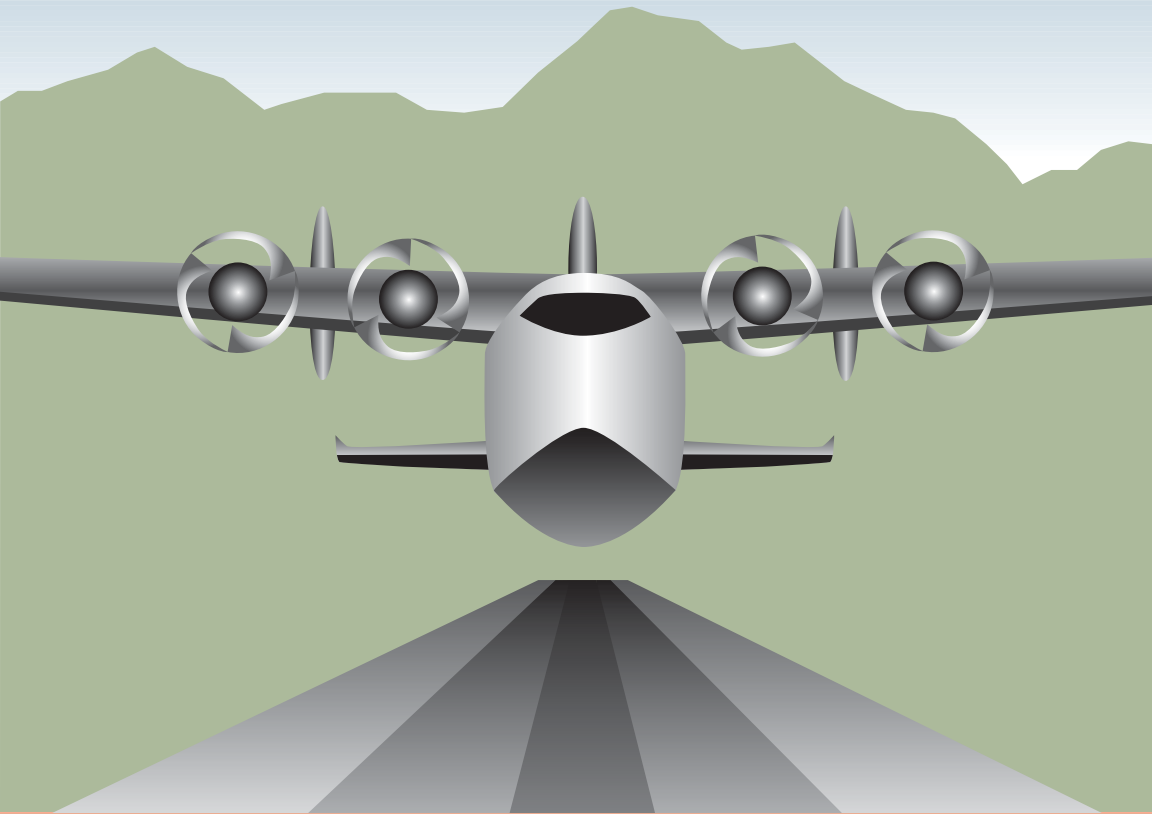


TECHNOLOGY TRANSFER PROGRAM  
INSTITUTE OF TRANSPORTATION STUDIES • UC BERKELEY



# THE ROARING 20TH

AVIATION NOISE & AIR QUALITY SYMPOSIUM  
PALM SPRINGS • FEBRUARY 27 - MARCH 2, 2005

# PROGRAM COMMITTEE

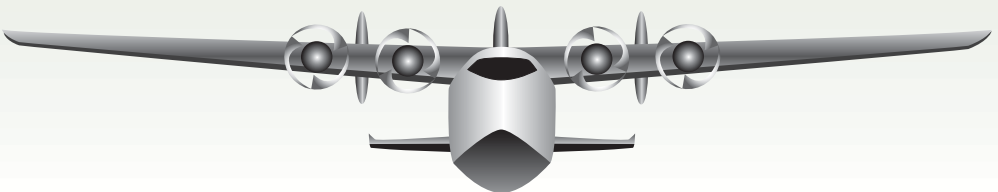
- **John-Paul Clarke**, *Massachusetts Institute of Technology*
- **Betty Desrosiers**, *Massport*
- **Mary Ellen Eagan**, *Harris, Miller, Miller and Hanson\* FICAN*
- **Ken Feith**, *Environmental Protection Agency*
- **Kathleen K. Hodgdon**, *Penn State University*
- **Ralph Iovinelli**, *Landrum & Brown*
- **Mo Keane**, *Federal Aviation Administration*
- **Mike Kenney**, *KB Environmental Sciences*
- **Peter Kirsch**, *Kaplan, Kirsch and Rockwell, Denver*
- **Anne Kohut**, *Airport Noise Report*
- **Sandy Lancaster**, *Dallas Fort-Worth International Airport*
- **Tom Lowrey**, *Transport Canada*
- **Richard Marchi**, *Airports Council International – NA*
- **Lourdes Maurice**, *Federal Aviation Administration*
- **Arlene Mulder**, *Mayor, Arlington Heights, O'Hare Noise Compatibility Commission*
- **Neal Phillips**, *Metropolitan Washington Airports Authority*
- **Dom Sepulveda**, *Pratt & Whitney*
- **David Southgate**, *Australian Department of Transport and Regional Services*
- **Rudy Steinthal**, *Teterboro Airport*
- **Mary Vigilante**, *Synergy Consultants*
- **Chowen Wey**, *NASA*

## SYMPOSIUM MANAGER

- **Donna Reid** – *UC Berkeley*

## ADVISOR

- **Walter Gillfillan** – *Walter Gillfillan & Associates*



# ABOUT THIS SYMPOSIUM

In celebration of the 20th anniversary of the noise symposium, we take inspiration from the great 1930's China Clipper—which 70 years ago pioneered transoceanic flight and inspired a Depression-weary public with a new vision in world travel. This year we introduce a new meeting format—with integrated general sessions on noise and emissions as well as breakouts. We also have a NEW REDUCED RATE for airports, non-profits and government staff. Two tutorials and four luncheons are options as well as a prepublication order of our new Air Quality book (see Registration Form on Page 15). This is THE symposium for getting up to speed on the latest efforts in the environmental aviation field—with top notch presentations you won't want to miss!

## THIS SYMPOSIUM PROVIDES:

- the latest updates on regulations, legal precedents and technology
- an important venue to meet the experts and debate the issues
- insights about what works, what doesn't, and what's on the horizon
- informal relationship building and networking with peers and colleagues
- exposure to additional resources that can help you do your job more effectively
- two pre-symposium tutorials to help bring you up-to-speed on the basics

## WHO SHOULD ATTEND

- Airport managers, environmental departments and operations staff who work with noise and/or air quality issues
- Government agencies concerned with regulating aviation activities and/or environmental impacts including air quality management
- Community groups concerned about environmental impacts
- Airline representatives from environmental departments
- Industry engineers who research, design, and build engines and aircraft
- Consultants and lawyers working in this field
- Academics, researchers and policy analysts

SPECIAL NEW REDUCED RATE FOR AIRPORTS! [SEE REGISTRATION PAGE](#)

# PALM SPRINGS

Palm Springs in February basks in sunshine temperatures in the 70's and 80's. Located in the ancestral home of the Cahuilla Indians, the city derived its Spanish name from the ancient healing mineral waters. Today the Indians run a Spa Resort Casino on the original mineral springs, right across the street from our meeting hotel. In the 1920's Palm Springs was transformed from a sleepy village to become Hollywood's playground, where Gable, Garbo, Sinatra, Hope, and the Marx Brothers came to enjoy "The Springs." The feel of Old Hollywood still lingers among the bougainvilleas and the balmy night air. A quaint village atmosphere survives in the lively mixture of Spanish mission and mid-century modern architecture, inviting you to stroll among the shops, galleries, and eateries. Numerous unique attractions make the city a prime destination for world travelers—including a fine Desert Museum, an Air Museum, the famous Follies, health spas, casinos and more than 90 golf courses. Take the aerial tramway from the desert floor to an alpine forest at more than 8,500 feet for spectacular views of the mountains and valley below. Nearby you can explore the Indian Canyons featured in Frank Capra's 1935 classic "Lost Horizon." The unique desert mountain vistas provide a magnificent backdrop to outdoor activities. Renowned Joshua Tree Park is only a one-hour drive away.

For more details about the many attractions in the Palm Springs area and transportation options—we suggest you visit these websites:

[www.desert-resorts.com](http://www.desert-resorts.com)   [www.thedesertsun.com](http://www.thedesertsun.com)

## GETTING THERE IS HALF THE FUN!

Palm Springs International Airport is served by six commercial airlines—Alaska, American, Continental, Delta, Northwest and United as well as five commuter airlines—America West, American Eagle, Skywest, United Express, and USAir Express. At present RT fares from Chicago direct to Palm Springs run about \$500.

You can also consider flying into Ontario Airport (a one-hour drive away) or Los Angeles International or John Wayne Airport (a two-hour drive away). Interstate Highway 10 will take you directly to Palm Springs. Consult [www.mapquest.com](http://www.mapquest.com) for specific driving directions

## OUR CONFERENCE HOTEL

This year we will be holding our symposium at the Hilton Resort, located just two blocks from the main boulevard in the center of town. Mention “The Roaring 20th” to reserve one of our blocked rooms at the special discounted rate of \$159. By staying at our hotel you will help us to control conference costs.

The Hilton Palm Springs Resort  
400 E. Tahquitz Canyon Way  
Palm Springs, CA 92262

Phone: (760) 320-6868  
US Toll Free: (800) 522-6900  
**[www.hilton.com](http://www.hilton.com)**

# SUNDAY, FEBRUARY 27

PRE-SYMPOSIUM TUTORIALS • SEPARATE REGISTRATION REQUIRED

1:00 – 5:00

## **NOISE 101:**

### **An Introduction**

This “crash course” in airport noise is ideal for the newly appointed noise officer. Each of the four modules will cover a different aspect of aviation noise—how it is produced and measured, how we regulate it, health effects and the economics.

1:00 – 1:50

## **NOISE METRICS AND SOURCES**

### • **Ted Woosley**, *Landrum & Brown*

Understanding the alphabet soup of descriptors can be daunting. Learn about single-event metrics, how noise is measured and modeled, and how to explain airport noise to the uninitiated.

2:00 – 2:50

## **THE REGULATION OF AVIATION NOISE**

### • **Daniel Reimer**, *Kaplan Kirsch & Rockwell*

What are the roles of the EPA and the FAA in establishing standards for the control of aviation noise? What role do airports play in noise mitigation? How do various regulatory frameworks come into play with regard to legislation and land-use planning? How do aircraft operations and air traffic management choices affect noise impacts?

3:00 – 3:50

## **THE EFFECTS OF AVIATION NOISE ON PEOPLE**

### • **Doug Barrett**, *HMMH*

How many people are awakened by your airport’s traffic? What do the latest studies on sleep disturbance indicate? How are metrics defined by health impact data? What about low-frequency noise?

4:00 – 4:50

## **THE ECONOMICS OF NOISE**

### • **Richard Golaszewski**, *GRA Associates*

How can we achieve a balance between the economic benefits deriving from aviation activity and the social and environmental costs of this activity and the mitigation of its impacts?

PRE-SYMPOSIUM TUTORIALS • SEPARATE REGISTRATION REQUIRED

1:00 – 5:00

**AIR QUALITY 102:**

**Building Effective Airport-Community Relations**

How does your airport relate to the community? What are some effective methods for improving these relationships with regards to explaining Air Quality impacts?

1:00 – 1:50

**AIRPORT SOURCES OF AIR EMISSIONS**

• **John Pehrson**, *CDM*

2:00 – 2:50

**AIRPORT OPERATIONS IN AQ PLANS**

• **Carrol Bryant**, *KB Environmental Sciences*

3:00 – 3:50

**THE HOW-TO'S OF AIR QUALITY EVALUATIONS**

• **Jim Humphries**, *CH2M Hill*

4:00 – 4:50

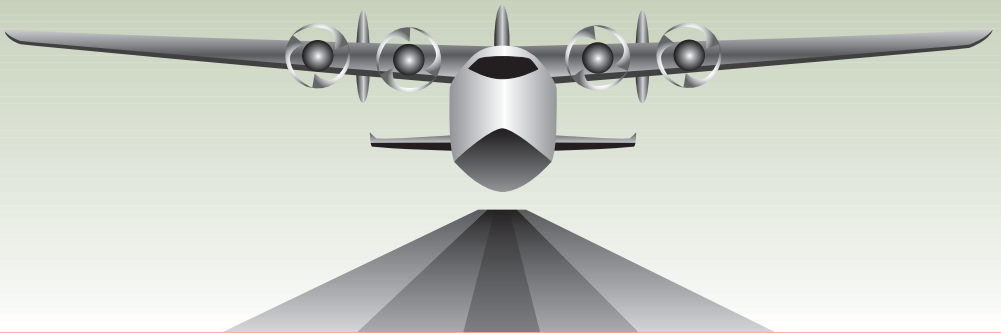
**EMISSIONS TRADING & MITIGATION STRATEGIES**

• **Mary Vigilante**, *Synergy Associates*

6:00 – 8:00

**WELCOMING RECEPTION**

Sponsored by *Harris, Miller, Miller & Hanson Kaplan, Kirsch & Rockwell*



# MONDAY, FEBRUARY 28

8:30 – 9:00 **COFFEE & PASTRIES / REGISTRATION**

9:00 – 9:15 **WELCOME & INTRODUCTIONS**

9:15 – 10:00 **KEYNOTE ADDRESS**

**Integrated Environmental Management for Airports**

- **Mark Kirk**, *10th Congressional District (INVITED)*

10:00 – 10:30 **BREAK**

10:30 – 12:00 **GENERAL SESSION A**

**The Interrelationships of Environmental Impacts Strategies**

Moderator: **Richard Marchi**, *ACI-NA*

- **Lourdes Maurice**, *FAA*
- **Robert Funicello**, *Director of Environmental Projects, Westchester Co, NY*
- **Jim Crites**, *Dallas Ft. Worth International Airport*

12:00 – 1:30 **LUNCHEON A (SEPARATE REGISTRATION)**

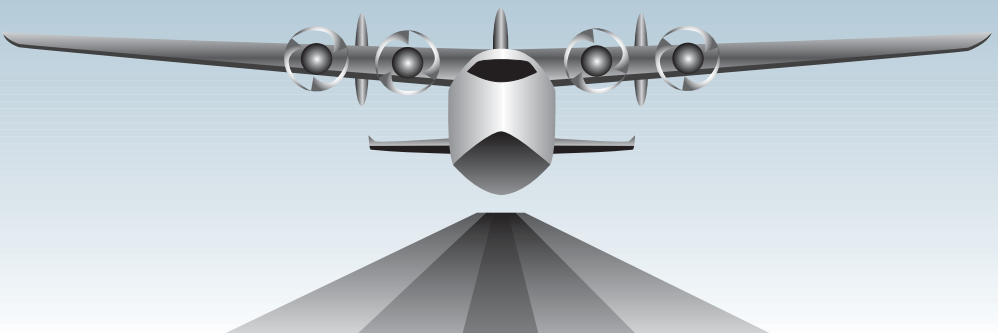
**Creative Solutions to Eliminating the Remaining Noisy Jets**

- **Peter Kirsch**, *Kaplan, Kirsch & Rockwell LLP*

**LUNCHEON B (SEPARATE REGISTRATION)**

**APEX**

- **Chowen Wey**, *NASA*



1:30 – 3:00

## **BREAKOUT SESSION – NOISE I**

### **Part 161 – Putting the Pieces Together**

Moderator: **Rudy Steinthal**, *Teterboro*

#### THE REGULATOR'S PERSPECTIVE

- **Carl Burleson**, *FAA*

#### LAX-VAN NUYS

- **Ted Baldwin**, *HMMH*

#### THE BURBANK STORY

- **Charles Lombardo**, *President, Burbank Airport Authority*

1:30 – 3:00

## **BREAKOUT SESSION – AIR I**

### **Non-Aircraft Emissions on Airport Property**

Moderator: **Ken Feith**, *EPA*

- **Jim Humphries**, *CH2M Hill*
- **Kristi McKinney**, *Oakland*
- **Steve Mrazek**, *Portland*

3:00 – 3:30

BREAK

3:30 – 5:00

## **GENERAL SESSION B**

### **FAA Center of Excellence (COE) Project Updates**

Moderator: **Neal Phillips**, *Metropolitan Washington Airports Authority*

#### LOW FREQUENCY NOISE

- **Kathleen K. Hodgdon**, *Penn State University*

#### PARTICULATE MATTER MEASUREMENTS

- **Phil Whitefield**, *University of Missouri-Rolla*

#### NOISE AND EMISSIONS ABATEMENT FLIGHT TEST AT LOUISVILLE AIRPORT

- **John Paul Clarke**, *MIT*

6:00 – 8:00

## **RECEPTION**

Sponsored by *Landrum & Brown*

# TUESDAY, MARCH 1

8:30 – 10:00

## GENERAL SESSION C

### Revolutionary Moves in Boston

Moderator: **Mo Keane**, FAA

- **Gail Lattrell**, FAA New England Region
- **Betty Desrosiers**, MASSPORT
- **Ralph Dormitzer**, Logan Airport Community Advisory Committee

10:00 – 10:30

BREAK

10:30 – 12:00

## GENERAL SESSION D

### Land Use Planning – The Short & Long Term Variety

Moderator: **Arlene Mulder**, O'Hare Noise Compatibility Commission

#### THE COMPLEXITIES OF PREDICTION

- **Dorn McGrath**, George Washington University

#### NEW APPROACHES TO LAND USE PLANNING

- **Whit Blanton**, Chair, Transportation Division,  
American Planning Association

#### PANAMA CITY'S SERIOUS LAND USE PLAN

- **Knute Ruggaard**, Bechtel Corporation

12:00 – 1:30

## LUNCHEON C (SEPARATE REGISTRATION)

### New Federal Initiatives Since Reauthorization

- **Woodie Woodward**, FAA (INVITED)

## LUNCHEON D (SEPARATE REGISTRATION)

### Measuring Particulates

- **Rick Miake-Lye**, Aerodyne

1:30 – 3:00

## **BREAKOUT SESSION – NOISE II**

### **Noise in the Community**

Moderator: **Tom Lowrey**, *Transport Canada*

#### THE PERCEPTION OF “REAL”

- **Patricia Davies**, *Purdue University*

#### NOISEQUEST: A NEW INTERACTIVE ONLINE INITIATIVE

- **Ben Sharp**, *Wyle*

#### EDUCATING YOUR COMMUNITY

- **Marland W. Townsend**, *Mayor, Foster City, San Francisco Roundtable*

1:30 – 3:00

## **BREAKOUT SESSION – AIR II**

### **Emissions Sources, Impacts and Measurements**

Moderator: **Mary Vigilante**, *Synergy Consultants, Inc.*

#### MOBILE SOURCES OF AIR EMISSIONS AT AIRPORTS

- **Arthur S. Werner**, *MACTEC Engineering and Consulting*

#### TRAFFIC MODELING AND LINKING THE IMPACTS

- **Foster de la Housaye**, *Kimley Horn Associates*

#### NEW OPERATIONAL IMPROVEMENTS RESEARCH IN GERMANY

- **Ralf Gaffal**, *Technische Universitat Munchen*

3:00 – 3:30

BREAK

3:30 – 4:30

## **BREAKOUT SESSION – NOISE III**

### **Wishing Makes It So**

*Symposium attendees will be split into groups to answer the question “If you had all the money in the world to fix the noise problem, how would you go about it”?*

Facilitators: **Mary Ellen Eagan**, *Harris Miller Miller & Hanson Inc.*  
**David Southgate**, *Australian Department of Transport*  
**Lisa Waters**, *MEA Group*  
**Joe Annunzio**, *Village of Niles, Illinois*

3:30 – 4:30

## **BREAKOUT SESSION – AIR III**

### **There’s Something in the Air**

Moderator: **Mike Kenney**, *KB Environmental Sciences*

#### CIRRUS CLOUD FORMATION AND JET CONTRAILS

- **Patrick Minnis**, *NASA Langley*

#### THE ROLE CLOUDS PLAY IN ATMOSPHERIC POLLUTANT TRANSPORT

- **Sonia Kreidenweis**, *Colorado State University*

# WEDNESDAY, MARCH 2

8:30 – 10:00

## GENERAL SESSION E

### Global Issues

Moderator: **Jean-Luc Drapier**, *DGAC*

THE EU NOISE DIRECTIVE AND AIR QUALITY REGS

- **Christopher Ross**, *EU (INVITED)*

PLANNING FOR ENVIRONMENTAL IMPACTS AMID RAPID GROWTH

- **Pan Yue**, *State Environmental Protection Administration (INVITED)*

NEW ICAO INITIATIVES

- **Jane Hupe**, *ICAO (INVITED)*

10:00 – 10:30

BREAK

10:30 – 12:00

## GENERAL SESSION F

### Mitigation Strategies at Source

Moderator: **Dom Sepulveda**, *Pratt & Whitney*

THE BOEING 7E7

- **Billy Glover**, *Boeing*

THE AIRBUS 380

- **Alain Jozelson**, *Airbus*

SUPERSONIC SMALL BUSINESS JETS

- **Preston Henne**, *Gulfstream*

ENGINE UPDATES

- **Willard Dodds**, *General Electric*

12:00 – 1:30

LUNCH (on your own)

1:30 – 3:00

## **BREAKOUT SESSION – NOISE IV**

### **Insulation Issues**

Moderator: **Sandy Lancaster**, *Dallas Ft. Worth International Airport*

### **GREEN ROOFS OVER O'HARE**

- **Brian Gilligan**, *O'Hare Noise Compatibility Commission*

### **ENVIRONMENTAL ASPECTS OF SOUND INSULATION**

- **Steve Vecchi**, *THC*

### **RESIDENTIAL SOUND ATTENUATION-VENTILATION**

- **Bruce Wanless**, *C&S Engineers*

1:30 – 2:00

## **BREAKOUT SESSION – AIR IV**

### **An Update on the Stakeholder Process**

3:00 – 3:30

BREAK

3:30 – 4:30

## **Center of Excellence Quest for Feedback on NoiseQuest**

Facilitator: **Victor Sparrow**

4:30 – 5:00

## **COE Meeting**



# REGISTRATION INFORMATION

- Symposium pre-registration is required.
- Continental breakfast, snacks and receptions are included with registration. Luncheons and Pre-symposium Tutorials require a separate registration fee.
- Registration Forms must be received **no later than February 11, 2005**. Please let us know by February 18th if you need to send a substitute.
- A new book on Airport Air Quality will be available at the symposium. You may pre-order on Registration Form.

## PAYMENT OPTIONS

- **By Check:** Make check or money order payable to UC REGENTS and remit with registration form.
- **By Purchase Order:** Make Payable to UC REGENTS. Your invoicing address, contact name and phone number must be included. Remit with registration form.
- **By Credit Card:** Fill out information and fax or mail with registration form.
- Our Federal Tax ID number is 94 6002123

## REGISTRATION MAY BE SUBMITTED BY FAX OR MAIL

- Our FAX number is (510) 231-9591
- **Our mailing address is:**  
Registrar, ITS-TTP, 1301 South 46th Street, Bldg. 155, Richmond CA, 94804
- For further information about program content please call Donna at (510) 231-5675.
- For sponsorship and exhibitor opportunities or special needs please call Helen at (510) 231-5676.
- For registration questions please call the registrar at (510) 231-5673 or email registrar@techtransfer.berkeley.edu

## CANCELLATION POLICY

- No cancellations will be accepted after February 11, 2005 (Substitutions will be allowed)
- If cancelled on or before January 5th: 80% refund
- If cancelled January 6th – Feb 11th: 50% refund

The University of California, in accordance with applicable federal and state law and University policy, prohibits discrimination, including harassment, on the basis of race, color, national origin, religion, sex, physical or mental disability, medical condition (cancer-related or genetic characteristics), ancestry, marital status, age, sexual orientation, citizenship, or status as a covered veteran (special disabled veteran, Vietnam-era veteran, or any other veteran who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized). This nondiscrimination policy covers admission, access, and treatment in University programs and activities. Inquiries may be directed as follows: sex discrimination and sexual harassment: Nancy Chu, Title IX Compliance Officer, (510) 643-7985; disability discrimination and access: Ward Newmeyer, A.D.A./504 Compliance Officer, (510) 643-5116 (voice) or (510) 642-3172 (TTY). Other inquiries may be directed to the Academic Compliance Office, 200 California Hall, #1500, (510) 642-2795.

# REGISTRATION FORM

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SEE MAILING LABEL

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TITLE AGENCY/EMPLOYER OR AFFILIATION

BUSINESS ADDRESS

CITY STATE COUNTRY POSTAL ZIP CODE

DAY PHONE FAX EMAIL

## FEES (please be sure to check all that apply)

### Symposium (AV-01) Mon., Feb. 28 – Wed., Mar. 2, 2005

Standard Registration \$750 \_\_\_\_\_  
Government, Academia & Non-Profit Groups \$550 \_\_\_\_\_  
Air Quality Management Agencies, Community Groups \$295 \_\_\_\_\_

### Pre-Symposium Tutorials (concurrent sessions) Sun., Feb 27, 1-5 pm

Noise 101 – An Introduction (AV-03) \$95 \_\_\_\_\_  
Air Quality 102 – The Airport in the Community (AV-09) \$95 \_\_\_\_\_

### Luncheons (A & B concurrent, C & D concurrent)

Luncheon A Mon. Feb. 28 Eliminating Noisy Jets \$38 \_\_\_\_\_  
Luncheon B Mon. Feb. 28 APEX \$38 \_\_\_\_\_  
Luncheon C Tues. Mar. 1 New Federal Initiatives \$38 \_\_\_\_\_  
Luncheon D Tues. Mar. 1 Measuring Particulates \$38 \_\_\_\_\_  
Air Quality Book (Pre Sale, tax included) \$35 \_\_\_\_\_

**TOTAL** \_\_\_\_\_

Please help us to better accommodate your needs by indicating which special events you plan to attend:

Sun. Evening Welcoming Reception No Fee \_\_\_\_\_  
Mon. Evening Reception No Fee \_\_\_\_\_

### PAYMENT METHOD (check one)

Check  Credit Card  Purchase Order  Letter of Authorization

### Payment contact information if different from registrant information:

Name \_\_\_\_\_ Bus phone \_\_\_\_\_ Email \_\_\_\_\_

## CREDIT CARD INFORMATION

Card Type \_\_\_\_\_ (MC or VISA only) Exp. Date: \_\_\_\_\_ Acct. #: \_\_\_\_\_

Billing Address & zip code associated with credit card, if different than registrant's address

I authorize my card to be charged the amount of \$\_\_\_\_\_ for this registration.

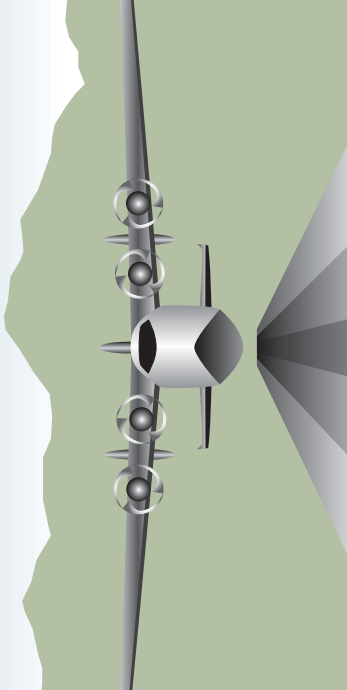
Please Print Name as it Appears on Card: \_\_\_\_\_

Authorizing Signature: \_\_\_\_\_ Today's Date: \_\_\_\_\_

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