance evaluation of the overall Summit and each breakout session.

Evaluation Summary

Data (23) Responses	Overall	Value of Info	Expectations Met	Usefulness	Organized	Learning	4.0 Grp Avg - Data
Excellent	52%	48%	57%	35%	35%	30%	
Very Good	39%	43%	26%	48%	48%	43%	
Average	9%	9%	17%	13%	9%	22%	
Poor	0	0	0	0	0%	0%	
No Answer	0	0	0	4%	8%	5%	
	100%	100%	100%	100%	100%	100%	
Scale Average	3.43	3.39	3.39	3.23	3.29	3.09	3.31

Data to Message (20) Responses	Overall	Value of Info	Expectations Met	Usefulness	Organized	Learning	4.0 Grp Avg - D2M
Excellent	45%	45%	35%	25%	50%	30%	
Very Good	50%	50%	60%	60%	45%	65%	
Average	5%	5%	0%	5%	5%	5%	
Poor	0%	0%	5%	5%	0%	0%	
No Answer	0%	0%	0%	5%	0%	0%	
	100%	100%	100%	100%	100%	100%	
Scale Average	3.4	3.4	3.25	3.11	3.45	3.25	3.31

Message (20) Responses	Overall	Value of Info	Expectations Met	Usefulness	Organized	Learning	4.0 Grp Avg - Message
Excellent	40%	45%	50%	35%	35%	40%	
Very Good	55%	55%	40%	40%	60%	55%	
Average	5%	0%	10%	15%	0%	5%	
Poor	0%	0%	0%	0%	0%	0%	
No Answer	0%	0%	0%	10%	5%	0%	
	100%	100%	100%	100%	100%	100%	
Scale Average	3.35	3.45	3.4	3.22	3.37	3.35	3.36

Overall Summit (41) Responses	Overall	Presenters	Materials	Session Content	Registration	Services	4.0 Grp Avg - Overall
Excellent	63%	54%	46%	54%	80%	63%	
Very Good	37%	44%	42%	46%	18%	34%	
Average	0%	2%	12%	0%	2%	0%	
Poor	0%	0%	0%	0%	0%	0%	
No Answer	0%	0%	0%	0%	0%	3%	
	100%	100%	100%	100%	100%	100%	
Scale Average	3.63	3.51	3.35	3.54	3.78	3.65	3.54

DATA EVALUATIONS

DATA EVALUATION SUMMARY REPORT

REGISTERED PARTICIPANTS: 77

General

3.31 Overall Group Average

1. Overall Session.

0 0%No Answer (0)

0 0%Poor (1)

2 9%Average (2)

9 39% Very Good (3)

12 52% Excellent (4)

23 Responses 3.43 Average

2. Value of information.

0 0%No Answer (0)

0 0%Poor (1)

2 9%Average (2)

10 43% Very Good (3)

11 48% Excellent (4)

23 Responses 3.39 Average

3. Session met expectations.

0 0%No Answer (0)

0 0%Poor (1)

4 17% Average (2)

6 26% Very Good (3)

13 57% Excellent (4)

23 Responses 3.39 Average

4. Usefulness of presentation materials and handouts.

1 4%No Answer (0)

0 0%Poor (1)

3 13% Average (2)

11 48% Very Good (3)

8 35% Excellent (4)

23 Responses 3.23 Average

5. How well was the session organized?

2 9%No Answer (0)

0 0%Poor (1)

2 9%Average (2)

11 48% Very Good (3)

8 35% Excellent (4)

23 Responses 3.29 Average

6. How would you rate your learning experience from this session?

1 4%No Answer (0)

0 0%Poor (1)

5 22% Average (2)

10 43% Very Good (3)

7 30% Excellent (4)

23 Responses 3.09 Average

7. What did you like most about this session and why?

- Brought out many good ideas that need to be addressed.
- Discussion on gaps/needs on cross cutting issues.
- Expert presenters; presentations specific to interest.
- For data collection it may be good to know the current available database for emergency response.
- Giving feedback on gaps and needs directly to people who listen!
- Great information about available web based resources.
- Great presentation on sampling and data collection.
- I learned a lot, I have no response training or know how to implement and type an emergency response.
- Information and contacts.
- Informative for five emergency response missions.
- Level of expertise of presenters.
- Like minded people. With the same problems, challenges.
- Networking and compiling shared experiences, working towards improved products through coordination, communication, lessons learned and Blue Sky!
- Presented useful models that could be used.
- Speaker's presentations and supporting experience was very relevant and useful.
- The information the experts brought to the table.
- Very qualified speakers; kept to timelines.

DATA EVALUATIONS

8. How could it have been improved?

- Aspect (Tim Curry) presentation needed. Close doors to vendor booth room and direct people to outdoor displays for one hour.
- Coordinate decision on some group issues; resolution of gap issues.
- Discuss more situations and applicability for data tools. Is it across the board? Do I use same monitoring tools, etc.?
- Distribute copies of all presentations or have available on a CD.
- It would be good to have less material compressed into the time, which was necessary this time, but good for the future.
- Keep doing what you are doing; take notice of all who submitted suggestions.
- Keep the PM and gaseous/toxics and issues/comments separate. Seems the gaseous/toxics commenter's, while informed with valid concerns, hi-jacked the PM portion of the session and were not effectively managed by session leaders.
- More chemical analysis information.
- More time for open discussion and information exchange. Make handouts available for all presentations. E-mail handouts after conference.
- More time.
- Needed more business cards. More time for feedback, discussion, question and answer.
- Ron has great information and slides. He goes over them too quickly. The slides had too much information.
- Slow down on the presentations and include handouts.
- Specific instrumentation, method defects, issues and problems.
- Too short. Needed more time.
- What will happen next? Who will do it and when?

9. What topics and/or presenters would you recommend for the next summit?

- A panel discussion (1 hour) to discuss primary response agency authorities, roles, capabilities and limitations. Save time to get some interaction and answer questions. Need more time (beyond networking with limited number of participants) to obtain information on what agencies can bring to the emergency response table.
- Air monitoring equipment limitations and capabilities; data interpretation.
- Blue Sky, smoke and ozone modeling tools, hands-on use of technology.
- Equipment training and information; hands-on for those starting.
- Follow through on a single incident from start to finish.
- More representation of air district's experiences or panels.
- Other "disasters" other than wildfires, i.e. nuclear power plants, terrorist, etc.
- Recovery chemical data provides after five.
- A special session to address group's resolutions.
- Someone from National Weather Service/NQAA to explain their smoke model which is available on the internet and to media. Include NWS IMET personnel.
- Take comments and summarize to include data to message and message.
- Where are the assets? Who has what, where, etc.? Decisions/incidents specific to technical lists. Training at the county or air basin level? Are you going to make a CD of the presentations for all sessions, Data, Data to Message, Message? How does California Health Alert Network (CAHAN) fit in Data to Message. Data management tools. Environmental crime evidence preservation.
- White paper on this conference; what changed/improved because of CARPA?
- Working with local agencies, funding, and grants; getting the most out of local resources.

DATA TO MESSAGE EVALUATIONS

DATA TO MESSAGE EVALUATION SUMMARY REPORT REGISTERED PARTICIPANTS: 54

General

3.31 Overall Group Average

1. Overall Session.

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

10 50% Very Good (3)

9 45% Excellent (4)

20 Responses 3.40 Average

2. Value of information.

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

10 50% Very Good (3)

9 45% Excellent (4)

20 Responses 3.40 Average

3. Session met expectations.

0 0%No Answer (0)

1 5%Poor (1)

0 0%Average (2)

12 60% Very Good (3)

7 35% Excellent (4)

20 Responses 3.25 Average

4. Usefulness of presentation materials and handouts.

1 5%No Answer (0)

1 5%Poor (1)

1 5%Average (2)

12 60% Very Good (3)

5 25% Excellent (4)

20 Responses 3.11 Average

5. How well was the session organized?

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

9 45% Very Good (3)

10 50% Excellent (4)

20 Responses 3.45 Average

6. How would you rate your learning experience from this session?

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

13 65% Very Good (3)

6 30% Excellent (4)

20 Responses 3.25 Average

7. What did you like most about this session and why?

- Breakout session is excellent.
- Bringing together of multiple agencies and perspectives.
- Compelling presentations and participation by folks with first-hand experience!
- Discussion of issues.
- Discussion.
- Dr. Rupali Das' explanations of the measurements. Also, the CW/BW talk.
- Dr. Rupali Das' occupational safety and exposure; very useful in my field; interesting topic and very relevant; Richard Nickles topic was interesting and relevant.
- Ds fines and problems.
- Good introduction to topics I previously didn't know and/or understand.
- Good mix of panelist information and audience participation.
- Great discussions. Wide range of experience with various issues.
- Great discussion of issues.
- Group sharing of issues and the interaction was very good.
- Interaction was very good.
- New information.
- Shelter in place, lecture and discussion.
- The question portion in the last hour.

DATA TO MESSAGE EVALUATIONS

8. How could it have been improved?

- An example would have been helpful to walk through.
- Less time for presentation.
- Longer and multiple breakouts so people have the opportunity to rotate.
- Longer session.
- Longer. This session was way too short for the topic.
- More information and discussion on health thresholds and evaluations including selecting the most relevant thresholds.
- More time to cover more topics and cover them more fully.
- More time. Agenda was too ambitious.
- More time, less presentation.
- More time.
- Need more time for discussion. The lack of time and pushing of presenters were annoying.
- Need more take aways - handouts from speakers.
- Provide handouts of all PowerPoints so we can take notes instead of trying to copy slides.

9. What topics and/or presenters would you recommend for the next summit?

- CARPA.
- Case studies.
- Evaluate how folks worked in their agency to communicate and pre-plan for events, i.e. area plans - CARPA. Are they talking with each other?
- I'm sure we would have got to them if we had more time!

MESSAGE EVALUATIONS

MESSAGE SESSION EVALUATION SUMMARY REPORT

REGISTERED PARTICIPANTS: 34

General

3.36 Overall Group Average

1. Overall Session.

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

11 55% Very Good (3)

8 40% Excellent (4)

20 Responses 3.35 Average

2. Value of information.

0 0%No Answer (0)

0 0%Poor (1)

0 0%Average (2)

11 55% Very Good (3)

9 45% Excellent (4)

20 Responses 3.45 Average

3. Session met expectations.

0 0%No Answer (0)

0 0%Poor (1)

2 10% Average (2)

8 40% Very Good (3)

10 50% Excellent (4)

20 Responses 3.40 Average

4. Usefulness of presentation materials and handouts.

2 10% No Answer (0)

0 0%Poor (1)

3 15% Average (2)

8 40% Very Good (3)

7 35% Excellent (4)

20 Responses 3.22 Average

5. How well was the session organized?

1 5%No Answer (0)

0 0%Poor (1)

0 0%Average (2)

12 60% Very Good (3)

7 35% Excellent (4)

20 Responses 3.37 Average

6. How would you rate your learning experience from this session?

0 0%No Answer (0)

0 0%Poor (1)

1 5%Average (2)

11 55% Very Good (3)

8 40% Excellent (4)

20 Responses 3.35 Average

7. What did you like most about this session and why?

- Better understanding of the needs of the media and what they need.
- Exchange of information and ability for lots of questions and answers and real time examples.
- Good suggestions and ideas provided during presentations/exercise.
- Group interaction.
- Hands-on, gave a real world feel.
- Interaction and group work.
- Interaction with experienced public relations people in the breakout session.
- Interactive exercise.
- Interactive exercise.
- Interactive atmosphere, fostering the sharing of ideas and discussion of issues.
- Media types to use. Not enough time on these and how to do's.
- Panelist and their presentations, interactive exercise.
- The amount and quality of information not only from the panel members, but from the various PIO's in the audience were outstanding.
- The JIC exercises.
- Understanding and listening to the PIO's.
- Varied perspectives and JIC exercise.
- Working and negotiating with the team on consumer messaging.

MESSAGE EVALUATIONS

8. How could it have been improved?

- Active examples of a “good” response strategy, i.e. video.
- Bigger room with tables.
- Get started on time.
- Group exercises can be painful.
- Handouts and information.
- Include federal (EPA) PIO on panel. Less lecture and more exercises.
- Maybe more time.
- More hot water during breaks.
- More time; more exercises and discussion.
- More time; more in-depth role playing.
- Room too small. Exercise could have been explained a little better.
- The exercise was supposed to be a JIC and functioning as one. This did not happen. The questions provided were answered with information/answers discussed. However functioning as a JIC and its applicability and understanding the roles as they related to the exercise did not occur. The moderator walked around, providing input, but the presenters did not. It would have been good to have them participate in a group. Many attendees are not as PIO savvy as others; this PIO training would be valuable prior to messaging. Only those with the PIO training fully understood the exercise, but still a JIC didn't seem to take place as what may have been imagined. Also, with messaging, it seemed that the information stressed interviewing and messaging could have included standard print information, already available prior to an incident.
- To have provided a handout of PowerPoint presentations on JIC.
- Would suggest using a fictitious facility in the scenario due to the sensitive nature of the exercise. Chevron is a big local refinery - the exercise material could easily be left in an area of the hotel and picked up by a member of the public.

9. What topics and/or presenters would you recommend for the next summit?

- Discussion about rural/small population messaging.
- Lessons learned from the JIC and problems with the JIC.
- More of the same.
- On camera experiences with microphone in face.
- PIO's working with responders, technical staff working out the messages.
- Probably need more PIO training to effectively use messaging.
- Steps for establishing JIC.

OVERALL EVALUATIONS

OVERALL EVALUATION SUMMARY REPORT REGISTERED PARTICIPANTS: 203

General

3.54 Overall Group Average

1. Overall Effectiveness of the Summit Program.

0 0%No Answer (0)

0 0%Poor (1)

0 0%Average (2)

15 37% Very Good (3)

26 63% Excellent (4)

41 Responses 3.63 Average

2. Overall Effectiveness of Presenters.

0 0%No Answer (0)

0 0%Poor (1)

1 2%Average (2)

18 44% Very Good (3)

22 54% Excellent (4)

41 Responses 3.51 Average

3. Overall Effectiveness of Summit Materials.

1 2%No Answer (0)

1 2%Poor (1)

3 7%Average (2)

17 41% Very Good (3)

19 46% Excellent (4)

41 Responses 3.35 Average

4. Overall Effectiveness of Session Content.

0 0%No Answer (0)

0 0%Poor (1)

0 0%Average (2)

19 46% Very Good (3)

22 54% Excellent (4)

41 Responses 3.54 Average

5. Overall Satisfaction with Registration Process.

0 0%No Answer (0)

0 0%Poor (1)

1 2%Average (2)

7 17% Very Good (3)

33 80% Excellent (4)

41 Responses 3.78 Average

6. Overall Customer Service Satisfaction.

1 2%No Answer (0)

0 0%Poor (1)

0 0%Average (2)

14 34% Very Good (3)

26 63% Excellent (4)

41 Responses 3.65 Average

7. Overall Quality of Food and Beverage.

0 0%No Answer (0)

0 0%Poor (1)

5 12%Average (2)

19 46% Very Good (3)

17 41% Excellent (4)

41 Responses 3.29 Average

OVERALL EVALUATIONS

8. What did you like most about this summit, including specific workshops, and why?

- As monitoring tech, data module - more pertinent.
- Big kudos to Marlene and her staff. Great pad-folio, very well organized, good location, relevant topics, good presenters.
- Breakout session.
- Breakout sessions were very effective. Great job on the overall conference; it was very worthwhile. It was very well organized.
- Bringing together data, data to message, message.
- Cross-section.
- Every presentation is excellent. Really appreciate the information regarding message. Maybe more microphones (i.e. one each table) could help. More questions, answers, and comments.
- Getting the different perspectives (AIR, Public Health, EPA, ARB, and FIRE).
- Good interactive and aggressive approach.
- Great content and presentations; good dialogue.
- Great information, the table top put it all together.
- I thought the breakout sessions were very good and it would be nice to be able to participate in more sessions. This brought out great issues that I haven't had much exposure to as of yet with respect to the other perspective.
- Incident command structure overview discussion of environmental transformation which defines what it is to be sampled.
- Incredibly educational! Great to hear from all 3 groups.
- Information sharing.
- Interactions with so many people with different expertise.
- It was very well organized. It was also excellent in identifying problems, issues, and pitfalls, as it relates to an air quality emergency response.
- Knowledgeable speakers.
- Lessons learned, recommendations, open forums, and discussion.
- Like the big name tags that allow one to see the name of who you were speaking with.
- Location (northern California commutable) - scholarship for PHO's - TTX by region - business cards provided.
- Message - breakout session. State PIOs were very good.
- Networking with agency staff of different resource areas.
- Networking, interaction, ideas on how to be better prepared, preparing better messages.
- Networking with others.
- Networking, expertise, quality of data, breadth of subjects.
- Organization, equipment (LCD/Laptop) worked, comfortable, exhibitions (inside & outside).
- Panel discussions were very good, i.e., discussion of PAL's discussion of AQI, etc.
- Panel presentations. I also liked the sessions for my "message" track.
- Presentations were excellent. Workshops provided opportunity for ideas exchange.
- Resource identification and putting faces on agencies.
- Table exercise role playing/conferencing.
- Table top exercise.
- The three prong set up. Situations focused on Data and my PIO.
- The message session on Thursday morning. Good information, good practical exercise.

OVERALL EVALUATIONS

- Very organized with materials provided. I thought the tools provided in data session models provided was very useful to know and understand.
- Well organized and all sessions well facilitated.

9. What did you like least about this summit and why?

- “What we used/did”. Presentations that did not include lessons learned or recommendations. Limited county representation for my region.
- A bit too pressed for time!
- A small thing, but breaks weren’t long enough to effectively visit the vendors.
- Agenda not being issued to attendees before hand. I did not know what time to arrive.
- Breaks were (slightly) skimpy!
- Captive lunch. I missed my daily 30/45 minute walk at lunch.
- Compressed schedule. Little time to view exhibits, especially lab vans.
- Extend it by 1/2 a day. It was a bit rushed.
- Final table top exercises were too rushed - although a good learning experience.
- Insufficient break time on day one. Insufficient time outside of schedule, to network and build working relationships with others.
- Invite more first responder’s hazmat fire police so they can participate in regional table top at the least (not necessarily the entire summit).
- It was too short.
- Lack of coffee on day two. AV was a bit off.
- Lack of written materials accompanying the panel discussions - would prefer with the presentations.
- Need handouts for all presentations. Possibly add an extra day. It was too fast paced. More breaks, no working lunch. It would have been a good networking opportunity.
- Need more focus on the purpose and intent.
- Need more time and space.
- Networking opportunity with state, federal, and local agencies that deal with air quality issues.
- Not enough time - 3 days next time please.
- Not enough discussion about how to link in with industry or the “responsible party” to manage an incident in concert.
- Not enough time. We were in too much of a hurry.
- Only focused mostly on wildfires, would like to see if something else happened.
- Presenters were rushed. Need more breaks! Round tables don’t work when the presentation is up front.
- Room too crowded; not enough time made it too intense power points in afternoon on Oct. 16th were not readable some sound / mike problems.
- Running around to get “stamped.” Should have had the raffle at lunch the second day! Provide slide guidance for colors and fonts to present to attendees and margins for previewing.
- Shortness of breakout sessions. Make them longer.
- Some speakers too detailed for broad audience.
- Speakers need to give examples that are relevant and are occurring locally.
- The conference was high paced. Suggest not having speakers at lunches, longer breaks.
- The rooms were small and cramped. A few more breaks were necessary. The first two hours were spent just introducing people.
- Too cold!

OVERALL EVALUATIONS

- Too few/short breaks. Thursday PM session was crowded and clearing lunch dishes was distracting. No one understood the 3 colored papers.
- Too many acronyms. Need to work on all speaking the same language. The resources and acronym guide helps, but still challenging to follow - some discussions. Speakers (audience) need to identify their agencies.
- Too many introductions the first day. I would like more technical workshop sessions instead.
- Too rushed. Need more breaks.
- Too short.

10. Are there any topics and/or presenters you would recommend for the next summit?

- A more complete description of the monitoring instruments by exhibitors hard to speak to each one.
- Agency ICS training and data management collaboration.
- All were excellent.
- All were very good!
- Breakout groups focusing on rural district issues vs. urban district issues. Task/skill specific oriented, breakout groups, e.g. EBAM operations, sitting data. Message content, public releases, and more time to maintain quality and pace.
- Dr. Rupali Das, Richard Nickles, South Coast AQMD med. Toxicologist - Cyrus Rangan or toxicologist; Environmental Hygiene, Environmental Health.
- Key data and federal fire agencies and law enforcement. While there is agreement that air pollution should have some involvement without key folks.
- List of attendees.
- Message how to establish a JIC.
- Mobile labs in field, qualifies for measurement data before pass off to “data to message.”
- More input from responsible parties and incident commanders.
- More instruction on how to establish relationships and plans with agencies.
- More JIC exercises. Develop statewide contact list for key agencies (updated as needed by agencies). State level, county, city, special districts, fire, police, public health, lung, etc.
- More of the same.
- More on data collection.
- More reviews of real incidents. More tabletop exercises.
- Panel on 9/11 incident; response to a terrorist attack.
- Perspectives of incident commander; needs are important.
- Radiological exposures and hazards.
- Ronald Robin testing of responders.
- Topic - more consideration to data accuracy.
- Website component for communication (maybe a template for locals to download so the website can be quickly uploaded/deployed in case of an emergency).
- Would like to see speakers from tribal agencies on the agenda and part of the CARPA team.

11. Will you plan to attend this Summit next year?

- Absolutely!!!
- Depends on agenda and funding.
- Do we need this every year? Perhaps every two years.
- If my schedule allows it.



CARPA SUMMIT 2008 SPEAKERS AND EXHIBITORS

2008 SUMMIT SPEAKERS	ORGANIZATION REPRESENTED
Adeshina, Femi	<i>US Environmental Protection Agency</i>
Alan, Jay	<i>Governor's Office of Homeland Security</i>
Baskett, Ronald	<i>Lawrence Livermore National Laboratory NARAC/IMAAC</i>
Brick, Bill	<i>San Diego County Air Pollution Control District</i>
Burton , Richard	<i>Placer County</i>
Christofk, Tom	<i>Placer County Air Pollution Control District</i>
Cook, Jeff	<i>California Air Resources Board</i>
Das, Rupali	<i>California Department of Public Health</i>
DuTeaux, Shelley	<i>Office of Environmental Health Hazard Assessment</i>
Dye, Tim	<i>Sonoma Technology, Inc.</i>
Fasano, Lisa	<i>Bay Area Air Quality Management District</i>
Goldstene, James	<i>California Air Resources Board</i>
Horton, Mark	<i>California Department of Public Health</i>
Huston, Kelly	<i>California Office of Emergency Services</i>
Jordan, Deborah	<i>US Environmental Protection Agency</i>
Kay, Leo	<i>California Air Resources Board</i>
Kennedy, John	<i>US Environmental Protection Agency</i>
Larkin, Sim	<i>US Forest Service</i>
Low, Jason	<i>South Coast Air Quality Management District</i>
Mosher, Charles	<i>California Conference of Local Health Officers Mariposa County Health Department</i>
Nastri, Wayne	<i>US Environmental Protection Agency</i>
Nickle, Richard	<i>Agency for Toxic Substances Disease Registry</i>
Nony, Paul	<i>Center For Toxicology and Environmental Health</i>
Poore, Michael	<i>California Air Resources Board</i>
Raber, Ellen	<i>Lawrence Livermore National Laboratory</i>
Robberson, William	<i>US Environmental Protection Agency</i>
Shearer, Kerry	<i>Sacramento County Public Health Communications Office</i>
Stanich, Dimitri	<i>California Air Resources Board</i>
Stone, Susan	<i>US Environmental Protection Agency</i>
Vasques, Ed	<i>Sacramento Fire Department</i>
Wall, Stephen	<i>California Department of Public Health</i>
Warren, Michael	<i>Governor's Office of Emergency Services</i>
Wooten, Wilma	<i>San Diego County Health and Human Services Agency</i>

CARPA SUMMIT EXHIBITOR LIST

California Air Resources Board

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The ARB Emergency Response Team is capable of providing monitoring, modeling, meteorological, and laboratory services. Information is viewable at ARB Field Information Center vehicle.

California Department of Public Health

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The CDPH Outdoor Air Quality Program conducts environmental forensics, employing innovative laboratory methods research, to elucidate sources of human exposure to airborne toxicants in the outdoor environment. As a specific focus, protocols and standard instrument operating procedures to characterize a potential chemical threat agent are developed for community exposure assessment following an airborne chemical release.

California National Guard, 9th Civil Support Team

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California National Guard, 9th Civil Support Team, on order, deploys to a suspected or known WMD incident to support civil authorities at a domestic chemical, biological, radiological, nuclear, and high yield explosives (CBRNE) incident. Identify CBRNE agents and substances, assess current and projected consequences, advise on response measures and assist with appropriate requests for federal and state support, in order to help save lives, prevent human suffering and mitigate property damage.

Sacramento Fire Department

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Sacramento Fire Department, an All Risk Organization with a Commitment to Excellence in Enhancing and Protecting Life, Property, and the Environment.

USEPA Environmental Response Team

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The Trace Atmospheric Gas Analyzer (TAGA) is a self-contained mobile (bus) laboratory capable of real-time sampling and analysis in the low parts per billion level of outdoor air or emissions from various environmental sources and concerns. In addition, the TAGA has specialized sampling equipment for measuring indoor air and at remote locations.

ADASHI

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ADASHI's all new version 3.0 provides an all-hazards software platform for managing, communicating, and responding to critical incidents. It combines proven incident response and command tools in a networked emergency management system. ADASHI is widely recognized for its exceptional ease of use with its clear, intuitive touch-screen interface.

AIRSYS

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AIRSYS automates the collection and analysis of environmental data through satellite communications and the Internet. Our Air Quality Communicators integrate directly with instruments from Met One, Campbell Scientific, and Thermo Electron. Our web-based dashboards are used by Port Authorities and numerous federal, state, and municipal agencies.

BGI Instruments

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BGI Instruments is an aerosol research company providing solutions for thirty years by supplying ambient particulate and calibration instrumentation. All BGI instruments are battery operated, portable, United States Environmental Protection Agency approved, and require no tools for assembly.

California Department of Public Health

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The CDPH Outdoor Air Quality Program conducts environmental forensics, employing innovative laboratory methods research, to elucidate sources of human exposure to airborne toxicants in the outdoor environment. As a specific focus, protocols and standard instrument operating procedures to characterize a potential chemical threat agent are developed for community exposure assessment following an airborne chemical release.

CARPA SUMMIT EXHIBITOR LIST

Coastal Environmental Systems, Incorporated

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For more than twenty years, Coastal Environmental Systems has manufactured the only portable weather stations designed specifically for HazMat and First Responders – WEATHERPAK® and C-5 SAM™. Both of these systems automatically update plume modeling software and are designed to withstand the rigors of public safety, military, and industrial applications.

Lawrence Livermore National Laboratory (LLNL) NARAC/IMAAC

Ronald Baskett

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Located at Lawrence Livermore National Laboratory (LLNL), the National Atmospheric Release Advisory Center (NARAC) provides tools and expert services to map the spread of hazardous material accidentally or intentionally released into the atmosphere. NARAC supports all types of hazards and is the primary provider for the DHS-led Interagency Modeling and Atmospheric Assessment Center (IMAAC). When activated, IMAAC is the single point for the coordination and dissemination of federal dispersion modeling and hazard prediction products that represent the federal position. NARAC/IMAAC predictions provide information on affected areas and populations, potential casualties, health effects, and protective action guides to assist decision makers and responders.

Met One Instruments

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Met One Instruments is the manufacturer of the E-BAM - the only portable particulate monitor available utilizing beta attenuation. Met One also manufactures the BAM-1020, the only continuous PM2.5 monitor possessing US-EPA PM2.5 FEM designation.

US Environmental Protection Agency

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AIRNow is the US EPA's real-time air quality data and forecast system. AIRNow receives data and forecasts from hundreds of air quality agencies at the State, local, Tribal, and International levels. That data is quality assured and transformed into a variety of products, all within one hour, 24 hours a day, seven days a week. The airnow.gov website serves as the public's resource for air quality data, forecasts, and health information.

RAE Systems

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RAE Systems is a leading global developer and manufacturer of rapidly deployable chemical and radiation detection monitors and multi-sensor networks for homeland security and industrial applications. RAE Systems' technologically advanced products are based on proprietary technology, and include a full line of portable, wireless and fixed atmospheric monitors and photoionization detectors and gamma and neutron radiation detectors for the detection and early warning of hazardous materials.

SAFER Systems

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SAFER Systems is the global leader in chemical emergency response solutions, providing Fortune 500 corporations and government entities with emergency response management, consequence analysis, and software engineering. SAFER Systems is a system integrator and can provide a scalable application designed for anything from small repackaging facilities to major industrial sites to entire countries.

Thermo Fisher Scientific

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Airborne particulate, including biological and gas monitors for quantifying and identifying unknown gases, dusts, mists and vapors. Formerly branded MIE DataRam, MIRAN and TVA portable light-scattering, IR and FID/PID instruments. Instruments used by Coast Guard, VA, military and CDC for emergency response investigations.

USDA Forest Service

Trent Procter

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The US Forest Service Air Quality Program has developed an emergency response air monitoring program that responds to wildland fire episodes. We have tailored equipment and data delivery for real time in order to allow a very fast deployment and data response.

US Environmental Protection Agency

John Kennedy

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EPA's Region 9 Air Program guides the federal management, implementation, enforcement and technical oversight of ambient air quality and indoor air quality, including control of pollution from stationary and mobile sources, prevention of radiation exposure and protection of the stratospheric ozone layer.



Air Quality in Emergency Response:

Monitoring, Modeling, Messaging, and Media

CARPA Steering Committee Members

California Air Resources Board, Governor's Office of Emergency Services, US EPA- Region 9, Agency for Toxic Substances and Disease Registry (Regional Office), Lawrence Livermore National Laboratory (LLNL)/National Atmospheric Release Advisory Center (NARAC)/ Interim Interagency Modeling and Atmospheric Assessment Center (IMAAC), California Air Pollution Control Officer's Association, Office of Environmental Health Hazard Assessment, California Conference of Local Public Health Officers, California National Guard 95th Civil Support Team, Department of Public Health, Sacramento City Fire Department Special Operations Unit, and California Environmental Protection Agency.

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www.arb.ca.gov/ertcomm/ertcomm.htm