

AAAR Annual Conference Overview

Monday, October 20, 2003

8:00 AM - 9:40 AM

Tutorial Session 1

1. Introduction to Aerosol Mechanics I, *Dr. William C. Hinds*
2. Particle Control Techniques, *Dr. David Leith*
3. Aerosol Nucleation, *Dr. Barbara Wyslouzil*
4. Bioaerosols: Extending Non-Culture Based Methods for Characterizing Microorganisms in Air, *Dr. Mark Hernandez*

10:00 AM - 11:40 AM

Tutorial Session 2

5. Introduction to Aerosol Mechanics II, *Dr. William C. Hinds*
6. Indoor Aerosols, *Dr. William W. Nazaroff*
7. An Intuitive Approach to Light Scattering from Single Particles and Aggregates, *Dr. Chris Sorensen*
8. Filter-Based Aerosol Sampling and Analysis, *Dr. Judith Chow*

1:00 PM - 2:40 PM

Tutorial Session 3

9. Particle Transport Modeling, *Dr. Daniel J. Rader*
10. Analytical Methods for Source Apportionment *Dr. James J. Schauer*
11. Secondary Aerosol Formation, *Dr. Paul J. Ziemann*
12. Aerosols and the Respiratory Tract: A Primer, *Dr. Maura J. Sheehan*

3:00 PM - 4:40 PM

Tutorial Session 4

13. Modeling Atmospheric Aerosols, *Dr. Spyros Pandis*
14. Chemical Mass Balance Receptor Modeling, *Dr. John G. Watson*
15. Photochemistry of Atmospheric Particles and Aqueous Drops, *Dr. Cort Anastasio*
16. Physiological Responses to Inhaled Particles, *Dr. Owen R. Moss*

Tuesday, October 21, 2003

8:00 AM - 9:00 AM

Plenary #1

Observations of New Particle Formation and Growth Rates in the Atmosphere, *Dr. Peter H. McMurry*
Presentation of the Liu Award

9:30 AM - 10:45 AM

Platform Session #1

- 1A Fundamental Aerosol Physics
- 1B Marine Aerosols
- 1C Nucleation and Ultrafine Aerosol
- 1D Size-Resolved Sampling
- 1E Materials Synthesis and Aerosol Analysis

11:00 AM - 12:35 PM

Platform Session #2

- 2A Nanoparticles I
- 2B Climate/Remote Sensing/Free Troposphere
- 2C Rural Aerosols
- 2D Aerosol Chemistry I
- 2E Control Technology I

12:35 PM - 2:00 PM

Lunch on your own

2:00 PM - 3:15 PM

Platform Session #3

- 3A Particle Transport
- 3B Long-Range Transport
- 3C Source Apportionment I
- 3D Aerosol Instrumentation
- 3E Combustion and Environmental Aerosol Formation I

3:45 PM - 5:00 PM

Platform Session #4

- 4A Indoor Aerosols I
- 4B Filtration
- 4C Source Apportionment II
- 4D Long-Range Transport
- 4E Sampling Inlets

5:00 PM

AAAR Annual Business Meeting

6:00 PM - 8:30 PM

Poster Session #1 and Exhibitor's Reception

AAAR Annual Conference Overview

Wednesday, October 22, 2003

- 8:00 AM - 9:00 AM **Plenary #2**
Emissions-to-Intake Relationships for Air Pollution Sources,
Dr. William W. Nazaroff
Presentation of the Friedlander Award
- 9:30 AM - 10:45 AM **Platform Session #5**
5A Indoor Aerosols II
5B Toxics & Plume Chemistry
5C Emissions I
5D Control Technology II
5E Soot and Inorganic Particle Formation
- 11:00 AM - 12:35 PM **Platform Session #6**
6A Exposure Assessment I
6B California Regional Particulate Air Quality Study
6C Aerosol Chemistry II
6D Urban Aerosol
6E Condensation
- 12:35 PM - 2:40 PM **Poster Session #2 and Exhibits , Lunch Provided**
- 2:40 PM - 4:35 PM **Platform Session #7**
7A Exposure Assessment I
7B California Regional Particulate Air Quality Study
7C Heterogeneous Aerosol Chemistry I
7D Urban/Regional Aerosol
7E Emissions II
- 5:00 PM **Working Group Meetings**
Alumni Dinner Night (self organized)

Thursday, October 23, 2003

- 8:00 AM - 9:00 AM **Plenary #3**
Electrospray Wings for Molecular Elephants,
Dr. John Fenn
Presentation of the Whitby Award
- 9:30 AM - 10:45 AM **Platform Session #8**
8A Chemical and Biological Agent Detection 1
8B Deposition: Modeling
8C Clouds & Fog
8D Bioaerosols & Biomass Burning
8E Combustion and Environmental Aerosol Formation II
- 11:00 AM - 12:35 PM **Platform Session #9**
9A Heterogeneous Aerosol Chemistry II
9B Deposition: Experimental
9C Carbonaceous Aerosol
9D Numerical Modeling of Regional Aerosols I
9E Field Instrumentation
- 12:35 PM - 2:10 PM Lunch on your own
- 2:10 PM - 4:25 PM **Platform Session #10**
10A Heterogeneous Aerosol Chemistry III
10B Chemical and Biological Agent Detection
10C Carbonaceous Aerosol
10D Analytical Techniques & Methods Intercomparison
10E Mass Spectrometry
- 4:30 PM - 6:30 PM **Poster Session #3 and Exhibits, Refreshments**
- 6:30 PM **AAAR 2004 Planning Meeting**

AAAR Annual Conference Overview

Friday, October 24, 2003

8:00 AM - 9:00 AM

Plenary #4

Understanding the Health Effects of Air Pollution: An Epidemiologist's Quagmire, *Dr. Paige E. Tolbert*

Presentation of the Sinclair Award, announcement of the Mercer Award

9:30 AM - 10:50 AM

Platform Session #11

11A Health-Related Aerosols and Related Instrumentation

11B Clouds & Fog

11C Numerical Modeling of Regional Aerosols II

11D Particle Synthesis and Diagnostics I

11E Composition Measurement

11:10 AM - 12:30 PM

Platform Session #12

12A Atmospheric Aerosol Advances

12B Clouds & Fog

12C Numerical Modeling of Regional Aerosols III

12D Particle Synthesis and Diagnostics

12E Nanoparticles II

12:30

Conference Ends

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Plenary #1

8:00 AM - 9:00 AM

Pacific Ballroom A/B

- 8:00 AM WELCOME
*Barbara Turpin, Conference Chair,
Rutgers University*
- 8:10 AM OBSERVATIONS OF NEW PARTICLE FORMATION AND GROWTH RATES IN THE
ATMOSPHERE
*Dr. Peter H. McMurry
Professor and Head of Mechanical Engineering, University of Minnesota, Minneapolis,
Minnesota, USA*
- 8:55 AM PRESENTATION OF THE LIU AWARD
Lynn Hildemann

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Platform Session #1

9:30 AM - 10:45 AM

1A Fundamental Aerosol Physics

Laguna A/B

Chair: Christopher Sorensen, Co-chair: Tom Peters

9:30 AM - 10:45 AM

1A1
9:30 AM THERMOPHORETIC FORCE ON FREE-MOLECULAR PARTICLES
DANIEL RADER, Michael Gallis, John Torczynski, Sandia National Laboratories, Albuquerque, NM

1A2
9:50 AM AGGREGATION OF PARTICLES IN MAGNETIC FIELDS
PRATIM BISWAS, Prakash Kumar, Washington University, St. Louis, MO

1A3
10:10 AM SHELL MODEL INTERPRETATION FOR MIE SCATTERING BY SPHERES
CHRISTOPHER SORENSEN, Kansas State University, Manhattan, KS

10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 1PA4-1PA12 (1 min each).

1B Marine Aerosols

Avila A/B

Chair: Rebecca Barthelmie, Co-chair: Francis Binkowski

9:30 AM - 10:45 AM

1B1
9:30 AM EVALUATION OF THE "CLAW" HYPOTHESIS USING A GLOBAL MODEL OF AEROSOL MICROPHYSICS
PETER ADAMS, Carnegie Mellon University, Pittsburgh, PA

1B2
9:50 AM SEA-SALT PRODUCTION AND FLUXES FROM NANOMETER SIZES AND LARGER: MEASUREMENTS AND IMPLICATIONS
ANTONY CLARKE, Steven Owens, Yohei Shinozuka, University of Hawaii, Honolulu, HI

1B3
10:10 AM AEROSOL PHYSICAL PROPERTIES IN THE COASTAL ZONE NEAR THE URBAN AREA IN THE SOUTHERN BALTIC SEA
TYMON ZIELINSKI, Andrzej Zielinski, Institute of Oceanology, Polish Academy of Sciences, Sopot, Poland

10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 1PB4-1PB10 (1 min each).

Technical Program (updated August 27, 2003)

- 1C Nucleation and Ultrafine Aerosol** *El Capitan A/B*
Chair: John Jayne, Co-chair: Anthony Wexler **9:30 AM - 10:45 AM**
- 1C1 SYNTHESIS OF RESEARCH ON IN-SITU PARTICLE NUCLEATION IN WESTERN
9:30 AM PENNSYLVANIA: WHICH HYPOTHESES FOR NUCLEI FORMATION AND GROWTH ARE
 CONSISTENT WITH FIELD OBSERVATIONS, MASS SPECTROMETRY, AND MODELING?
*CHARLES STANIER, Timothy Gaydos, Andrey Khlystov, Carnegie Mellon University,
Pittsburgh, PA; Qi Zhang, University of Colorado, Boulder, CO; Manjula Caragaratna, John
Jayne, Douglas Worsnop, Aerodyne Research Inc., Billerica, MA; Jose-Luis Jimenez,
University of Colorado, Boulder, CO; Dylan Millet, Allen Goldstein, University of California,
Berkeley, CA; Keith Bein, Yongjing Zhao, Anthony Wexler, University of California, Davis, CA;
Spyros Pandis, Carnegie Mellon University, Pittsburgh, PA*
- 1C2 CHEMICAL COMPOSITION OF SUB-20 NANOMETER ATMOSPHERIC AEROSOL IN
9:50 AM BOULDER, COLORADO
*KATHARINE MOORE, James Smith, Fred Eisele, National Center for Atmospheric Research,
Boulder, CO; Ajaya Ghimire, Peter McMurry, University of Minnesota, Minneapolis, MN*
- 1C3 MEASUREMENTS OF FINE PARTICLE COMPOSITION DURING QUEST 2 IN THE BOREAL
10:10 AM FOREST, FINLAND USING AN AERODYNE AEROSOL MASS SPECTROMETER.
*JAMES ALLAN, Rami Alfarra, Keith Bower, Hugh Coe, UMIST, Manchester, UK; John Jayne,
Douglas Worsnop, Aerodyne Research Inc., Billerica, MA; Pasi Aalto, Markku Kulmala,
University of Helsinki, Finland; Ari Laaksonen, University of Kuopio, Finland*
- POSTER PREVIEW
10:30 AM *This session ends with a brief presentation of posters 1PC4-1PC10 (1 min each).*
- 1D Size-Resolved Sampling** *Huntington A/B/C*
Chair: Jon Volkwein, Co-chair: David Ferguson **9:30 AM - 10:45 AM**
- 1D1 CONCENTRATION MEASUREMENT AND COUNTING EFFICIENCY OF THE
9:30 AM AERODYNAMIC PARTICLE SIZER 3321
THOMAS PETERS, David Leith, University of North Carolina, Chapel Hill, NC
- 1D2 IMPROVED PARTICLE SIZE DISTRIBUTION MEASUREMENT IN CALM AIR OR
9:50 AM SLOWLY-MOVING AIR SITUATIONS
YI-HSUAN WU, James Vincent, University of Michigan, Ann Arbor, MI
- 1D3 SAMPLING AND ANALYSIS OF AIRBORNE FUNGAL SPORES
10:10 AM *BEAN T. CHEN, Greg Feather, Jyoti Keswani, CDC/NIOSH, USA NIOSH*
- POSTER PREVIEW
10:30 AM *This session ends with a brief presentation of posters 1PD4-1PD11 (1 min each).*

Technical Program (updated August 27, 2003)

1E Materials Synthesis and Aerosol Analysis

Palos Verdes A/B

Chair: Ian Kennedy, Co-chair: Toivo Kodas

9:30 AM - 10:45 AM

- 1E1
9:30 AM DYNAMICS OF NANOPARTICLE CHAIN AGGREGATES: ROLE OF REINFORCING FILLERS
WEIZHI RONG, Rajdip Bandyopadhyaya, Sheldon Friedlander, University of California, Los Angeles, CA
- 1E2
9:50 AM AERO-SOL-GEL SYNTHESIS OF POROUS IRON-OXIDE NANOPARTICLES FOR
ENERGETIC MATERIALS APPLICATIONS
ANAND PRAKASH, Alon V. McCormick, Michael R. Zachariah, University of Minnesota, Minneapolis, MN
- 1E3
10:10 AM COMBINATORIAL AEROSOL MATERIALS
TOIVO KODAS, Mark Hampden-Smith, Paolina Atanassova, David Dericotte, SMP, Albuquerque, NM
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 1PE4-1PE11 (1 min each).

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Platform Session #2

11:00 AM - 12:35 PM

2A Nanoparticles I

Laguna A/B

Chair: Richard Flagan, Co-chair: Richard McClurg

11:00 AM - 12:35 PM

- 2A1
11:00 AM NANOPARTICLE FORMATION BY AEROSOL PROCESSES: EFFECT OF QUENCH RATE
ANSHUMAN LALL, Rajdip Bandyopadhyaya, Sheldon Friedlander, University of California, Los Angeles, CA
- 2A2
11:20 AM SINTERING AND RESTRUCTURING OF NANOPARTICLE AGGLOMERATES
MARTIN SEIPENBUSCH, Institut für Mechanische Verfahrenstechnik und Mechanik, Karlsruhe, Germany
- 2A3
11:40 AM A MOLECULAR DYNAMICS STUDY OF THE ROLE OF THE GROWTH OF HYDROGEN PASSIVATION SURFACE ON SILICON NANOPARTICLES
TAKUMI HAWA, Michael R. Zachariah, Department of Mechanical Engineering and Chemistry, University of Minnesota, Minneapolis, MN
- 2A4
12:00 PM INVESTIGATION OF THRESHOLD ENERGY FOR NANOPARTICLE GENERATION DURING THE LASED ABLATION DECONTAMINATION
DOH-WON LEE, Meng-Dawn Cheng, Oak Ridge National Laboratory, Oak Ridge, TN
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 2PA5-2PA12 (1 min each).

2B Climate/Remote Sensing/Free Troposphere

Avila A/B

Chair: Cynthia Towhy, Co-chair: Tymon Zielinski

11:00 AM - 12:35 PM

- 2B1
11:00 AM RELATIONSHIPS AMONG SURFACE, AIRBORNE, AND SATELLITE MULTI-ANGLE AEROSOL OBSERVATIONS DURING THE ACE-ASIA FIELD CAMPAIGN
RALPH KAHN, Jet Propulsion Lab/California Institute of Technology, Pasadena, CA
- 2B2
11:20 AM A SPRING-TIME MODEL OF THE VERTICAL STRUCTURE OF AEROSOL IN THE ASIAN REGION BASED ON CLOSURE STUDIES IN ACE-ASIA, 2001: IMPACT ON THE VERTICAL STRUCTURE OF AEROSOL-INDUCED FLUX CHANGES AND HEATING RATES
JENS REDEMANN, BAERI, Ventura, CA; Sarah J. Masonis, Univ. of Washington; Beat Schmid, BAERI, Ventura, CA; Theodore L. Anderson, Univ. of Washington; Philip B. Russell, NASA Ames Research Center; John M. Livingston, SRI International; Antony D. Clarke, Univ. of Hawaii
- 2B3
11:40 AM AIRBORNE IN-SITU MEASUREMENT OF AEROSOL EXTINCTION AND SCATTERING OVER MONTEREY, CA AND THE DOE SGP SITE
ANTHONY STRAWA, NASA-ARC, Moffett Field, CA
- 2B4
12:00 PM DEPLOYMENT OF AN AEROSOL MASS SPECTROMETER ON THE G1 AIRCRAFT DURING THE NEW ENGLAND AIR QUALITY STUDY 2002
John Jayne, TIM ONASCH, Scott Herndon, Manjula Canagaratna, Aerodyne Research, Inc., Billerica, MA; Alex Laskin, Pacific Northwest National Laboratory, US Department of Energy, Richland, WA; Doug Worsnop, Aerodyne Research, Inc., Billerica, MA
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 2PB5-2PB12 (1 min each).

Technical Program (updated August 27, 2003)

- 2C Rural Aerosols** *El Capitan A/B*
Chair: David Simpson, Co-chair: Ed Edney *11:00 AM - 12:35 PM*
- 2C1 11:00 AM AN ANALYSIS OF THE TIME SCALES ASSOCIATED WITH AEROSOL PROCESSES DURING DRY DEPOSITION
FRANCIS S. BINKOWSKI, University of North Carolina, Chapel Hill, NC; Sara C. Pryor, Indiana University, Bloomington, IN
- 2C2 11:20 AM REAL-TIME OBSERVATIONS OF NITRIC ACID, AMMONIA, PARTICULATE NO₃ AND PARTICULATE NH₄ AT A RURAL SITE IN NORTH GA, USA
BENJAMIN HARTSELL, Eric Edgerton, Callie Waid, ARA Inc. Plano, TX; John Jansen, Southern Company, Birmingham, AL; Alan Hansen, EPRI, Palo Alto, CA
- 2C3 11:40 AM MICROMETEOROLOGICAL MEASUREMENTS OF SURFACE / ATMOSPHERE EXCHANGE FLUXES OF AEROSOL COMPONENTS USING AN AEROSOL MASS SPECTROMETER
DAVID ANDERSON, Atmospheric Sciences Division, Centre for Ecology and Hydrology (CEH), Edinburgh, U.K.; Eiko Nemitz, Atmospheric Sciences Division, Centre for Ecology and Hydrology (CEH), Edinburgh, U.K./ Atmospheric Chemistry Division (ACD), National Center for Atmospheric Research (NCAR), Boulder, CO; Jose-Luis Jimenez, Alex Huffman, CIRES/University of Colorado, Boulder, CO; Manjula Canagaratna, Doug Worsnop, Aerodyne Research Inc., Billerica, MA; John Neil Cape, David Fowler, Atmospheric Sciences Division, Centre for Ecology and Hydrology (CEH), Edinburgh, U.K.
- 2C4 12:00 PM REAL-TIME MEASUREMENT OF WATER-INSOLUBLE AEROSOL IN THE CHAMONIX AND MAURIENNE VALLEYS OF ALPINE FRANCE
ROBY GREENWALD, M.H. Bergin, Georgia Institute of Technology, Atlanta, Georgia; Jean-luc Jaffrezo, Laboratoire de Glaciologie et GŽophysique de l'Environnement, UniversitŽ de Joseph Fourier, Cedex, France
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 2PC5-2PC11 (1 min each).
- 2D Aerosol Chemistry I** *Huntington A/B/C*
Chair: James Smith, Co-chair: Cort Anastasio *11:00 AM - 12:35 PM*
- 2D1 11:00 AM FORMATION OF INORGANIC NITROGEN FROM ILLUMINATION OF BULK ORGANIC NITROGEN IN ATMOSPHERIC FINE PARTICLES AND FOG DROPS
CORT ANASTASIO, University of California, Davis; Qi Zhang, University of Colorado, Boulder
- 2D2 11:20 AM CONSIDERATION OF THE FORMATION OF SECONDARY ORGANIC PARTICULATE MATTER BY ADDITION REACTIONS OF RELATIVELY VOLATILE OXIDATION PRODUCTS AND OTHER ATMOSPHERIC COMPOUNDS
KELLEY C. BARSANTI, James F. Pankow, OGI School of Science and Engineering at OHSU, Beaverton, OR
- 2D3 11:40 AM KINETICS OF SOOT OXIDATION BY OZONE AND MOLECULAR OXYGEN
JEFFREY ROBERTS, Amanda Wensmann, Michael Zachariah, University of Minnesota, Minneapolis, MN
- 2D4 12:00 PM BASIC STUDY OF DYNAMICS AND PATHWAYS OF CHEMICAL CONVERSION OF ALDEHYDES VAPOR INTO NANOPARTICLES THANKS TO UV LIGHT ACTION.
GALINA SKUBNEVSKAYA, Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk; RUSSIA; Wing Tsang, National Institute of Standards and Technology, Gaithersburg, Maryland,; Sergei Dubtsov, Galina Dultseva, Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk; RUSSIA

Technical Program (updated August 27, 2003)

2E Control Technology I

Palos Verdes A/B

Chair: Alfredo Armendariz, Co-chair: Peter Raynor

11:00 AM - 12:35 PM

- 2E1 EFFECTIVENESS OF PAPER TOWELS AS A MAKESHIFT RESPIRATOR
11:00 AM *DAVID LEITH, University of North Carolina, Chapel Hill, NC*
- 2E2 INFLUENCE OF FIBER MATERIAL ON MIST FILTER PERFORMANCE
11:20 AM *PETER RAYNOR, Gina Letts, University of Minnesota; Division of Environmental and Occupational Health, Minneapolis, MN*
- 2E3 SIZE-SEGREGATED PM EMISSIONS FROM DIESEL WITH AFTER-TREATMENT AND FROM CNG-FUELED TRANSIT BUSES
11:40 AM *Norman Y. Kado, ABERTO AYALA, Robert A. Okamoto, California Environmental Protection Agency, Air Resources, Sacramento, CA, El Monte, CA and Davis, CA*
- 2E4 AN EVALUATION OF EXHAUST AFTER TREATMENT CONTROL TECHNOLOGIES FOR DIESEL PARTICULATE MATTER FROM BACK-UP UTILITY GENERATORS (BUGS): FOCUS ON ORGANIC/ELEMENTAL CARBON
12:00 PM *SANDIP SHAH, David Cocker, Kent Johnson, Wayne Miller, Joseph Norbeck, CE-CERT/UC Riverside, Riverside CA*
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 2PE5-2PE10 (1 min each).

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Platform Session #3

2:00 PM - 3:15 PM

3A Particle Transport

Laguna A/B

Chair: Abdelmaged Hafez Ibrahim, Co-chair: Chuen-Jinn Tsai

2:00 PM - 3:15 PM

3A1
2:00 PM
MICROPARTICLE DETACHMENT FROM SURFACES EXPOSED TO TURBULENT AIR FLOW: EFFECTS OF FLOW ACCELERATION, RELATIVE HUMIDITY AND NUMBER DENSITY
ABDELMAGED IBRAHIM, Patrick Dunn, Raymond Brach, University of Notre Dame, Notre Dame, IN

3A2
2:20 PM
PARTICLE DEPOSITION IN INDUSTRIAL BENDS
THOMAS PETERS, David Leith, Univ. of NC, Chapel Hill, NC

3A3
2:40 PM
SUPPRESSING PARTICLE DEPOSITION BY THERMOPHORETIC FORCE IN THE PIPE FLOW
JYH-SHYAN LIN, Chuen-jinn Tsai, National Chiao Tung University, Hsin Chu, Taiwan

3:00 PM
POSTER PREVIEW
This session ends with a brief presentation of posters 3PA4-3PA11 (1 min each).

3B Long-Range Transport

Avila A/B

Chair: Antony Clarke, Co-chair: Paul Makar

2:00 PM - 3:15 PM

3B1
2:00 PM
WATER SOLUBLE AEROSOLS IN MARINE ENVIRONMENT AT CABO DA ROCA
LILIANA QUINTÃO, M. João Nunes, A. Rita Moreira, M. Filomena Camões, CECUL-DQB, Faculty of Sciences, University of Lisbon, Lisbon, Portugal

3B2
2:20 PM
THE ASIAN CONTINENTAL AEROSOL PLUME DOMINATES THE "BACKGROUND" TROPOSPHERIC AEROSOL OVER NORTH AMERICA
RICHARD VANCUREN, California Air Resources Board, Sacramento, CA; Steven Cliff, DELTA Group, Dept. of Applied Sciences, UC Davis, Davis, CA; Kevin Perry, Dept. of Meteorology, University of Utah, Salt Lake City, UT; Michael Jimenez-Cruz, DELTA Group, Dept. of Applied Sciences, UC Davis, Davis, CA

3B3
2:40 PM
PROPERTIES AND EFFECTS OF ASIAN AEROSOLS OVER THE CENTRAL CALIFORNIA COAST DURING THE ADAM-2003 (ASIAN DUST ABOVE MONTEREY-2003) FIELD STUDY
ANTHONY BUCHOLTZ, Jeffrey H. Bowles, Naval Research Laboratory, Monterey, CA ; Christian M. Carrico, Colorado State University, Fort Collins, CO ; Wei Chen, Naval Research Laboratory, Don Collins, Texas A&M University, College Station, Texas; Curtiss O. Davis, Naval Research Laboratory; Jim Eilers, NASA Ames Research Center, Moffett Field, CA; Piotr Flatau, Naval Research Laboratory; Hafliði Jonsson, Naval Postgraduate School - CIRPAS, Marina, CA; Dan Korwan, Naval Research Laboratory; Sonia M. Kreidenweis, Colorado State University; John M. Livingston, NASA Ames Research Center; Marcos Montes, Naval Research Laboratory; Bob Provencal, Picarro; Elizabeth A. Reid, Jeffrey S. Reid, Naval Research Laboratory; Jens Redemann, Beat Schmid, NASA Ames Research Center; William Snyder, Naval Research Laboratory; Anthony Strawa, NASA Ames Research Center; Annette L. Walker, Douglas L. Westphal, Naval Research Laboratory; Marcin Witek,

3:00 PM
POSTER PREVIEW
This session ends with a brief presentation of posters 3PB4-3PB11 (1 min each).

Technical Program (updated August 27, 2003)

- 3C Source Apportionment I** *El Capitan A/B*
Chair: Eric Fujita, Co-chair: David Cocker *2:00 PM - 3:15 PM*
- 3C1 A SENSITIVITY ANALYSIS OF MOLECULAR MARKER CHEMICAL MASS BALANCE
2:00 PM MODELS FOR THE APPORTIONMENT OF GASOLINE AND DIESEL ENGINE SOURCE
 CONTRIBUTIONS
 JAMES SCHAUER, University of Wisconsin-Madison, Madison, WI
- 3C2 SIZE-RESOLVED CHEMICAL CLASSIFICATION OF DUAL POLARITY
2:20 PM SINGLE-ULTRAFINE-PARTICLE MASS SPECTROMETRY DATA COLLECTED DURING
 THE PITTSBURGH SUPERSITE EXPERIMENT
 *KEITH BEIN, Yongjing Zhao, Anthony Wexler, University of California, Davis; Murray
 Johnston, University of Delaware, Newark, Delaware*
- 3C3 SINGLE PARTICLE SPECIATION OF URBAN ULTRAFINE AND FINE PARTICULATE
2:40 PM MATTER IN THE WESTERN AND EASTERN UNITED STATES
 *MICHELE F. SIPIN, Yongxuan Su, David A. Sodeman, Stephen M. Toner, Kimberly A.
 Prather, University of California, San Diego, La Jolla, CA ; Robert Gelein, Mark J. Utell,
 Gunther Oberdorster, University of Rochester School of Medicine and Dentistry, Rochester,
 NY*
- POSTER PREVIEW
3:00 PM *This session ends with a brief presentation of posters 3PC4-3PC11 (1 min each).*
- 3D Aerosol Instrumentation** *Huntington A/B/C*
Chair: George Mulholland, Co-chair: Virgil Marple *2:00 PM - 3:15 PM*
- 3D1 EFFECT OF OXIDATION OF METAL SPHERES ON SURFACE LIGHT SCATTERING
2:00 PM *JUNG HYEUN KIM, University of Maryland, Gaithersburg, MD; Thomas Germer, George
 Mulholland, National Institute of Standards and Technology, Gaithersburg, MD; Sheryl
 Ehrman, University of Maryland, College Park MD*
- 3D2 DESIGN OF AN ION TRAP-BASED TRANSPORTABLE REAL-TIME INDIVIDUAL PARTICLE
2:20 PM ANALYZE
 *PETER T. A. REILLY, William A. Harris, William B. Whitten, J. Michael Ramsey, Oak Ridge
 National Laboratory, Oak Ridge, TN*
- 3D3 INVESTIGATION OF A SINGLE WIRE CORONA CHARGER
2:40 PM *GEORGE BISKOS, Nick Collings, Cambridge University Engineering Department,
 Cambridge, UK*
- POSTER PREVIEW
3:00 PM *This session ends with a brief presentation of posters 3PD4-3PD11 (1 min each).*

Technical Program (updated August 27, 2003)

- 3E Combustion and Environmental Aerosol Formation I** *Palos Verdes A/B*
Chair: Kimberly Prather, Co-chair: Glenn England *2:00 PM - 3:15 PM*
- 3E1 THE POTENTIAL FOR USING AEROSOL TIME-OF-FLIGHT MASS SPECTROMETRY
2:00 PM (ATOFMS) FOR SOURCE APPORTIONMENT
KIMBERLY PRATHER, Sergio Guazzotti, Michele Sipin, David Sodeman, Yongxuan Su,
University of California, San Diego, La Jolla, CA; David Suess, UC Riverside, Riverside, CA
- 3E2 OXYGENATED ORGANIC COMPOUNDS PRESENT IN MOTOR VEHICLE EMISSIONS
2:20 PM *CHRIS JAKOBER, Hugo Destailats, Peter Green, University of California, Davis; M. Judith*
Charles, University of California, Davis
- 3E3 SPECIATION OF PARTICLE-PHASE EMISSIONS FROM THE COMBUSTION OF RESIDUAL
2:40 PM AGRICULTURAL BIOMASS OF THE WESTERN UNITED STATES
MICHAEL HAYS, US EPA, Research Triangle Park; NC; Philip Fine, USC, Los Angeles, CA;
Michael Kleeman, University of California Davis; N. Dean Smith, Christopher Geron, Brian
Gullett, US EPA, Research Triangle Park; NC
- 3:00 PM POSTER PREVIEW
This session ends with a brief presentation of posters 3PE4-3PE11 (1 min each).

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Platform Session #4

3:45 PM - 5:00 PM

4A Indoor Aerosols I

Laguna A/B

Chair: Antonio Miguel, Co-chair: Andrea Ferro

3:45 PM - 5:00 PM

4A1 "IN-CABIN" MEASUREMENTS OF ULTRAFINE & NANOPARTICLES IN A PASSENGER CAR
3:45 PM EQUIPPED WITH A HEPA/ACTIVATED CARBON FILTER SYSTEM: LOS ANGELES
FREEWAYS AND SURFACE STREETS

ANTONIO MIGUEL, *University of California, Los Angeles, CA*; Dane Westerdahl, *California Air Resources Board, Sacramento, CA*; Constantinos Sioutas, *University of Southern California, Los Angeles, CA*

4A2 INDOOR/OUTDOOR PARTICULATE CARBON AND GAS/PARTICLE PARTITIONING IN
4:05 PM SEATTLE

LARA GUNDEL, *Yanbo Pang, Lawrence Berkeley National Laboratory, Berkeley, CA*; L. J. (Sally) Liu, *University of Washington, Seattle, WA*; Candis Claiborn, *Washington State University, Pullman, WA*

4A3 COMPARISON OF LASER PARTICLE COUNTER, NEPHELOMETER AND GRAVIMETRIC
4:25 PM MEASUREMENTS IN AN INDOOR AIR INFILTRATION EXPERIMENT.

ROYAL KOPPERUD, *Department of Civil and Environmental Engineering, Stanford University, Stanford, CA*; Andrea Ferro, *Department of Civil and Environmental Engineering, Clarkson University, Potsdam, NY*; Lynn Hildemann, *Department of Civil and Environmental Engineering, Stanford University, Stanford CA*

POSTER PREVIEW

4:45 PM *This session ends with a brief presentation of posters 4PA4-4PA7 (1 min each).*

4B Filtration

Avila A/B

Chair: Tom Peters, Co-chair: John Volckens

3:45 PM - 5:00 PM

4B1 EFFECT OF BREATHING AIRFLOW PATTERN ON AEROSOL FILTRATION EFFICIENCY
3:45 PM OF COMMERCIAL RESPIRATOR FILTERS

KENT C. HOFACRE, *Aaron W. Richardson, Battelle, Columbus, OH*

4B2 FEEDBACKS IN PARTICLE DEPOSITION IN FIBROUS FILTERS

4:05 PM

CHARLES CLEMENT, *Enviros-QuantiSci, Wantage; Oxon U.K.*; Sarah Dunnett, *Loughborough University, Loughborough; Leics, U.K.*

4B3 A PARAMETRIC STUDY OF TRANSPORT OF AEROSOL PARTICLES IN A
4:25 PM HETEROGENEOUS SHREDDED POROUS MEDIA

Mohammad S. Saidi, *Philip Morris USA, Richmond, VA (on sabbatical leave from Isfahan University)*; PETER J. LIPOWICZ, *Ken H. Shafer, Philip Morris USA, Richmond, VA*

POSTER PREVIEW

4:45 PM *This session ends with a brief presentation of posters 4PB4-4PB9 (1 min each).*

Technical Program (updated August 27, 2003)

- 4C Source Apportionment II** *El Capitan A/B*
Chair: James Schauer, Co-chair: Beverly Cohen *3:45 PM - 5:00 PM*
- 4C1 SOURCE APPORTIONMENT OF PRIMARY ORGANIC PM_{2.5} IN THE PITTSBURGH REGION
3:45 PM *ALLEN ROBINSON, R. Subramanian, Department of Mechanical Engineering, Carnegie Mellon University, Pittsburgh, PA; Juan Cabada, Spyros Pandis, Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, PA; Anna Bernardo-Bicker, Wolfgang Rogge, Department of Civil & Environmental Engineering; Florida International University, Miami, FL*
- 4C2 ORGANIC COMPOUND TRACERS OF PRIMARY AND SECONDARY SOURCES OF FINE AND ULTRAFINE PM IN THE LOS ANGELES BASIN
4:05 PM *PHILIP M. FINE, Bhabesh Chakrabarti, University of Southern California, CA; Meg Krudysz, University of California, Los Angeles, CA; James J. Schauer, University of Wisconsin, Madison, WI; Constantinos Sioutas, University of Southern California, Los Angeles, CA*
- 4C3 COMPOSITION, SIZE DISTRIBUTION AND SOURCES OF AEROSOLS IN SOUTH ASIA
4:25 PM *LIAQUAT HUSAIN, Abdul J. Khan, Wadsworth Center, Albany, New York; Jianjun Li, Dept. of Environmental Health and Toxicology, SUNY, Albany, New York; Adil R. Khan, Rudolf Addink, Wadsworth Center, Albany, NY*
- 4:45 PM POSTER PREVIEW
This session ends with a brief presentation of posters 4PC4-4PC12 (1 min each).
- 4D Long-Range Transport** *Huntington A/B/C*
Chair: Tymon Zielinski, Co-chair: Sara Pryor *3:45 PM - 5:00 PM*
- 4D1 ORGANIC CARBON CONTENT OF SUBMICRON ATMOSPHERIC AEROSOLS OF REMOTE CONTINENTAL AREAS.
3:45 PM *PETER KUTSENOGIY, Valeri Makarov, Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia*
- 4D2 LIDAR OBSERVATIONS OF SAHARAN DUST AND REGIONAL POLLUTION EVENTS OVER THE NORTHEASTERN IBERIAN PENINSULA IN THE FRAME OF EARLINET
4:05 PM *Carlos Perez, Pedro Jimenez, Laboratory of Environmental Modeling. UPC, Barcelona, Spain; Francesc Rocadenbosch, Department of Signal Theory and Communications. UPC, Barcelona, Spain; JOSE M. BALDASANO, Laboratory of Environmental Modeling. UPC, Barcelona, Spain*
- 4D3 DUST STORM FORECASTING USING MM5 WEATHER DATA AND THE CARMA DUST MODEL
4:25 PM *BEN BARNUM, Nathaniel Winstead, Johns Hopkins University, Applied Physics Laboratory, Laurel, MD; Paul Ginoux, Peter Colarco, NASA GSFC, Goddard Space Flight Center, Greenbelt, MD; Jeremy Wesely, Gordon Brooks, Amy Hakola, United States Air Force Weather Agency, Omaha, NB; Owen Toon, University of Colorado PAOS Group, Boulder, CO*
- 4:45 PM POSTER PREVIEW
This session ends with a brief presentation of posters 4PD4-4PD11 (1 min each).

Technical Program (updated August 27, 2003)

- 4E Sampling Inlets** *Palos Verdes A/B*
Chair: Paul Baron, Co-chair: Heinz Fissan *3:45 PM - 5:00 PM*
- 4E1 DEVELOPMENT AND EVALUATION OF A HIGHLY EFFICIENT ELECTROSTATIC GAS
3:45 PM PARTICLE SEPARATOR WITH MINIMAL EFFECT ON THE GAS PHASE
*HEINZ FISSAN, Christof Asbach, University Duisburg-Essen, Duisburg; Germany; Thomas
Kuhlbusch, Instiut fuer Energie- und Umwelttechnik, IUTA e.V, Duisburg; Germany*
- 4E2 OPTIMAL CAPILLARY GEOMETRIES FOR PARTICLE SELECTION AND FOCUSING
4:05 PM *PRACHI MIDDHA, University of Delaware, Newark,DE; Anthony Wexler, University of
California, Davis*
- 4E3 A NEW TWO-STAGE DIFFUSER AEROSOL INLET SYSTEM FOR RESEARCH AIRCRAFT
4:25 PM *FRED BRECHTEL, Brechtel Mfg. Inc., Hayward, CA; Markus Hermann, Institute for
Tropospheric Research, Leipzig; Germany; Alexander Laskin, Martin Iedema, Pacific
Northwest National Laboratory, Richland, WA*
- 4:45 PM POSTER PREVIEW
This session ends with a brief presentation of posters 4PE4-4PE11 (1 min each).

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

AAAR Annual Business Meeting

5:00 PM - 6:00 PM

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All AAAR members are invited to attend.

Technical Program (updated August 27, 2003)

Tuesday, October 21, 2003

Poster Session #1, Exhibits and Exhibits Reception

6:00 PM - 8:30 PM

Pacific Ballroom D

1PA Fundamental Aerosol Physics

Pacific Ballroom D

6:30 PM - 7:30 PM

- 1PA4 GENERALIZED DRAG FORCE LAW OF SPHERICAL PARTICLES AND ON THE
LIMITATION OF STOKES-CUNNINGHAM FORMULA
ZHIGANG LI, Hai Wang, University of Delaware, Newark, DE
- 1PA5 MEASUREMENT OF GRAVITATIONAL SETTLING VELOCITY OF BIOLOGICAL PARTICLES
USING PARTICLE IMAGE VELOCIMETRY
*CARSIE HALL, Sreechakradhar Masabattula, Kazim Akyuzlu, University of New Orleans,
New Orleans, LA; Maren Klich, US Department of Agriculture, New Orleans, LA*
- 1PA6 DEVELOPMENT AND ASSESSMENT OF AN INTEGRATED AEROSOL PROGRAM FOR
UNDERGRADUATE EDUCATION
*PRATIM BISWAS, Prakash Kumar, Washington University, Saint Louis, MO; Anne Donnelly,
Heath Wintz, Chang-Yu Wu, Robert Roberg, Priscilla Chapman, Anne L. Allen, University of
Florida, Gainesville, FL*
- 1PA7 ESTABLISHMENT AND MAINTENANCE OF A DATABASE SYSTEM ON THE PROFICIENCY
OF STACK SAMPLING
*CHIH-CHIEH CHEN, Tzu-Ting Yang, Chia-Wei Hsu, Yu-Huei Doong, Fu-Tien Jeng, National
Taiwan University, Taipei, Taiwan; Sheng-Hsiu Huang, Chun-Wan Chen, Institute of
Occupational Safety and Health, Taipei, Taiwan*
- 1PA8 PARTICLE CHARGING BY ION COLLISION IN THE TRANSITION REGIME
EVA M. CRESPO, Da-Ren Chen, Washington University, St. Louis, MO
- 1PA9 EFFECTS OF THE EXTERNAL ELECTRIC FIELD ON THE ELECTROSPRAY
CHARACTERISTICS
*KYOUNGTAE KIM, Hyungho Park, Sangsoo Kim, Korea Advanced Institute of Science and
Technology, Daejeon, Korea*
- 1PA10 COAGULATION SIMULATION AND INFERENCE OF INITIAL PARTICLE SIZE
DISTRIBUTIONS
*PENGZHI JIANG, Joann Lighty, Adel Sarofim, Eric Eddings, University of Utah, Salt Lake
City, UT*
- 1PA11 AN EXPERIMENTAL STUDY ON TURBULENT AND BROWNIAN COAGULATION
DAE SEONG KIM, Ken W. Lee, Kwangju Institute of Science and Technology, Gwangju, Korea
- 1PA12 ON BUBBLE MOTIONS IN SIMPLE SHEAR FLOW
WEI CHEN, Goodarz Ahmadi, Jeffrey A. Taylor, Clarkson University, Potsdam, NY

Technical Program (updated August 27, 2003)

1PB Marine Aerosols

Pacific Ballroom D

6:30 PM - 7:30 PM

- 1PB4 PARTITIONING AND FLUXES OF OXIDIZED NITROGEN IN THE MARINE BOUNDARY LAYER.
SARA PRYOR, Indiana University, Bloomington; IN; Lise Lotte Soerenson, Risoe National Laboratory, Roskilde, Denmark
- 1PB5 CHARACTERIZATION OF AEROSOL OVER THE NORTH PACIFIC
LISA PHINNEY, Dalhousie University, Halifax, NS, Canada; Richard Leaitch, Meteorological Service of Canada, Toronto, ON, Canada; Ulrike Lohmann, Dalhousie University, Halifax, NS, Canada; Hacene Boudries, Aerodyne Research Inc., Billerica MA; Desiree Toom-Sauntry, Meteorological Service of Canada, Toronto, ON, Canada
- 1PB6 OPTICAL PROPERTIES OF AEROSOL PARTICLES OVER THE NORTHEAST PACIFIC
JULIA MARSHALL, Ulrike Lohmann, Dalhousie University, Halifax, NS, Canada; Richard Leaitch, Atmospheric Environment Service, Downsview, ON, Canada
- 1PB7 MARINE AEROSOLS OVER THE NORTH ATLANTIC OCEAN - NORTH AMERICAN AND EUROPEAN INFLUENCES
M. JOÃO NUNES, M. Filomena Camões, University of Lisbon, Lisbon, Portugal; Francis McGovern, Environmental Protection Agency, Dublin, Wexford, Ireland; Sebastião Santos, Frank Raes, EU Commission/JRC, Institute for Environment and Sustainability, Ispra (Varese), Italy
- 1PB8 TRACE METALS IN MARINE AEROSOL COMPOSITION OVER PORTUGUESE COASTAL AREA FROM FEBRUARY TO MARCH 2000
A. RITA MOREIRA, M. João Nunes, Liliana Quintão, M. Filomena Camões, CECUL/DQB, University of Lisbon, Lisbon, Portugal
- 1PB9 ORGANIC ENRICHMENT IN SEA SPRAY AEROSOL GENERATED IN AN OCEAN BIOME
COREY A. TYREE, Olga A. Alexandrova, Jonathan O. Allen, Arizona State University, Tempe, AZ
- 1PB10 OBSERVATION OF NUCLEATION EVENTS IN REMOTE COASTAL ENVIRONMENT IN NORTHERN CALIFORNIA
JIAN WEN, Anthony S. Wexler, University of California, Davis, CA

Technical Program (updated August 27, 2003)

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| 1PC | Nucleation and Ultrafine Aerosol | <i>Pacific Ballroom D 6:30 PM - 7:30 PM</i> |
| 1PC4 | CHARACTERISTICS OF NUCLEATION AND GROWTH EVENTS OF ULTRAFINE PARTICLES MEASURED IN ROCHESTER, NY: EFFECT OF SO ₂ AND WIND DIRECTION. <i>CHEOL-HEON JEONG, Philip K. Hopke, Clarkson University, Potsdam, NY; David Chalupa, Mark Utell, University of Rochester Medical Center, Rochester, NY; Henry Felton, New York State Department of Environmental Conservation, Albany, NY</i> | |
| 1PC5 | URBAN AEROSOL MEASUREMENTS IN NEW DELHI, INDIA <i>PETTERI MŠNKKŠNEN, Ismo K. Koponen, University of Helsinki, Finland; R. Uma, Energy and Resources Institute, New Delhi, India; Kari E.J. Lehtinen, Kaarle HŠmeri, Markku Kulmala, University of Helsinki, Finland</i> | |
| 1PC6 | SEASONAL AND SPATIAL VARIABILITY OF THE SIZE-RESOLVED CHEMICAL COMPOSITION OF ULTRAFINE AND FINE PM IN THE LOS ANGELES BASIN <i>SATYA BRATA SARDAR, Michael D. Geller, Philip M. Fine, Constantinos Sioutas, University of Southern California, Los Angeles, CA; Paul Mayo, University of California, Los Angeles, CA</i> | |
| 1PC7 | MODELING OF REGIONAL NUCLEATION EVENTS OCCURRING DURING PAQS <i>TIMOTHY M. GAYDOS, Charlie O. Stanier, Spyros N. Pandis, Carnegie Mellon University, Pittsburgh, PA</i> | |
| 1PC8 | MEASUREMENT OF MEXICO CITY ULTRAFINE AEROSOL SIZE DISTRIBUTIONS: OBSERVATIONS OF NEW PARTICLE FORMATION AND GROWTH <i>JAMES N. SMITH, National Center for Atmospheric Research, Boulder, CO; Matthew Dunn, Jose-Luis Jimenez, University of Colorado, Boulder, CO; Hiromu Sakurai, Ajaya Ghimire, Peter H. McMurry, University of Minnesota, Minneapolis, MN; Fred L. Eisele, National Center for Atmospheric Research, Boulder, CO; Telma Castro, Darrel Baumgardner, Universidad Nacional Aut—noma de MŽxico, Mexico City, Mexico</i> | |
| 1PC9 | CONTINUOUS MEASUREMENT OF THE ATMOSPHERIC AEROSOL SIZE DISTRIBUTIONS IN ST. LOUIS, MO. <i>QIAN SHI, Hiromu Sakurai, Xiaoliang Wang, Peter H. McMurry, University of Minnesota, Minneapolis, MN</i> | |
| 1PC10 | HYGROSCOPICITY AND VOLATILITY OF ATMOSPHERIC ULTRAFINE PARTICLES DURING NUCLEATION EVENTS IN ATLANTA, GEORGIA <i>HIROMU SAKURAI, Ajaya Ghimire, Melissa Fink, Peter McMurry, University of Minnesota, Minneapolis, MN; James Smith, Lee Mauldin, Katharine Moore, Fred Eisele, National Center for Atmospheric Research, Boulder, CO; Didier Voisin, Universit'e de Provence, Aix-en-Provence, France</i> | |

Technical Program (updated August 27, 2003)

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| 1PD | Size-Resolved Sampling | <i>Pacific Ballroom D 6:30 PM - 7:30 PM</i> |
| 1PD4 | EVALUATION OF SOURCES FOR POTENTIAL CONTAMINATION OF QUARTZ FILTERS USED FOR DETERMINATION OF ORGANIC AND ELEMENTAL CARBON AEROSOL <i>DAVID F. SMITH, Robert A. Cary, Sunset Laboratory Inc., Hillsborough, NC; Jon J. Bowser, MACTEC Inc., Gainesville, FL</i> | |
| 1PD6 | REAL-TIME ANALYSIS OF ORGANIC COMPONENTS IN ULTRAFINE PARTICLES WITH AN AEROSOL MASS SPECTROMETER <i>BERK OKTEM, Michael Tolocka, Murray Johnston, University of Delaware, Newark, DE</i> | |
| 1PD7 | ANNULAR AQUEOUS DENUDER FOR SHORT TERM FILTER MEASUREMENTS IN SATURATED ENVIRONMENTS <i>JON VOLKWEIN, Steve Mischler, Robert Vinson, CDC NIOSH, Pittsburgh, PA ; Peter Hall, Eric Crookston, SKC Inc., Eighty Four, PA</i> | |
| 1PD8 | CHARACTERIZING CALIBRATION FACTORS USED IN ESTIMATING MASS CONCENTRATIONS OF AMBIENT AEROSOLS IN AERODYNE AEROSOL MASS SPECTROMETER (AMS) <i>ROYA BAHREINI, Richard C. Flagan, John H. Seinfeld, California Institute of Technology, Pasadena, CA</i> | |
| 1PD9 | MINIATURIZED SYSTEMS FOR PARTICLE EXPOSURE ASSESSMENT <i>LARA GUNDEL, Michael Apte, Anthony Hansen, Douglas Black, Lawrence Berkeley National Laboratory, Berkeley, CA</i> | |
| 1PD10 | P-CONSEP (TM): DESIGN OF A NOVEL PARTICLE CONCENTRATOR <i>LISA GRAHAM, Environment Canada, Ottawa, ON, Canada; Gordon Johnston, Ben Etkin, AERCOL, Ottawa, ON, Canada</i> | |
| 1PD11 | DEVELOPMENT OF A PORTABLE NANOMETER AEROSOL SIZE ANALYZER (NASA) <i>NALIN PERERA, Daren Chen, Washington University, St. Louis, MO</i> | |

Technical Program (updated August 27, 2003)

1PE Materials Synthesis and Aerosol Analysis

Pacific Ballroom D

6:30 PM - 7:30 PM

- 1PE4 MONTE CARLO SIMULATION OF AEROSOLS WITH MOVING BINS
ZHEN SUN, Rich Axelbaum, Washington University, St. Louis, MO
- 1PE5 INTRAPARTICLE REACTION ROUTES FOR MANUFACTURE OF METAL-CONTAINING
MICRO- TO NANO-MATERIALS
TOIVO KODAS, Mark Hampden-Smith, Superior MicroPowders, Albuquerque, NM
- 1PE6 STRUCTURAL PROPERTIES OF DIESEL PARTICLES MEASURED USING TRANSMISSION
ELECTRON MICROSCOPE: RELATIONSHIPS TO PARTICLE MOBILITY AND MASS
KIHONG PARK, David Kittelson, Peter McMurry, University of Minnesota, Minneapolis, MN
- 1PE7 SINGLE PARTICLE ANALYSIS OF A MINUTEMAN SR19 II ROCKET MOTOR EXHAUST
PLUME USING AEROSOL TIME-OF-FLIGHT MASS SPECTROMETRY
*STEPHEN TONER, David Sodeman, Kimberly Prather, University of California San Diego, La
Jolla, CA*
- 1PE8 DESIGN AND VERIFICATION OF A DIRECT EXHAUST HOOKUP MOBILE EMISSIONS
*DAVID COCKER, Sandip Shah, Kent Johnson, Wayne Miller, Joseph Norbeck,
CE-CERT/University of California, Riverside, CA*
- 1PE9 STACK SAMPLING WITH DILUTION FOR FINE PARTICLE MEASUREMENT
PIRITA MIKKANEN, Erkki Lamminen, Johanna Ojanen, Dekati Ltd., Tampere, Finland
- 1PE10 PARTICLE SPECIATION AND EMISSION PROFILES OF SMALL 2-STROKE ENGINES
JOHN VOLCKENS, US EPA, Research Triangle Park, NC
- 1PE11 PARTICLE FORMATION AND ITS EFFECT ON SILICON WAFER CONTAMINATION
DURING THIN FILM PREPARATION USING TEOS/OXYGEN PLASMA
*Manabu Shimada, Heru Setyawan, Yutaka Hayashi, Nobuki Kashihara, Kikuo Okuyama,
Hiroshima University, Hiroshima, Japan*

Technical Program (updated August 27, 2003)

2PA Nanoparticles I

Pacific Ballroom D

6:30 PM - 7:30 PM

- 2PA5 AEROSOL PHASE OXIDE COATED SILICON NANOPARTICLE PRODUCTION FOR 300 MM MEMORY DEVICE PROCESSES
DEAN HOLUNGA, R. C. Flagan, Caltech, Pasadena, CA
- 2PA6 MORPHOLOGY OF NANOSTRUCTURED DEPOSITS: SIMULATION USING BROWNIAN DYNAMICS
PRATIM BISWAS, Pramod Kulkarni, Washington University in St. Louis
- 2PA7 IN-SITU DEPOSITION OF SI-TI-N FILMS USING NANOPARTICLES SYNTHESIZED IN A THERMAL PLASMA PROCESS.
JAMI HAFIZ, Xiaoliang Wang, Thierry Renault, Rajesh Mukherjee, Ashok Gidwani, Dept. of Mechanical Engineering, University of Minnesota, Minneapolis, MN; William Mook, Christopher Perrey, C. Barry Carter, William Gerberich, Dept. of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN; Joachim Heberlein, Peter McMurry, Steven Girshick, Dept. of Mechanical Engineering, University of Minnesota, Minneapolis, MN
- 2PA8 MECHANICAL PROPERTIES OF COPPER NANOPARTICLE CHAIN AGGREGATES UNDER STRAIN - A MOLECULAR DYNAMICS STUDY
ADAMOS DALIS, Sheldon Friedlander, UCLA, Los Angeles, CA
- 2PA9 MODELING OF NANOPARTICLE DEPOSITION IN STAGNATION FLOW ON A FINITE PLATE WITHIN A TUBULAR AEROSOL REACTOR
QUYNH NGUYEN, Sheryl Ehrman, University of Maryland, College Park MD
- 2PA10 MICROMIXING OF DROPLETS IN ROTATING POROUS MATERIALS
JUNYA NUMURA, Yoshio Otani, Norikazu Namiki, Kanazawa University, Japan
- 2PA11 SPECIFICS OF INTERACTION OF CLUSTER NANOPARTICLES (CNPS) WITH METALLIC SURFACE
ANATOLIY SUSLOV, UCSB, Goleta CA
- 2PA12 BONDING ENERGY OF CLUSTER NANOPARTICLES (CNPS)
ANATOLIY SUSLOV, UCSB, Goleta, CA

Technical Program (updated August 27, 2003)

2PB Climate/Remote Sensing/Free Troposphere

Pacific Ballroom D

6:30 PM - 7:30 PM

- 2PB5 IN SITU AEROSOL SIZE DISTRIBUTIONS AND RADIATIVE CLOSURE STUDY DURING AEROSOL INTENSIVE OPERATION PERIOD (ARM-IOP)
JIAN WANG, Yin-nan Lee, Linda Nunnermacker, Brookhaven National Laboratory, Upton, NY; Zhiguang Song, Guangzhou Institute of Geochemistry, Guangzhou, China
- 2PB6 MASS SPECTROMETRIC AEROSOL COMPOSITION MEASUREMENTS IN THE TROPOPAUSE REGION
JOHANNES SCHNEIDER, Max Planck Institute for Chemistry, Cloud Physics and Chemistry Department, Mainz;Germany; Joachim Curtius, Frank Drewnick, University of Mainz, Institute for Atmospheric Physics, Mainz; Germany; Silke Henseler, Nele Hock, Silke Weimer, Max Planck Institute for Chemistry, Cloud Physics and Chemistry Department, Mainz;Germany; Stephan Borrmann, University of Mainz, Institute for Atmospheric Physics, Mainz;Germany
- 2PB7 CHARACTERIZATION OF TROPICAL WINTER HAZE AEROSOLS AND PRE-CURSOR GASES DURING 1998-2003 USING GROUND-BASED SOLAR RADIOMETRY
DEVARA PANUGANTI, S.M. Sonbawne, S.K. Saha, A.K. Srivastava, R.S. Maheskumar, G. Pandithurai, K.K. Dani and P. E. Raj; Indian Institute of Tropical Meteorology, Pune, India
- 2PB8 AEROSOL OPTICAL THICKNESS DETERMINATION USING SEAWIFS OVER GOSAN, KOREA DURING THE 2001 ACE-ASIA IOP
Kwon Ho Lee, Young Joon Kim, Wolfgang Hoyningen-Huene, K-JIST, Gwangju, Korea
- 2PB9 AEROSOL SPECTRAL OPTICAL DEPTHS AND SIZE CHARACTERISTICS AT A COASTAL INDUSTRIAL LOCATION IN INDIA- EFFECT OF SYNOPTIC AND MESOSCALE WEATHER
NIRANJAN KANDULA, Andhra University, Visakhapatnam, INDIA
- 2PB10 SATELLITE AND IN SITU MEASUREMENTS OF AEROSOLS AVAILABLE FROM THE NASA LANGLEY ATMOSPHERIC SCIENCES DATA CENTER
LINDA HUNT, Jim Hoell, Kathleen Morris, Nancy Ritchey, R. K. Seals, NASA LaRC Atmospheric Sciences Data Center/SAIC, Hampton, VA
- 2PB11 MEASUREMENT OF THE OPTICAL EXTINCTION OF AEROSOL WITH THE CAVITY RING-DOWN TECHNIQUE
ANDERS PETTERSSON, Ned Lovejoy, Chuck Brock, Steve Brown, A. R. Ravishankara, NOAA Aeronomy Laboratory, Boulder, Colorado
- 2PB12 VERTICALLY RESOLVED AEROSOL OPTICAL PROPERTIES OVER THE ARM SGP SITE
BEAT SCHMID, BAER Inst. Sonoma, CA; Hafliði Jonsson, CIRPAS; Anthony Strawa, NASA Ames, Moffett Field, CA; Robert Provenal, Picarro Inc. Sunnyvale, CA; David Covert, Univ. of Wahington, Seattle, WA; W. Patrick Arnott, DRI, Reno, NV; Anthony Bucholtz, NRL, Monterey, CA; Peter Pilewskie, NASA Ames, Moffett Field, CA; John Pommier, BAER Inst. Sonoma, CA; Tracey Rissman, Tim Vanrecken, John Seinfeld, Richard Flagan, Caltech, Pasadena, CA; Jens Redemann, BAER Inst. Sonoma, CA; James Eilers, NASA Ames, Moffett Field, CA; Jian Wang, Brookhaven National Lab, Upton, NY

Technical Program (updated August 27, 2003)

2PC Rural Aerosols

Pacific Ballroom D

6:30 PM - 7:30 PM

- 2PC5 AEROSOL LIGHT SCATTERING MEASUREMENTS AS A FUNCTION OF RELATIVE HUMIDITY AT YOSEMITE NATIONAL PARK
DEREK DAY, Colorado State Univ., Fort Collins, CO; William Malm, National Park Service, Fort Collins, CO
- 2PC6 ON THE SPECIATION AND MEASUREMENT OF AEROSOL NITRATE IN REGIONAL AEROSOLS
JEFFREY COLLETT, Colorado State University, Fort Collins, CO; Taehyoung Lee, Xiao-ying Yu, Sonia Kreidenweis, CSU; William Malm, National Park Service
- 2PC7 SPATIAL AND TEMPORAL CHARACTERIZATION OF PARTICULATE MATTER IN CALIFORNIA
NEHZAT MOTALLEBI, California Air Resources Board
- 2PC8 AMBIENT PARTICULATE MATTER MEASUREMENTS AT TWO RURAL SITES IN THE MIDWESTERN UNITED STATES
Neil D. Deardorff, JAY R. TURNER, Washington University, St. Louis, MO
- 2PC9 CHARACTERIZATION OF AMBIENT AEROSOLS AT EGBERT, ONTARIO USING AERODYNE AEROSOL MASS SPECTROMETER
MAHESWAR RUPAKHETI, Ulrike Lohmann, Department of Physics and Atmospheric Sciences, Dalhousie University, Halifax, NS, Canada; Shao-meng Li, W. Richard Leith, Air Quality Research Branch, Toronto, ON, Canada; Douglas R. Worsnop, Aerodyne Research Incorporated, Billerica, MA
- 2PC10 COMPARISON OF SPECIATED PM10 AND PM2.5 SAMPLES AT SELECTED IMPROVE SAMPLING SITES
LOWELL ASHBAUGH, Charles McDade, University of California, Davis
- 2PC11 SPECIATED FINE PARTICLE DEPOSITION VELOCITIES OVER A FOREST CANOPY MEASURED BY EDDY-CORRELATION MASS SPECTROMETRY
DANIEL A. GONZALES, Jonathan O. Allen, Arizona State University, Tempe, AZ; Alice E. Delia, Jose L. Jimenez, University of Colorado at Boulder; Kenneth A. Smith, Massachusetts Institute of Technology, Cambridge, MA; John T. Jayne, Manjula R. Canagaratna, Douglas R. Worsnop, Aerodyne Research, Inc., Billerica, MA

Technical Program (updated August 27, 2003)

2PD Aerosol Chemistry I

Pacific Ballroom D

7:30 PM - 8:30 PM

- 2PD5 CHARACTERIZATION OF SECONDARY ORGANIC AEROSOL FORMATION AT ULTRA-LOW NOX AND HYDROCARBON LOADINGS IN A NEW ENVIRONMENTAL CHAMBER FACILITY
CHEN SONG, David Cocker, Kwangsam Na, CE-CERT/UC Riverside, Riverside, CA
- 2PD6 A COMPOSITIONAL STUDY OF SECONDARY ORGANIC AEROSOLS FORMED IN SOME CYCLOALKENE-OZONE AND TERPENE-OZONE SYSTEMS
SONG GAO, Melita Keywood, Varuntida Varutbangkul, Roya Bahreini, Richard Flagan, John Seinfeld, California Institute of Technology, Pasadena, CA
- 2PD7 HETEROGENEOUS INTERACTIONS OF ACETALDEHYDE AND SULFURIC ACID
REBECCA R. MICHELSEN, Samantha F. M. Ashbourn, Laura T. Iraci, NASA Ames Research Center, Moffett Field, CA
- 2PD8 DESIGN AND MEASUREMENT CAPABILITIES OF A NEXT-GENERATION INDOOR ENVIRONMENTAL CHAMBER FACILITY FOR THE STUDY OF SECONDARY ORGANIC AEROSOL FORMATION
DAVID COCKER, Dennis Fitz, William Carter, CE-CERT/UC Riverside, Riverside, CA
- 2PD9 OBSERVATION OF OLIGOMERIC SPECIES IN SECONDARY ORGANIC AEROSOLS
MICHAEL TOLOCKA, University of Delaware, Newark, DE; Myoseon Jang, University of North Carolina, Chapel Hill, NC; Joy Ginter, Frederick Cox, University of Delaware, Newark, DE; Richard Kamens, University of North Carolina, Chapel Hill, NC; Murray Johnston, University of Delaware, Newark, DE
- 2PD10 ATMOSPHERIC TRANSFORMATIONS OF ULTRAFINE TRANSITION METAL PARTICLES.
MICHELLE WERNER, Cort Anastasio, University of California, Davis, CA; Peter Nico, California State University Stanislaus, Turlock, CA; Bing Guo, Ian Kennedy, University of California, Davis, CA
- 2PD11 QUANTITATIVE ASSESSMENT OF METAL-BEARING DIESEL NANOPARTICLES USING SINGLE PARTICLE MASS SPECTROMETRY
DONGGEUN LEE, Pusan National University, Busan, South Korea; Art Miller, David Kittelson, Michael R. Zachariah, University of Minnesota, Minneapolis, MN
- 2PD12 INTERNAL LIGHT INTENSITY DISTRIBUTIONS AND ENHANCED PHOTOLYSIS IN AEROSOL DROPLETS
CHRISTOPHER KNOX, University of California, Irvine; Leon Phillips, University of Canterbury, New Zealand

Technical Program (updated August 27, 2003)

2PE Control Technology I

Pacific Ballroom D

7:30 PM - 8:30 PM

- 2PE5 FILTRATION OF SEMIVOLATILE AEROSOLS
DAVID KANE, Philip Morris USA, Richmond, VA; Ramin Mortazavi, Timothy Cameron, Virginia Commonwealth University, Richmond, VA ; Peter Lipowicz, Philip Morris USA, Richmond, VA
- 2PE6 EMISSIONS OF TOXIC POLLUTANTS FROM COMPRESSED NATURAL GAS AND ULTRA-LOW SULFUR DIESEL-FUELED TRANSIT BUSES WITH AND WITHOUT AFTER-TREATMENT DEVICES
NORMAN Y. KADO , Robert A. Okamoto, Paul A. Kuzmicky, Reiko Kobayashi, Alberto Ayala, Michael E. Gebel, Paul L. Rieger, Christine Maddox, Leo Zafonte, California Environmental Protection Agency, Air Resources Board, Sacramento, CA and El Monte, CA and Davis, CA
- 2PE7 THE EFFECT OF PARTICLE SIZE DISTRIBUTION ON THE PRESSURE DROP OF FABLIC FILTERS
CHANG BYUNG SONG, Kwangju Institute of Science and Technology, Gwangju, Korea
- 2PE8 MEASUREMENT OF ELECTRICAL CHARGE DENSITY OF MELT-BLOWN TYPE ELECTRET FILTER
MYONGHWA LEE, Washington University in St. Louis, MO; Pratim Biswas, Washington University in St.Louis, MO; Yoshio Otani, Norikazu Namiki, Kanazawa University, Japan
- 2PE9 ENHANCED NANOPARTICLE FILTER PERFORMANCE BY AN IMPROVED NANOFIBER COMPOSITE
YU-DU HSU, Center for Environmental, Safety and Health Technology Development, Industrial Technology Research Institute, Chutung, Hsinchu, Taiwan ; Hung-min Chein, Center for Environmental, Safety and Health Technology Devel, Chutung, Hsinchu, Taiwan, Da-ren Chen, Department of Mechanical Engineering, Washington University in St. Louis,
- 2PE10 REMOVAL OF AIRBORNE FINE AND ULTRAFINE PARTICLES WITH A GRANULAR BED FILTER
FETHIYE OZIS, University of Southern California, Los Angeles, CA; Manisha Singh, Joseph Devanny, Constantinos Sioutas, University of Southern California, Los Angeles, CA

Technical Program (updated August 27, 2003)

3PA Particle Transport

Pacific Ballroom D

7:30 PM - 8:30 PM

- 3PA4 COMPRESSIBLE FLOW THROUGH AERODYNAMIC LENSES
RAVI CHAVALI, Clarkson University, Potsdam, NY
- 3PA5 AIRFLOW AND POLLUTANT TRANSPORT
KAMBIZ NAZRIDOUST, Goodarz Ahmadi, Clarkson University, Potsdam, NY
- 3PA6 DIRECT NUMERICAL SIMULATION OF TURBULENT AEROSOL TRANSPORT IN A STRAIGHT SQUARE DUCT
GAURAV SHARMA, Denis Phares, Texas A&M University, College Station, TX
- 3PA7 CRCD-A WEB-BASED COURSE SEQUENCE FOR PARTICLE TRANSPORT, DEPOSITION AND REMOVAL
GOODARZ AHMADI, John McLaughlin, Cetin Cetinkaya, Stephen Doheny-Farina, Jeff Taylor, Suresh Dhaniyala, Clarkson University, Potsdam, NY; Fa-gung Fan, Xerox, Webster, NY
- 3PA8 THREE-PHASE TURBULENT FLOWS IN A BUBBLE COLUMN
XINYU ZHANG, Goodarz Ahmadi, Clarkson University, Potsdam, NY
- 3PA9 MODELING THERMOPHORETICALLY AUGMENTED PARTICLE-VAPOR DEPOSITION.
ANDREY FILIPPOV, Jia Liu, Corning Inc., Wilmington, NC
- 3PA10 NUMERICAL SIMULATION OF ELECTROHYDRODYNAMICS AND PARTICLE TRANSPORT IN A COROTRON
PARSA ZAMANKHAN, Goodarz Ahmadi, Clarkson University, Potsdam, NY; Fa-gung Fan, Xerox Corporation, Webster, NY
- 3PA11 BEHAVIOR OF RU IN HIGH TEMPERATURE OXIDISING CONDITIONS
ULRIKA BACKMAN, Ari Auvinen, Jorma Jokiniemi, VTT Processes, Finland

Technical Program (updated August 27, 2003)

3PB Long-Range Transport

Pacific Ballroom D

7:30 PM - 8:30 PM

- 3PB4 IMPACTS OF ASIAN CONTINENTAL CRUSTAL AEROSOLS OBSERVED AT SAKAI, OSAKA, JAPAN
TOSHIHIKO YOSHIDA, Akira Mizohata, Norio Ito, Research Institute for Advanced Science and Technology, Osaka Prefecture University, Osaka, Japan
- 3PB5 CORRELATED LEVELS OF PARTICULATE MATTER AND OZONE IN THE WESTERN MEDITERRANEAN BASIN: AIR QUALITY AND LIDAR MEASUREMENTS
Pedro Jimenez, Carlos Perez, Laboratory of Environmental Modeling. UPC, Barcelona, Spain; Alejandro Rodriguez, Department of Signal Theory and Communications. UPC, Barcelona, Spain; JOSE M. BALDASANO, Laboratory of Environmental Modeling. UPC, Barcelona, Spain
- 3PB6 THE INFLUENCE OF URBAN AEROSOL TRANSPORT ON LIGHT ABSORPTION AND SCATTERING IN THE SUPERSTITION WILDERNESS
CHARITY COURY, Ann Dillner, Arizona State University, Tempe, AZ
- 3PB7 OPTICAL PROPERTIES OF ATMOSPHERIC AEROSOL DURING DUST OUTBREAK, BIOMASS BURNING AND URBAN POLLUTION EPISODES IN KWANGJU, KOREA.
KEHINDE O. OGUNJOBI, Young J. Kim, Zhuanshi He, Kwangju Institute of Science and Technology, Kwangju, South Korea.
- 3PB8 WAVELET STRUCTURE OF ATMOSPHERIC TOTAL PROTEIN ON-GROUND CONCENTRATION IN THE VICINITY OF NOVOSIBIRSK CITY
ALEXANDER I. BORODULIN, Alexander S. Safatov, State Research Center of Virology and Biotechnology Vector, Koltsovo, Novosibirsk Region, Russia; Olga G. Khutorova, Kazan State University, Kazan, Russia; Konstantin P. Koutzenogii, Valerii I. Makarov, Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk, Russia
- 3PB9 AEROSOL CHEMISTRY DURING A SAHARAN DUST EPISODE IN AN ALPINE VALLEY
Gilles Aymoz, JEAN-LUC JAFFREZO, Laboratoire de Glaciologie et de GŽophysique de l'Environnem, Université Joseph Fourier, Cedex, France
- 3PB10 INFLUENCE OF THE SAHARIAN DUST ON AIRBORNE PARTICULATE MATTER LEVELS AT EASTERN OF SPAIN
VICENTE ESTEVE, Amparo Aparici, Francisco Ramos, Juana Maria Delgado, Gabriel Peris, University Jaume I, Castellon, Spain; Jose Maria Amigo, Universidad de Valencia, Valencia, Spain
- 3PB11 SIZE - RESOLVED CHEMICAL COMPOSITION AND OPTICAL PROPERTIES IN BEIJING, SPRING 2001
XIA SU, Ann Dillner, Arizona State University, Tempe, AZ; James Schauer, University of Wisconsin, Madison, WI; Michael Bergin, Georgia Institute of Technology, Atlanta, GA

Technical Program (updated August 27, 2003)

3PC Source Apportionment I

Pacific Ballroom D

7:30 PM - 8:30 PM

- 3PC4 SOURCE-RECEPTOR RELATIONS OF PM MASS FRACTIONS AND PARTICLE NUMBER CONCENTRATION
HELGER HAUCK, University of Vienna, Wien, Austria; Bostjan Gomiscek, Austrian Academy of Sciences; Hans Puxbaum, Vienna University for Technology; Silke Stopper, Othmar Preining, Austrian Academy of Sciences
- 3PC5 ADVANCED FACTOR ANALYSIS FOR AEROSOL COMPOSITION DATA WITH VARIOUS TEMPORAL RESOLUTIONS
LIMING ZHOU, Philip Hopke, Clarkson University, Potsdam, NY; Pentti Paatero, University of Helsinki, Finland
- 3PC6 COMPARISON OF THREE BACK TRAJECTORY BASED MODELS--PSCF, SQTBA, RESIDENCE-TIME WEIGHTED CONCENTRATION MODEL FOR IDENTIFYING PARTICLE SOURCES FOR POTSDAM AND STOCKTON, NEW YORK
LIMING ZHOU, Philip Hopke, Wei Liu, Clarkson University, Potsdam, NY
- 3PC7 SOURCES OF PM_{2.5} IN WASHINGTON, DC
EUGENE KIM, Philip Hopke, Clarkson University, Potsdam, NY
- 3PC8 COMPARISON OF POSITIVE MATRIX FACTORIZATION AND MULTILINEAR ENGINE FOR THE SOURCE APPORTIONMENT OF PM_{2.5} IN SEATTLE
EUGENE KIM, Philip Hopke, Clarkson University, Potsdam, NY; Timothy Larson, University of Washington, Seattle, WA; Joellen Lewtas, US EPA, Port Orchaard, WA; Naydene Maykut, Puget Sound Clean Air Agency, Seattle, WA
- 3PC9 SOURCES IDENTIFICATION OF AIRBORNE FINE PARTICLES AT MULTIPLE SITES
EUGENE KIM, Philip Hopke, Clarkson University, Potsdam, NY
- 3PC10 SOURCE IDENTIFICATION FOR THE AMBIENT AEROSOLS AT 3 IMPROVE SITES IN CANADA
WEIXIANG ZHAO, Philip Hopke, Clarkson University, Potsdam, NY
- 3PC11 SEASONAL VARIATIONS OF PARTICULATE ORGANIC MATTER COMPOSITION
Nicolas Marchand, Jean-luc Besombes, Pierre Masclat, Laboratoire de Chimie Moléculaire et Environnement, Université de Savoie/ESIGEC, France; Gilles Aymoz, JEAN-LUC JAFFREZO, Laboratoire de Glaciologie et de Géophysique de l'Environnement, Université Joseph Fourier, Saint Martin d'hères, France

Technical Program (updated August 27, 2003)

3PD Aerosol Instrumentation

Pacific Ballroom D

7:30 PM - 8:30 PM

- 3PD4 AN IMPROVED DATA INVERSION PROGRAM FOR OBTAINING AEROSOL SIZE DISTRIBUTIONS FROM SCANNING DIFFERENTIAL MOBILITY ANALYZER DATA
SUDDHA S. TALUKDAR, University at Buffalo (SUNY), Buffalo, NY; Peter S. K. Liu, University of Wyoming, Laramie, WY; Mark T. Swihart, University at Buffalo (SUNY), Buffalo, NY
- 3PD5 NUMERICAL MODELING OF A NANOPARTICLE VIRTUAL IMPACTOR.
Poshin Lee, University of Minnesota, Minneapolis, MN; GEORG PINGEN, Da-ren Chen, Washington University, St. Louis, MO
- 3PD6 PERFORMANCE AND ACCURACY OF THE INNOVATIVE FOUR-SENSOR TECHNIQUE IN MEASUREMENT OF SIZE AND OPTICAL PROPERTIES OF AEROSOLS
ATTILA NAGY, Research Institute for Solid State Physics and Optics, Budapest, Hungary; Wladyslaw Szymanski, Institute for Experimental Physics, University of Vienna, Vienna, Austria; Aladár Czitrovsky, Research Institute for Solid State Physics and Optics, Budapest, Hungary
- 3PD7 AN ELECTROSTATIC COLLECTOR FOR PM-2.5
ELIZABETH HOWARD, U.S. EPA ORD, Research Triangle Park, NC
- 3PD8 A UNIVERSAL CALIBRATION CURVE FOR THE TSI AERODYNAMIC PARTICLE SIZER
SHENG-CHIEH CHEN, Chuen-jinn Tsai, National Chiao Tung University, Hsin Chu, Taiwan; Cheng-hsiung Huang, Yuanpei University of Science and Technology, Hsinchu, Taiwan; Da-ren Chen, Washington University in St. Louis, St. Louis, MO
- 3PD9 PARTICLE COLLECTION EFFICIENCIES OF THE ALPHA CONTINUOUS AIR MONITORS (CAMS)
YUE ZHOU, Yung-sung Cheng, Thomas Holmes, Lovelace Respiratory Research Institute, Albuquerque; NM; Jun Gao, University of New Mexico, NM
- 3PD10 CAUSES OF CONCENTRATION DIFFERENCES BETWEEN A SCANNING MOBILITY PARTICLE SIZER AND A CONDENSATION PARTICLE COUNTER
PETER LIU, Terry Deshler, Department of Atmospheric Science, University of Wyoming, Laramie, WY
- 3PD11 AN AIRBORNE PARTICLE ANALYSIS PACKAGE FOR AN ION TRAP MASS SPECTROMETER
WILLIAM A. HARRIS, Peter T. A. Reilly, William B. Whitten, J. Michael Ramsey, Oak Ridge National Laboratory, Oak Ridge, TN

Technical Program (updated August 27, 2003)

- 3PE Combustion and Environmental Aerosol Formation I** *Pacific Ballroom D*
7:30 PM - 8:30 PM
- 3PE4 COMPARISON OF STATIONARY SOURCE DILUTION AND NON-DILUTION SAMPLING TECHNIQUES FOR FINE AND ULTRAFINE PARTICLE MEASUREMENTS ON A BACKUP GENERATOR DIESEL ENGINE
GLENN ENGLAND, Stephanie Wien, Oliver Chang, Aaron Mcgushion, GE EER Corporation, Irvine, CA;; Kent Johnson, William Welch, Wayne Miller, University of California at Riverside; Marla Mueller, California Energy Commission, Sacramento, CA; Barry Liebowitz, New York State Energy Research and Development Authority, Albany, NY; John Watson, Desert Research Institute, Reno, NV; Paul Drayton, Gas Technology Institute, Des Plaines, IL
- 3PE5 SIZE DISTRIBUTION DATA FROM THE 2002 YOSEMITE VISIBILITY STUDY
GAVIN MCMEEKING, Christian Carrico, Sonia Kreidenweis, Jeffrey Collett, Jr., Colorado State University, Ft. Collins, CO
- 3PE6 COMPARISON OF HIGH TEMPERATURE MECHANISMS FOR SCAVENGING OF SODIUM, LEAD AND CADMIUM IN COMBUSTION FLUE GASES
JOST WENDT, University of Arizona, Tucson, AZ; Thomas Gale, Southern Research Institute, Birmingham, AL
- 3PE7 EFFECTS OF DILUTION RATIO AND RESIDENCE TIME ON PRIMARY CARBON PARTICULATE EMISSIONS FROM A WOOD STOVE AND DIESEL ENGINE
ERIC LIPKSY, Department of Mechanical Engineering; Carnegie Mellon University, Pittsburgh, PA ; Emily Weitkamp, Allen Robinson, Department of Mechanical Engineering; Carnegie Mellon University, Pittsburgh, PA
- 3PE8 REAL-TIME SIMULTANEOUS MEASUREMENTS OF SIZE, DENSITY, AND COMPOSITION OF SINGLE ULTRAFINE DIESEL TAILPIPE PARTICLES
ALLA ZELENYUK/IMRE, Dan Imre, Pacific Northwest National Laboratory, Richland, WA; Jian Wang, Gunnar Senum, Brookhaven National Laboratory, Upton, NY; John Storey, Shean Huff, Dean Edwards, Sam Lewis, Oak Ridge National Laboratory, Oak Ridge, TN
- 3PE9 CHARACTERIZATION OF GAS AND AEROSOL EMISSION FROM SMOLDERING INCENSES
CHIH-CHIEH CHEN, Tzu-ting Yang, Jia-ming Lin, National Taiwan University, Taipei, Taiwan; Rong-fung Huang, National Taiwan University of Science and Technology, Taipei, Taiwan
- 3PE10 CHARACTERIZATION OF FINE PARTICULATE EMISSIONS FROM WASTE INCINERATORS BY REAL-TIME MONITORING OF SIZE-RESOLVED MASS AND CHEMICAL COMPOSITION
HACENE BOUDRIES, Xufeng Zhang, Massachusetts Institute of Technology, Cambridge, MA; Timothy Onasch, Aerodyne Research, Inc., Billerica, MA; Kenneth Smith, Massachusetts Institute of Technology, Cambridge, MA; Douglas Worsnop, Aerodyne Research, Inc., Billerica, MA
- 3PE11 A COMPARISON OF POLYCYCLIC AROMATIC HYDROCARBONS IN FLAMES, IN DIESEL FUELS AND IN DIESEL EMISSIONS
ROBERT FLETCHER, National Institute of Standards and Technology, Gaithersburg, MD; Richard Dobbins, Brown University, Providence, RI; Bruce Benner, National Institute of Standards and Technology, Gaithersburg, MD

Technical Program (updated August 27, 2003)

Wednesday, October 22, 2003

Plenary #2

8:00 AM - 9:00 AM

Pacific Ballroom A/B

8:05 AM

EMISSIONS-TO-INTAKE RELATIONSHIPS FOR AIR POLLUTION SOURCES

Dr. William W. Nazaroff

*Professor of Environmental Engineering, Department of Civil and Environmental Engineering,
University of California, Berkeley, California, USA*

8:50AM

PRESENTATION OF THE FRIEDLANDER AWARD

Lynn Hildemann

Technical Program (updated August 27, 2003)

Wednesday, October 22, 2003

Platform Session #5

9:30 AM - 10:45 AM

5A Indoor Aerosols II

Laguna A/B

Chair: Tina Reponen, Co-chair: Mark Sippola

9:30 AM - 10:45 AM

- 5A1 9:30 AM AEROSOLIZATION OF ASPERGILLUS VERSICOLOR SPORES FROM DIFFERENT BUILDING MATERIALS
SERGEY GRINSHPUN, Satheesh Sivasubramani, Tiina Reponen, University of Cincinnati, Cincinnati, OH
- 5A2 9:50 AM CHARACTERIZING FUNGAL SOURCE CONTRIBUTIONS IN FORTY FOUR HOMES
MICHAEL RIZZO, US EPA Region 5, Chicago, IL; Peter Scheff, Richard Wadden, Luke Curtis, University of Illinois, Chicago, IL
- 5A3 10:10 AM PRESCRIBED BURNS AND WILDFIRES IN COLORADO: IMPACTS OF MITIGATION MEASURES ON INDOOR AIR PM2.5
David Henderson, Jana B. Milford, SHELLY L. MILLER, University of Colorado, Boulder, CO
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 5PA4-5PA8 (1 min each).

5B Toxics & Plume Chemistry

Avila A/B

Chair: Beverly Cohen, Co-chair: David Cocker

9:30 AM - 10:45 AM

- 5B1 9:30 AM SOURCE APPORTIONMENT OF PAHS AND TRACE METALS ALONG THE CANADIAN GREAT LAKES USING INTEGRATED ATMOSPHERIC DEPOSITION NETWORK DATA: REGIONAL AND LOCAL RESULTS
BERNARD CRIMMINS, University of Maryland Center for Environmental Science, Solomons, MD; Larsen Randolph, St. Mary's College of Maryland, St. Mary's City, MD; Joel Baker, University of Maryland Center for Environmental Science, Solomons, MD; Raymond Hoff, University of Maryland Baltimore County, Baltimore, MD
- 5B2 9:50 AM IDENTIFICATION OF SOURCE LOCATIONS USING HYBRID RECEPTOR MODELING ; VAPOR PHASE MERCURY
YOUNG-JI HAN, Thomas Holsen, Soon-Onn Lai, Keun-Wook Lee, Philip Hopke, Clarkson University, Potsdam, NY; Michael Milligan, Christopher Andolina, State University of New York, Fredonia, NY; Seung-Muk Yi, Seoul National University, Seoul, Korea; Wei Liu, Clarkson University, Potsdam, NY
- 5B3 10:10 AM OXIDATION OF SO2 AND NO2 OXIDATION RATES IN COAL FIRED POWER PLANT PLUMES
ERIC EDGERTON, ARA Inc., Cary, NC; Benjamin Hartsell, Callie Waid, ARA Inc., Plano, TX; John Jansen, Southern Company, Birmingham, AL; Alan Hansen, EPRI, Palo Alto, CA
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 5PB4-5PB11 (1 min each).

Technical Program (updated August 27, 2003)

- 5C Emissions I** *El Capitan A/B*
Chair: Eric Fujita, Co-chair: Anthony Wexler *9:30 AM - 10:45 AM*
- 5C1 SEPARATING THE CONTRIBUTION OF GASOLINE AND DIESEL VEHICLE EMISSIONS TO
9:30 AM AMBIENT PM: VERIFICATION OF RECEPTOR MODEL CALCULATIONS
M. P. FRASER, Z. W. Yue, B. Buzcu, Rice University, Houston, TX; G. R. McGaughey, N. R. Desai, D. T. Allen, University of Texas; R. L. Seila, W. A. Lonneman, US EPA, Research Triangle Park, NC; A. Harley, University of California, Berkeley, CA
- 5C2 CHEMICAL COMPOSITION OF RIO DE JANEIRO AMBIENT PM10 AND OF VEHICLE
9:50 AM EMISSIONS IN BRAZIL
DANIEL GROSJEAN, DGA Inc., Ventura, CA; Barbara Zielinska, Desert Research Institute, Reno, NV; Eric Grosjean, DGA Inc., Ventura, CA; Lino F. R. Moreira, Andrea Moreira, CENPES, PETROBRAS, Rio de Janeiro, Brazil
- 5C3 ULTRAFINE PARTICULATE MATTER SIZE DISTRIBUTIONS INSIDE VEHICLES AND ON
10:10 AM ROADWAYS IN LOS ANGELES
DANE WESTERDAHL, Scott Fruin, California Air Resources Board, Sacramento, CA; Constantinos Sioutas, University of Southern California, Los Angeles, CA
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 5PC4-5PC8 (1 min each).
- 5D Control Technology II** *Huntington A/B/C*
Chair: Jonathan Thornburg, Co-chair: Chuen-Jinn Tsai *9:30 AM - 10:45 AM*
- 5D1 MECHANISM OF SORBENT INJECTION TECHNIQUE TO CONTROL VANADIUM EMISSION
9:30 AM IN COMBUSTION SYSTEM
SANG-RIN LEE, Chang-yu Wu, University of Florida, Gainesville, FL
- 5D2 TRACE GAS ADSORPTION WITHIN GAS-POWDERED SORBENT SUSPENSIONS:
9:50 AM RELATIVE INFLUENCE OF FREESTREAM TURBULENCE VS. TURBULENT MIXING OF
INJECTION
HEREK CLACK, Uttam Narasimhan, Illinois Institute of Technology, Chicago, IL
- 5D3 AN AXIAL FLOW CYCLONE FOR NANOPARTICLE CONTROL IN VACUUM CONDITONS
10:10 AM *CHUEN-JINN TSAI, National Chiao Tung University, Hsinchu, Taiwan; Da-Ren Chen, Washington University, St. Louis, MO; Hungmin Chein, Y. D. Hsu, Industrial Technology Research Institute, Hsinchu, Taiwan; Pratim Biswas, Weiling Li, Washington University, St. Louis, MO*
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 5PD4-5PD9 (1 min each).

Technical Program (updated August 27, 2003)

- 5E Soot and Inorganic Particle Formation** *Palos Verdes A/B*
Chair: Christopher Sorensen, Co-chair: Anthony Zimmer *9:30 AM - 10:45 AM*
- 5E1 NEW UNIVERSAL STAGES OF SOOT GROWTH AND MORPHOLOGY IN HEAVILY
9:30 AM SOOTING FLAMES
*CHRISTOPHER SORENSEN, Wongyo Kim, Dan Fry, Amit Chakrabarti, Kansas State
University, Manhattan, KS*
- 5E2 SOOTING LIMITS OF DIFFUSION FLAMES WITH OXYGEN-ENRICHED AIR AND DILUTED
9:50 AM FUEL
*RICHARD L. AXELBAUM, Washington University, St. Louis, MO; Peter B. Sunderland,
NCMR/NASA Glenn, Cleveland, OH; David L. Urban, Dennis P. Stocker, NASA Glenn,
Cleveland, OH; Beei-Huan Chao, University of Hawaii at Manoa, Honolulu, HI*
- 5E3 SIMULATION OF THE SOOT AGGLOMERATE FRAGMENTATION DUE TO OXIDATION IN
10:10 AM A FLAME
*PENGZHI JIANG, Joann Lighty, Adel Sarofim, Eric Eddings, University of Utah, Salt Lake
City, UT*
- 10:30 AM POSTER PREVIEW
This session ends with a brief presentation of posters 5PE4-5PE11 (1 min each).

Technical Program (updated August 27, 2003)

Wednesday, October 22, 2003

Platform Session #6

11:00 AM - 12:35 PM

6A Exposure Assessment I

Laguna A/B

Chair: Gediminas Mainelis, Co-chair: Barbara Turpin

11:00 AM - 12:35 PM

- 6A1 SOURCE AND FATE CHARACTERIZATION OF MICROORGANISMS AEROSOLIZED DURING WASTEWATER REUSE
11:00 AM
Tania Paez-Rubio, Emily Viau, JORDAN PECCIA, Arizona State University, Tempe, AZ
- 6A2 HEALTH EFFECTS OF HIGHLY VARIABLE LOCAL POLLUTION EMISSIONS: IMPLICATIONS FOR SINGLE MONITOR STUDIES OF POLLUTION'S IMPACTS?
11:20 AM
THOMAS GRAHAME, US Department of Energy, Washington, DC
- 6A3 CAN URINARY METABOLITES PREDICT EXPOSURES TO PYRENE, B[A]P, AND OTHER PAHS?
11:40 AM
JUNFENG (JIM) ZHANG, Environmental and Occupational Health Sciences Institute, University of Medicine and Dentistry of New Jersey, and Rutgers University, Piscataway, NJ; Fusheng Wei, CNEMC, Beijing, China; Lin Zhang, University of Medicine and Dentistry of New Jersey, Piscataway, NJ; Hongbiao Yang, Anshan Environmental Monitoring Center, Anshan City, China; Xiaoli Duan, CNEMC, Beijing, China; Weili Liu, Rutgers University, New Brunswick, NJ; In-kyu Han, University of Medicine and Dentistry of New Jersey, Piscataway, NJ; George Rhoads, Environmental and Occupational Health Sciences Institute, University of Medicine and Dentistry of New Jersey, and Rutgers University, Piscataway, NJ
- 6A4 SPECIATED PM_{2.5} EXPOSURES PROVIDE INSIGHTS INTO PM EPIDEMIOLOGY AND PUBLIC HEALTH PROTECTION
12:00 PM
BARBARA TURPIN, Qing Yu Meng, Gavin Lau, Andrea Polidori, Adam Reff, Robert Porcja, Yelena Namova, John Offenberg, Steven Eisenreich, Rutgers University, New Brunswick, NJ; Clifford Weisel, Environmental and Occupational Health Sciences Institute, Piscataway, NJ; Helen Suh, Harvard School of Public Health, Boston, MA; Maria Morandi, Thomas Stock, University of Texas, Houston, TX; Steven Colome, Integrated Environmental Sciences, Irvine, CA; Arthur Winer, University of California, Los Angeles, CA
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 6PA5-6PA13 (1 min each).

Technical Program (updated August 27, 2003)

- 6B California Regional Particulate Air Quality Study** Avila A/B
Chair: John Watson, Co-chair: Mike Kleeman 11:00 AM - 12:35 PM
- 6B1 11:00 AM EQUIVALENCE AND COMPARABILITY AMONG DIFFERENT PM_{2.5} MASS MEASUREMENTS IN CENTRAL CALIFORNIA
JOHN WATSON, Judith Chow, L. W. Antony Chen, Desert Research Institute, Reno, NV; Karen Magliano, Peter Ouchida, California Air Resources Board, Sacramento, CA; Don Lehrman, Technical and Business Systems Inc., Santa Rosa, CA; L. Willard Richards, Sonoma Technology Inc., Petaluma, CA
- 6B2 11:20 AM SPATIAL AND TEMPORAL VARIATIONS OF PM_{2.5}, PM₁₀, AND THEIR CHEMICAL COMPONENTS DURING THE CALIFORNIA REGIONAL PARTICULATE AIR QUALITY STUDY.
KASIA TURKIEWICZ, Richard Hackney, Karen Magliano, Theresa Najita, Patricia Velasco, California Air Resources Board, Sacramento, CA
- 6B3 11:40 AM CHARACTERIZATION OF SAN JOAQUIN VALLEY SAMPLES USING SCANNING ELECTRON MICROSCOPY (SEM) TECHNIQUES
GARY CASUCCIO, Traci Lersch, RJ Lee Group Inc., Monroeville, PA; Karen Magliano, California Air Resources Board, Sacramento, CA; John Watson, Desert Research Institute, Reno, NV
- 6B4 12:00 PM CHARACTERIZATION OF ATMOSPHERIC NANO-FINE PARTICLES AT BAKERSFIELD CALIFORNIA
Michael Kleeman, JORN HERNER, University of California, Davis, CA
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 6PB5-6PB10 (1 min each).
- 6C Aerosol Chemistry II** El Capitan A/B
Chair: E. James Davis, Co-chair: Sulekha Chattopadhyay 11:00 AM - 12:35 PM
- 6C1 11:00 AM MICROSCOPIC STRUCTURE OF AN INDIVIDUAL SEA SALT PARTICLE: HOW DOES IT LOOK LIKE?
ALEXANDER LASKIN, PNNL, Richland, WA
- 6C2 11:20 AM EVAPORATION AND GROWTH OF LAYERED DROPLETS
ASIT RAY, Haohua Tu, University of Kentucky, Lexington, KY
- 6C3 11:40 AM SIZE DEPENDENT HYGROSCOPIC GROWTH OF AMBIENT AEROSOL DURING PITTSBURGH AIR QUALITY STUDY
A. KHLYSTOV, C. Stanier, S. N. Pandis, Carnegie Mellon University, Pittsburgh, PA
- 6C4 12:00 PM THE REACTION BETWEEN CO₂ AND HYDRATED LIME AEROSOL PARTICLES
JAMES DAVIS, B. H. Chen, M. L. Laucks, A. Sengupta, University of Washington, Seattle, WA
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 6PC5-6PC11 (1 min each).

Technical Program (updated August 27, 2003)

- 6D Urban Aerosol** *Huntington A/B/C*
Chair: Tymon Zielinski, Co-chair: Paul Fraser *11:00 AM - 12:35 PM*
- 6D1 11:00 AM DETERIORATION OF A TALL BUILDING BY AIRBORNE PARTICLES AND RAINFALL:
NUMERICAL MODELING AND FIELD MEASUREMENTS
WEI TANG, Cliff Davidson, Carnegie Mellon University, Pittsburgh, PA
- 6D2 11:20 AM SPATIAL AND TEMPORAL PATTERNS OF BLACK CARBON SOOT AS AN INDICATOR OF
LOCAL MOBILE SOURCE AEROSOL GRADIENTS IN GREATER BOSTON
GEORGE A. ALLEN, Philip R. S. Johnson, NESCAUM, Boston, MA
- 6D3 11:40 AM NUMBER CONCENTRATIONS OF PARTICLES CONTAINING SPECIFIC CHEMICAL
SPECIES IN URBAN AEROSOLS
*MICHAEL TOLOCKA, Derek Lake, Murray Johnston, University of Delaware, Newark, DE;
Anthony Wexler, University of California, Davis, CA*
- 6D4 12:00 PM FUNCTIONAL GROUP COMPOSITION BY SIZE AND POLARITY IN PITTSBURGH, PA AND
INSIGHTS INTO AEROSOL PROCESSING.
*JOHN OFFENBERG, Robert Porcja, Andrea Polidori, Barbara Turpin, Rutgers University,
New Brunswick, NJ*
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 6PD5-6PD12 (1 min each).
- 6E Condensation** *Palos Verdes A/B*
Chair: Barbara Wyslouzil, Co-chair: Charles Clement *11:00 AM - 12:35 PM*
- 6E1 11:00 AM FORMATION OF ORGANIC COATING ON SUBMICRON-NANOSIZED SILVER PARTICLES
USING A GAS PHASE PROCESS
*LU ZHANG, James Gentry, University of Maryland, College Park, MD; M. B. Ranade, Particle
Technology, Chantilly, VA*
- 6E2 11:20 AM REGRESSION OF MEASURED ULTRAFINE PARTICLE SIZE DISTRIBUTIONS USING THE
NZTM
RICHARD MCCLURG, University of Minnesota, Minneapolis, MN
- 6E3 11:40 AM HOMOGENEOUS NUCLEATION RATES FOR WATER
*BARBARA WYSLOUZIL, Worcester Polytechnic Institute, Worcester, MA; Judith Wšlk,
Reinhard Strey, Institut fŕr Physikalische Chemie, Kšln, Germany*
- 6E4 12:00 PM A MOLECULAR DYNAMICS/AB INITIO STUDY OF WATER NUCLEATION
YI MING, Douglas Doren, University of Delaware, Newark, DE
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 6PE5-6PE11 (1 min each).

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Wednesday, October 22, 2003

Poster Session #2 and Exhibits. Lunch provided.

12:35 PM - 2:40 PM

Pacific Ballroom D

4PA Indoor Aerosols I

Pacific Ballroom D

12:40 PM - 1:40 PM

4PA4 PM2.5 IN A SEMI-URBAN ENVIRONMENT: INDOOR/OUTDOOR RELATIONSHIPS
ANIKET SAWANT, Kwangsam Na, Chen Song, Xiaona Zhu, Kathalena Cocker, David Cocker, CE-CERT/UC Riverside, Riverside, CA

4PA5 SIZE RESOLVED INDOOR/OUTDOOR -RATIO OF FINE PARTICLES IN AN URBAN ENVIRONMENT
KAARLE HŠMERI, University of Helsinki, Finland; Tareq Hussein, Finnish Institute of Occupational Health, Helsinki, Finland; Markku Kulmala, University of Helsinki, Finland

4PA6 PARTICLE DEPOSITION ON HVAC HEAT EXCHANGERS
JEFFREY SIEGEL, The University of Texas at Austin, Department of Civil Engineering

4PA7 CHARACTERISTICS OF AIR POLLUTANTS EMITTED FROM INCENSE AND MOSQUITO INCENSE BURNING
YU-CHUN CHIANG, Chih-feng Hou, Yu-chuan Chan, Yuan Ze University, Taoyuan, Taiwan

4PB Filtration

Pacific Ballroom D

12:40 PM - 1:40 PM

4PB4 MATHEMATICAL MODELING OF TRANSPORT OF AEROSOL PARTICLES IN A HETEROGENEOUS SHREDDED POROUS MEDIA
MOHAMMAD S. SAIDI, Philip Morris USA, Richmond, VA (on sabbatical leave from Isfahan University); Ken H. Shafer, Peter J. Lipowicz, Philip Morris USA, Richmond, VA

4PB5 AEROSOL PENETRATION THROUGH N-SERIES ELECTROSTATIC FILTERING FACEPIECE RESPIRATOR WITH THE OIL AEROSOL
HSIAO-LIN HUANG, Graduate Institute of Environmental Engineering, National Taiwan University, Taipei, 106, Taiwan, R.O.C.; Ta Yi-chin Huang, Graduate Institute of Environmental Engineering, National Taiwan University, Taipei, 106, Taiwan, R.O.C.

4PB6 MULTIPHASE FLUID FLOW SIMULATIONS THROUGH POROUS MEDIA
ALI R. MAZAHARI, Clarkson University, U.S. Department of Energy, Potsdam, NY; Goodarz Ahmadi, Clarkson University, Potsdam, NY; Duane H. Smith, U.S. Department of Energy, Clarkson University, Potsdam, NY

4PB7 HYSTERESIS AND DYNAMICS EFFECTS IN TWO-PHASE FLOWS IN POROUS MEDIA
ALI R. MAZAHARI, Clarkson University; U.S. Department of Energy, Potsdam, NY; Goodarz Ahmadi, Clarkson University, Potsdam, NY; Duane H. Smith, U.S. Department of Energy, Morgantown, WV

4PB8 EVAPOLATION PROPERTIES OF SEMI-VOLTILE COMPONENTS IN CIGARETTE SMOKE
KAZUHIKO KATAYAMA, Masato Onishi, Japan Tobacco Inc. Kanagawa, Japan; Manabu Shimada, Kikuo Okuyama, Hiroshima University, Hiroshima, Japan

4PB9 PARTICLE DRIFT IN A RESONANCE TUBE - APPLICATION TO AEROSOL AGGLOMERATION
CHAIM GUTFINGER, Alexander Alexeev, Laboratory for Aerosol Research, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology, Haifa, Israel

Technical Program (updated August 27, 2003)

4PC Source Apportionment II

Pacific Ballroom D

12:40 PM - 1:40 PM

- 4PC4 SIZE RESOLVED NITRO-PAHS AS SOURCE MARKERS IN THE BALTIMORE ATMOSPHERE
BERNARD CRIMMINS, Joel Baker, University of Maryland Center for Environmental Science, Solomons, MD
- 4PC5 PARTICULATE MATTER CONCENTRATION AND SOURCE APPORTIONMENT FOR DIFFERENT SEASONS IN THE BANGKOK METROPOLITAN REGION OF THAILAND
NGUYEN THI KIM OANH, Research Associates, Asian Institute of Technology, Thailand; Peter Wahlin, National Environmental Research Institute, Roskilde, Denmark
- 4PC6 SOURCE ATTRIBUTION USING CONTINUOUS AMBIENT GAS AND PARTICLE SIZE MEASUREMENTS
ASHLEY WILLIAMSON, Southern Research Institute, Birmingham, AL; Davyda Hammond, University of Alabama at Birmingham, Birmingham, AL
- 4PC7 TOTAL SOURCE APPORTIONMENT OF VISIBILITY IN SOUTHERN CALIFORNIA USING A THREE DIMENSION SOURCE-ORIENTED AIR QUALITY MODEL
Michael Kleeman, QI YING, Mitchell Mysliwiec, UC Davis, Davis, CA
- 4PC8 IN-STATE/OUT-STATE SOURCES OF PM_{2.5} IN NEW YORK STATE
SOON-ONN LAI, Wei Liu, Young-ji Han, Keun-wook Lee, Clarkson University, Potsdam, NY; Chris Antolina, SUNY, Fredonia, NY; Thomas Holsen, Philip Hopke, Clarkson University, Potsdam, NY; Michael Milligan, SUNY, Fredonia, NY
- 4PC9 CHEMICAL MASS BALANCE FOR SOURCE APPORTIONMENT OF SOIL DUST
JOHN VERANTH, Raed Labban, University of Utah, Salt Lake City, UT; John Watson, Judy Chow, Vic Etyemezian, Desert Research Institute
- 4PC10 EXPLOITING HIGH TIME RESOLUTION MEASUREMENTS FOR INSIGHTS INTO AEROSOL CLIMATOLOGY
JASON S. HILL, Jay R. Turner, Washington University, St. Louis, MO
- 4PC11 TRACE ELEMENTS IN PM₁₀ AND PM_{2.5} IN PITTSBURGH
NATALIE ANDERSON-PEKNEY, Cliff Davidson, Spyros Pandis, Allen Robinson, Andrey Khlystov, Carnegie Mellon University, Pittsburgh, PA
- 4PC12 IDENTIFICATION OF REGIONAL AIR POLLUTANT SOURCES BY POSITIVE MATRIX FACTORIZATION
Kateryna Lapina, Kurtis Paterson, Michigan Technological University, Houghton, MI

Technical Program (updated August 27, 2003)

4PD Long-Range Transport

Pacific Ballroom D

12:40 PM - 1:40 PM

- 4PD4 ASIAN AEROSOLS IN NORTH AMERICA: EXTRACTING THE CHEMICAL COMPOSITION AND MASS CONCENTRATION OF THE ASIAN CONTINENTAL AEROSOL PLUME FROM LONG TERM AEROSOL RECORDS IN THE WESTERN UNITED STATES
RICHARD VANCUREN, Research Division, California Air Resources Board, Sacramento, CA
- 4PD5 BLACK CARBON AND DUST AEROSOL IN ASIAN OUTFLOW: PHYSIO-CHEMISTRY, OPTICAL PROPERTIES, AND IMPLICATIONS FOR CCN
ANTONY CLARKE, Yohei Shinozuka, Vladimir Kapustin, Steven Howell, University of Hawaii, Honolulu, HI
- 4PD6 LONG RANGE TRANSPORT TO THE ARCTIC - OBSERVED AND SIMULATED ASIAN DUST SIGNATURES AT BARROW, ALASKA
ELISABETH ANDREWS, Robert Stone, NOAA/CMDL, Boulder, CO; Gail Anderson, AFRL/Space Vehicles Directorate (VS), Boulder, CO; Joyce Harris, NOAA/CMDL, Boulder, CO; Eric Shettle, NRL, Remote Sensing Division, Washington, DC; John Ogren, NOAA/CMDL, Boulder, CO
- 4PD7 AEROSOL MIXING STATE INFERRED FROM TRACE-P P3B FLIGHT 0 AEROSOL DATA MEASURED BY PILS-IC: DO AEROSOL PARTICLES EXIST AS AN INTERNAL MIXTURE OR AN EXTERNAL MIXTURE?
CHUL SONG, Georgia Institute of Technology, Atlanta, GA
- 4PD8 SOURCE SIGNATURES OF CARBON MONOXIDE AND ORGANIC FUNCTIONAL GROUPS IN ACE-ASIA SUBMICRON AEROSOL TYPES
STEVEN F. MARIA, Lynn M. Russell, Princeton University, Princeton, NJ; Barbara J. Turpin, Robert J. Porcja, Rutgers University, New Brunswick, NJ; Teresa L. Campos, National Center for Atmospheric Research, Boulder, CO; Rodney J. Weber, Georgia Institute of Technology, Atlanta, GA; Barry J. Huebert, University of Hawaii, Honolulu, HI
- 4PD9 AEROSOL MEASUREMENTS BY AMS AT FUKUE, JAPAN IN SPRING
AKINORI TAKAMI, Takao Miyoshi, National Institute for Environmental Studies, Tsukuba, Japan; Akio Shimono, Sanyu Plant Service Co. Ltd., Kanagawa, Japan; Shiro Hatakeyama, National Institute for Environmental Studies, Kanagawa, Japan
- 4PD10 MODEL OF THE LONG - PERIOD VARIATIONS OF THE AEROSOLS SPACE DISTRIBUTION IN THE MIDDLE ATMOSPHERE DUE TO THE NON-LINEAR INTERACTION BETWEEN THE DAILY OSCILLATIONS AND THE SEASONAL VARIATIONS OF THE ATMOSPHERE
ROBERT FAKHRDINOV, Lubov Morozova, Kazan State University, Kazan, Russia
- 4PD11 WATER-SOLUBLE ORGANIC CARBON IN PM_{2.5} AEROSOLS IN HONG KONG: SEASONAL AND SPATIAL VARIATION
JIAN ZHEN YU, Jinhui Xu, Wai Shing Wu, Chun Hong Wan, Hong Kong University of Science & Technology, Kowloon, Hong Kong

Technical Program (updated August 27, 2003)

4PE Sampling Inlets

*Pacific Ballroom D
12:40 PM - 1:40 PM*

- 4PE4 MEASUREMENTS OF "LARGE" CCN
JAMES HUDSON, Desert Research Institute, Reno, NV
- 4PE5 PERFORMANCE OF NANO-DMA OPERATED UNDER DIFFERENT SHEATH AND CARRIER
GAS COMBINATION
WEILING LI, Da-Ren Chen, Washington University, St. Louis, MO
- 4PE6 EVALUATION AND APPLICATION OF AN IMPROVED PARTICLE SIZE MAGNIFIER (PSM)
FOR NANOPARTICLE DETECTION
*CHAN SOO KIM, Kikuo Okuyama, Hiroshima University, Hiroshima, Japan; Juan Fernandez
De La Mora, Yale University, New Haven, CT*
- 4PE7 PERCENT TRANSMISSION OF AMMONIUM NITRATE AND AMMONIUM SULFATE
PARTICLES AS A FUNCTION OF RELATIVE HUMIDITY FOR AN AERODYNE AEROSOL
MASS SPECTROMETER
BRENDAN MATTHEW, Ann Middlebrook, NOAA Aeronomy Laboratory, Boulder, CO
- 4PE8 DROPLET DISTORTION EFFECTS IN AERODYNAMIC PARTICLE SIZING INSTRUMENTS
*PAUL BARON, Anthony Martinez, Erica Jones, National Institute for Occupational Safety and
Health, Cincinnati, OH*
- 4PE9 IMPULSE SPECTROMETER FOR NANOPARTICLES MEASUREMENTS
ANATOLIY SUSLOV, University of California, Santa Barbara, CA
- 4PE10 ENHANCED ELECTRICAL FILTER STAGE DATA REDUCTION FOR ELPI
MIKKO MOISIO, Henna Tuomenoja, Ville Niemelä, Dekati Ltd., Tampere, Finland
- 4PE11 MIXING EFFECT ON THE ACCELERATED MEASUREMENT TECHNIQUE USING DMA AND
CPC
*YOUNSOO LEE, KAIST, Daejeon, Korea; Kang-Ho Ahn, Hanyang University, Kyeonggi-do,
Korea; Sangsoo Kim, KAIST, Daejeon, Korea*

Technical Program (updated August 27, 2003)

5PA Indoor Aerosols II

*Pacific Ballroom D
12:40 PM - 1:40 PM*

- 5PA4 COMPARISON OF THE PROXIMITY, COMPARTMENT AND RESUSPENSION EFFECTS AND THEIR CONTRIBUTIONS TO THE PERSONAL CLOUD
ANDREA R. FERRO, Clarkson University, Potsdam, NY; Lynn M. Hildemann, Stanford University, Stanford, CA
- 5PA5 TRACKING AND RESUSPENSION OF DEPOSITED PARTICLES BY FOOT TRAFFIC
MARK SIPPOLA, Tracy Thatcher, Ernest Orlando Lawrence Berkeley National Laboratory, Berkeley, CA
- 5PA6 INVESTIGATING INDOOR AIRBORNE ENDOTOXIN LEVELS IN BOULDER, COLORADO HOMES
ELMIRA KUJUNDZIC, Mark T. Hernandez, Shelly L. Miller, University of Colorado, Boulder, CO
- 5PA7 SIZE DISTRIBUTION OF FUNGAL FRAGMENTS RELEASED FROM CONTAMINATED SURFACES
TIINA REPONEN, Seung-Hyun Cho, Mikhail Yermakov, Sergey Grinshpun, University of Cincinnati, Cincinnati, OH
- 5PA8 PERFORMANCE EVALUATION OF INDOOR AIR CLEANERS
CHIH-CHIEH CHEN, Tsung-Shi Lin, Ro-Ting Lin, National Taiwan University, Taipei, Taiwan; Yu-Mei Kuo, Chung Hwa College of Medical Technology, Tainan, Taiwan; Huang Sheng-Hsiu, Institute of Occupational Safety and Health, Taipei, Taiwan

5PB Toxics & Plume Chemistry

*Pacific Ballroom D
12:40 PM - 1:40 PM*

- 5PB4 MODELING AIR QUALITY IMPACTS OF DISTRIBUTED GENERATION IN THE SOUTH COAST AIR BASIN OF CALIFORNIA
MARC CARRERAS, G. Scott Samuelson, Jack Brouwer, Marc Medrano, Donald Dabdub, University of California, Irvine, CA
- 5PB5 GAS/PARTICLE PARTITIONING OF PAHS AT IADN SITES
ELISABETH GALARNEAU, Pierrette Blanchard, Terry F. Bidleman, Meteorological Service of Canada, Toronto, ON, Canada
- 5PB6 PARTICULATE POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) AT GOSAN, KOREA
JI YI LEE, Yong Pyo Kim, Ewha Womans University, Seoul, Korea; Chang Hee Kang, Cheju National University, Cheju, Korea; Young Sung Ghim, Korea Institute of Science and Technology, Seoul, Korea
- 5PB7 DISPERSION OF HEAVY METALS CARRIED WITH AEROSOLS FROM TWO MUNICIPAL SOLID WASTE DUMPSITE ON SOILS , ALEXANDRIA ,EGYPT.
ELSA YED SHALABY, University of Alexandria, Alexandria, Egypt
- 5PB8 DEPOSITION AND AMBIENT CONCENTRATIONS OF PBTS (HG, PCBS, DDE, MIREX, HCB AND DIOXIN/FURANS) IN THE LAKE ONTARIO REGION
KEUN-WOOK LEE, Youngji Han, Soon-Onn Lai, Thomas M. Holsen, Phillip K. Hopke, Clarkson University, Potsdam, NY; James J. Pagano, Lauren Falanga, State University of New York, Oswego, NY; Chris Andolina, Michael S. Milligan, State University of New York, Fredonia, NY; Seung Muk Yi, Seoul National University, Seoul, Korea
- 5PB9 THE EFFECTS OF PARTICLE MATRIX ON SINGLE-PARTICLE MASS SPECTRA OF
MERCURY AND METAL CONTAINING PARTICLES

Technical Program (updated August 27, 2003)

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| 5PB10 | SOURCES OF PLOYCHORINATED BIPHENYLS TO THE ATMOSPHERE IN CHICAGO <i>SANDHYA TOKATI, Thomas Holsen, Clarkson University, Potsdam, NY; Ying-kuang Hsu, California Air Resources Board, Sacramento, CA</i> | |
| 5PB11 | OBSERVATIONS OF 10-32 NM POLYCYCLIC AROMATIC HYDROCARBON PARTICLE MODES IN LOS ANGELES AEROSOL? <i>ANTONIO MIGUEL, Arantzazu Eiguren-Fernandez, Paul Mayo, University of California, Los Angeles, CA; Philip Fine, Michael Geller, Constantinos Sioutas, University of Southern California, Los Angeles, CA</i> | |
| 5PC | Emissions I | <i>Pacific Ballroom D 1:40 PM - 2:40 PM</i> |
| 5PC4 | SIZE RESOLVED CHARACTERIZATION OF LIGHT-DUTY VEHICLE EMISSIONS: INORGANIC AND ORGANIC INCLUDING ORGANIC TRACER COMPOUNDS <i>Michael Kleeman, MICHAEL ROBERT, University of California, Davis, CA; Michael Hannigan, University of Colorado, Boulder, CO; James Schauer, University of Wisconsin, Madison, WI</i> | |
| 5PC5 | CHARACTERIZATION AND SPECIATION OF BIOAEROSOLS AND VEHICULAR FUEL COMBUSTION EMISSIONS USING ELECTRON MICROSCOPY <i>GARY CASUCCIO, Traci Lersch, Steve Schlaegle, RJ Lee Group Inc., Monroeville, PA; Richard Westberg, RJ Lee Group Inc./Columbia Basin College, Pasco, WA; Allen Robinson, Emily Weitkamp, Carnegie Mellon University, Pittsburgh, PA; Hal Westberg, Candis Claiborn, Brian Lamb, Washington State University, Pullman, WA</i> | |
| 5PC6 | IN-VEHICLE AND ROADWAY CONCENTRATIONS OF ULTRAFINE PARTICULATE MATTER IN LOS ANGELES <i>SCOTT FRUIN, Dane Westerdahl, California Air Resources Board, Sacramento, CA; Constantinos Sioutas, University of Southern California, Los Angeles, CA</i> | |
| 5PC7 | THE DEVELOPMENT AND DEPLOYMENT OF AN ADVANCED MOBILE AIR MONITORING PLATFORM IN LOS ANGELES <i>Dane Westerdahl, Scott Fruin, California Air Resources Board, Sacramento, CA; Phillip Fine, Ken Bowers, Steve Mara, Constantinos Sioutas, University of Southern California, Los Angeles, CA</i> | |
| 5PC8 | PM-10 AND PM-2.5 MASS CONCENTRATIONS AND SOIL PARAMETERS FROM SAN JOAQUIN VALLEY <i>KRYSTYNA TRZEPLA-NABAGLO, Omar Carvacho, Lowell Ashbaugh, Robert Flocchini, University of California, Davis, CA</i> | |

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| 5PD | Control Technology II | <i>Pacific Ballroom D 1:40 PM - 2:40 PM</i> |
| 5PD4 | A STUDY ON TURBO CYCLONE TYPE PARTICLE SEPARATOR <i>YONGJIN KIM, Korea Institute of Machinery and Materials, Daejeon, Korea</i> | |
| 5PD5 | COLLECTION EFFICIENCY OF A DOUBLE CYCLONE WITH ELECTRIC FIELD <i>KYOUNGSOO LIM, Hyunsoo Kim, Kyoowon Lee, Kwangju Institute of Science and Technology, Kwangju, Korea</i> | |
| 5PD6 | MICROCONTAMINATION CONTROL DURING SLIDER FABRICATION PROCESS IN HARD DISK DRIVE MANUFACTURING <i>TAESUNG KIM, Lance Stover, Seagate Technology, Bloomington, MN</i> | |
| 5PD7 | PLASMA REACTOR: NEW CANDIDATE TO PRODUCE MONODISPERSE NANOPARTICLES <i>KYO-SEON KIM, Dong-joo Kim, Kangwon National University, Kangwon-Do, Korea; Qian-qiu Zhao, Lu Zhang, DuPont Central Research and Development, Wilmington, DE</i> | |
| 5PD8 | DEVELOPMENT AND PERFORMANCE CHARACTERIZATION OF LOW-VOLUME PM _{2.5} PARTICLES <i>DAE SEONG KIM, Sang Bum Hong, Ken W. Lee, Jai Hun Lee, Kwangju Institute of Science and Technology, Kwangju, Korea</i> | |
| 5PD9 | AN INVESTIGATION OF NANOSTRUCTURED TITANIA/VANADIA/TUNGSTEN OXIDE CATALYSTS FOR THE CONTROL OF ORGANIC POLLUTANTS <i>CATHERINE ALMQUIST, Vipul Kumar, Sachin Kumar, Miami University, Oxford, OH</i> | |
| 5PE | Soot and Inorganic Particle Formation | <i>Pacific Ballroom D 1:40 PM - 2:40 PM</i> |
| 5PE4 | MEASUREMENT OF THE OPTICAL EXTINCTION COEFFICIENTS OF FLAME-GENERATED AGGLOMERATES <i>JIANN C. YANG, NIST, Gaithersburg, MD; John F. Widmann, Fluent Inc., Lebanon, NH; Jason Duchez, Samuel L. Manzello, George W. Mulholland, NIST, Gaithersburg, MD</i> | |
| 5PE5 | NOVEL TECHNIQUE TO SAMPLE HIGH-TEMPERATURE, COMBUSTION AEROSOLS <i>ANTHONY ZIMMER, National Institute for Occupational Safety and Health, Cincinnati, OH</i> | |
| 5PE6 | MORPHOLOGY AND CHEMISTRY OF OIL COMBUSTION PARTICLES REVEALED BY A COMBINATION OF SINGLE PARTICLE ANALYSIS AND BULK ANALYTICAL METHODS <i>RALF KAEGI, Swiss Federal Laboratories for Materials Testing and Research, Duebendorf, Switzerland; Denis Mavrocordatos, Swiss Federal Institute for Environmental Science and Technology, Duebendorf, Switzerland; Volker Schmatloch, Paul Hug, Roland Hauert, Stefan Reimann, Swiss Federal Laboratories for Materials Testing and Research, Duebendorf, Switzerland</i> | |
| 5PE7 | COUPLED RADIATION AND THERMOPHORETIC EFFECTS ON THE DYNAMICS OF SOOT PARTICLES IN FLAMES <i>DANIEL MACKOWSKI, Auburn University, Auburn, AL; Vedha Nayagam, Peter Sunderland, National Center for Microgravity Research, Cleveland, OH</i> | |
| 5PE8 | FINE PARTICLE EMISSIONS FROM CO-COMBUSTION OF BIOMASS, SLUDGE, WASTE AND PEAT IN FLUIDIZED BEDS <i>JORMA JOUKINEN, Jouni Hokkinen, Terttu Lind, VTT Processes, Finland; Minna Aurela</i> | |

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- 5PE9 NANOSTRUCTURED SORBENTS FOR CONTROL OF HEAVY METAL EMISSIONS IN DEACTIVATION WASTE INCINERATORS
MYONGHWA LEE, Kuk Cho, Pratim Biswas, Washington University, St. Louis, MO
- 5PE10 SEMI-EMPIRICAL COAGULATION MODEL OF THE INITIAL STAGE OF AEROSOL CLOUD FORMATION UPON GROUND TESTS FIRING OF LARGE BOOSTERS
SERGEI E. PASHENKO, A. E. Osochenko, V. E. Zarko, Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia; K. Hori, Institute of Space and Aeronautical Science, Sagamihara, Japan
- 5PE11 SEMIEMPIRICAL MODEL OF AEROSOL FORMATION IN COAGULATION MODE UPON FAST THERMAL DECOMPOSITION OF SODIUM AZIDE
SERGEI E. PASHENKO, A. E. Osochenko, V. E. Zarko, Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia; Ronald Van Den Berg, TNO
- 6PA Exposure Assessment I** *Pacific Ballroom D*
1:40 PM - 2:40 PM
- 6PA5 PARTICLE SIZE DISTRIBUTION AND ACUTE TOXICITY ASSESSMENT OF INCENSE EMISSIONS
TA-CHANG LIN, Chi-Ru Yang, Yung-Chang Hsieh, National Cheng Kung University, Tainan, Taiwan.
- 6PA6 RED TIDE AEROSOL: CHARACTERIZATION AND INHALED HEALTH EFFECTS
Yung Sung Cheng, YUE ZHOU, Lovelace Respiratory Research Institute, Albuquerque, NM; Richard Pierce, Mote Marine Laboratory, Sarasota, FL; Jerome University of North Carolina, Wilmington, NC
- 6PA7 COMPREHENSIVE CHARACTERIZATION OF AIRBORNE MICROORGANISMS IN SINGAPORE
RAJASEKHAR BALASUBRAMANIAN, National University of Singapore, Singapore
- 6PA8 APPLICATION OF MODIS AEROSOL RETRIEVALS ON THE AIR QUALITY STUDIES
JUN WANG, Sundar A Christopher, University of Alabama, Huntsville, AL
- 6PA9 AEROSOL PARTICULATES OF FEEDYARDS ON THE SOUTHERN HIGH PLAINS
CHARLES PURDY, William Rice, USDA-ARS, Bushland, TX; David Straus, Texas Tech University, Lubbock, TX
- 6PA10 STUDY OF IN-VITRO TOXICOLOGICAL EFFECTS OF EXHAUSTS FROM ADVANCED ENGINES
M.D. CHENG, Boyd Malone, T. Dam, J. M. E. Storey, Oak Ridge National Laboratory, Oak Ridge, TN
- 6PA11 RESPONSES OF LUNG CELLS TO SOIL AND COMBUSTION PARTICLES
JOHN VERANTH, Martha Veranth, Chris Reilly, Garold Yost, University of Utah, Salt Lake City, UT
- 6PA12 CONCURRENT DETERMINATION OF CULTURABLE AND TOTAL AIRBORNE MICROORGANISMS
GEDIMINAS MAINELIS, Hey Reoun An, Maosheng Yao, Rutgers University, New Brunswick, NJ; Paul Lioy, Environmental and Occupational Health Sciences Institute, Piscataway, NJ; Mary J. Lioy, NU Horizon Enterprises, Cranford, NJ
- 6PA13 RISK ASSESSMENT OF ENVIRONMENTAL POLLUTION TO HUMAN HEALTH IN ARMENIA
LUIZA GHARIBYAN, Meryl Karol, Yerevan State Medical University, Yerevan, Armenia

Technical Program (updated August 27, 2003)

6PB California Regional Particulate Air Quality Study

Pacific Ballroom D

1:40 PM - 2:40 PM

- 6PB5 RELATIONSHIP BETWEEN PM_{2.5} AND PM₁₀ DURING THE CALIFORNIA REGIONAL PARTICULATE AIR QUALITY STUDY
THERESA NAJITA, Kasia Turkiewicz, Richard Hackney, Karen Magliano, California Air Resources Board, Sacramento, CA
- 6PB6 COMPARISONS BETWEEN CALIFORNIA REGIONAL PM₁₀/PM_{2.5} AIR QUALITY STUDY (CRPAQS) PARTICLE LIGHT SCATTERING AND FINE PARTICLE MASS DATA
SIANA ALCORN, L. Willard Richards, Theresa O'Brien, Sonoma Technology Inc., Petaluma, CA; Don Lehrman, Technical and Business Systems, Santa Rosa, CA
- 6PB7 DIURNAL VARIATIONS IN PM_{2.5}, PM₁₀, CHEMICAL COMPONENTS, GASEOUS PRECURSORS, AND CO-POLLUTANTS DURING THE CALIFORNIA REGIONAL PARTICULATE AIR QUALITY STUDY
PATRICIA VELASCO, Katarzyna Turkiewicz, Richard Hackney, Theresa Najita, Karen Magliano, California Air Resources Board, Sacramento, CA
- 6PB8 SPATIAL AND TEMPORAL VARIATIONS IN PM_{2.5} CHEMICAL COMPOSITION DURING WINTER, 2000/2001 EPISODES IN CENTRAL CALIFORNIA
JUDITH CHOW, John Watson, L. W. Antony Chen, Desert Research Institute, Reno, NV; Karen Magliano, Peter Ouchida, California Air Resources Board, Sacramento, CA
- 6PB9 COMPARISON BETWEEN PARTICULATE MATTER SAMPLED AT URBAN AND RURAL LOCATIONS IN THE SAN JOAQUIN VALLEY: CONTINUOUS MEASUREMENT OF SINGLE PARTICLE SIZE AND COMPOSITION
XUEYING QIN, Stephen Toner, University of California, San Diego, La Jolla, CA; Prakash Bhave, California Institute of Technology, Pasadena, CA; Kimberly Prather, University of California, San Diego, La Jolla, CA
- 6PB10 TEMPORAL AND SPATIAL DISTRIBUTION OF FINE PARTICLE NITRATE AND BLACK CARBON IN THE SAN JOAQUIN VALLEY OF CALIFORNIA, USA
SUSANNE HERING, Nathan Kreisberg, Aerosol Dynamics Inc., Berkeley, CA; Judy Chow, John Watson, Desert Research Institute, Reno, NV; L. Willard Richards, Sonoma Technology Inc., Petaluma, CA

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6PC Aerosol Chemistry II

Pacific Ballroom D

1:40 PM - 2:40 PM

- 6PC5 VAPOR PRESSURES OF ORGANIC AEROSOL COMPOUNDS MEASURED USING A THERMAL DESORPTION PARTICLE BEAM MASS SPECTROMETER
SULEKHA CHATTOPADHYAY, Paul Ziemann, University of California, Riverside, CA
- 6PC6 THE USE OF SEM AND EDX FOR CHARACTERISATION OF PARTICULATES AND PARTICULATE SOURCES
DAVID SHOOTER, University of Auckland, Auckland, New Zealand; Janine Clemons, Landcare Research, Lincoln, New Zealand
- 6PC7 MOLECULAR DYNAMICS MODEL WITH INTERNAL MOLECULAR TEMPERATURE: AN APPROACH TO MODELING THE LASER ABLATION OF ORGANIC PARTICLES
DENIS PHARES, Arun Srinivasa, Texas A&M University, College Station, TX
- 6PC8 RELATIVE KINETICS FOR MULTICHANNEL NUCLEATION
MICHAEL ANISIMOV, Vladimir Akimov, Aerosol Nucleation Laboratory, Kemerovo, Russia
- 6PC9 ION MOBILITY AND MASS SPECTROMETRY STUDY OF ION-INDUCED NUCLEATION
KENKICHI NAGATO, Kochi National College of Technology, Nankoku, Japan; Chan S. Kim, Hiroshima University, Hiroshima, Japan; Motoaki Adachi, Osaka Prefecture University, Sakai, Japan; Kikuo Okuyama, Hiroshima University, Hiroshima, Japan
- 6PC10 DETERMINATION OF TOTAL PARTICLE MASS FROM SINGLE PARTICLE MASS SPECTROMETRY
DONGGEUN LEE, Pusan National University, Busan, South Korea; Kihong Park, Michael R. Zachariah, University of Minnesota, Minneapolis, MN
- 6PC11 A NEW COMPUTATIONALLY EFFICIENT AEROSOL CHEMISTRY MODEL
RAHUL ZAVERI, Richard Easter, Jerome Fast, Leonard Peters, Pacific Northwest National Laboratory, Richland, WA

Technical Program (updated August 27, 2003)

6PD Urban Aerosol

Pacific Ballroom D

1:40 PM - 2:40 PM

- 6PD5 AEROSOL COMPOSITION OF PM10 AND PM2.5 IN VIÑA DEL MAR CHILE
OMAR F. CARVACHO, Krystyna Trzepla-Nabaglo, Lowell L. Ashbaugh, Robert G. Flocchini, University of California, Davis, CA
- 6PD6 AIR QUALITY AND ENVIRONMENTAL POLICY IN SAN SALVADOR, EL SALVADOR
CARLOS RESTREPO, Institute for Civil Infrastructure Systems (ICIS), New York, NY
- 6PD7 SEASONAL AND SHORTER-TERM VARIATIONS IN ATMOSPHERIC NITRATE IN BALTIMORE
SEUNGSHIK PARK, David Harrison, John Ondov, University of Maryland, College Park, MD
- 6PD8 DIURNAL VARIATIONS OF ULTRA-FINE PARTICLES IN PITTSBURGH MEASURED BY A RAPID SINGLE-PARTICLE MASS SPECTROMETER
YONGJING ZHAO, Keith Bein, Anthony S. Wexler, University of California, Davis, CA; Murray V. Johnston, University of Delaware, Newark, DE
- 6PD9 ION BALANCES OF SIZE-DIFFERENTIATED AEROSOLS DURING THE 2003 GAS PARTICLE PARTITIONING (GPP) STUDY IN MEXICO CITY
MIREYA MOYA, Michel Grutter, Telma Castro, Armando Baez, Centro de Ciencias de la Atmosfera, UNAM, Mexico City, Mexico
- 6PD10 ESTIMATION OF SECONDARY ORGANIC CARBON AT A SEMI-URBAN SITE IN THE SOUTH COAST AIR BASIN
KWANGSAM NA, Chen Song, Aniket Sawant, Kathalena Cocker, David Cocker III, CE-CERT/University of California, Riverside, CA
- 6PD11 CHEMICAL AND MINERALOGICAL COMPOSITION OF SIZE-SEGREGATED ATMOSPHERIC AEROSOL IN A SEMI-RURAL AREA AT CASTELLON (SPAIN)
VICENTE ESTEVE, Francisco Ramos, Amparo Aparici, Juana Maria Delgado, Gabriel Peris, Universidad Jaume I, Castellon, Spain; Jose Maria Amigo, Universidad de Valencia, Valencia, Spain
- 6PD12 METEOPARAMETERS INFLUENCE ON AEROSOL MASS CONCENTRATION
ANDREI JOURAVLEV, Olga Khiutorova, Guerman Teptin, Kazan State University, Kazan, Russia

Technical Program (updated August 27, 2003)

6PE Condensation

Pacific Ballroom D

1:40 PM - 2:40 PM

- 6PE5 THE EFFECT OF LATENT HEAT ON DROPLET GROWTH IN THE LIMIT OF VANISHING SUPERSATURATION
ADAM OLSEN, Richard Flagan, California Institute of Technology, Pasadena, CA
- 6PE6 MEAN FIELD THEORY FOR VAPOUR CONCENTRATION DURING CONDENSATION ON AEROSOLS
CHARLES CLEMENT, Enviros-QuantiSci, Wantage, Oxfordshire, UK
- 6PE7 DIRECT MIXING RATIO AND TEMPERATURE MEASUREMENTS IN A SUPERSONIC NOZZLE
Barbara Wyslouzil, YURY ZVINEVICH, Murad Gharibeh, Worcester Polytechnic Institute, Worcester, MA; Mark Zahniser, Joanne Shorter, David Nelson, Barry Mcmanus, Aerodyne Research Inc., Billerica, MA
- 6PE8 SIZE DIFFUSION IN THE GROWTH OF NEW AEROSOL BY CONDENSATION OF VOLATILES
CHARLES CLEMENT, Enviros-QuantiSci, Wantage, Oxfordshire, UK; Kari Lehtinen, Markku Kulmala, University of Helsinki, Helsinki, Finland
- 6PE9 ELECTRODYNAMIC FOCUSING OF CHARGED PARTICLES USING THE QUADRUPOLE ELECTRIC FIELD
JIN-YOUNG CHOI, Korea Advanced Institute of Science and Technology, Daejeon, Korea; Seok-Joo Park, Korea Institute of Energy Research, Daejeon, Korea; Sang Soo Kim, Korea Advanced Institute of Science and Technology, Daejeon, Korea
- 6PE10 OZONE MEASUREMENTS IN SOUTH CAROLINA USING PASSIVE METHODS
CHRISTOS CHRISTOFOROU, Anna Franklin, Clemson University, Anderson, SC
- 6PE11 MEASUREMENT OF DILUTION CHARACTERISTICS FOR TAILPIPE EMISSIONS FROM VEHICLES
WEI-CHUNG CHANG, Stanford University, Stanford, CA; Cheng-Hsin Chang, Kuang-Jung Cheng, Tamkang University, Taipei, Taiwan; Lynn M. Hildemann, Stanford University, Stanford, CA

Technical Program (updated August 27, 2003)

Wednesday, October 22, 2003

Platform Session #7

2:40 PM - 4:35 PM

7A Exposure Assessment I

Laguna A/B

Chair: Risa Robinson, Co-chair: Perng-Jy Tsai

2:40 PM - 4:35 PM

- 7A1
2:40 PM PRELIMINARY STUDIES OF GENERATION, EXPOSURE, AND TOXICITY OF CARBON NANOTUBES
PAUL BARON, Andrew Maynard, National Institute for Occupational Safety and Health, Cincinnati, OH; Anna Shvedova, Elena Kisin, Ashley Murray, National Institute for Occupational Safety and Health, Morgantown, WV; Vadim Gandelsman, Science Applications International Corporation, Houston, TX; Michael Foley, Comprehensive Health Services, Houston, TX; Vincent Castranova, National Institute for Occupational Safety and Health, Morgantown, WV
- 7A2
3:00 PM ESTIMATING AEROSOL SURFACE-AREA EXPOSURE FROM COOKING-RELATED AEROSOL IN INDIA: A COMPARISON OF SURFACE-AREA ESTIMATES USING DIFFUSION CHARGING, AND REAL-TIME NUMBER AND MASS CONCENTRATION MEASUREMENTS.
ANDREW MAYNARD, NIOSH, Cincinnati, OH; Pramod Pai, University of Mysore, Mysore, India; Penny Andresen, University of Minnesota, Minneapolis, MN; Belagur Prasad, University of Mysore, Mysore, India; Gurumurthy Ramachandran, University of Minnesota, Minneapolis, MN
- 7A3
3:20 PM SAMPLING AND ANALYSIS OF DIESEL PARTICULATE MATTERS IN AN UNDERGROUND LIME STONE MINE
MINGMING LU, Zifei Liu, Fuyan Liang, University of Cincinnati, Cincinnati, OH
- 7A4
3:40 PM OCCURRENCE OF PRIMARY BIOLOGICAL MATERIALS IN THE ATMOSPHERE: PROTEIN, CARBOHYDRATE AND ENDOTOXIN ASSOCIATIONS WITH PARTICULATE MATTER IN TEMPERATE REGION URBAN AEROSOLS
Largus Angenent, Washington University, St. Louis, MO; Lisa Clarke, University of Colorado, Boulder, CO; Allen Robinson, Carnegie Mellon University, Pittsburgh, PA; MARK HERNANDEZ, University of Colorado, Boulder, CO
- 7A5
4:00 PM ASSESSING FREE SILICA EXPOSURES FOR INCINERATOR DEMOLITION WORKERS
PERNG-JY TSAI, Lu Pao-Yin, National Chen Kung University, Tainan, Taiwan; Tang Da-Toung, Institute of Occupational Safety and Health, Taipei, Taiwan
- 4:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 7PA6-7PA13 (1 min each).

Technical Program (updated August 27, 2003)

- 7B California Regional Particulate Air Quality Study** Avila A/B
Chair: Jeff Collett, Co-chair: Karen Magliano 2:40 PM - 4:35 PM
- 7B1 2:40 PM FOG PROCESSING OF ATMOSPHERIC ORGANIC COMPOUNDS DURING THE CALIFORNIA REGIONAL PM10/PM2.5 AIR QUALITY STUDY (CRPAQS)
PIERRE HERCKES, Taehyoung Lee, Laurie Trenary, Gongunn Kang, Jeffrey L. Collett, Colorado State University, Fort Collins, CO
- 7B2 3:00 PM FUGITIVE DUST CONCENTRATIONS IN THE SAN JOAQUIN VALLEY
RICHARD COUNTESS, Susan Countess, Countess Environmental, Westlake Village, CA
- 7B3 3:20 PM EVALUATION OF TRANSPORT OF PARTICULATE MATTER AND ITS PRECURSORS INTO AND OUT OF THE SAN JOAQUIN VALLEY, CALIFORNIA, USING TWO APPROACHES
CLINTON MACDONALD, Mark Lilly, Paul Roberts, Sonoma Technology, Inc., Petaluma, CA; Don Lehrman, Technical and Business Systems, Santa Rosa, CA
- 7B4 3:40 PM SIMULATING AIR QUALITY IN THE SAN JOAQUIN VALLEY WITH A SOURCE-ORIENTED EXTERNALLY MIXED AIRSHED MODEL; EVALUATION OF MODEL PERFORMANCE AND CONTROL STRATEGY EFFECTIVENESS
Michael Kleeman, ANTHONY HELD, University of California, Davis, CA; Ajith Kaduwela, California Air Resources Board, Sacramento, CA
- 7B5 4:00 PM CONTRIBUTIONS OF CHEMICAL CONSTITUENTS TO VISIBILITY REDUCTION DURING THE CALIFORNIA REGIONAL PM10/PM2.5 AIR QUALITY STUDY
STEVEN HEISLER, ENSR International, Camarillo, CA
- 4:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 7PB6-7PB12 (1 min each).
- 7C Heterogeneous Aerosol Chemistry I** El Capitan A/B
Chair: James Smith, Co-chair: Jose-Luis Jimenez 2:40 PM - 4:35 PM
- 7C1 2:40 PM REACTIONS OF OXIDES OF NITROGEN IN THIN FILMS OF WATER ON SURFACES
BARBARA FINLAYSON-PITTS, Ann Louise Sumner, Erik J. Menke, Reginald M. Penner, Dennis L. Syomin, Kevin A. Ramazan, Lisa M. Wingen, University of California, Irvine, CA
- 7C2 3:00 PM THE HETEROGENEOUS CHEMISTRY OF N₂O₅ AND HO₂ ON ORGANIC AEROSOLS
JONATHAN ABBATT, Joel Thornton, Christine Braban, University of Toronto, Toronto, ON, Canada
- 7C3 3:20 PM THE INTERACTION OF NH₃ WITH PARTICLES
DAVE HANSON, NCAR, Boulder, CO
- 7C4 3:40 PM COMPARISON OF N₂O₅ HYDROLYSIS USING GAS PHASE OR HETEROGENEOUS KINETICS IN SEVERAL AIR QUALITY MODELING STUDIES
GAIL TONNESEN, University of California, Riverside, CA
- 7C5 4:00 PM INORGANIC PARTICLE FORMATION IN POLLUTED COASTAL REGIONS: COMPARISONS BETWEEN MEASUREMENTS AND MODELS DURING PACIFIC2001.
PAUL MAKAR, Environment Canada, Downsview, ON, Canada; Sara Pryor, Indiana University, Bloomington, IN; Hacene Boudries, Aerodyne Research Inc., Billerica, MA; Katherine Hayden, Kurt Anlauf, Environment Canada, Downsview, ON, Canada
- 4:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 7PC6-7PC12 (1 min each).

Technical Program (updated August 27, 2003)

- 7D Urban/Regional Aerosol** *Huntington A/B/C*
Chair: Lynn Russell, Co-chair: Paul Fraser *2:40 PM - 4:35 PM*
- 7D1 SHORT-TERM AND SEASONAL BEHAVIOR OF PM_{2.5}, NITRATE, SULFATE, AND EC/OC
2:40 PM AT THE BALTIMORE SUPERSITE IN 2002
SEUNGSHIK PARK, John Ondov, David Harrison, Narayanan Nair, University of Maryland, College Park, MD
- 7D2 MEASUREMENT OF PM_{2.5} SEMI-VOLATILE MATERIAL WITH THE FDMS TEOM MONITOR
3:00 PM *Brett D. Grover, Michael Kleinman, Norman L. Eatough, DELBERT J. EATOUGH, Brigham Young University, Provo, UT*
- 7D3 DYNAMIC DATA CLASSIFICATION USING A COMPONENT-WEIGHTED SIMILARITY
3:20 PM ALGORITHM
KEITH BEIN, Yongjing Zhao, Anthony Wexler, University of California, Davis, CA
- 7D4 SULFATE IN SINGLE PARTICLES AT THE BALTIMORE SUPERSITE
3:40 PM *MURRAY JOHNSTON, Derek Lake, Michael Tolocka, University of Delaware, Newark, DE; Anthony Wexler, University of California, Davis, CA*
- 7D5 OVERVIEW OF FOG STUDIES DURING THE CALIFORNIA REGIONAL PM₁₀/PM_{2.5} AIR
4:00 PM QUALITY STUDY (CRPAQS)
JEFFREY L. COLLETT, Taehyoung Lee, Hui Chang, Pierre Herckes, Colorado State University, Fort Collins, CO
- 4:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 7PD6-7PD15 (1 min each).
- 7E Emissions II** *Palos Verdes A/B*
Chair: Micheal Kleeman, Co-chair: Barbara Zielinska *2:40 PM - 4:35 PM*
- 7E1 AIR CONTAMINANTS FROM LAGUARDIA AIRPORT, QUEENS, NY
2:40 PM *BEVERLY COHEN, Maire Heikkinen, Arthur Nádas, New York University School of Medicine, Tuxedo, NY*
- 7E2 A SEASONALLY AND GEOGRAPHICALLY RESOLVED NATIONAL INVENTORY OF
3:00 PM AMMONIA EMISSIONS FROM DAIRY FARMS: MODEL DEVELOPMENT AND
COMPARISON WITH AMBIENT MEASUREMENTS
ROBERT PINDER, Natalie Anderson, Ross Strader, Cliff Davidson, Peter Adams, Carnegie Mellon University, Pittsburgh, PA
- 7E3 USE OF A MOBILE LABORATORY TO CHARACTERIZE IN-USE VEHICLE AND OTHER
3:20 PM EMISSIONS IN MEXICO CITY AREA
JOHN JAYNE, Scott Herndon, Aerodyne Research Inc., Billerica, MA; Berk Knighton, Montana State University, Bozeman, MT; Tim Onasch, Phil Mortimer, Manujula Canagartna, Aerodyne Research Inc., Billerica, MA; Ed Dunlea, Linsey Marr, Massachusetts Institute of Technology, Cambridge, MA; Charles Kolb, Aerodyne Research Inc., Billerica, MA; Jose Jimenez, University of Colorado, Boulder, CO; Doug Worsnop, Aerodyne Research Inc., Billerica, MA
- 7E4 DOE'S GASOLINE/DIESEL PM SPLIT STUDY - SOURCE CHARACTERIZATIONS AND
3:40 PM APPORTIONMENT
ERIC FUJITA, David Campbell, Barbara Zielinska, William Arnott, Judith Chow, Desert Research Institute, Reno, NV; Douglas Lawson, National Renewable Energy Laboratory, Golden, CO

Technical Program (updated August 27, 2003)

- 7E5
4:00 PM THE CORRELATION OF LUBRICATING OIL AND FUEL ORGANIC COMPOSITION WITH
TAILPIPE EMISSIONS
*BARBARA ZIELINSKA, Eric Fujita, John Sagebiel, Mark McDaniel, Desert Research
Institute, Reno, NV; Douglas R. Lawson, National Renewable Energy Laboratory, Golden,
CO*
- 4:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 7PE6-7PE14 (1 min each).

Technical Program (updated August 27, 2003)

Thursday, October 23, 2003

Plenary #3

8:00 AM - 9:00 AM

Pacific Ballroom A/B

8:05 AM ELECTROSPRAY WINGS FOR MOLECULAR ELEPHANTS
Dr. John Fenn
Research Professor, Department of Chemistry, Virginia Commonwealth University
Professor Emeritus, Department of Chemical Engineering, Yale University, New Haven
Connecticut, USA

8:50 AM PRESENTATION OF THE WHITBY AWARD
Lynn Hildemann

Technical Program (updated August 27, 2003)

Thursday, October 23, 2003

Platform Session #8

9:30 AM - 10:45 AM

8A Chemical and Biological Agent Detection 1

Laguna A/B

Chair: David Fergenson, Co-chair: Jim Ho

9:30 AM - 10:45 AM

8A1
9:30 AM AEROSOL TECHNOLOGY FOR DEVELOPING AND TESTING BIOLOGICAL AGENT
DETECTORS, BASIC PRINCIPLES
WILLIAM HINDS, University of California, Los Angeles, CA

8A2
9:50 AM AEROSOL TECHNOLOGY FOR DEVELOPING AND TESTING BIOLOGICAL AGENT
DETECTORS, APPLICATIONS
EDWARD STUEBING, US Army Edgewood CB Center, Aberdeen Proving Ground, MD

8A3
10:10 AM IS IT POSSIBLE TO MONITOR BIOLOGICAL HAZARDS ON 24X7 BASIS?
JIM HO, Defence R & D Canada Suffield, Medicine Hat, AB, Canada

10:10 AM POSTER PREVIEW
This session ends with a brief presentation of posters 8PA4-8PA8 (1 min each).

8B Deposition: Modeling

Avila A/B

Chair: Beverly Cohen, Co-chair: Zongqin Zhang

9:30 AM - 10:45 AM

8B1
9:30 AM "LA FAMILIA" - HUMAN MALE, FEMALE, AND CHILD TRACHEOBRONCHIAL HOLLOW
AIRWAY MODELS
*RODNEY CLINKENBEARD, University of Oklahoma, Oklahoma City, OK; Michael Oldham,
University of California, Irvine, CA; Terri Pearce, Enercon Services Inc., Oklahoma City, OK*

8B2
9:50 AM A NEW MATHEMATICAL MODEL FOR THE GEOMETRY OF ASYMMETRIC AIRWAYS
*DONG YOUB LEE, Seong Suk Park, University of California, Davis, CA; George A.
Ban-Weiss, University of California, Berkeley, CA; Anthony S. Wexler, University of California,
Davis, CA*

8B3
10:10 AM TRANSPORT AND DEPOSITION OF NANO-SIZE PARTICLES IN THE UPPER HUMAN
RESPIRATORY AIRWAYS
*ZHE ZHANG, Huawei Shi, Clement Kleinstreuer, North Carolina State University, Raleigh,
NC; Chong Kim, US EPA, Research Triangle Park, NC*

10:10 AM POSTER PREVIEW
This session ends with a brief presentation of posters 8PB4-8PB11 (1 min each).

Technical Program (updated August 27, 2003)

- 8C Clouds & Fog** *El Capitan A/B*
Chair: Sara Pryor, Co-chair: Robert Griffin *9:30 AM - 10:45 AM*
- 8C1 MEASUREMENTS OF ORGANIC CLOUD CONDENSATION NUCLEI
9:30 AM *CYNTHIA TWOHY, Oregon State University, Corvallis, OR; James Anderson, Peter Crozier, Arizona State University, Tempe, AZ*
- 8C2 DEVELOPMENT OF MIXED-PHASE CLOUDS FROM MULTIPLE AEROSOL SIZE
9:50 AM DISTRIBUTIONS AND THE EFFECTS OF THE CLOUDS ON AEROSOL REMOVAL
MARK JACOBSON, Stanford University, Stanford, CA
- 8C3 MEASUREMENTS OF SUMMERTIME CLOUD-AEROSOL INTERACTIONS AT THE
10:10 AM JUNGFRAUJOCH MOUNTAIN-TOP SITE IN THE SWISS ALPS
KEITH BOWER, UMIST, Manchester, UK
- 10:10 AM POSTER PREVIEW
This session ends with a brief presentation of posters 8PC4-8PC10 (1 min each).
- 8D Bioaerosols & Biomass Burning** *Huntington A/B/C*
Chair: Paul Makar, Co-chair: Lynn Russell *9:30 AM - 10:45 AM*
- 8D1 CORRELATING BIOAEROSOL LOAD WITH PM_{2.5} AND PM₁₀ CONCENTRATIONS
9:30 AM *JUSTIN BORESON, Jordan Peccia, Ann Dillner, Arizona State University, Tempe, AZ*
- 8D2 MEASUREMENTS OF PARTICLE DIAMETER GROWTH FACTORS OF A BIOMASS
9:50 AM BURNING INFLUENCED AEROSOL
CHRISTIAN CARRICO, Sonia Kreidenweis, Jeffrey Collett, Colorado State University, Fort Collins, CO; William Malm, National Park Service, Colorado State University, Fort Collins, CO
- 8D3 OBSERVATIONS OF CARBON, NITROGEN AND SULFUR SPECIES IN BIOMASS BURNING
10:10 AM EVENTS
ERIC EDGERTON, Benjamin Hartsell, ARA Inc., Plano, TX; John Jansen, Southern Company, Birmingham, AL; Alan Hansen, EPRI, Palo Alto, CA
- 10:10 AM POSTER PREVIEW
This session ends with a brief presentation of posters 8PD4-8PD11 (1 min each).

Technical Program (updated August 27, 2003)

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|-----------------|--|---------------------------|
| 8E | Combustion and Environmental Aerosol Formation II | <i>Palos Verdes A/B</i> |
| | <i>Chair: David Cocker, Co-chair: Charles Stanier</i> | <i>9:30 AM - 10:45 AM</i> |
| 8E1 9:30 AM | DEVELOPMENT OF A MODEL FOR ASH AEROSOL FORMATION UNDER PRESSURIZED COAL COMBUSTION CONDITIONS <i>AURA C. DÁVILA, Joseph J. Helble, University of Connecticut, Storrs, CT</i> | |
| 8E2 9:50 AM | CHARACTERIZATION OF ON-ROAD GASEOUS AND PM EMISSIONS FROM HEAVY DUTY DIESEL VEHICLES BY DIRECT EXHAUST HOOKUP <i>DAVID COCKER, Sandip Shah, Kent Johnson, Wayne Miller, Joseph Norbeck, CE-CERT/University of California, Riverside, CA</i> | |
| 8E3 10:10 AM | FINE PARTICLE FORMATION IN HEAVY FUEL OIL COMBUSTION - THE EFFECT OF VANADIUM AND SULPHUR <i>JORMA JOKINIEMI, Jouni Hokkinen, Jussi LyyrŠnen, VTT Processes, Finland</i> | |
| 10:10 AM | POSTER PREVIEW <i>This session ends with a brief presentation of posters 8PE4-8PE11 (1 min each).</i> | |

Technical Program (updated August 27, 2003)

Thursday, October 23, 2003

Platform Session #9

11:00 AM - 12:35 PM

9A Heterogeneous Aerosol Chemistry II

Laguna A/B

Chair: Barbara Finlayson-Pitts, Co-chair: Douglas Worsnop

11:00 AM - 12:35 PM

- 9A1 THE REACTIVE UPTAKE OF OZONE ON DRY NaCl AND BR-DOPED NaCl
11:00 AM JOHN C. HEMMINGER, John T. Newberg, University of California, Irvine, CA
- 9A2 HETEROGENEOUS CHEMISTRY OF MINERAL DUST AND SEASALT FOLLOWED BY
11:20 AM SINGLE PARTICLE ANALYSIS
VICKI GRASSIAN, Brenda Krueger, University of Iowa, Iowa City, IA; Alexander Laskin, James Cowin, Pacific Northwest National Laboratory, Richland, WA
- 9A3 SURFACTANT CONTROL OF HCL UPTAKE INTO SUPERCOOLED SULFURIC ACID
11:40 AM SOLUTIONS
JENNIFER LAWRENCE, Samuel Glass, Gilbert Nathanson, University of Wisconsin, Madison, WI
- 9A4 MASS ACCOMMODATION COEFFICIENTS AT LIQUID-VAPOR INTERFACES:
12:00 PM THEORETICAL ANALYSIS BY MOLECULAR DYNAMICS AND FLUID DYNAMICS CALCULATIONS
AKIHIRO MORITA, Kyoto University, Kyoto, Japan; Masakazu Sugiyama, Hirofumi Kameda, University of Tokyo, Tokyo, Japan; Seiichiro Koda, Sophia University, Tokyo, Japan; David Hanson, NCAR, Boulder, CO
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 9PA5-9PA11 (1 min each).

9B Deposition: Experimental

Avila A/B

Chair: Risa Robinson, Co-chair: Brian Wong

11:00 AM - 12:35 PM

- 9B1 DEPOSITION DISTRIBUTION AMONG THE PARALLEL PATHWAYS IN THE HUMAN LUNG
11:00 AM CONDUCTING AIRWAY STRUCTURE
CHONG KIM, US EPA, US EPA, Research Triangle Park, NC; Zhe Zhang, Clement Kleinstreuer, North Carolina State University, Raleigh, NC
- 9B2 DEPOSITION OF PARTICLE SURFACE AREA IN THE HUMAN RESPIRATORY TRACT:
11:20 AM RELATION TO PARTICLE CONCENTRATION (NUMBER, SURFACE AREA, AND VOLUME) AND TO THE "ACTIVE" SURFACE AREA AS MEASURED BY A DIFFUSION CHARGER.
WILLIAM E. WILSON, US EPA, Research Triangle Park, NC; Hee-Siew Han, University of Minnesota, Minneapolis, MN; John Stanek, US EPA, Research Triangle Park, NC; Jay Turner, Washington University, St. Louis, MO; David Y. H. Pui, University of Minnesota, Minneapolis, MN
- 9B3 DRY POWDER INHALER (DPI) DRUG DELIVERY ENHANCEMENT USING A NEWLY
11:40 AM DEVELOPED ADD-ON SPACER
Edgar Matida, Warren Finlay, CARLOS LANGE, Mark Rimkus, Biljana Grgic, University of Alberta, Edmonton, AB, Canada
- 9B4 PARTICLE DEPOSITION MEASUREMENTS AND NUMERICAL SIMULATION IN HIGHLY
12:00 PM IDEALIZED MOUTH-THROATS
YU ZHANG, Warren Finlay, Edgar Matida, University of Alberta, Edmonton, AB, Canada

POSTER PREVIEW

Technical Program (updated August 27, 2003)

- 9C Carbonaceous Aerosol** *El Capitan A/B*
Chair: Robert Griffin, Co-chair: Ed Edney 11:00 AM - 12:35 PM
- 9C1 AEROSOL ORGANIC-MASS-TO-ORGANIC-CARBON MEASUREMENTS
11:00 AM *LYNN RUSSELL, Princeton University, Princeton, NJ*
- 9C2 SOA FORMATION FROM THE IRRADIATION OF A-PINENE-NOX IN THE ABSENCE AND
11:20 AM PRESENCE OF SULFUR DIOXIDE
*TADEUSZ KLEINDIENST, Edward Edney, Michael Lewandowski, US EPA, Research
Triangle Park, NC; Mohammed Jaoui and Eric W. Corse, ManTech Environmental
Technology Inc., Research Triangle Park, NC*
- 9C3 ULTRA VIOLET LIGHT ABSORPTION BY ORGANIC GASES ADSORBED ONTO QUARTZ
11:40 AM FILTERS - THE POSITIVE ARTIFACT STRIKES AGAIN
*THOMAS KIRCHSTETTER, Melissa Lunden, Erin McNamara, Doug Black, Lara Gundel,
Lawrence Berkeley National Laboratory, Berkeley, CA*
- 9C4 SOA FORMATION FROM THE OZONE OXIDATION OF CYCLOALKENES
12:00 PM *MELITA KEYWOOD, Varuntida Varutbangkul, Roya Bahreini, Song Gao, Richard C. Flagan,
John H. Seinfeld, California Institute of Technology, Pasadena, CA*
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 9PC5-9PC12 (1 min each).
- 9D Numerical Modeling of Regional Aerosols I** *Huntington A/B/C*
Chair: Sara Pryor, Co-chair: Paul Makar 11:00 AM - 12:35 PM
- 9D1 ESTIMATING GAS PHASE CONCENTRATIONS OF AMMONIA AND NITRIC ACID: MCMC
11:00 AM IN THE MCMA
*FEDERICO SAN MARTINI , Massachusetts Institute of Technology, Cambridge, MA; Dara
Salcedo, Universidad Iberoamericana, Mexico City, Mexico; Manjula Canagaratna, Aerodyne
Research Inc., Billerica, MA; Jose Ortega, Massachusetts Institute of Technology,
Cambridge, MA; Douglas Worsnop, Aerodyne Research Inc., Billerica, MA; Luisa Molina,
Massachusetts Institute of Technology, Cambridge, MA; Charles Kolb, Aerodyne Research
Inc., Billerica, MA; Mario Molina, Gregory McRae, Massachusetts Institute of Technology,
Cambridge, MA*
- 9D2 IMAGES-SCAPE2: A MODELING STUDY OF TROPOSPHERIC SIZE AND CHEMICALLY
11:20 AM RESOLVED AEROSOL THERMODYNAMICS IN A GLOBAL CHEMICAL TRANSPORT
MODEL.
MARCO RODRIGUEZ, Donald Dabdub, University of California, Irvine, CA
- 9D3 SIMULATIONS OF MULTI-VARIATE AEROSOL POPULATIONS USING THE QUADRATURE
11:40 AM METHOD OF MOMENTS (QMOM)
*ROBERT MCGRAW, Brookhaven National Laboratory, Brookhaven, NY; Mauricio
Zurita-Gotor, Daniel E. Rosner, Yale University, New Haven, CT*
- 9D4 MODELLING ORGANIC AEROSOLS OVER EUROPE: APPLICATION AND
12:00 PM TESTING OF A UNIFAC-BASED APPROACH
*DAVID SIMPSON, Norwegian Meteorological Institute, Oslo, Norway; Paul Makar, Mike
Moran, Meteorological Service of Canada, Toronto, ON, Canada; Vigdis Vestreng, Norwegian
Meteorological Institute, Oslo, Norway*
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 9PD5-9PD12 (1 min each).

Technical Program (updated August 27, 2003)

9E Field Instrumentation

Palos Verdes A/B

Chair: Gilmore Sem, Co-chair: Charles Litton

11:00 AM - 12:35 PM

- 9E1 FIELD EXPERIENCE OF PORTABLE SMPS+C NANO PARTICLE SIZER
11:00 AM *CHRISTIAN GERHART, H. J. Grimm, Grimm Aerosol Technik GmbH, Ainring, Germany; M. Hein, Universität Karlsruhe, Karlsruhe, Germany*
- 9E2 AN IONIZATION CHAMBER/OPTICAL SCATTERING TECHNIQUE FOR DETERMINING
11:20 AM PARTICLE SIZE AND MASS CONCENTRATION OF SUBMICROMETER AEROSOLS
CHARLES LITTON, Jon C. Volkwein, National Institute for Occupational Safety and Health, Pittsburgh, PA
- 9E3 EXPERIMENTAL MEASUREMENTS OF ASPIRATION EFFICIENCY FOR IDEALIZED
11:40 AM SPHERICAL AEROSOL SAMPLERS IN CALM AIR
WEI-CHUNG SU, Lovelace Respiratory Research Institute, Albuquerque, NM; James H. Vincent, University of Michigan, Ann Arbor, MI
- 9E4 PERFORMANCE EVALUATION OF AN ACTIVE PERSONAL DATARAM PM2.5 MASS
12:00 PM MONITOR (THERMO ANDERSON PDR-1200) DESIGNED FOR CONTINUOUS PERSONAL
EXPOSURE MEASUREMENTS
BHABESH CHAKRABARTI, Philip M. Fine, Ralph Delfino, Constantinos Sioutas, University of Southern California, Los Angeles, CA
- 12:20 PM POSTER PREVIEW
This session ends with a brief presentation of posters 9PE5-9PE11 (1 min each).

Technical Program (updated August 27, 2003)

Thursday, October 23, 2003

Platform Session #10

2:10 PM - 4:25 PM

10A Heterogeneous Aerosol Chemistry III

Laguna A/B

Chair: Jon Abbat, Co-chair: Vicki Grassian

2:10 PM - 4:25 PM

- 10A1 KINETICS OF COMPLEX AEROSOL PROCESSES
2:10 PM DOUGLAS WORSNOP, Aerodyne Research, Billerica, MA
- 10A2 DELIQUESCENT AND EFFLORESCENCE OF DICARBOXYLIC ACID PARTICLES
2:30 PM ALLAN BERTRAM, Matthew Parsons, Jackson Mak, University of British Columbia,
Vancouver, BC, Canada
- 10A3 AEROSOL PRODUCTS AND MECHANISM OF THE HETEROGENEOUS REACTION OF
2:50 PM OZONE WITH OLEIC ACID IN PURE AND MIXED PARTICLES
PAUL ZIEMANN, Air Pollution Research Center, University of California, Riverside, CA
- 10A4 ORGANIC AEROSOL GROWTH BY HETEROGENEOUS ACID-CATALYZED REACTIONS
3:10 PM OF DIVERSE ORGANIC CARBONYLS IN THE PRESENCE OF DIFFERENT SEED
AEROSOLS
MYOSEON JANG, Di Hu, Nadine Czoschke, Richard Kamens, University of North Carolina,
Chapel Hill, NC
- 10A5 INSIGHTS ON NUCLEATION BURST AND NUCLEI GROWTH DURING PARTICLE
3:30 PM NUCLEATION IN PITTSBURGH FROM AEROSOL MASS SPECTROMETRY
QI ZHANG, University of Colorado, Boulder, CO; Charles Stanier, Carnegie Mellon
University, Pittsburgh, PA; Manjula Canagaratna, John Jayne, Douglas Worsnop, Aerodyne
Research Inc., Billerica, MA; Spyros Pandis, Carnegie Mellon University, Pittsburgh, PA;
Jose-Luis Jimenez, University of Colorado, Boulder, CO
- 10A6 THE SIZE & COMPOSITION DEPENDENCE OF NITRIC ACID REACTIVE UPTAKE ONTO
3:50 PM MARINE AEROSOL NANO-DROPLETS
THOMAS SAUL, Murray Johnston, University of Delaware, Newark, DE
- 4:10 PM POSTER PREVIEW
This session ends with a brief presentation of posters 10PA7-10PA13 (1 min each).

Technical Program (updated August 27, 2003)

10B Chemical and Biological Agent Detection

Avila A/B

Chair: Kermit Murray, Co-chair: Kapil Pant

2:10 PM - 4:25 PM

- 10B1 REAGENTLESS REAL-TIME IDENTIFICATION OF INDIVIDUAL MICROORGANISMS BY BIOAEROSOL MASS SPECTROMETRY
2:10 PM *ERIC E. GARD, David P. Fergeson, Keith R. Coffee, Maurice E. Pitesky, Herbert J. Tobias, Paul T. Steele, Lawrence Livermore National Laboratory, Berkeley, CA; Gregg A. Czerwieniec, Scott C. Russell, Carlito B. Lebrilla, University of California, Davis, CA; Joanne M. Horn, Matthias Frank, Lawrence Livermore National Laboratory, Berkeley, CA*
- 10B2 THE LATEST DEVELOPMENTS IN THE AEROSOL LASER TIME-OF-FLIGHT MASS SPECTROMETER FOR THE CHEMICAL ANALYSIS OF AEROSOL PARTICLES ON-LINE, WITH AN EMPHASIS ON BIO-AEROSOLS
2:30 PM *JAN C.M. MARIJNISSEN, Arjan L. Van Wuijckhuijse, Michael A. Stowers, Delft University of Technology, Delft, Netherlands*
- 10B3 LASER DESORPTION MASS SPECTROMETRY FOR BIOAEROSOL DETECTION
2:50 PM *KERMIT MURRAY, Shelly Jackson, Sushama Mishra, Jae-kuk Kim, Louisiana State University, Baton Rouge, LA*
- 10B4 DETECTION AND CLASSIFICATION OF BIOLOGICAL AEROSOLS USING LASER-INDUCED BREAKDOWN SPECTROSCOPY
3:10 PM *STEVEN G. BUCKLEY, Gregg A. Lithgow, University of Maryland, College Park, MD; John D. Hybl, MIT Lincoln Laboratory, Lexington, MA*
- 10B5 FTIR MICROSCOPY OF MICROBIOLOGICAL CLUSTERS
3:30 PM *HORN-BOND LIN, Naval Research Laboratory, Washington, DC; Cathy Scotto, Virginia Polytechnic Institute & State University, Blacksburg, VA; Jay Eversole, Anthony Campillo, Naval Research Laboratory, Washington, DC*
- 10B6 AEROSOL DISPERSION AND DEPOSITION IN IDEALIZED URBAN SCENARIOS: LARGE EDDY SIMULATIONS
3:50 PM *KAPIL PANT, Shivshankar Sundaram, CFD Research Corporation, Huntsville, AL*
- 4:10 PM POSTER PREVIEW
This session ends with a brief presentation of posters 10PB7-10PB12 (1 min each).

Technical Program (updated August 27, 2003)

- 10C Carbonaceous Aerosol** *El Capitan A/B*
Chair: Rebecca Barthelmie, Co-chair: Francis Binkowski *2:10 PM - 4:25 PM*
- 10C1 COMPOSITION OF PM_{2.5} IN RESEARCH TRIANGLE PARK, NORTH CAROLINA, USA
2:10 PM DURING THE WINTER OF 2003
Edward Edney, MICHAEL LEWANDOWSKI, Tadeusz Kleindienst, US EPA, Research Triangle Park, NC; Mohammed Jaoui, MANTECH ENVIRONMENTAL TECHNOLOGY INC., Research Triangle Park, NC
- 10C2 ORGANIC COMPOUNDS MEASURED AT CHINESE, INDIAN, AND WESTERN FOOD
2:30 PM STALLS
LIYA YU, Hwee Ting Lim, Feng Xu, National University of Singapore, Singapore
- 10C3 FINE PARTICLE FORMATION AND PROCESSING IN A SIERRA NEVADA FOREST.
2:50 PM *MELISSA LUNDEN, Douglas Black, Nancy Brown, Lawrence Berkeley National Laboratory, Berkeley, CA; Anita Lee, University of California, Berkeley, CA; Gunnar Schade, University of Bremen, Bremen, Germany; Allen Goldstein, University of California, Berkeley, CA*
- 10C4 INCREASE IN ABSORPTION OF DIESEL SOOT AEROSOL DUE TO COATING WITH
3:10 PM NON-ABSORBING MATERIAL
WERNER SCHOECK, Harald Saathoff, Martin Schnaiter, Robert Wagner, Institute of Meteorology and Climate Research, Karlsruhe, Germany
- 10C5 A NEW NON AMBIGUOUS ANALYTICAL TECHNIQUE FOR THE IDENTIFICATION OF
3:30 PM AEROSOL OXYGENATED COMPOUNDS
MOHAMMED JAOUI, Eric Corse, ManTech Environmental Technology Inc., Research Triangle Park, NC; Tadeusz Kleindienst, Michael Lewandowski, Edward Edney, National Exposure Research Laboratory, US EPA, Research Triangle Park, NC
- 10C6 VARIATIONS IN THE AVERAGE DAILY COMPOSITION OF THE ORGANIC FRACTION OF
3:50 PM PM_{2.5} IN THE URBAN ATMOSPHERE
James Schauer, MIN-SUK BAE, University of Wisconsin, Madison, WI; Jay Turner, Washington University, St. Louis, MO
- 4:10 PM POSTER PREVIEW
This session ends with a brief presentation of posters 10PC7-10PC14 (1 min each).

Technical Program (updated August 27, 2003)

| | | |
|-----------------|---|--------------------------|
| 10D | Analytical Techniques & Methods Intercomparison | <i>Huntington A/B/C</i> |
| | <i>Chair: David Ensor, Co-chair: Barbara Zielinska</i> | <i>2:10 PM - 4:25 PM</i> |
| 10D1 2:10 PM | KEN WHITBY AND THE BIMODAL DISTRIBUTION: ON THE ROAD TO FINE AND COARSE PARTICULATE MATTER STANDARDS <i>WILLIAM WILSON, US EPA, Research Triangle Park, NC</i> | |
| 10D2 2:30 PM | KENNETH T. WHITBY: A PERSONAL PERSPECTIVE <i>EVAN WHITBY, Chimera Technologies Inc., Forest Lake, MN</i> | |
| 10D3 2:50 PM | SAMPLING ARTIFACTS OF ACIDITY AND IONIC SPECIES IN PM _{2.5} <i>RAVI KANT PATHAK, Chak K. Chan, Xiaohong Yao, Hong Kong University of Science and Technology, Kowloon, Hong Kong</i> | |
| 10D4 3:10 PM | DETERMINING COARSE PARTICULATE MATTER CONCENTRATIONS: A PERFORMANCE EVALUATION OF CANDIDATE METHODOLOGIES UNDER WINTERTIME CONDITIONS <i>PAUL SOLOMON, Thomas Ellestad, Teri Conner, Roy Zweidinger, Mary Harmon, US EPA, Office of Research and Development, Las Vegas, NV; Tim Hanley, Byrd Lee Ann, Richard Scheffe, US EPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC; Robert Vanderpool, Robert Murdoch, Sanjay Natarajan, Christopher Noble, Research Triangle Institute c/o US EPA; Jeff Ambs, Rupprecht & Patashnick Inc., Albany, NY; Gil J. Sem, TSI Inc., St. Paul, MN; John Tisch, Tisch Environmental Inc., Cleves, OH</i> | |
| 10D5 3:30 PM | ABSORPTION COEFFICIENT MEASUREMENTS OF AEROSOL PARTICLE AGGLOMERATES <i>CARY PRESSER, Joseph Conny, Ashot Nazarian, National Institute of Standards and Technology, Gaithersburg, MD</i> | |
| 10D6 3:50 PM | RETRIEVAL OF AEROSOL MICROPHYSICAL PARAMETERS FROM A LIMITED SET OF MEASURED CHARACTERISTICS OF SCATTERED RADIATION <i>MIKHAIL PANCHENKO, Institute of Atmospheric Optics, Tomsk, Russia; Mikhail Sviridenkov, A.M.Obukhov, Institute of Atmospheric Physics, Moscow, Russia; Svetlana Terpugova, Valerii Kozlov, Institute of Atmospheric Optics, Torrisk, Russia; Alexander Kozlov, Alexander Ankilov, Anatoli Baklanov, Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia</i> | |
| 4:10 PM | POSTER PREVIEW <i>This session ends with a brief presentation of posters 10PD7-10PD14 (1 min each).</i> | |

Technical Program (updated August 27, 2003)

10E Mass Spectrometry

Palos Verdes A/B

Chair: Kimberly Prather, Co-chair: Denis Phares

2:10 PM - 4:25 PM

- 10E1
2:10 PM QUANTITATIVE ANALYSIS OF SINGLE PARTICLE MASS SPECTROMETRY DATA FOR AMBIENT CARBONACEOUS AEROSOLS
JONATHAN O. ALLEN, Arizona State University, Tempe, AZ; Jeffrey R. Whiteaker, Segio A. Guazzotti, University of California, San Diego, La Jolla, CA ; Prakash V. Bhave, California Institute of Technology, Pasadena, CA; Kimberly A. Prather, University of California, San Diego, La Jolla, CA
- 10E2
2:30 PM PROGRESS IN EXTERNAL ABLATION AND IONIZATION OF AIRBORNE PARTICLES--HOPE FOR REAL-TIME QUANTITATIVE PARTICLE ANALYSIS
PETER T. A. REILLY, Sven Hoffmann, William B. Whitten, J. Michael Ramsey, Oak Ridge National Laboratory, Oak Ridge, TN
- 10E3
2:50 PM DEPENDENCE ON MASS AND CHARGE OF THE ELECTRICAL MOBILITY OF POLYETHYLENE GLYCOL CHAINS
SVEN UDE, Juan Fernandez De La Mora, Yale University, New Haven, CT; Bruce Thomson, Sciex, Concord, ON, Canada
- 10E4
3:10 PM MICRO ELECTRICAL MOBILITY CLASSIFIER
RICHARD FLAGAN, California Institute of Technology, Pasadena, CA
- 10E5
3:30 PM SINGLE PARTICLE STUDIES OF POLYMER CRYSTAL NUCLEATION FROM SOLUTION
ADAM OLSEN, Richard Flagan, Julia Kornfield, California Institute of Technology, Pasadena, CA
- 10E6
3:50 PM DEVELOPMENT OF A MASSIVE AIR SAMPLER FOR COLLECTING ATMOSPHERIC FALLOUT FROM NUCLEAR TESTS OR ACCIDENTS
YUNG SUNG CHENG, Wei Chung Su, Yue Zhou, Lovelace Respiratory Research Institute, Albuquerque, NM; Andrew McFarland, Hammad Irshad, Texas A&M University, College Station, TX
- 4:10 PM POSTER PREVIEW
This session ends with a brief presentation of posters 10PE7-10PE12 (1 min each).

Technical Program (updated August 27, 2003)

Thursday, October 23, 2003

Poster Session #3 and Exhibits. Refreshments provided.

4:30 PM - 6:30 PM

Pacific Ballroom D

7PA Exposure Assissment I

Pacific Ballroom D

4:30 PM - 5:30 PM

- 7PA6 CHARACTERISTICS OF DUST AND FREE SILICA EXPOSURES FOR WORKERS IN THE REFRACTORY MATERIAL MANUFACTURING INDUSTRY
PERNG-JY TSAI, Li-Fang Su, National Chen Kung University, Tainan, Taiwan; Ming-S-Hsiu Lin, Institute of Occupational Safety and Health, Taipei, Taiwan
- 7PA7 ULTRAFINE PARTICLES FORMATION IN WELDING AND GRINDING
ARI UKKONEN, Dekati Ltd., Tampere, Finland; Rainer Schimberg, Tampere Regional Institute of Occupational Health, Tampere, Finland
- 7PA8 A SIMPLE MODEL TO PREDICT ULTRAFINE PARTICLES NEAR MAJOR HIGHWAYS
YIFANG ZHU, William Hinds, University of California, Los Angeles, CA
- 7PA9 AUTOMATED ELEMENTAL SIZE DISTRIBUTION ANALYSES AND CHARACTERIZATION OF PASSIVE AFROSOI SAMPI ES FROM NEW YORK CITY
JEFF WAGNER, California Department of Health Services, Environmental Health Laboratory Branch, Berkeley, CA; Nathan Wood, University of San Francisco, San Francisco, CA; Stephen Wall, California Department of Health Services, Environmental Health Laboratory Branch, Berkeley, CA
- 7PA10 FIELD EVALUATION OF A PERSONAL CASCADE IMPACTOR SAMPLER (PCIS)
MANISHA SINGH, Chandan Misra, Constantinos Sioutas, University of Southern California, Los Angeles, CA
- 7PA11 A COMPARISON OF METHODS TO MEASURE AEROSOL SURFACE-AREA, USING MONODISPERSE AND POLYDISPERSE SILVER TEST AEROSOLS
BON KI KU, Andrew D. Maynard, National Institute for Occupational Safety and Health, Cincinnati, OH
- 7PA12 EFFICIENCY OF A NEWLY DEVELOPED BIOCIDAL ELECTROSTATIC MEMBRANE AGAINST AEROSOLIZED VIRAL PARTICULATES
STEPHANE BOURGET, David Ohayon, Aurelie De Fayard, Anne Marie Gendron, Pierre Jean Messier, Triosyn Corp., Mirabel, Quebec, Canada
- 7PA13 PERFORMANCE OF A NEW TYPE OF IMPACTOR WITH A COOLED IMPACTION PLATE FOR SAMPLING E. COLI AND B. SUBTILIS BACTERIA BIOAEROSOLS
Byung Uk Lee, SANG SOO KIM, Korea Advanced Institute of Science and Technology, Daejeon, Korea

Technical Program (updated August 27, 2003)

7PB California Regional Particulate Air Quality Study

Pacific Ballroom D

4:30 PM - 5:30 PM

- 7PB7 APPLICATION OF CATEGORICAL AND REGRESSION TREE MODEL IN THE SAN JOAQUIN VALLEY TO UNDERSTAND RELATIONSHIP BETWEEN PM AND METEOROLOGICAL VARIABLES
RICHARD HACKNEY, Jeff Austin, California Air Resources Board, Sacramento, CA
- 7PB8 NEAR-TERM AND LOW WIND DISPERSION MEASUREMENTS OF PLUMES FROM STEAM GENERATORS DURING THE CRPAQS
THOMAS RAPPOLT, Greg Hauser, Stephen Kerrin, Tracer ES&T Inc., San Marcos, CA
- 7PB9 EVALUATING SIMILARITIES OF SOURCE PROFILES USING PAIR SLOPE DISTRIBUTION (PSD) METHOD: APPLICATIONS TO PM_{2.5} SOURCE PROFILES FROM THE BRAVO AND CRPAQS STUDIES
L.-W. ANTONY CHEN, Desert Research Institute, Reno, NV
- 7PB10 VERTICAL VARIATIONS IN PM AND PM PRECURSOR CONCENTRATIONS IN THE SAN JOAQUIN VALLEY, CALIFORNIA
NICOLE HYSLOP, Elizabeth Simon, Paul Roberts, Clinton MacDonald, Sonoma Technology Inc., Petaluma, CA
- 7PB11 AEROSOL PROCESSING AND REMOVAL BY FOGS: OBSERVATIONS IN RADIATION FOGS DURING THE CRPAQS STUDY
HUI CHANG, Pierre Herckes, Taehyoung Lee, Jeffrey L. Collett, Colorado State University, Fort Collins, CO
- 7PB12 SEMI-VOLATILE ORGANIC COMPOUND CHARACTERIZATION AND EVALUATION OF PM_{2.5} EMISSION SOURCES COLLECTED DURING THE CALIFORNIA REGIONAL PM₁₀/PM_{2.5} AIR QUALITY STUDY
LYNN R. RINEHART, L.-W. Antony Chen, Judith C. Chow, Barbara Zielinska, Desert Research Institute, Reno, NV

Technical Program (updated August 27, 2003)

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| 7PC | Heterogeneous Aerosol Chemistry I | <i>Pacific Ballroom D 4:30 PM - 5:30 PM</i> |
| 7PC6 | THE STATE OF WATER IN ATMOSPHERIC AEROSOLS: FREE OR SOLVATED? <i>Chak K. Chan, M. Y. CHOI, Hong Kong University of Science and Technology, Kowloon, Hong Kong</i> | |
| 7PC7 | REACTIONS OF GAS PHASE OH AND O3 WITH NABR: EVIDENCE FOR AN INTERFACE MECHANISM <i>Weihong Wang, SHERRI W. HUNT, Rachel C. Hoffman, Lisa M. Wingen, University of California, Irvine, CA; Alexander Laskin, Daniel Gaspar, Pacific Northwest National Lab, Richland, WA; Eladio M. Knipping, EPRI, Palo Alto, CA; Donald Dabdub, Barbara J. Finlayson-Pitts, University of California, Irvine, CA</i> | |
| 7PC8 | THE IMPACTS OF DUST ON REGIONAL TROPOSPHERIC CHEMISTRY DURING THE ACE-ASIA EXPERIMENT: A THREE-DIMENSIONAL MODEL STUDY <i>YOUHUA TANG, University of Iowa, Iowa City, IA</i> | |
| 7PC9 | KINETICS STUDIES OF THE HETEROGENEOUS REACTION OF ADSORBED HNO ₃ ON SILICA WITH GASEOUS NO AT ROOM TEMPERATURE <i>ARMANDO RIVERA-FIGUEROA, Barbara Finlayson-Pitts, University of California, Irvine, CA</i> | |
| 7PC10 | OBSERVATION OF HETEROGENEOUS CHEMISTRY IN THE MARINE BOUNDARY LAYER EMPLOYING SINGLE PARTICLE MASS SPECTROMETRY <i>SERGIO GUAZZOTTI, David Sodeman, University of California San Diego, La Jolla, CA; Keith Coffee, University of California, Riverside, CA; Kimberly Prather, University of California San Diego, La Jolla, CA</i> | |
| 7PC11 | IMPACT OF TURBULENT COAGULATION OF CLOUD DROPLETS ON IN-CLOUD CHEMISTRY <i>NICOLE RIEMER, Anthony S. Wexler, University of California, Davis, CA</i> | |
| 7PC12 | ASSESSMENT OF GLOBAL EFFECT OF AEROSOLS ON TROPOSPHERIC OXIDANTS AND OZONE BUDGET <i>XUEXI TIE, ACD/NCAR, Boulder, CO</i> | |

Technical Program (updated August 27, 2003)

| 7PD | Urban/Regional Aerosol | Pacific Ballroom D 4:30 PM - 5:30 PM |
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| 7PD6 | A COMPARISON OF ORGANIC CHARACTERISTICS AND PM _{2.5} SOURCES BETWEEN ASIAN AND THE U.S. CITIES <i>MEI ZHENG, Georgia Institute of Technology, Atlanta, GA; James Schauer, University of Wisconsin, Madison, WI; Armistead Russell, Michael Bergin, Glen Cass*, Georgia Institute of Technology, Atlanta, GA</i> | |
| 7PD7 | SINGLE ATMOSPHERIC PARTICLE MASS SPECTROSCOPY: COMPARING HOUSTON TX WITH NEW YORK. <i>DAN IMRE, Alla Zeleny-Imre, Pacific Northwest National Laboratory, Richland, WA</i> | |
| 7PD8 | THE RELATIONSHIP BETWEEN BOTH REAL-TIME AND TIME-INTEGRATED COARSE (2.5-10UM), INTERMEDIATE (1-2.5UM), AND FINE (0-2.5UM) PARTICULATE MATTER IN THE LOS ANGELES BASIN <i>MICHAEL D. GELLER, Philip M. Fine, Constantinos Sioutas, University of Southern California, Los Angeles, CA; Paul A. Solomon, US EPA, Las Vegas, NV</i> | |
| 7PD9 | AEROSOLS IN DANISH AIR (AIDA) <i>FINN PALMGREN, Peter Wöhlén, Marianne Glasius, Ruwim Berkowicz, Matthias Ketzel, National Environmental Research Institute, Roskilde, Denmark</i> | |
| 7PD10 | MEASUREMENT OF PARTICULATE ORGANICS IN MEXICO CITY USING AN AEROSOL MASS SPECTROMETER <i>DARA SALCEDO, Universidad Iberoamericana, Mexico City, Mexico; Jose Luis Jimenez, Peter De Carlo, Alex Huffman, Katjia Dzepina, Qi Zhang, University of Colorado, Boulder, CO; John T. Jayne, Douglas R. Worsnop, Manjula R. Canagaratna, Timothy Onasch, Philip Mortimer, Aerodyne Research Inc., Billerica, MA</i> | |
| 7PD11 | SIZE-RESOLVED CHEMICAL COMPOSITION OF FINE PARTICLES IN PITTSBURGH MEASURED WITH AN AERODYNE AEROSOL MASS SPECTROMETER <i>QI ZHANG, University of Colorado, Boulder, CO; Manjula Canagaratna, John Jayne, Douglas Worsnop, Aerodyne Research Inc., Billerica, MA; Jose-Luis Jimenez, University of Colorado, Boulder, CO</i> | |
| 7PD12 | PREDICTION OF FINE PARTICULATE LEVELS AT UNMONITORED LOCATIONS <i>LUTHER SMITH, ManTech Environmental Technology Inc., Durham, NC; Shaibal Mukerjee, Gary Norris, US EPA, Research Triangle Park, NC; Melissa Gonzales, University of New Mexico School of Medicine, Albuquerque, NM; Casson Stallings, ManTech Environmental Technology Inc., Durham, NC; Lucas Neas, Haluk Ozkaynak, US EPA, Research Triangle Park, NC</i> | |
| 7PD13 | TWO-STROKE VEHICULAR EMISSIONS AND AIR QUALITY IN NEW DELHI, INDIA: A PARTICULATELY INTERESTING PILOT STUDY <i>DAVID COCKER, Aniket Sawant, CE-CERT/University of California, Riverside, CA; Dhruv Sharma, Indian Institute of Technology, New Delhi, India</i> | |
| 7PD14 | CHARACTERIZATION OF SUBMICRON SECONDARY AEROSOLS IN AN URBAN ATMOSPHERE <i>JIUN-HORNG TSAI, National Cheng Kung University, Tainan, Taiwan; Jim Lin, National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan; Hung-lung Chiang, Fooyin University, Kaohsiung, Taiwan</i> | |
| 7PD15 | DRY DEPOSITION FLUXES OF HEAVY METALS IN SEOUL, KOREA DURING YELLOW-SAND EVENTS AND THOSE LOCATIONS OF POSSIBLE SOURCES <i>SEUNG-MUK YI, Kyung-duk Zoh, Seoul National University, Seoul, Korea; Young-ji Han, Thomas Holsen, Clarkson University, Potsdam, NY</i> | |

Technical Program (updated August 27, 2003)

| 7PE | Emissions II | Pacific Ballroom D 4:30 PM - 5:30 PM |
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| 7PE6 | RESIDENTIAL AIR POLLUTION NEAR LAGUARDIA AIRPORT, QUEENS, NY <i>Beverly Cohen, MAIRE HEIKKINEN, New York University School of Medicine, Tuxedo, NY</i> | |
| 7PE7 | EMISSION RATES OF FINE PARTICLES FROM TIRE WEAR IN A HIGHWAY TUNNEL DETERMINED BY MOLECULAR MARKER COMPOUNDS <i>OLGA ALEXANDROVA, Jonathan O. Allen, Arizona State University, Tempe, AZ; Thomas F. Dorsey, Jr., Cambridge Isotope Laboratories, Andover, MA</i> | |
| 7PE8 | CHASE STUDIES OF PARTICULATE EMISSIONS FROM IN-USE VEHICLES <i>MANJULA CANAGARATNA, John Jayne, Aerodyne Research Inc., Billerica, MA; David Ghertner, University of California, Berkeley, CA; Scott Herndon, Quan Shi, Aerodyne Research Inc., Billerica, MA; Jose Jimenez, University of Colorado, Boulder, CO; Philip Silva, Aerodyne Research Inc., Billerica, MA; Paul Williams, University of Manchester, Manchester, UK; Thomas Lanni, Department of Environmental Conservation, Albany, NY; Frank Drewnick, Kenneth Demerjian, State University of New York, Albany, NY; Charles Kolb, Douglas Worsnop, Aerodyne Research, Inc.</i> | |
| 7PE9 | ELEMENTAL COMPARISON OF FUGITIVE DUST FROM THE SAN JOAQUIN VALLEY AND AMBIENT SAMPLES FROM YOSEMITE AND SEQUOIA NATIONAL PARK IMPROVE SITES <i>MICHAEL S. BROWN, Omar F. Carvacho, Lowell L. Ashbaugh, Robert G. Flocchini, University of California, Davis, CA</i> | |
| 7PE10 | PROGRAM POVA (POLLUTION DES VALLEES ALPINES) : INTENSIVE FIELD MEASUREMENTS <i>Gilles Aymoz, JEAN-LUC JAFFREZO, Laboratoire de Glaciologie et de GŽophysique de l'Environnement, Saint Martin Dheres, France</i> | |
| 7PE11 | YEARLY CHEMICAL PROFILES OF AEROSOL IN 2 ALPINE VALLEYS <i>Gilles Aymoz, JEAN-LUC JAFFREZO, Julie Cozic, Laboratoire de Glaciologie et de GŽophysique de l'Environnement , Saint Martin Dheres, France; Willy Maenhaut, Ghent University, Ghent, Belgium; Didier Chapuis, AIR-APS, Chambery, France</i> | |
| 7PE12 | CONTINUOUS ULTRAFINE PM MEASUREMENTS IN SOURCE AND RECEPTOR SITES OF THE LOS ANGELES BASIN AND RELATION TO PM2.5 MASS, CHEMICAL COMPOSITION AND SOURCES <i>BHABESH CHAKRABARTI, Manisha Singh, Philip M. Fine, Constantinos Sioutas, University of Southern California, Los Angeles, CA</i> | |
| 7PE13 | AIR QUALITY CONTROL IN THE SAN JOAQUIN VALLEY <i>MARCUS WATSON, Anthony Wexler, University of California, Davis, CA</i> | |
| 7PE14 | ON-ROAD REMOTE SENSING MEASUREMENT OF AUTOMOTIVE PARTICULATE AND GASEOUS EMISSIONS IN LAS VEGAS, NV <i>CLAUDIO MAZZOLENI, Hampden D. Kuhns, Hans MoosmŸller, Robert E. Keislar, Peter W. Barber, Djordje Nicolic, Norman F. Robinson, John G. Watson, Desert Research Institute, Reno, NV</i> | |

Technical Program (updated August 27, 2003)

- 8PA Chemical and Biological Agent Detection 1** *Pacific Ballroom D*
4:30 PM - 5:30 PM
- 8PA4 DETERMINATION OF THE METABOLIC STATES AND PYSIOLOGICAL STATES OF INDIVIDUAL BACTERIAL CELLS
HERBERT TOBIAS, Lawrence Livermore National Laboratory, Berkeley, CA
- 8PA5 OPTICALLY AND BIOLOGICALLY FUNCTIONAL NANOPARTICLES
BING GUO, Ian Kennedy, University of California, Davis, CA
- 8PA7 AEROSOL-INDUCED PLASMA SPECTROMETER FOR SELECTED ELEMENTS
M.-D. CHENG, Oak Ridge National Laboratory, Oak Ridge, TN; D.-R. Chen, Washington University, St. Louis, MO
- 8PA8 CHARACTERIZATION OF BIOAEROSOL COMPOSITION IN TROPICAL ENVIRONMENT USING FT-RAMAN SPECTROSCOPY
LIYA YU, Xiao Yuen Tah, Wee Boon Lee, Wen-Tso Liu, National University of Singapore, Singapore
- 8PB Deposition: Modeling** *Pacific Ballroom D*
4:30 PM - 5:30 PM
- 8PB4 NEAR-WALL TURBULENCE CORRECTIONS FOR IMPROVED NUMERICAL SIMULATION OF AEROSOL DEPOSITION
EDGAR MATIDA, Warren Finlay, Carlos Lange, Biljana Grgic, University of Alberta, Edmonton, AB, Canada
- 8PB5 PREDICTING EXTRATHORACIC DEPOSITION FROM DRY POWDER INHALERS
WARREN FINLAY, University of Alberta, Edmonton, AB, Canada; Wes Dehaan, Alkermes Inc., Cambridge, MA
- 8PB6 FLUID FLOW PIV MEASUREMENTS AND CFD SIMULATIONS IN AN IDEALIZED MOUTH-THROAT
WARREN FINLAY, Anthony Heenan, Edgar Matida, University of Alberta, Edmonton, AB, Canada
- 8PB7 DEPOSITION OF FINE PARTICLES IN THE UPPER THREE-AIRWAY BIFURCATION
ALI R. MAZAHERI, Goodarz Ahmadi, Clarkson University, Potsdam, NY
- 8PB8 MATHEMATICAL ANALYSIS OF PARTICLE TRANSPORT AND DEPOSITION IN HUMAN LUNGS
JUNG-IL CHOI, University of North Carolina, Chapel Hill, NC; Chong S. Kim, US EPA National Health and Environmental Effects Research Laboratory, Research Triangle Park, NC
- 8PB9 NUMERICAL SIMULATION OF AEROSOL TRANSPORT IN HUMAN ORAL AIRWAYS
XIAOBO ZHU, Zongqin Zhang, University of Rhode Island, Kingston, RI; Yung Sung Cheng, Lovelace Respiratory Research Institute, Albuquerque, NM
- 8PB10 LOW VOLUME ORBITAL MOTION DUST GENERATOR FOR NOSE-ONLY INHALATION STUDIES
STEPHEN TEAGUE, University of California, Davis, CA; John Veranth, University of Utah, Salt Lake City, UT; Ann Aust, Utah State University, Logan, UT; Kent Pinkerton, University of California, Davis, CA
- 8PB11 A PERSONAL AND MICROENVIRONMENTAL AEROSOL SPECIATION SAMPLER (PMASS)
NATHAN KREISBERG, Susanna Hering, Aerosol Dynamics Inc., Berkeley, CA; Alison Gough

Technical Program (updated August 27, 2003)

8PC Clouds & Fog

Pacific Ballroom D

4:30 PM - 5:30 PM

- 8PC4 EFFECT OF TURBULENCE ON COLLISION EFFICIENCY OF CLOUD DROPLETS. PART 2, NUMERICAL RESULTS
ORLANDO AYALA, University of Delaware, Newark, DE; Wojciech Grabowski, National Center for Atmospheric Research, Boulder, CO; Lian-ping Wang, University of Delaware, Newark, DE
- 8PC5 ORGANIC AEROSOL EFFECTS ON FOG DROPLET SPECTRA
YI MING, University of Delaware, Newark, DE; Lynn Russell, Princeton University, Princeton, NJ
- 8PC6 AIRCRAFT SAMPLING IN CLOUDS PRODUCES ARTIFACTS
DANIEL MURPHY, Daniel Cziczo, Paula Hudson, NOAA Aeronomy Lab, Boulder, CO
- 8PC7 PROPERTIES OF THE SIZE-RESOLVED FOG DROPLETS AND INDIVIDUAL CLOUD DROPLETS COLLECTED IN WESTERN JAPAN DURING ASIAN DUST STORM EVENT
MIKIO KASAHARA, Chang-jin Ma, Susumu Tohno, Kyoto University, Kyoto, Japan; Shinjiro Hayakawa, Hiroshima University, Hiroshima, Japan
- 8PC8 ANALYSIS OF ATMOSPHERIC AEROSOL PARTICLES USING AN ENVIRONMENTAL SCANNING ELECTRON MICROSCOPE
TIMOTHY RAYMOND, Emily Beesing, Bucknell University, Lewisburg, PA
- 8PC9 EFFECT OF TURBULENCE ON COLLISION EFFICIENCY OF CLOUD DROPLETS. PART 1, THEORETICAL FORMULATION
LIAN-PING WANG, Orlando Ayala, University of Delaware, Newark, DE; Wojciech Grabowski, National Center for Atmospheric Research, Boulder, CO
- 8PC10 AEROSOL/CLOUD CONDENSATION NUCLEI (CCN) CLOSURE DURING THE AEROSOL IOP AT THE ARM SGP SITE
TRACEY RISSMAN, Timothy Van Reken, California Institute of Technology, Pasadena, CA; Jian Wang, Brookhaven National Laboratory, Upton, NY; Varuntida Varutbangkul, California Institute of Technology, Pasadena, CA; Hafliði Jonsson, CIRPAS, United States Naval Postgraduate School, Marina, CA; John Seinfeld, Richard Flagan, California Institute of Technology, Pasadena, CA

Technical Program (updated August 27, 2003)

8PD Bioaerosols & Biomass Burning

Pacific Ballroom D

4:30 PM - 5:30 PM

- 8PD4 REPRESENTATIVENESS OF CULTURABLE MICROORGANISMS IN THE BIOGENIC COMPONENT OF ATMOSPHERIC AEROSOL IN THE SOUTH OF WESTERN SIBERIA.
ALEXANDER SAFATOV, Irina Andreeva, Alexander Borodulin, Galina Buryak, Yurii Marchenko, Victor Marchenko, Sergei Olkin, Valentina Petrishchenko, Oleg P'yankov, Irina Reznikova, Vladimir Repin, Alexander Sergeev, State Research Center of Virology and Biotechnology "Vector," Koltsovo, Russia; Boris Belan, Mikhail Panchenko, Institute of Atmospheric Optics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
- 8PD5 THE IMPACT OF WILDFIRE ON REGIONAL AIR QUALITY IN BRAZIL
SREELA NANDI, Christine Wiedinmyer and Alex Guenther, Atmospheric Chemistry Division, National Center for Atmospheric Research, Boulder, CO
- 8PD6 THE BIOGENIC COMPONENT FRACTION OF ATMOSPHERIC AEROSOL MASS IN THE SOUTH OF WESTERN SIBERIA.
ALEXANDER SAFATOV, Irina Andreeva, Alexander Borodulin, Galina Buryak, Yurii Marchenko, Victor Marchenko, Sergei Olkin, Valentina Petrishchenko, Oleg P'ankov, Irina Reznikova, Alexander Sergeev, Center of Virology and Biotechnology "Vector," Koltsovo, Russia; Alexander Ankilov, Anatoli Baklanov, Konstantin Koutsenogii, Valerii Makarov, Nataliya Ivanova, Institute of Chemical Kinetics and Combustion, Russian Academy of Sciences; Boris Belan, Mikhail Panchenko, Institute of Atmospheric Optics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
- 8PD7 FLUORESCENCE SPECTRA OF ATMOSPHERIC AEROSOL AT ADELPHI, MARYLAND
RON PINNICK, Steven Hill, Army Research Lab; Yong-le Pan, Richard Chang, Yale University, New Haven, CT
- 8PD8 AIR QUALITY IMPACTS FROM PRESCRIBED BURNING
KARSTEN BAUMANN, Sangil Lee, Mei Zheng, Venus Dookwah, Fu Wang, Armistead Russell, Georgia Institute of Technology, Atlanta, GA
- 8PD9 BIOMASS BURNING PARTICLE MEASUREMENTS: CHARACTERISTIC COMPOSITION AND CHEMICAL PROCESSING
PAULA HUDSON, CIRES/NOAA, Boulder, CO; Daniel Murphy, NOAA, Boulder, CO; Daniel Cziczo, David Thomson, CIRES/NOAA, Boulder, CO
- 8PD10 THE COMPARISON OF SEVERAL YEARS DATA ON ACCUMULATED IN SNOW COVER BIOGENIC COMPONENT OF ATMOSPHERIC AEROSOL
ALEXANDER SAFATOV, Galina Buryak, Irina Andreeva, Alexander Borodulin, Sergei Olkin, Valentina Petrishchenko, Irina Reznikova, Yurii Marchenko, State Research Center of Virology and Biotechnology "Vector," Koltsovo, Russia; Vladimir Raputa, Institute of Computation Mathematics and Mathematical Geophysics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
- 8PD11 COMPOSITION OF WILDFIRE SMOKE AT WESTERN U.S. IMPROVE SITES IN SUMMER 2002
LOWELL ASHBAUGH, University of California, Davis, CA

Technical Program (updated August 27, 2003)

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| 8PE | Combustion and Environmental Aerosol Formation II | <i>Pacific Ballroom D 4:30 PM - 5:30 PM</i> |
| 8PE4 | ULTRAFINE PARTICLES FROM VEHICLES DURING THE PITTSBURGH AIR QUALITY STUDY: LINKING NEAR SOURCE (TRAFFICE TUNNEL) AND AMBIENT SIZE DISTRIBUTIONS <i>CHARLES STANIER, Eric Lipsky, Andrey Khlystov, Allen Robinson, Spyros Pandis, Carnegie Mellon University, Pittsburgh, PA</i> | |
| 8PE5 | PARTICLE SIZE DISTRIBUTION FUNCTIONS OF SOOT IN LAMINAR PREMIXED ETHYLENE FLAMES <i>ZHIWEI YANG, Bin Zhao, Hai Wang, University of Delaware, Newark, DE</i> | |
| 8PE6 | EVOLUTION OF METAL OXIDE PARTICLES IN A HYDROGEN DIFFUSION FLAME <i>BING GUO, Ian Kennedy, University of California, Davis, CA</i> | |
| 8PE7 | HIGH TEMPERATURE INTERACTIONS BETWEEN RESIDUAL OIL ASH AND DISPERSED KAOLINITE POWDERS <i>WILLIAM LINAK, C. Andrew Miller, US EPA, Reserach Triangle Park, NC; Dawn Santoianni, Charles King, ARCADIS Geraghty & Miller Inc., Durham, NC; Takuya Shinagawa, US EPA, Research Triangle Park, NC; Jost Wendt, University of Arizona, Tucson, AZ; Jong-Ik Yoo, US EPA, Research Triangle Park, NC; Yong-Chil Seo, Yonsei University, Wonju, Korea</i> | |
| 8PE8 | DIFFUSIONAL DEPOSITION OF DIESEL PARTICLES IN A MONOLITHIC CATALYST CHANNEL <i>Z. GERALD LIU, Byron A. Pardue, Fleetguard/Nelson, Stoughton, WI; Evan Whitby, Chimera Technologies Inc., Forest Lake, MN</i> | |
| 8PE9 | SYNTHESIS OF LITHIUM-COBALT OXIDE NANOPARTICLES BY FLAME SPRAY PYROLYSIS <i>HEE DONG JANG, KIGAM, Daejon, Korea</i> | |
| 8PE11 | EMISSION OF PARTICULATE MATTER AND POLYCYCLIC AROMATIC HYDROCARBONS (PAH) FROM SELECTED COOKSTOVE-FUEL SYSTEMS IN ASIA <i>NGUYEN THI KIM OANH, Do Albina, Li Ping, Asian Institute of Technology, Pathumthani, Thailand</i> | |

Technical Program (updated August 27, 2003)

9PA Heterogeneous Aerosol Chemistry II

Pacific Ballroom D

5:30 PM - 6:30 PM

- 9PA5 REAL TIME MEASUREMENTS OF OXIDATION OF SAMS USING ATR
Yael Dubowski, Barbara J. Finlayson-Pitts, University of California, Irvine, CA
- 9PA6 PREPARATION AND CHARACTERIZATION OF ORGANIC COATINGS OF VARIABLE THICKNESS ON INERT CORES AND THEIR CHEMICAL REACTIONS WITH OZONE
Y. Katrib, SCOT T. MARTIN, Harvard University, Cambridge, MA; Y. Rudich, Weizmann Institute, Rehovot, Israel; H. Zhang, P. Davidovits, Boston College, Chestnut Hill, MA; J.T. Jayne, D.R. Worsnop, Aerodyne Research Corp., Billerica, MA
- 9PA7 UPTAKE OF SMALL ORGANIC COMPOUNDS BY SULFURIC ACID AEROSOLS: DISSOLUTION AND REACTION
LAURA IRACI, Rebecca Michelsen, Samantha Ashbourn, NASA Ames Research Center, Moffett Field, CA
- 9PA8 EFFECT OF MORPHOLOGY AND COMPOSITION ON THE HYGROSCOPICITY OF SOOT AEROSOLS
JAY G. SLOWIK, Wyatt Biel, Paul Davidovits, Boston College, Chestnut Hill, MA; Leah R. Williams, John T. Jayne, Charles E. Kolb, Douglas R. Worsnop, Aerodyne Research Inc., Billerica, MA; Yinon Rudich, Weizmann Institute, Rehovot, Israel
- 9PA9 AN INTEGRATED SYSTEM FOR ANALYSES OF AEROSOL COMPOSITION AND CHEMISTRY (ISAACC)
DARIN TOOHEY, Alice Delia, University of Colorado, Boulder, CO; Ann Middlebrook, CIRES/NOAA Aeronomy Laboratory, Boulder, CO; Shelly Miller, Margaret Tolbert, Brian Toon, University of Colorado, Boulder, CO
- 9PA10 DESIGN AND CHARACTERIZATION OF AN APPARATUS FOR STUDYING THE KINETICS AND MECHANISMS OF HETEROGENEOUS REACTIONS IN THE ATMOSPHERE
KEVIN RAMAZAN, Lisa Wingen, Barbara Finlayson-Pitts, University of California, Irvine, CA
- 9PA11 OXY-HYDROCARBON / ICE INTERACTIONS IN THE TROPOSPHERE
JEFFERSON SNIDER, University of Wyoming, Laramie, WY; William Huffman, Huffman Laboratories Inc., Golden, CO

Technical Program (updated August 27, 2003)

9PB Deposition: Experimental

Pacific Ballroom D

5:30 PM - 6:30 PM

- 9PB5 AEROSOL DEPOSITION AND FLOW MEASUREMENTS IN AN IDEALIZED MOUTH AND THROAT
BILJANA GRGIC, University of Alberta, Edmonton, AB, Canada
- 9PB6 DIMENSIONAL ANALYSIS IN AIRWAY PARTICLE DEPOSITION EXPERIMENTS
ZONGQIN ZHANG, Richard Lessmann, Xiaobo Zhu, University of Rhode Island, Kingston, RI
- 9PB7 A SET-UP FOR STUDY OF DEPOSITION OF DIFFERENT TYPES OF AEROSOL PARTICLES IN RESPIRATORY TRACTS OF LABORATORY ANIMALS.
ALEXANDER SAFATOV, Vladimir Zhukov, Alexander Sergeev, Vladimir Toporkov, Victor Yashin, Nikolai Belyaev, Oleg P'yankov, Larissa Shishkina, Elena Ryabchikova, Elena Malkova, Boris Zaitsev, State Research Center of Virology and Biotechnology Vector, Koltsovo, Russia; Anatoli Baklanov, Andrei Onishchuk, Nataliya Ivanova, Vladimir Karasev, Institute of Chemical Kinetics and Combustion, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
- 9PB9 DEPOSITION FRACTION OF MONODISPERSE AEROSOLS LABELED WITH 59FE IN BALB/C MICE.
BRIAN WONG, Earl Tewksbury, Bahman Asgharian, CIIT Centers for Health Research, Research Triangle Park, NC
- 9PB10 AEROSOL DELIVERY OF MAMMALIAN CELLS
BARBARA WYSLOUZIL, Andrew Roberts, Worcester Polytechnic Institute, Worcester, MA; Lawrence Bonassar, Cornell University, Ithaca, NY
- 9PB11 AEROSOL DISPERSION WITH IMPINGING JET ENTRAINMENT
ZHAOLIN WANG, C. F. Lange, W. H. Finlay, University of Alberta, Edmonton, AB, Canada
- 9PB12 SINGLE PARTICLE CHARACTERIZATION OF ULTRAFINE AND FINE PARTICLES FROM HIGH VOLUME AEROSOL CONCENTRATORS
MICHELE F. SIPIN, Yongxuan Su, Kimberly A. Prather, University of California, San Diego, La Jolla, CA; Robert Gelein, Mark J. Utell, Gunther Oberdorster, University of Rochester School of Medicine and Dentistry, Rochester, NY
- 9PB13 THE EFFECT OF PARTICLE GROWTH ON DEPOSITION IN LUNG AIRWAYS
Bahman Asgharian, CIIT Centers for Health Research, Research Triangle Park, NC

Technical Program (updated August 27, 2003)

9PC Carbonaceous Aerosol

Pacific Ballroom D

5:30 PM - 6:30 PM

- 9PC5 CALCULATIONS OF INCREMENTAL SECONDARY ORGANIC
AEROSOL REACTIVITY
*MARC CARRERAS, University of California, Irvine, CA; Robert Griffin, University of New
Hampshire, Durham, NH; Donald Dabdub, University of California, Irvine, CA*
- 9PC6 ANALYSIS OF ORGANIC HYDROPEROXIDES FORMED FROM ALKENE OZONOLYSIS
USING GAS CHROMATOGRAPHY/MASS SPECTROMETRY OF TRIMETHYLSILYL
DERIVATIVES
*KENNETH DOCHERTY, Kalyada Kumboonlert, Isaac Lee, Paul Ziemann, University of
California, Riverside, CA*
- 9PC7 EVALUATION OF SEMI-CONTINUOUS ORGANIC/ELEMENTAL CARBON AEROSOL BY
COMPARISON WITH OTHER INSTRUMENT RESULTS AND METEOROLOGICAL DATA IN
RUBIDOUX, CALIFORNIA
*PETER A. JAQUES, Philip K. Hopke, Clarkson University, Potsdam, NY; Doh-won Lee, Oak
Ridge National Laboratory, Oak Ridge, TN; David F. Smith, Sunset Laboratory, Hillsborough,
NC; Constantinos Sioutas, University of Southern California, Los Angeles, CA; Robert A.
Cary, Sunset Laboratory, Hillsborough, NC; William E. Wilson, US EPA, Research Triangle
Park, NC*
- 9PC8 A THEORETICAL LUMPING MODEL FOR COMPOSITION- AND
TEMPERATURE-DEPENDENT PARTITIONING PARAMETERS OF ORGANIC AEROSOL
MIXTURES
FEI BIAN, Frank Bowman, Vanderbilt University, Nashville, TN
- 9PC9 HYGROSCOPICITY OF SECONDARY ORGANIC AEROSOL FORMED BY OZONOLYSIS OF
CYCLOALKENES, MONOTERPENES, AND SESQUITERPENES
*VARUNTIDA VARUTBANGKUL, Fredrick Brechtel, Melita Keywood, Song Gao, Roya
Bahreini, Richard Flagan, John Seinfeld, California Institute of Technology, Pasadena, CA*
- 9PC10 INVESTIGATIONS ON THE WATER SOLUBLE FRACTION OF OC DURING POVA
(POLLUTION DES VALLŽES ALPINES)
*JEAN-LUC JAFFREZO, Julie Cozic, Gilles Aymoz, Laboratoire de Glaciologie et de
GŽophysique de l'Environnement, Saint Martin Dheres, France*
- 9PC11 NEW METHODOLOGY FOR THE DETERMINATION OF FUNCTIONAL GROUP AND
CHEMICAL BOND INFORMATION OF ATMOSPHERIC PARTICLES
VERONIQUE JACOB, GRECA, Grenoble, France
- 9PC12 PREPARATION OF SILICA/CARBON COMPOSITE PARTICLES AND EVALUATION OF
THEIR COMPLEX REFRACTIVE INDEX
*HANKWON CHANG, Kikuo Okuyama, Hiroshima University, Hiroshima, Japan; Wladyslaw
Witold Szymanski, University of Vienna, Vienna, Austria*

Technical Program (updated August 27, 2003)

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| 9PD | Numerical Modeling of Regional Aerosols I | <i>Pacific Ballroom D 5:30 PM - 6:30 PM</i> |
| 9PD5 | DEFINITION OF THE ATMOSPHERIC POLLUTANTS SOURCE PARAMETERS ON THE BASIS OF THE UNDERLYING SURFACE DEPOSIT DENSITY <i>Oxana V. Botalova, ALEXANDER I. BORODULIN, Sergey R. Sarmanaev, Svetlata S. Kotlyarova, State Research Center of Virology and Biotechnology Vector, Koltsovo, Russia</i> | |
| 9PD6 | MODELING OF THE ATMOSPHERIC ADMIXTURES DISPERSION WITHIN THE BOUNDS OF CITY BUILDINGS <i>Sergey R. Sarmanaev, Boris M. Desyatkov, ALEXANDER I. BORODULIN, State Research Center of Virology and Biotechnology Vector, Koltsovo, Russia; Vladimir A. Dycha, Oleg G. Myslin, Novosibirskgragdanproyekt, Novosibirsk, Russia</i> | |
| 9PD7 | TAKING INTO ACCOUNT OF THE DISPERSION OF THE MEASURED CONCENTRATION VALUES IN THE PROBLEMS OF SEARCHING OF THE LATENT SOURCES OF ATMOSPHERIC AEROSOL POLLUTANTS <i>Boris M. Desyatkov, ALEXANDER I. BORODULIN, Sergey R. Sarmanaev, Svetlana S. Kotlyarova, State Research Center of Virology and Biotechnology Vector, Koltsovo, Russia</i> | |
| 9PD8 | MODELING MULTIPHASE AEROSOL FOR AN URBAN CASE IN THE ALPS <i>JULIETTE RIMETZ, Catherine Liousse, Jean-Luc Jaffrezo, Laboratoire de Glaciologie et de GŽophysique de l'Environnement, Saint Martin Dheres, France; Robert Rosset, Universite Paul Sabatier, Toulouse, France</i> | |
| 9PD9 | AURAMS SIMULATIONS OF PM AND PRECURSOR CONCENTRATIONS FROM THE PACIFIC2001 AIR QUALITY STUDY: MODEL/MEASUREMENT COMPARISONS <i>PAUL MAKAR, Veronique Bouchet, Louis-Philippe Crevier, Ashu Dastoor, Sunling Gong, Wanmin Gong, Sylvain Menard, Michael Moran, Balbir Pabla, Srinivasan Venkatesh, Leiming Zhang, Shao-meng Li, Environment Canada, Downsview, ON, Canada</i> | |
| 9PD10 | CONVERSION OF MULTICOMPONENT AEROSOL SIZE DISTRIBUTIONS FROM SECTIONAL TO MODAL REPRESENTATIONS <i>JIN LU, Frank Bowman, Vanderbilt University, Nashville, TN</i> | |
| 9PD11 | GLOBAL AMMONIUM AEROSOL CHEMISTRY AND DISTRIBUTION RELATIONSHIP TO SULFATE, NITRATE, SEASALT, AND DUST AEROSOLS <i>HUI SHENG BIAN, Charlie Zender, University of California, Irvine, CA</i> | |
| 9PD12 | THE ROLE OF AMMONIA EMISSIONS FROM TRAFFIC IN URBAN AEROSOL BURDENS <i>REBECCA BARTHELMIE, Risoe National Laboratory, Roskilde, Denmark; Sara Pryor, Indiana University, Bloomington, IN; Lise Lotte Szrensen, Risoe National Laboratory, Roskilde, Denmark</i> | |

Technical Program (updated August 27, 2003)

9PE Field Instrumentation

Pacific Ballroom D

5:30 PM - 6:30 PM

- 9PE5 CALIBRATION OF DIFFERENTIAL MOBILITY ANALYZER BY USE OF A C60 MONOMER AS AN INHERENTLY MONODISPERSE STANDARD NANOPARTICLE
HIDEKI TANAKA, Kazuo Takeuchi, RIKEN, Saitama, Japan
- 9PE6 ATMOSPHERIC AEROSOL COMPOSITION AS A FUNCTION OF HYGROSCOPICITY, VOLATILITY AND DENSITY
DABRINA DUTCHER, Kihong Park, Peter McMurry, Michael Zachariah, University of Minnesota, Minneapolis, MN; Markus Gaelli, TSI Inc., Shoreview, MN; Deborah Gross, Alexandra Schmitt, Amy Silverburg, Carleton College, Northfield, MN
- 9PE7 COMPARISON OF TIME RESOLVED AND 24-HR PARTICULATE NITRATE MEASUREMENTS AT THE BALTIMORE SUPERSITE
JOHN ONDOV, David Harrison, Seung Shik Park, University of Maryland, College Park, MD; Timothy Buckley, Johns Hopkins School of Public Health, Baltimore, MD; R. K. M. Jayanty, RTI International, Research Triangle Park, NC
- 9PE8 SELECTION OF APPROVED PM10 AND PM2.5 CONTINUOUS SAMPLERS IN CALIFORNIA
AHMED MEHADI, Clifford Popejoy, Jeffrey Cook, California Air Resources Board, Sacramento, CA
- 9PE9 DIFFERENCES IN AEROSOL SAMPLER COLLECTION CHARACTERISTICS WHEN SAMPLING THREE DUST TYPES
PATRICK O'SHAUGHNESSY, Julie Lo, Matthew Nonnenmann, University of Iowa, Iowa City, IA; Stephen Reynolds, Colorado State University, Fort Collins, CO
- 9PE10 COMPARISON OF PERFORMANCES OF SEMI-CONTINUOUS PM2.5 SAMPLERS IN SIX CITIES ACROSS THE UNITED STATES
JONG HOON LEE, Philip K. Hopke, Clarkson University, Potsdam, NY; Doh-Won Lee, Oak Ridge National Laboratory, Oak Ridge, TN; Alexander V. Polissar, New Jersey Department of Environmental Protection, Trenton, NJ; William E. Wilson, US EPA, Research Triangle Park, NC
- 9PE11 EXPERIMENTAL VALIDATION OF A HIGH TRANSMISSION RATE INLET FOR ULTRA-FINE SINGLE PARTICLE MASS SPECTROMETER
YONGJING ZHAO, Keith Bein, Anthony S. Wexler, University of California, Davis, CA; Prachi Middha, University of Delaware, Newark, DE

Technical Program (updated August 27, 2003)

10PA Heterogeneous Aerosol Chemistry III

Pacific Ballroom D

5:30 PM - 6:30 PM

- 10PA7 POTENTIAL EVIDENCE OF ACIDIC SULFATE HETEROGENEOUS CHEMISTRY ON AMBIENT AEROSOLS DURING THE NEW ENGLAND AIR QUALITY STUDY
ANN MIDDLEBROOK, Brendan Matthew, NOAA Aeronomy Laboratory, Boulder, CO; Manjula Canagaratna, Doug Worsnop, Aerodyne Research Inc., Billerica, MA; Trish Quinn, Tim Bates, NOAA Pacific Marine Environmental Laboratory, Seattle, WA; Carsten Warneke, Joost De Gouw, Paul Goldan, Bil Kuster, Eric Williams, NOAA Aeronomy Laboratory, Boulder, CO
- 10PA8 COMPARISON OF AEROSOL MEASUREMENTS AT TWO FORESTED SITES: PROPHET 2001 AND CELTIC 2003
ALICE E. DELIA, Darin W. Toohey, Rebecca Garland, Margaret A. Tolbert, Jose-Luis Jimenez, University of Colorado, Boulder, CO; Douglas R. Worsnop, Aerodyne Research, Inc., Billerica, MA
- 10PA9 EFFECT OF ACTIVITY COEFFICIENT MODELS ON PREDICTIONS OF SECONDARY ORGANIC AEROSOL CONCENTRATIONS
FRANK BOWMAN, Joshua Melton, Vanderbilt University, Nashville, TN
- 10PA10 PARTITIONING OF ORGANIC SPECIES DERIVED FROM THE PHOTO-OXIDATION OF TOLUENE/NOX MIXTURES
CRAIG STROUD, NCAR, Boulder, CO; Paul Makar, MSC, Downsview, ON, Canada; Don Hastie, Diane Michelangeli, Mike Mozurkewich, York University, North York, ON, Canada
- 10PA11 ORGANIC AEROSOLS AS CLOUD CONDENSATION NUCLEI: IMPORTANCE OF SOLUBILITY, SURFACE ACTIVITY AND CHEMICAL PROCESSING
JONATHAN ABBATT, Keith Broekhuizen, University of Toronto, Toronto, ON, Canada; Pradeep Kumar, University of Pune, Pune, India
- 10PA12 SURFACE PHOTOCHEMISTRY OF OXIDIZED ORGANIC LAYERS IMMOBILIZED ON SEA-SALT STUDIED WITH CAVITY-RING DOWN SPECTROSCOPY
SERGEY NIZKORODOV, Anthony Gomez, Ao Lin, Ahmad Alshawa, University of California, Irvine, CA
- 10PA13 UPTAKE STUDIES WITH COATED PARTICLES
ERIN MYSAK, Dave Nash, Tomas Baer, Roger. E. Miller, University of North Carolina, Chapel Hill, NC

Technical Program (updated August 27, 2003)

10PB Chemical and Biological Agent Detection

Pacific Ballroom D

5:30 PM - 6:30 PM

- 10PB7 AIRBORNE AND DEPOSITED BACTERIA NEAR A WASTEWATER TREATMENT PLANT
ASHISH SAHU, Thomas Holsen, Stefan Grimberg, Clarkson University, Potsdam, NY
- 10PB9 QUANTITATIVE TECHNIQUE FOR TESTING BIO-AEROSOL SAMPLERS
VLADIMIR MIKHEEV, Maria Luna, Patricia Irving, InnovaTek, Richland, WA
- 10PB10 DESIGN, DEVELOPMENT, AND CHARACTERIZATION OF THE AMBIENT BREEZE TUNNEL
MATTHEW J. SHAW, Rodney S. Black, Mary C. Shell, Heather L. Green, Beth A. Fink, Vladimir Kogan, Jason A. Curran, Battelle Memorial Institute, Columbus, OH
- 10PB11 DEVELOPMENT AND TESTING OF A NOVEL STANDARD PARTICLE FOR PERFORMANCE VERIFICATION OF BIODEFENSE/BIOTERRORISM DETECTION SYSTEMS
ANDREW PAGE, David Alburty, Kelly Brown, Jennifer Hancock, Midwest Research Institute, Kansas City, MO
- 10PB12 DESIGN OF ELECTROSTATIC BIOAEROSOL SAMPLERS
KAPIL PANT, Shivshankar Sundaram, CFD Research Corporation, Huntsville, AL

10PC Carbonaceous Aerosol

Pacific Ballroom D

5:30 PM - 6:30 PM

- 10PC7 ESTIMATION OF THE FORMATION RATE OF SECONDARY ORGANIC AEROSOL IN SUBURBAN/RURAL LOCATIONS: APPLICATION TO YELLOWSTONE NATIONAL PARK AND SUBURBAN SOUTHERN NEW HAMPSHIRE
ROBERT GRIFFIN, Barkley Sive, Yong Zhou, University of New Hampshire, Durham, NH; Oliver Wingenter, New Mexico Institute of Technology, Socorro, NM
- 10PC8 CHARACTERISTICS OF THE ORGANIC AND ELEMENTAL CARBON IN PM_{2.5} OF BEIJING
JIANHUA YU, Tong Yu, Beijing Municipal Environmental Monitoring Center, Beijing, PR China
- 10PC9 OPTIMIZING THERMAL-OPTICAL ANALYSIS FOR ELEMENTAL CARBON IN ATMOSPHERIC PARTICULATE MATTER BY FOCUSING ON OPTICAL BEHAVIOR
JOSEPH CONNY, Donna Klinedinst, National Institute of Standards and Technology, Gaithersburg, MD
- 10PC10 CHEMICAL CHARACTERIZATION OF ORGANIC AEROSOL DURING THE 2002 YOSEMITE AEROSOL AND VISIBILITY STUDY
PIERRE HERCKES, Guenter Engling, Jacqueline Carillo, Taehyoung Lee, Christian Carrico, Jeffrey L. Collett, Sonia Kreidenweis, Colorado State University, Fort Collins, CO; Derek Day, William Malm, NPS/CIRA, Colorado State University, Fort Collins CO; Graham Bench, Lawrence Livermore National Laboratory, Livermore, CA
- 10PC11 ESTIMATION OF SECONDARY ORGANIC AEROSOL
YEE-LIN WU, National Cheng Kung University, Tainan, Taiwan
- 10PC12 STUDIES OF THE AGEING AND TRANSFORMATION OF ATMOSPHERIC AEROSOLS
MOHAMMEDRAMI ALFARRA, James Allan, Keith Bower, Mike Cubison, Gordon McFiggans, David Topping, Hugh Coe, UMIST, Manchester, UK; Jose Jimenez, University of Colorado, Boulder, CO; John Jayne, Manjula Canagaratne, Doug Worsnop, Aerodyne Research Inc., Billerica, MA

Technical Program (updated August 27, 2003)

10PC13 AMBIENT AEROSOL FORMATION AND GROWTH BY PHOTOCHEMICAL REACTIONS IN AN INDOOR SMOG CHAMBER

GWI-NAM BAE, Min Cheol Kim, Seung-Bok Lee, Young-Mee Lee, Kil-Choo Moon, Korea Institute of Science and Technology, Seoul, Korea

10PC14 ORGANIC TRACERS AT THE BALTIMORE SUPERSITE: SECONDARY ORGANIC AEROSOL PRECURSORS FROM VOC MASS SPECTRA USING NITRO-SUBSTITUTED POLYCYCLIC AROMATIC HYDROCARBONS.

BERNARD CRIMMINS, University of Maryland Center for Environmental Science, Solomons, MD; John Offenber, Rutgers University, New Brunswick, NJ; Joel Baker, University of Maryland Center for Environmental Science, Solomons, MD

10PD Analytical Techniques & Methods Intercomparison

Pacific Ballroom D

5:30 PM - 6:30 PM

10PD7 SIZE, TIME, AND COMPOSITION-RESOLVED AEROSOL MEASUREMENTS IN MEXICO CITY DURING THE MCMA-2003 FIELD CAMPAIGN

JOSE-LUIS JIMENEZ, Katja Dzepina, Peter Decarlo, J. Alex Huffman, Qi Zhang, University of Colorado, Boulder, CO; Dara Salcedo, Universidad Iberoamericana, Mexico City, Mexico; John T. Jayne, Douglas R. Worsnop, Manjula R. Canagaratna, Timothy B. Onasch, Phillip Mortimer, Aerodyne Research Inc., Billerica, MA; Linsey C. Marr, Luisa T. Molina, Mario Molina, Massachusetts Institute of Technology, Cambridge, MA; Jeffrey S. Gaffney, Nancy A. Marley, Argonne National Laboratory, Argonne, IL

10PD8 CHEMICAL SPECIATION OF AMBIENT PM_{2.5} ACROSS SOUTHWESTERN OHIO

DAINIUS MARTUZEVICIUS, University of Cincinnati, Cincinnati, OH; Anna L. Kelley, Harry St. Clair, Hamilton County Department of Environmental Services, Cincinnati, OH; Pratim Biswas, Washington University, St. Louis, MO; Tiina Reponen, Sergey A. Grinshpun, University of Cincinnati, Cincinnati, OH

10PD9 KEN WHITBY AND THE PARTICLE TECHNOLOGY LABORATORY, 1964 - 1969: LAYING THE FOUNDATION

GILMORE J. SEM, TSI Inc., St. Paul, MN

10PD10 FRACTAL DIMENSIONS OF AMBIENT AND SOURCE AEROSOLS

RAFAEL MCDONALD, Pratim Biswas, Shaohua Hu, Jay Turner, Washington University, St. Louis, MO; Dainius Martuzevicius, Sergey Grinshpun, Grace Lemasters, University of Cincinnati, Cincinnati, OH

10PD11 CHARACTERIZATION OF FREE RADICALS IN ATMOSPHERIC AEROSOLS USING EPR AND SPIN TRAPS

LIYA YU, N. M. Kocherginsky, Yuri Kostetski, National University of Singapore, Singapore

10PD12 SAMPLING FROM MOBILE PLATFORMS: COMPUTATIONAL AND EXPERIMENTAL INVESTIGATIONS

ANITA NATARAJAN, Suresh Dhaniyala, Clarkson University, Potsdam, NY

10PD13 SUB/SUPER-MICRON PARTICLE MEASUREMENTS WITH EMPHASIS ON PHYSICAL PROPERTIES OF ATMOSPHERIC AEROSOL

DARIUS CEBURNIS, Stephen G. Jennings, Colin D. O'Dowd, National University of Ireland, Galway, Ireland

10PD14 QUALITY ASSURANCE OF AEROSOL DATA IN THE IMPROVE PROGRAM

LOWELL ASHBAUGH, University of California, Davis, CA

Technical Program (updated August 27, 2003)

10PE Mass Spectrometry

Pacific Ballroom D

5:30 PM - 6:30 PM

- 10PE8 SPECTRAL EXTINCTION FOR REAL-TIME SIZING OF HIGH CONCENTRATION, SUBMICRON AEROSOLS
DAVID KANE, Philip Morris, Richmond, VA; Mohammad S. Saidi, Isfahan University of Technology, Isfahan, Iran; Peter Lipowicz, Philip Morris, Richmond, VA
- 10PE9 RESONANCE ELECTRON CAPTURE IONIZATION AEROSOL MASS SPECTROMETRY FOR THE ANALYSIS OF ULTRAFINE ORGANIC PARTICLES
BRIAN LAFRANCHI, Giuseppe Petrucci, University of Vermont, Burlington, VT
- 10PE10 INVESTIGATION OF THE EFFECT OF AEROSOL MASS LOADING ON THE PERFORMANCE OF A SLIT VIRTUAL IMPACTOR USING FLOW VISUALIZATION TECHNIQUES
SATYANARAYANAN SESHADRI, Taekyun Kim, Kenneth Kihm, Denis Phares, Texas A and M University, College Station, TX
- 10PE11 PARTICLE FOCUSING CHARACTERISTICS OF SONIC JETS
PRACHI MIDDHA, University of Delaware, Newark, DE; Anthony Wexler, University of California, Davis, CA
- 10PE12 DMM-230: REAL-TIME MASS AND SIZE MEASUREMENT DEVICE FOR DIESEL EXHAUST EMISSIONS
MIKKO MOISIO, Ville Niemelä, Jarmo Lilja, Henna Tuomenoja, Dekati Ltd., Tampere, Finland

Technical Program (updated August 27, 2003)

Friday, October 24, 2003

Plenary #4

8:00 AM - 9:00 AM

Pacific Ballroom A/B

8:05 AM

UNDERSTANDING THE HEALTH EFFECTS OF AIR POLLUTION: AN EPIDEMIOLOGIST'S
QUAGMIRE

Dr. Paige E. Tolbert

*Associate Professor, Department of Environmental and Occupational Health and Department
of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, Georgia, USA*

8:50 AM

PRESENTATION OF THE SINCLAIR AWARD

Lynn Hildemann

Technical Program (updated August 27, 2003)

Friday, October 24, 2003

Platform Session #11

9:30 AM - 10:50 AM

11A Health-Related Aerosols and Related Instrumentation

Laguna A/B

Chair: Gediminas Mainelis, Co-chair: Lupita Montoya

9:30 AM - 10:50 AM

11A1
9:30 AM DEVELOPMENT OF A PROTOCOL FOR THE USE OF POLYURETHANE FOAM (PUF) IN A NEW COMPACT CASCADE IMPACTOR FOR TOXICOLOGICAL STUDIES.
LUPITA MONTOYA, Ramon Molina, Joseph Brain, Harvard School of Public Health, Boston, MA

11A2
9:50 AM DEVELOPMENT AND EVALUATION OF A VERY COMPACT FACILITY FOR EXPOSING HUMANS TO CONCENTRATED AMBIENT ULTRAFINE PARTICLES
CHANDAN MISRA, Philip M. Fine, Manisha Singh, Constantinos Sioutas, University of Southern California, Los Angeles, CA

11A3
10:10 AM PERSONAL SAMPLER FOR MEASURING THE SURFACE AREA OF PARTICLES DEPOSITED IN THE LUNG
HEINZ FISSAN, Andreas Trampe, Lukas Wawryniuk, University Duisburg, Essen, Germany; David Y.H. Pui, University of Minnesota, Minneapolis, MN

11A4
10:30 AM CHARACTERIZATION OF HOUSEHOLD VACUUM CLEANER PERFORMANCE FOR THE REMOVAL OF LEAD DUST AEROSOL DEPOSITED ON HARD SURFACES
STEPHEN WALL, Jeff Wagner, Paul Wong, Diamon Pon, California Department of Health, Berkeley, CA

11B Clouds & Fog

Avila A/B

Chair: Mark Jacobson, Co-chair: Cynthia Towhy

9:30 AM - 10:50 AM

11B1
9:30 AM SEASONAL CONTRASTS OF THE SOUTHERN OCEAN CLOUD CONDENSATION NUCLEI AND CLOUD MICROPHYSICS
SEONG S. YUM, Yonsei University, Seoul, South Korea; James Hudson, Desert Research Institute, Reno, NV

11B2
9:50 AM MODIFICATION OF INTERNALLY MIXED ORGANIC/INORGANIC AEROSOLS BY CLOUD CHEMISTRY
BARBARA ERVENS, CIRA, Boulder, CO; Graham Feingold, NOAA, Boulder, CO; Simon Clegg, University of East Anglia, Norwich, UK; Sonia Kreidenweis, Colorado State University, Fort Collins, CO

11B3
10:10 AM ASSESSING THE PERFORMANCE OF THE STREAMWISE THERMAL-GRADIENT CCN CHAMBER
GREGORY ROBERTS, Scripps Institution of Oceanography, La Jolla, CA; Athanasios Nenes, Georgia Institute of Technology, Atlanta, GA

11B4
10:30 AM SCAVENGING OF BLACK CARBON BY CLOUD DROPLETS
CRAIG CORRIGAN, Ernest Weingartner, Urs Baltensperger, Paul Scherrer Institute, Villigen, Switzerland

Technical Program (updated August 27, 2003)

- 11C Numerical Modeling of Regional Aerosols II** *El Capitan A/B*
Chair: David Simpson, Co-chair: James Schauer *9:30 AM - 10:50 AM*
- 11C1 FURTHER DEVELOPMENT OF THE COMMUNITY MULTISCALE AIR QUALITY MODEL
9:30 AM WITH AEROSOL INORGANIC MODULE (CMAQ-AIM)
 KE MAX ZHANG, Anthony Wexler, University of California, Davis, CA
- 11C2 SIMULATION OF PARTICULATE MATTER IN SOUTHERN TAIWAN BY MODELS-3/CMAQ
9:50 AM *YEE-LIN WU, National Cheng Kung University, Tainan, Taiwan*
- 11C3 APPLICATION OF A THREE-DIMENSIONAL CHEMICAL TRANSPORT MODEL (PMCAMX+)
10:10 AM TO A JULY 2001 PM EPISODE IN THE EASTERN UNITED STATES
 *TIMOTHY M. GAYDOS, Bonyoung Koo, Kathleen M. Fahey, Spyros N. Pandis, Carnegie
Mellon University, Pittsburgh, PA*
- 11C4 ON THE MODELING OF A TRUE STOCHASTIC COALESCENCE EQUATION
10:30 AM *YAN XUE, Orlando Ayala, University of Delaware, Newark, DE; Wojciech Grabowski,
National Center for Atmospheric Research, Boulder, CO; Lian-Ping Wang, University of
Delaware, Newark, DE*
- 11D Particle Synthesis and Diagnostics I** *Huntington A/B/C*
Chair: Pratim Biswas, Co-chair: Kikuo Okuyama *9:30 AM - 10:50 AM*
- 11D1 IN-SITU NANOPARTICLE DIAGNOSTICS IN A THERMAL PLASMA PROCESS
9:30 AM *XIAOLIANG WANG, Thierry Renault, Christopher Perrey, Rajesh Mukherjee, Jami Hafiz,
Ashok Gidwani, C. Barry Carter, Joachim Heberlein, Steven Girshick, Peter H. McMurry,
University of Minnesota, Minneapolis, MN*
- 11D2 ENHANCED SINTERING OBSERVED IN VANADIUM DOPED TITANIUM DIOXIDE
9:50 AM SYNTHESIZED IN THE TUBULAR REACTORS
 *PRATIM BISWAS, Kuk Cho, Washington University, St. Louis, MO; Philip Fraundorf,
University of Missouri, St. Louis, MO*
- 11D3 BIMODAL MOMENT MODELS FOR SIMULTANEOUS PARTICLE FORMATION, SURFACE
10:10 AM GROWTH, COAGULATION AND COALESCENCE
 JAE IN JEONG, Mansoo Choi, Seoul National University, Seoul, Korea
- 11D4 PREPARATION OF HIGHLY CRYSTALLINE BARIUM TITANATE NANOPARTICLES USING
10:30 AM SALT-ASSISTED SPRAY PYROLYSIS
 *Kikuo Okuyama, YOSHIFUMI ITOH, Wuled Lenggoro, Hiroshima University, Hiroshima,
Japan; Sotiris E. Pratsinis, Swiss Federal Institute of Technology, Zurich, Switzerland*

Technical Program (updated August 27, 2003)

11E Composition Measurement

Palos Verdes A/B

Chair: Clifford Davidson, Co-chair: Da-Ren Chen

9:30 AM - 10:50 AM

- 11E1
9:30 AM EFFECTS OF REFRACTORY MATERIAL AND TEMPERATURE PROTOCOL ON MEASUREMENT OF PARTICULATE ELEMENTAL CARBON USING THE THERMAL-OPTICAL TRANSMITTANCE METHOD
R. SUBRAMANIAN, Allen Robinson, Andrey Khlystov, Carnegie Mellon University, Pittsburgh, PA
- 11E2
9:50 AM ULTRAVIOLET LIDAR AND TRANSMISSOMETER FOR THE ON-ROAD MEASUREMENT OF AUTOMOTIVE PARTICLE EMISSION FACTORS
CLAUDIO MAZZOLENI, Hans Moosmüller, Peter W. Barber, Hampden D. Kuhns, Robert E. Keislar, John G. Watson, Desert Research Institute, Reno, NV
- 11E3
10:10 AM EVALUATION OF FREQUENCY-MODULATED COHERENT BURST LIDAR FOR PARTICLE MEASUREMENT USING LABORATORY GENERATED PARTICLES
M.D. CHENG, T. Darn, Oak Ridge National Laboratory, Oak Ridge, TN; W.G. Fisher, Galt Technology; K.E. Lennox, M.L. Simpson, J.M.E. Storey, Oak Ridge National Laboratory, Oak Ridge, TN; E.A. Wachter
- 11E4
10:30 AM AMBIENT PARTICLE MEASUREMENTS IN AN URBAN ENVIRONMENT USING LASER-INDUCED BREAKDOWN SPECTROSCOPY
GREGG LITHGOW, University of Maryland, College Park, MD; Allen Robinson, Carnegie Mellon University, Pittsburgh, PA; Steven Buckley, University of Maryland, College Park, MD

Technical Program (updated August 27, 2003)

Friday, October 24, 2003

Platform Session #12

11:10 AM - 12:30 PM

12A Atmospheric Aerosol Advances

Laguna A/B

Chair: Barbara Turpin, Co-chair: John Ondov

11:10 AM - 12:30 PM

- 12A1
11:10 AM PROGRAM POVA (POLLUTION DES VALLEES ALPINES) : GENERAL PRESENTATION
JEAN-LUC JAFFREZO, Laboratoire de Glaciologie et de GŽophysique de l'Environnement, Saint Martin Dheres, France; Didier Chapuis, AIR-APS, Chambery, France
- 12A2
11:30 AM PM EMISSION RATES FROM HIGHLY TIME-RESOLVED AMBIENT CONCENTRATION MEASUREMENTS
JOHN ONDOV, Patrick Pancras, University of Maryland, College Park, MD; Noreen Poor, University of South Florida, Tampa, FL; Jay Turner, Megan Yu, Washington University, St. Louis, MO; Eric Lipsky, Emily Weitkamp, Allen Robinson, Carnegie Mellon University, Pittsburgh, PA
- 12A3
11:50 AM OPTICAL CLOSURE AT GOSAN DURING ACE-ASIA: RESULTS AND LESSONS LEARNED
PATRICK CHUANG, University of California, Santa Cruz, CA
- 12A4
12:10 PM THE CHEMICAL COMPOSITION OF ATMOSPHERIC ULTRAFINE PARTICLES DURING NUCLEATION EVENTS
JAMES N. SMITH, Katharine F. Moore, National Center for Atmospheric Research, Boulder, CO; Didier Voisin, University of Provence, Marseille, France; Lee Mauldin, National Center for Atmospheric Research, Boulder, CO; Ajaya K. Ghimire, Hiromu Sakurai, Melissa A. Fink, Peter H. McMurry, University of Minnesota, Minneapolis, MN; Fred L. Eisele, National Center for Atmospheric Research, Boulder, CO
- 12B Clouds & Fog

Avila A/B

Chair: Mark Jacobson, Co-chair: Cynthia Towhy

11:10 AM - 12:30 PM

- 12B1
11:10 AM IN-CLOUD MEASUREMENTS ON A MOUNTAIN-TOP SITE IN CENTRAL SWEDEN USING AN AEROSOL MASS SPECTROMETER
FRANK DREWNICK, University of Mainz, Mainz, Germany; Silke Henseler, Nele Hock, Max-Planck Institute for Chemistry, Mainz, Germany; Kevin J. Noone, Stockholm University, Stockholm, Sweden; Johannes Schneider, Silke Weimer, Max-Planck Institute for Chemistry, Mainz, Germany; Stephan Borrmann, University of Mainz, Mainz, Germany
- 12B2
11:30 AM AEROSOL-CLOUD INTERACTIONS DURING TROPICAL DEEP CONVECTION: EVIDENCE FOR THE IMPORTANCE OF FREE TROPOSPHERIC AEROSOLS
ANN FRIDLIND, Andy Ackerman, Eric Jensen, NASA Ames Research Center, Moffett Field, CA; Dave Stevens, Lawrence Livermore National Laboratory, Livermore, CA; Donghai Wang, NASA Langley Research Center, Hampton, VA; Andy Heymsfield, Larry Miloshevich, National Center for Atmospheric Research, Boulder, CO; Cindy Twohy, Oregon State University, Corvallis, OR; Mike Poellot, University of North Dakota, Grand Forks, ND; Timothy Vanreken, Tracey Rissman, Varuntida Varutbangkul, Rick Flagan, John Seinfeld, California Institute of Technology, Pasadena, CA; Haf Jonsson, CIRPAS, Monterey, CA
- 12B3
11:50 AM CHEMICAL AND DYNAMICAL EFFECTS ON AEROSOL CLOUD DROPLET NUMBER: A REVERSE MODELING APPROACH
SARA LANCE, Georgia Institute of Technology, Atlanta, GA; Tracey Rissman, California Institute of Technology, Pasadena, CA; Athanasios Nenes, Georgia Institute of Technology, Atlanta, GA
- 12B4
12:10 PM FREE AND COMBINED AMINO COMPOUNDS IN ATMOSPHERIC FINE PARTICLES (PM_{2.5}) AND FOG WATERS FROM NORTHERN CALIFORNIA

Technical Program (updated August 27, 2003)

- 12C Numerical Modeling of Regional Aerosols III** *El Capitan A/B*
Chair: James Schauer, Co-chair: David Simpson *11:10 AM - 12:30 PM*
- 12C1 MODELING PARTICULATE MATTER WITH TWO THREE-DIMENSIONAL MODELS: CMAQ
11:10 AM AND PM-CAMX
 YANG ZHANG, Betty Pun, Shiang-yuh Wu, Krish Vijayaraghavan, Gopi Yelluru, Christian
 Seigneur, Atmospheric and Environmental Research, Inc., San Ramon, CA
- 12C2 NEXT GENERATION MODEL FOR PREDICTING ATMOSPHERIC GAS-TO-PARTICLE
11:30 AM CONVERSION IN INORGANIC/ORGANIC SYSTEMS
 ROBERT GRIFFIN, University of New Hampshire, Durham, NH; Donald Dabdub, University
 of California, Irvine, CA; John Seinfeld, California Institute of Technology, Pasadena, CA
- 12C3 THERMODYNAMIC MODELING FRAMEWORK OF ATMOSPHERIC
11:50 AM INORGANIC AEROSOL
 KEE-YOUN YOO, Jiwen He, Neal R. Amundson, University of Houston, Houston, TX
- 12C4 CONTRIBUTION OF VEGETATIVE BURNING TO PM_{2.5} CONCENTRATIONS IN THE SAN
12:10 PM JOAQUIN VALLEY
 RICHARD COUNTESS, Countess Environmental, Westlake Village, CA
- 12D Particle Synthesis and Diagnostics** *Huntington A/B/C*
Chair: George Mulholland, Co-chair: Ying-Wu Teng *11:10 AM - 12:30 PM*
- 12D1 A COMPUTATIONAL AND EXPERIMENTAL STUDY ON THE OPTICAL SIZING OF
11:10 AM COMBUSTION PARTICULATES USING TWO-ANGLE LASER SCATTERING
 MEASUREMENTS
 Yingwu Teng, Kai Yu, UMIT KOYLU, University of Missouri, Rolla, MO
- 12D2 A MOVING SECTIONAL MODEL FOR THE FORMATION AND GROWTH OF SOOT
11:30 AM PARTICLES
 SUNG HOON PARK, Steven N. Rogak, University of British Columbia, Vancouver, BC,
 Canada
- 12D3 MEASUREMENT OF AIRCRAFT-GENERATED NANOPARTICLES
11:50 AM *HEE-SIEW HAN, University of Minnesota, Minneapolis, MN*
- 12D4 SIZE AND CHEMISTRY OF INCIPIENT SOOT IN A WELL STIRRED REACTOR
12:10 PM *GEORGE MULHOLLAND, Eui Ju Lee, Samuel Manzello, NIST, Gaithersburg, MD; Linda*
 Blevens, Sandia National Laboratories, Livermore, CA; Scott Stouffer, Air Force Research
 Laboratory, Wright Patterson Air Force Base, OH

Technical Program (updated August 27, 2003)

12E Nanoparticles II

Palos Verdes A/B

Chair: Goodarz Ahmadi, Co-chair: Suresh Dhaniyala

11:10 AM - 12:30 PM

- 12E1 PARTICLE TRANSPORT AND DEPOSITION IN A COMPLEX INDUSTRIAL HOT-GAS
11:10 AM FILTERATION SYSTEM
ALI R. MAZAHERI, Goodarz Ahmadi, Clarkson University, Potsdam, NY
- 12E2 AEROSOL DYNAMICS MODELING OF SILICON PARTICLE FORMATION
11:30 AM *SUDDHA S. TALUKDAR, Mark T. Swihart, State University of New York, Buffalo, NY*
- 12E3 EVAPORATION CHARACTERISTICS OF DROPLETS CONTAINING NONVOLATILE SOLUTES
11:50 AM IN HIGHLY VOLATILE SOLVENTS
*ASIT RAY, University of Kentucky, Lexington, KY; Venkat Devarakonda, BlazeTech Corp.,
Cambridge, MA*
- 12E4 PRELIMINARY DATA ON THE N-PENTANOL - HELIUM NUCLEATION RATES UP TO 120
12:10 PM ATMOSPHERES
MICHAEL ANISIMOV, Philip Hopke, Clarkson University, Potsdam, NY

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