

**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To AB-1a
in the Session Listing](#)

41706

Statistical Modeling of PM2.5 Mass in Atlanta: Results From the First Two Years of the ASACA Study*Andre J. Butler, Shamekia McGriff, Sun-Kyoung Park,
and Armistead G. Russell*

42646

Diurnal Trends in PM2.5 Composition: A 2001 Summer Study from two Sampling Sites in Pittsburgh*William K Modey, Delbert J Eatough, Richard R Anderson, Donald V Martello,
Satoshi Takahama, Leonard J Lucas, and Cliff I Davidson*

42678

Comparison Of Pm1.0 And Pm2.5 Particulate Matter Measured With Teom And Pc-Boss On The Wasatch Front (Utah) July To September 2001*Norman Eatough, Russell Long, Cory B. Carter, Delbert J. Eatough,
and William E. Wilson*

**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To AB-1b
in the Session Listing](#)

- | | |
|-------|--|
| 42563 | Ultrafine Particle Number Concentrations And Size Distributions Of Diesel, Natural Gas, And Trap-Equipped Diesel Transit Buses Measured With An Electrical Low Pressure Impactor
<i>Yingge QU and Britt Holmen</i> |
| 42675 | Comparison Of Speciation Sampler And PC-Boss Results Obtained On The Wasatch Front During The Winter Of 2001-2002
<i>Cory B. Carter, Russell W. Long, Norman L. Eatough, Delbert J. Eatough, Neal Olson, and William E. Wilson</i> |
| 42849 | Ambient concentration of particulate Polycyclic Aromatic Hydrocarbons(PAHs) and their dry deposition in Korea
<i>Ji Yi Lee, Yong Pyo Kim, Seung Muk Yi, and Young Ji Han</i> |
| 42858 | Charaterization of PM10 and PM2.5 Source Profiles for Soil and Paved Road Dust in Hong Kong
<i>Shun-cheng Lee and Kin-Fai Ho</i> |
| 42992 | Characterization of Fine Particulate Matter at Schools in Ohio
<i>Amol R. Kulkarni, Sunil Kumar, Kuruvilla John, and KevinCrist Ohio University Health Sciences</i> |
| 43206 | Charring Characteristics Of Atmospheric Organic Particulate Matter In Thermal Analysis
<i>Jianzhen Yu, Jinhui Xu, and Hong Yang</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-1b
in the Session Listing](#)

45411

**Particulate Matter and Associated Polycyclic Aromatic Hydrocarbons in
Bangkok**

*Pajaree Thongsanit, Wanida Jinsart, Beverley Hooper, Wongpun Limpaseni,
and Martin Hooper*



[Return To AB-1c
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

42287	Four Years of SEARCH and Counting <i>D. Alan Hansen, Eric Edgerton, and Benjamin Hartsell</i>
42685	Effects of Changes in Sulfate, Ammonia, and Nitric Acid on Particle Composition in the Southeastern United States <i>Charles Blanchard and George Hidy</i>
42871	Filter -Based Measurements of PM2.5 Mass and Composition in SEARCH <i>Eric Edgerton, Benjamin Hartsell, John Jansen, and D. Alan Hansen</i>
42873	Real-time Measurements of PM2.5 Mass and Composition in SEARCH <i>Eric Edgerton, Ben Hartsell, John Jansen, and D. Alan HANSEN</i>
42874	Investigation of Sampling Artifacts in the Federal Reference Method for PM2.5 <i>Eric Edgerton, Ben Hartsell, John Jansen, and D. Alan Hansen</i>
42887	Measurement of Trace Gas Oxidants, Precursors and Tracers in SEARCH <i>Eric Edgerton, Ben Hartsell, John Jansen, and D. Alan Hansen</i>
43064	Carbon in Southeastern Aerosol Particles <i>George Hidy, E. Edgerton, B. Hartsell, C. Blanchard, and J. Jansen</i>



[Return To AB-2b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|-------|--|
| 41757 | The Central California Ozone Study: Analysis of Actinic Flux Measurements
<i>William R Stockwell, Wendy S Goliff, and Dongchul Kim</i> |
| 42098 | Effects of Long-Term Storage on Samples Collected on Tenax-TA
<i>Wendy Goliff and Barbara Zielinska</i> |
| 42196 | Volatile Organic Compounds In Landfill Gas At The Colombian Biggest
Municipal Waste Disposal Site
<i>Sandra Estévez, Ingrid Hincapie, and Eugenio Giraldo</i> |
| 42265 | Issues Related to Benzene in Eastern Montreal (Quebec) Canada
<i>Andre Germain, Jacques Rousseau, and Tom Dann</i> |
| 42317 | Adsorption Of Aromatic Hydrocarbon Vapors At The Gas-Solid And Gas-
Water Interface
<i>Suresh Raja, Frank Yacone, Raghunathan Ravikrishna,
and Kalliat T. Valsaraj</i> |
| 42565 | Chemical Characterization of Exhaust Emissions from Heavy Duty Diesel
Vehicles Using Low Sulfur Fuel and Equipped with Particle Filters
<i>Barbara Zielinska, John Sagebiel, Miriam Lev-On, Chuck LeTavec,
Gregory J. Thompson, and Teresa Alleman</i> |
| 42877 | Monitoring of Toxic Substances in Ontario - Great Lakes Basin (1990 - 2001)
<i>Tom Dann</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-2b
in the Session Listing](#)

43022

**Collection And Analysis Of Airborne Carbonyls By On-Sorbent Derivatization
and Thermal Desorption**

Steven S.H. Ho and Jianzhen Yu



[Return To AB-2c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42322 | <p>A Multi-Level Nested Photochemical Model To Evaluate The Allowable Capacity Of Nox And NMHC In Southern Taiwan
<i>Ken-Hui Chang and Jiun-Horng Tsai</i></p> |
| 42482 | <p>Evaluation and Sensitivity Studies of USEPA's Models-3 /CMAQ Annual Model Simulations over the Continental United States
<i>Carey Jang, Patrick Dolwick, Brian Timin, Norman Possiel, and Joseph Tikvart</i></p> |
| 42829 | <p>Regional Air Quality Model Sensitivity to Power Plant Emissions in Southern Ontario
<i>Xin Qiu, Mike Lepage, and J. Wayne Boulton</i></p> |
| 43083 | <p>Estimating Future-Year Ozone Design Values with Two Regional-Scale Modeling Systems in North Carolina
<i>Saravanan Arunachalam, Zachariah Adelman, Kimberly Hanisak, Andrew Holland, and Rohit Mathur</i></p> |
| 43110 | <p>Temporal and spatial variability of ozone production efficiencies over the eastern United States
<i>Jhumoor Biswas, Christian Hogrefe, and S. Trivikrama Rao</i></p> |
| 43180 | <p>Recent Advances in Photochemical Air Quality Modeling Using the CAMx Model: Current Update and Ozone Modeling of Point Source Impacts
<i>Ralph Morris, Greg Yarwood, Christopher Emery, and Gary Wilson</i></p> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-2c
in the Session Listing](#)

43182

Evaluation of grid-based ozone and PM modeling for a 1999 summer episode
Qing Sun, Anantharaman Chandrasekar, and Panos G Georgopoulos



[Return To AB-2d
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41906

Surface Ozone Monitoring in Hong Kong
King-Lung So

42840

Sources of PM10, PM2.5, and VOCs in the Greater Cairo Area
Mahmoud Abu-Allaban, Alan Gertler, Douglas Lowenthal, and Mounir Labib

42962

Comparison Between the Cairo Lead Inventory and Source Attribution Results
Douglas H. Lowenthal, Alan Gertler, Mounir Labib, and Mohammed H. Khalil

43211

Photochemical Pollution in Bangkok, Thailand and Associated Local Meteorological Conditions and O3 Precursors Concentrations
Nguyen Thi Kim Oanh and Zhang BAONING



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-3c
in the Session Listing](#)

- | | |
|-------|--|
| 41844 | <p>A Screening Evaluation of Glutaraldehyde Deposition from Cooling Tower Drift
<i>David McCready and Donald Fontaine</i></p> |
| 42897 | <p>New Methods on Probabilistic Dispersion Modeling
<i>Anand Yegnan, Derek Williamson, and Andrew Graettinger</i></p> |
| 42916 | <p>Modification of a Mesoscale Atmospheric Model for Simulation of Airflow Around Buildings
<i>Ted Yamada</i></p> |
| 43115 | <p>Comparison of ISC-Prime and Wind Tunnel Results
<i>Sharon Schajnoha, John Alberico, Michael Ratcliff, and David S. Chadder</i></p> |



[Return To AB-3d
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|-------|--|
| 42432 | An Evaluation of the Errors Associated With Loss of Puffs at the Boundary of the CALPUFF Modeling Domain
<i>Gordon Randy Hannaway, Noreen Poor, and Laura Venegas</i> |
| 42882 | An Evaluation of the CALMET Meteorological Model Surface Wind Field Predictions
<i>Daniel Riley</i> |
| 43096 | Practical Applications of Overwater Meteorological Data to CALMET Modeling in Coastal Domains
<i>Ryan Gesser</i> |
| 43454 | Evaluation of the Calpuff Long-range Transport Screening Technique by Comparison to Refined Calpuff Results for Several Power Plants in Both the Eastern and Western United States
<i>Mark J. Bennett, Mary Elizabeth Yansura, Irene Hornyik, James Nall, Don G. Caniparoli, and Cammie G. Ashmore</i> |
| 99999 | Initial REMSAD Simulation of Sulfate Aerosol for the BRAVO Study
<i>Michael G. Barna, Douglas G. Fox, and William C. Malm</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-3e
in the Session Listing](#)

42534

**FLAG Aftermath: Effects of the Federal Land Managers Modeling Guidance
on CALPUFF Applications for New Source Permitting**
Robert J. Paine, Jeffrey A. Connors, and David W. Heinold



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-3f
in the Session Listing](#)

42369

Particulate Matter Dispersion in Urban Environments in Colombia
Julian Bedoya, Santiago Gomez, and Carlos Echeverri

42663

**Measurements of the Vertical Profile of Meteorological Parameters and
Pollutants Concentration in Mexico City**
Erik Velasco Saldaña

42776

The Pollutant Transport by Fumigations in the Coastal Region
Youn-Seo Koo

43344

Modeling of Regional Transport and Dispersion of PM10 in Central Mexico
*Rafael Villasenor, Enrique Gonzalez, Tania Lopez, Jorge Gasca,
Virginia Mora, and Violeta Mugica*



[Return To AB-5a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42171

Highway Tunnel Ventilation System Fan Noise Testing, Modelling and Tracking Program

Charles Nadel

42998

Sound Level Analysis in 1/3 Octave Band Resolution

Douglas Sheadel

43547

Estimation of Environmental Noise Impacts within Architectural Spaces

Young-Soo Chang

53333

Uncertainty in Power Plant Sound Level Surveys

Robert A. Putnam and Jordan M. Haywood



[Return To AB-6a
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|-------|--|
| 42311 | An Assessment of the Contribution of Mobile Sources on Visibility Degradation in the Los Angeles Basin: Past, Present, and Future
<i>Haisong Lin, David C. Cocker, and Joseph M. Norbeck</i> |
| 42617 | Implications of Aerosol Measurement Uncertainty on Tracking of Progress in Mitigating Regional Haze
<i>Ivar Tombach</i> |
| 43010 | Visibility Trends in Korea During the Past Two Decades
<i>Young Sung Ghim, S. H. Lee, J. Y. Kim, K. C. Moon, and Y. P. Kim</i> |
| 43084 | Ambient Aerosol Characteristics at a Midwestern USA Site from 1995 to 2000
<i>Pinar Kus, Mark J. Rood, John Ogren, and Patricia Quinn</i> |
| 88881 | The IMPROVE and WRAP Web Sites: Supporting Better Understanding and Control of Regional Haze
<i>Bret A. Schichtel, Rodger B. Ames, Douglas G. Fox, Monica S. Engle, Julie I. Winchester, Marc Pitchford, and William C. Malm</i> |
| 88888 | Estimating Long Term Visibility Trends: A Comparison Between EPA Proposed Guidance and Historic IMPROVE Methods
<i>James F. Sisler and William C. Malm</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AB-7a
in the Session Listing](#)

42436

Mold Growth Inside Air Conditioning Equipment

Roger G. Morse and Dean A. Zehnter

42680

**Methods for Assessing Volatile Organic Compounds in Indoor Air from
Subsurface Soil and Groundwater Contamination**

Lisa Simkins Barnes and Odin Ansari

47777

Solving Elusive IAQ Problems with Ultrafine Particle Tracking

Chuck Felland



[Return To AE-1b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

42404

Adsorption of Mercury in Combustion Flue Gas by Activated Carbon*Rong Yan, David Tee Liang, Leslie Tsen, Yeh Ping Wong,
and Yong Kian Lee*

42676

Mercury Oxidation in Coal-Fired Utility Boilers: Validation of Gas-Phase Kinetic Models*Adel Sarofim, Zumao Chen, and Constance Senior*

42730

Impact of Carbon-in-Ash on Mercury Removal Across Particulate Control Devices in Coal-Fired Power Plants*Constance Senior and Stephen Johnson*

42889

Sorbent Development for Control of Mercury Emissions from Utility Power Plants*Michael Holmes, Stanley Miller, John Pavlish, and Grant Dunham*

43223

Optimizing Adsorption within Gas - Sorbent Suspensions: A Proof of Concept Study*Uttam Narasimhan and Herek L. Clack*

43568

FIELD STUDIES OF MERCURY CONTROL USING INJECTED SORBENTS*Sharon Sjostrom, Tim Ebner, Paul Harrington, Rick Slye,
and Ramsay Chang*

43569

MerCAP: A Novel Approach for Vapor Phase Mercury Capture*Sharon Sjostrom, Tim Ebner, Rick Slye, and Ramsay Chang*

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-1b
in the Session Listing](#)

45358

**A Pilot Study on the Adsorption of Mercury Chloride by Waste-Tire Derived
Powdered Activated Carbon**

Hsun-Yu Lin, Chung-Shin Yuan, and Ming-Han Liu



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-1c
in the Session Listing](#)

43249

Full-Scale Test of Mercury Control with Sorbent Injection and an ESP at Wisconsin Electric's Pleasant Prairie Power Plant

Travis Starns, Jean Bustard, Michael Durham, Charles Lindsey, Cameron Martin,, Richard Schlager, Brian Donnelly, Sharon Sjostrom, Paul Harrington, Sheila Haythornthwaite, Richard Johnson, Ed Morris, Ramsay Chang, and Scott Renninger



[Return To AE-1f
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***43151****Comparison of High Injection Acid Gas Control Technologies***John Maziuk and John Kumm***45300****Effect of Exhaust Stack Geometry on the Amount of Liquid Condensate
during plant start-up***Rajiv Mongia, Wenjun Qin, Jacques Belanger, Ali Reza, and Paolo Zannetti***45375****The Influence on De-NO over Copper Catalyst Modified with Acids***Chang-Mao HUNG, Jie-Chung Lou, and Ling-Hsuan Huang***45376****Controlling Multiple Emissions from Coal-fired Power Plants***Reynaldo Forte, Ravi K. Srivastava, E. Stratos Tavoulaareas, Rui Afonso,
Wojciech Jozewicz, and Michiel Doorn*

**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To AE-2a
in the Session Listing](#)

- | | |
|--------------|--|
| 42427 | Design and Operation of Safe Vent Collection Systems
<i>Robert W. Sylvester and David G. Clark</i> |
| 42727 | Low-Temperature Catalytic Oxidation of Airborne Organic Materials
<i>Shane E. Roark, James H. White, Michael C. Milazzo, Jimena Cabrera,
and Joseph D. Wander</i> |
| 42930 | Destruction of 1,1,1-trichloroethane (TCA) using Non-Thermal Plasma (NTP)
<i>Sandeep Agnihotri, Mark P Cal, and Justin Prien</i> |
| 43005 | Prediction of The Equilibrium Constant of An Adsorption Model by VOC
Adsorption on Microporous Adsorbents
<i>Yu-Chun CHIANG</i> |
| 43046 | Evaluation of Bench- and Pilot-Scale Adsorption Systems to Capture and
Recover Organic Vapors via Electrothermal Desorption
<i>Christopher M.B. Lehmann, David Ramirez, Suk-yi Lo,
Katherine D. Dombrowski, Patrick Sullivan, Mark J. Rood, and K. James Hay</i> |
| 43052 | Nanostructure of Activated Carbon Fibers and Kinetics of
Adsorption/Desorption
<i>Joseph S. Hayes, Jr.</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-2a
in the Session Listing](#)

43166

Characterization Of Physical, Thermal And Adsorption Properties Of A Series Of Activated Carbon Fiber Cloths

Suk-yi Lo, David Ramirez, Christopher Lehmann, Mark J. Rood, and James K. Hay

43579

Computational Modeling for Multicomponent Separation of Volatile Organic Compounds by Sorption

Mehrdad Lordgooei and Mi-Sug Kim

45484

Adsorption Process With Regeneration By Joule Effect On A Activated Carbon Monolith For VOCs Abatement

Fendong Yu and Lingai Luo

45779

Microwave Treatment of Hypergolic Fuel and Oxidizer Vapors

Chang Yul Cha, Timothy Provens, Gary Wright, and Joe WANDER



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-2b
in the Session Listing](#)

- | | |
|-------|--|
| 42529 | <p>Circulating Aeration System For Controlling Voc Emissions From Aeration Basins In Potws
<i>Kun Zhao, Timothy C. Keener, Kaniz F. Siddiqui, and Jason Sundrup</i></p> |
| 42633 | <p>Biofiltration - A Disruptive Technology for Sustainable Air Pollution Control
<i>Loren G. Garner</i></p> |
| 42865 | <p>VOC Control In An Underground Experimental Facility: Technical And Safety Issues
<i>Antonio Casimiro Caputo, Pacifico Marcello Pelagagge, and Roberto Tartaglia</i></p> |
| 42911 | <p>Photocatalytic Oxidation of Vinyl Chloride (VC) in Contaminated Air Streams
<i>Madjid Mohseni</i></p> |
| 43004 | <p>Control of Vaporous Naphthalene by Absorption with Non-ionic and Anionic Surfactants
<i>Chih-Cheng Wu, Whei-May Grace Lee, Kuo-Ping Yu, and Ching-Nan Chen</i></p> |
| 43023 | <p>Effect of Operating Parameters on the Performance of ZSM-5 Zeolite Honeycomb Rotor for VOCS Treatment
<i>F.T. Chang, Yuchih Lin, Hsunling BAI, B. S. Pei, and Ajay Gupta</i></p> |
| 43049 | <p>Air Pollution Control In The Semiconductor And Photoelectric Industries In Taiwan
<i>Yuchih Lin, F.T. Chang, Chiehchih Chen, Hsunling Bai, S.L. Hsieh, and J.C. Chu</i></p> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-2b
in the Session Listing](#)

45394

**A New Approach of Odour Control by Using NaOCl and Electrolysis: The
Practical Case of Wastewater Treatment Plant of Tannery Industry**
Hsin-Hsien Wu, Shu-Sung Lin, Keh-Perng Shen, and Ching-Chih Lai



[Return To AE-2c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42602 | <p>Design, Construction And Long-Term Performance Of Novel Type Of Industrial Biotrickling Filters For Voc Control
<i>Vladimir Popov, Alexey Bezborodov, Phillip Cross, and Walter Jackson</i></p> |
| 42908 | <p>Biofiltration of Particleboard Press Vent Emissions
<i>Jim Boswell, Paul John, Baron Adams, Greg Sturman, J. Mark Tracy, and Katherine Fry</i></p> |
| 42952 | <p>Air Bio-Reactor Systems: A Regulator's Perspective
<i>Mohamed Serageldin</i></p> |
| 42988 | <p>Removal Of Diethyl Ether In A Rotating Drum Biofilter At High Organic Loading Rates
<i>Chunping Yang, Makram T. Suidan, Xueqing Zhu, and Byung J. Kim</i></p> |
| 43140 | <p>Use Of Polyurethane Foam/Activated Carbon Media Combined With Sequencing Batch Operation For Biofiltration Of Methyl Ethyl Ketone (Mek) Contaminated Air
<i>Congna Li and William M. Moe</i></p> |
| 43187 | <p>An Innovative Biofilter For Treating Vocs In Air Emissions
<i>Byung KIM, Xueqing Zhu, Makram Suidan, and Chunping Yang</i></p> |
| 43317 | <p>Evaluating and Troubleshooting Biofilters
<i>Jan W. Allen and Dean Bose</i></p> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-2c
in the Session Listing](#)

43375

Results Of Full-Scale Installation And Comparison Of Bioreactor Operations
Charles S. Swift



[Return To AE-2cA
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 41881 | Odor Control Efforts at a Soybean Processing Facility
<i>Matthew Traister and Derek Henderson</i> |
| 42688 | H2S Removal By Compost Biofiltration: Media Mixing Effects On Operational Factors
<i>Juan Manuel, Sergio Revah, and Adalberto Noyola</i> |
| 42950 | High Concentration Btex Removal In Compost Biofilters
<i>Alvaro Martinez and William Tamara</i> |
| 43167 | Kinetic Evaluation Of H2s And Ammonia Biofiltration For Air Emissions Control
<i>Kim Jones, Alvaro Martinez, Ketankumar Maroo, Sonali Deshpande, and Jim Boswell</i> |
| 43170 | Investigation Of A Polyurethane Foam Biofilter:Effect Of Operating Mode And Nutrient Supply
<i>Jungsu Park, Kerry Kinney, and William Moe</i> |
| 43558 | Biotrickling Filters for Odor Treatment at POTWs: Full-scale experience with Converted Scrubbers
<i>David Gabriel, Huub Cox, Jeffrey Brown, Edward Torres, and Marc A. Deshusses</i> |



[Return To AE-2cB
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***42904****Fungal Biofiltration Of A Hydrophobic Pollutant On Ceramic Supports***Aitor Aizpuru, Inés García-Peña, Sergio Hernández, Pierre Christen,
Richard Auria, and Sergio Revah***43012****Removal of Aliphatic Gasoline Compounds in Perlite Biofilter***Jan Paca, Martin Halecky, Eva Klapkova, and Martin Maryska***43554****An Environmental Friendly Method for Controlling Biomass in Biotrickling
Filters for Air Pollution Control***Yang-Soo Won, Huub H.J. Cox, William E. Walton, and Marc Deshusses*

[Return To AE-2cC
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42108 | Modelling the Mass & Energy Balance in a Compost Biofilter
<i>Milinda Anupa Ranasinghe, Patrick Jordan, and Peter Gostomski</i> |
| 42472 | Transport of Hydrophobic Pollutants Through Biofilms in Biofilters
<i>Martha Jane Miller and D. Grant Allen</i> |
| 42715 | Hollow Fiber Membrane Bioreactor (HFMB) for the Nitric Oxide Removal
<i>Kyung-Nan MIN, Sarina J. Ergas, and Jaime M. Harrison</i> |
| 42915 | Modeling Ammonia Removal and Biotransformation Within Laboratory-Scale Yard-Waste Compost Biofilters
<i>Ken Liberty and Joseph L Taraba</i> |
| 42969 | Heat Transfer and Toluene Removal in Bench Scale Membrane Bioreactors
<i>Ellen C. England and Mark W. Fitch</i> |
| 43271 | PCR-DGGE as a method to monitor microbial populations in nitric oxide biofilters
<i>Jeffrey A. Lacey, Brady D. Lee, and William A. Apel</i> |
| 43550 | Aerobic Removal NO on Carbon Foam Packings
<i>Kimberly Catton, Lance Hershman, Jianmeng Chen, Edward D. Schroeder, and Daniel P.Y. CHANG</i> |
| 43571 | Complete Nox and SO2 Treatment in a Biotrickling Filter - Bioreactor System
<i>Ligy Philip and Marc Deshusses</i> |



[Return To AE-2cf
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|-------|--|
| 42672 | Real-Time Mercury Analyzer Utilizing Gas-Phase mercury Reduction to Measure Total Mercury in the Flue Gas of a Coal-Fired Boiler
<i>Sandra J. Meischen, Vincent J. VanPelt, and Eugene A. Zarate</i> |
| 42851 | Removal of Acrylonitrile and Styrene by a Packed Tower Biofilter
<i>Kenji Okamoto, Maki Izawa, and Hideshi Yanase</i> |
| 43044 | Control of Propylene Glycol Propyl Ether Vapor Emissions Using Biofiltration
<i>Bradley A. Striebig and Teresa M. Young</i> |
| 43055 | Performance of a Compost-Based Hybrid Bioreactor for the Treatment of Paint Spray Booth Emissions
<i>JiHyeon SONG, Kerry A. KINNEY, James T. BOSWELL, and Paul C. John</i> |
| 55555 | BioDeNOx: Fe-EDTA as electron mediator between denitrification and iron reduction
<i>Peter van der Maas, Sander Weelink, Look Hulshoff Pol, Bram Klapwijk, and Piet Lens</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AE-2e
in the Session Listing](#)

- | | |
|-------|--|
| 42959 | CASE HISTORY: RTO Thermal Efficiency, What Does The Phrase Really Mean?
<i>Howard Hohl</i> |
| 43176 | Improving The Performance Of A Rotary Concentrator Thermal Oxidizer VOC Abatement System For Removal Of Solvent Vapors From Semiconductor Manufacturing Exhaust
<i>Russell J. Seguin</i> |
| 43533 | Development of Improved Ceramic Heat Transfer Media For RTO's
<i>John Reid</i> |



[Return To AM-1b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42498 | <p>Emissions From A Sinterizing Plant Using Statistical Models
 <i>Guilherme Corrêa Abreu, Adilson Luiz Diesel, Rogerio Silveira Queiroz,
 Gabriel Torres, Antonio Avancini Regio, and Antonio Maximiliano Ferreira</i></p> |
| 42666 | <p>Evaluating the Appropriateness of AP-42 Emission Factors
 <i>Ronald C. Fulton and John P. Schmelzle</i></p> |
| 42720 | <p>Emission Factor Development at an Iron Foundry
 <i>Matthew Traister and CherylAnn Wiseman</i></p> |
| 43260 | <p>Trace Gases in the Great Smoky Mountains National Park: Measurements,
 Analysis, and Sources Identification
 <i>Quansong Tong, Viney P Aneja, and John D. Ray</i></p> |
| 45495 | <p>Spatial Allocation of Non-road and Area Source Emissions for the Corpus
 Christi Urban Airshed using Geographical Information Systems
 <i>Rajesh Mandya, Sunil Kumar, and John Kuruvilla</i></p> |



Session AM-1d

Meet the Regulators: Newest Developments in Emission Factors and Inventories for Stationary and Mobile Sources

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AM-1d
in the Session Listing](#)

41999

Quantification of Variability and Uncertainty in Hourly NO_x Emissions from Coal-Fired Power Plants

Amr Abdel-Aziz and Henry C Frey

43134

Evaluation of Methods for Preprocessing of Emissions from On-Road Mobile Sources

Yu-Jin CHOI, Kevin Yue, Sheryl H Ehrman, and Richard V Calabrese



[Return To AM-2a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42081 | UNMIX Modeling Assessment of Gaseous Organic Compounds
<i>Chun Yi Wu and Gregory C. Pratt</i> |
| 42395 | Image Analysis to Characterize TSP in Medellin Colombia
<i>Julian Bedoya, John William Branch, and Alejandro Restrepo</i> |
| 42758 | Heavy Metal Content and Source-Receptor Reconciliation of Ambient PM2.5 Near a Coal-Fired Institutional Boiler
<i>Christos Christoforou, David Calhoun, and Lynn G. Salmon</i> |
| 42768 | Principal Components Analysis to Determine PM2.5 Source Contributions in Atlanta: Results From the First year of the ASACA Study
<i>Andre J. Butler and Armistead G. Russell</i> |
| 43085 | Winter Use Transportation Air Quality Impacts at the West Yellowstone Entrance
<i>Ouattara Chris Fatogoma and Daniel L Raley</i> |
| 43292 | Source Identification and Quantification of Coarse and Fine particles by TTFA and PMF
<i>In Jo Hwang, Choon Keun Bong, Dong Sool Kim, and Tae Jung Lee</i> |



[Return To AM-3b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42370

Urban Air Pollution and Monitoring Networks in Colombia
Julian Bedoya and Francisco Molina

42502

Grande Vitória Air Quality Automatic Monitoring Network
*Adilson Luiz Diesel, Luiz Claudio Santolim, Rogerio Silveira Queiroz,
Jennifer Oliva Coronel, Luiz Ribeiro Ignacio, Antônio Carlos Silva,
Austregésilo Ferreira Guimarães, and Guilherme Corrêa ABREU*

42623

Vehicular Impact Assessment in Rio de Janeiro, Brazil, Urban Air Quality
Andrea Moreira, Lino Francisco Rodrigues Moreira, and Daniel Grosjean

42928

**A Comparative Study of Toronto's Air Quality from an International, National
and Regional Perspective**
*Melynda M. Bitzos, Phil Kiely, David Yap, Duncan Fraser,
and Gary B De Brou*

45359

**The Influence of Operation Condition and Meteorological Factors on the
Characteristics of Volatile Organic Compounds in the Surrounding
Area of an Oil Storage and Pumping Station**
Cho-Ching Lo, Ming-He Huang, and Chung-Shin Yuan



[Return To AM-3c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42197

Ammonia Flux at the Air/Water Interface of Tampa Bay
Connie Mizak and Noreen Poor

42931

Do Macroparticles Contain Nitrogen?
Melissa C. Evans, Heather Hendrix-Holmes, and Noreen Poor

43024

The Influence of Air Mass Origin on Wet Deposition of Nitrogen to Tampa Bay, FL
David Smith, Noreen Poor, and Arlene Laing



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AM-3d
in the Session Listing](#)

- | | |
|-------|---|
| 42455 | <p>Re-evaluation of the Air Monitoring Network of an Petrochemical Complex
<i>Rogério Assuncao, Neuza Neves, and Diogenes Lyra</i></p> |
| 42494 | <p>Can Bulk Deposition Measurements Reasonably Estimate Nitrogen Deposition Rates?
<i>Heather Hendrix-Holmes and Noreen Poor</i></p> |
| 42657 | <p>Sources Of Total Fine Particulate Material Along The Wasatch Front: 1999 - 2001
<i>Russell W. Long, Cory B. Carter, Norman L. Eatough, Nolan F. Mangelson, Delbert J. Eatough, C. Arden Pope III, and William E. Wilson</i></p> |
| 43497 | <p>ETV Verification Testing of Continuous Ambient Fine Particle Monitors
<i>Kenneth A COWEN, Thomas J Kelly, and Karen B Riggs</i></p> |
| 43562 | <p>Precision and Accuracy of the MetOne Model GT-641 PM10 Monitor
<i>Stephen O'Kane, Keith McGregor, Kirk Stopenhagen, Mark Schaaf, Lowel Ashbaugh, Bruce White, Jason Roney, and John Castleberry</i></p> |



[Return To AM-4a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41810

Lowering The Cost Of Pm 2.5 Compliance --With A New Design Wet Membrane Esp

John Caine

42583

Spin Off of Selected CEMS-Related QA Activities

John Schakenbach, Gene Fax, and Art Werner

43060

Methods 2F and 2G Audits of Wind Tunnels Used to Calibrate Velocity Probes

Scott A. Shanklin, Arthur S. Werner, and John Schakenbach

43191

Determining VOC Emissions for Gas Turbines which Use the Latest Emission Control Technologies

Toni Leisen, David Ginter, Chuck Solt, and David Yee



[Return To AM-4c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|--------------|--|
| 42447 | Unique Ultra Violet Resonance Absorption NOx Analyzer for Gas Turbine Applications
<i>Bill Worthington</i> |
| 42891 | QA Requirements Following Preventive & Corrective Maintenance
<i>Drury C. Sanders</i> |
| 43067 | Parametric Monitoring for Catalytic Combustion Gas Turbines
<i>Chuck Solt</i> |
| 43146 | NOx Budget Reporting Requirements
<i>Stephen Norfleet</i> |



[Return To AM-5a
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|-------|---|
| 41251 | Ambient Ozone Concentration Trends in the South Central U.S. During the Period 1986-2000
<i>Mark Sather</i> |
| 42717 | CASTNet Sulfur Dioxide and Nitrogen Oxide Ambient Concentration Trends and the Title IV Acid Rain Provisions
<i>William R. Barnard, Thomas F. Lavery, and Christopher M. Rogers</i> |
| 42763 | Ozone concentrations measured by the Clean Air Status and Trends Network (CASTNet)
<i>Christopher Rogers and Thomas Lavery</i> |
| 43033 | An Overview of the Clean Air Status and Trends Network Quality Assurance Program from 1990 through 2000
<i>Marcus Stewart</i> |
| 43065 | Assessing Ozone Networks Using Positive Matrix Factorization
<i>Michael Rizzo and Peter A. Scheff</i> |
| 43208 | Comparing Day-of-the-Week Patterns of Ozone Precursors in Monterrey, México
<i>Jeronimo Martinez-Martinez and Nuria Arellano-Briones</i> |
| 43446 | Inverse Tracking: An Approximate Method to Analyse Regional Airshed Data
<i>Ming To</i> |



[Return To AM-5a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 43586 | <p>Trend in Ozone Levels and Characteristics of High Ozone Days in a Semi-arid Coastal Urban Airshed
<i>Sunil Kumar and John Kuruvilla</i></p> |
| 45357 | <p>Emission Trends of VOC and NOx in Delaware Rate-of-Progress Planning and Periodic Emission Inventories
<i>Frank F. Gao, John L. Otten, and David F. Fees</i></p> |
| 45498 | <p>Meteorological Influences on the Fine Particulate Matter Distribution in Central Ohio
<i>Ieesuck Jung, Sunil Kumar, Kuruvilla John, and Kevin Crist</i></p> |
| 45499 | <p>Evaluation of the Long-Term Air Quality Trends in Ohio
<i>Myoungwoo Kim, Sunil Kumar, Kuruvilla John, and Kevin Crist</i></p> |
| 54943 | <p>National Urban Air Toxics Monitoring Program 1987 through 2001
<i>Julie L. Swift, Dave-Paul Dayton, Jason M. Huckaby, and Joan T. Burse</i></p> |



[Return To AM-6a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 41815 | <p>Overview Of Corpus Christi Emission Inventory for 1999
<i>R. M. Pat Patrick, Sharareh Rafati, Kuruvilla John, and Ronald K Barnard</i></p> |
| 42074 | <p>Transport Of Pm And Fungal Aerosols In The Asian Dust Events
<i>Hwan Goo Yeo and Jong Ho Kim</i></p> |
| 42162 | <p>Methods and Example for Development of a Probabilistic Per-Capita Emission Factor for VOC Emissions from Consumer/Commercial Product Use
<i>Henry C Frey and Song Li</i></p> |
| 42572 | <p>Advanced Methods for Estimating Annual Stockpile Emissions
<i>Shelby R. Hudgens and Sam W. Rollans</i></p> |
| 42603 | <p>Discoloration Of Stucco And Other Surfaces In The Southeast Las Vegas Valley, Nevada Caused By Manganese Particulate Deposition
<i>Michael Naylor and Femi Durosinmi</i></p> |
| 42791 | <p>Assisting Tribes in Submitting Data to the National Emissions Inventory, Challenges and Successes
<i>Sarah Kelly, Virgil Masayesva, and Annabelle Allison</i></p> |
| 43420 | <p>Modeling Wind Erosion Impacts Following a Grassland Fire
<i>Martha Hyder and Patrick Haines</i></p> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AM-6a
in the Session Listing](#)

- | | |
|-------|--|
| 43531 | <p>PM10 and Precursor Emission Inventory for Modeling the Portneuf Valley, Idaho Non-attainment Area
<i>George J. Schewe and Melissa Keller</i></p> |
| 45472 | <p>Corralling the Dust in the Antelope Valley
<i>Robert Farber, Bong M. Kim, David A. Grantz, David L. Vaughn, Tom Zink, Julie Janssen, Chatten Cowherd, Mary Ann Grelinger, Rich Campbell, Paul Nguyen, Russell Almaraz, Alan De Salvio, Tony VanCuren, Jim Bort, Andrew Huang, and Earl Roberts</i></p> |
| 55551 | <p>Relative Measures of Unpaved Road Dust Suppressants
<i>Gregory E. Muleski, Chatten Cowherd, Jr., and Drew Trenholm</i></p> |
| 55552 | <p>Airborne Dust Removal by Vegetative Groundcover
<i>Chatten Cowherd, Jr., Courtney Kies, Mary Ann Grelinger, Thompson G. Pace, and Dale A. Gillette</i></p> |



[Return To AM-6b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

43068

**Validation Of A Coupled Mass Transfer With Chemical Reactions Model For
Ammonia Flux Across A Gas-Liquid Interface***Heather L. Arkinson and Viney P. Aneja*

43080

**Measurement and Modeling of Ammonia Flux and Dry Deposition Velocity
from Near-Surface Concentration Gradient Measurements over
Natural Surfaces in North Carolina***Sharon Baker Phillips, S. Pal Arya, Viney Pal Aneja, and Bok-Haeng Baek*

55553

**Dust Emission Measurements of Barge/Vessel Grain Handling Operations
(An EPA/Industry Cooperative Effort)***Gregory E. Muleski, Chatten Cowherd, Jr., and Thomas O'Connor*

77777

**Estimation of Equilibrium Time Constant for Gas-to-Particle Conversion
Based on Observational Analysis***Bok Haeng Baek and Viney P. Aneja*

[Return To AM-6d
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42654 | <p>Flux Chambers and Wind Tunnels: What is Currently Known about their Performance and Applicability
<i>Tom Card, Jay Witherspoon, and Charles E. Schmidt</i></p> |
| 42690 | <p>Evaluation of an Underpressurized Emission Flux Chamber for Measuring Potential Subsurface Vapor Intrusion into Buildings
<i>Andrew Sheldon and Charles Schmidt</i></p> |
| 42734 | <p>Comparison of Surface Flux Chamber Emission Measurements to Modeled Vapor Emissions from Subsurface Contamination
<i>John Menatti and Edward Fall</i></p> |
| 42785 | <p>Differentiating Multiple Sources of Subsurface Contamination by Similar Petroleum Products- Air Pathway Analysis Used in Conjunction with Routine Multimedia Site Assessment Technologies
<i>Nancy A. Beresky, Charles E Schmidt, and Steve X Hoyt</i></p> |
| 43141 | <p>Predicting Potential Exposure for the Occupants in Future Buildings Using Direct Measurement and Predictive Modeling Techniques
<i>C. E. Schmidt, Teri L. Copeland, Jim Van de Water, and Michael J. Manning</i></p> |
| 43373 | <p>Estimating Air Emissions from Unit Treatment Process with Weirs
<i>C. E. Schmidt and Tom R. Card</i></p> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AM-6d
in the Session Listing](#)

43423

**Calibration of Emission Model by Flux Chamber Measurement for Emissions
from Industrial Facultative Ponds**
Gary Wojnowski and C. E. Schmidt



[Return To AO-1a
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

- | | |
|--------------|--|
| 42949 | Ambient Air Measurements with an Open-Path FTIR Analyzer
<i>Robert Kagann and Anthony Barnack</i> |
| 42989 | Active Open-Path Ftir Applications For Sensitive Detection Of Chemical Agents
<i>William Walter</i> |
| 43431 | Development of a Compact Raman Spectrometer for Detecting Product Interfaces in a Gasoline Pipeline
<i>Harold Schiff, Heather A Gamble, John C Robbins, and Gervase I Mackay</i> |
| 45415 | Radial Computed Tomography Of Air Contaminantas Using Optical Remote Sensing
<i>Ram A Hashmonay, Keith Wagoner, David F Natschke, D Bruce Harris, and Edgar Thompson</i> |
| 45493 | Application of an open path UV-DOAS to monitor nitrogen oxides in tunnels
<i>Serge Aflalo, Jean-Christophe Nicolas, Alain Rangdet, and Mousa Zada</i> |
| 45775 | Optical Flow Sensing for Environmental Applications
<i>Ting-I Wang and Eric I. Buhr</i> |



[Return To AO-2b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42805 **Use Of Open-Path FTIR Spectroscopy to Support Development of Refined Estimates of H2S Emissions from a New York City Municipal Wastewater Treatment Plant**

Timothy R. Minnich, Robert L. Scotto, and James J. Brady

43117 **The Long-term Development, Maintenance and Operation of a Fenceline Monitoring System Using Multiple Optical Sensing Technologies**

Ted R. McKelvey and Dale G. Iverson

43388 **Open-Path FTIR Measurement of NOx and other Diesel Emissions**

Robert Kagann, Ram Hashmonay, Keith Wagoner, and Bruce Harris

43530 **The Application Of Tunable Diode Laser System For Monitoring H2S In A Co-Generation Facility**

Harold Schiff, Alak Chanda, David Karecki, Stephen K. Dwight, and Gervase I. Mackay

45370 **Quality Assurance of Gas-Phase Infrared Reference Spectral Data**

Pamela M. Chu, George C. Rhoderick, Patricia A. Johnson, Steven W. Sharpe, Robert L. Sams, and Timothy J. Johnson

45483 **Development of Optical Remote Sensing Protocol for the Measurement of Nonpoint Emission Sources**

Patrick Sullivan and Ram Hashmonay



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To AO-2b
in the Session Listing](#)

45494

Use of an Open-Path UV--DOAS
Alain Rangdet



**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To AT-1a
in the Session Listing](#)

42283

QC/QA - An Integral Step in the Development of the 1999 National Emissions Inventory for HAPs*Anne Pope, Darcy Wilson, Stephanie Finn, and Justin Oh*

43043

Use Of Mathematical Models To Estimate The Emissions Inventory And To Simulate The Atmospheric Dispersion Of A Wastewater Plant Of A Large Petrochemical Complex*Rogério Santos Assuncao, Diogenes Ganghis Lyra, Neuza Maria Neves, and Eliane Martins Santana*

43147

Case Study: Formaldehyde Emissions from IC Engines Combusting Digester Gas Using FTIR*Kit Y. Liang and Richard J. Pope*

43209

Modeling the Fate of Mercury in Products*Carol A. Andrews, Bruce Monson, and Edward B. Swain*

45820

Compliance with Halogenated Solvent Cleaning NESHAP Standards*Nik Mukhopadhyay and Stephen E. Seachman*

[Return To AT-3a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41909

**An Assessment of Air Toxic Concentrations and Associated Health Risks
across New Jersey using NATA**

Peter Mayes and Joann Held

42880

The Denver Urban Air Toxics Assessment - Methodology, Results, and Risks

Gregg Thomas



[Return To AT-4a
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

42548

A Real-Time Dispersion Modeling System Using the Stack Tele-Metering System*Youn-Seo Koo, Eui-Chan Jeon, Im-Hack Lee, Chang-Ho Han, Sang-Min Choi, Hui-Young Yoon, Sung-Tae Kim, Yong-Seok Im, and Jong-Hyuk Choi*

42755

Sensitivity Analysis of an Instantaneous Box Release Model with Surface Heat Transfer*Ashok Kumar, Abhijeet Mahurkar, and Amit Joshi*

43053

Modeling Accidental Releases of Toxic Reactive Gases*David Heinold and Michael Mills*

43100

A Fix for the USEPA's RMP*Comp Model*Krishna Nand*

45774

Application of the Open Burn Open Detonation Model to Describe Multi-Chemical Releases After a Train Derailment and Fire*Jim Clary, Frank Camp, Stephen Beene, Michael Hollander, Larry Lovas, and T. Rick Irvin*

[Return To AT-5b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 42391 | The Miscellaneous Metal Parts and Products (MMPP) MACT Rule
<i>Jim Serne</i> |
| 42553 | Implementation of Upcoming Plastic Parts and Products Surface Coating
MACT Standard
<i>Mark Wenclawiak</i> |
| 42584 | Tools Available for Implementing and Complying with Air Toxic (e.g.,MACT)
Standards
<i>Larry L Brockman and Gilbert H Wood</i> |
| 42648 | Update on the Miscellaneous Organic NESHAP (MON) Rule
<i>Michael Dixon</i> |
| 42686 | Regulatory Compliance Demonstrations Involving the Group 1 Polymer and
Resins MACT and Title V at a Latex Products Plant
<i>Tiffany L. Dillow</i> |
| 42737 | Strategies To Achieve Compliance With The Upcoming MON MACT Rule (40
CFR 63 Subpart FFFF)
<i>Edward F. Rogers, III</i> |
| 43258 | Miscellaneous Organic NESHAP (MON) Preparation
<i>William M. Hanna III</i> |



[Return To Brownfields
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41176	Phytoremediation - A Cost Effective Green Technology <i>Steven T. Menden</i>
42982	Biodegradation of Trinitrophenol-Contaminated soil <i>Jennifer Weidhaas</i>
43070	In Situ Remediation of Low-Permeability Soils Using Electrical Resistive Heating <i>Jeffery L. Pope</i>
43143	"Hot Spot" Remediation Using Enhanced Natural Attenuation and Groundwater Extraction <i>Michael Reese</i>
43150	Evaluation of Source Area Variation on Texas Risk Reduction Program Equations <i>William G. Fuller</i>



[Return To ECC-1
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42463

Oxygenated Fuels Use in Colorado: A Basis for Comparison with Latin American Experiences

Larry Anderson

42743

Concentrations of Benzene and its Importance in the Atmosphere of the Mexico City Metropolitan Zone

*Humberto Bravo, Rodolfo Sosa, Pablo Sánchez, Emma Bueno,
and Laura González*

43102

Overview of the last 30 years of Air Pollution Control Programs and Health Effects Studies in the Metropolitan Region of Sao Paulo - Brazil

Joao Vicente



[Return To EE-1c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 41089 | <p>Results of Modeling the Air Quality Impact of a Proposed Parking Garage in Baltimore, Maryland
<i>Quattara Chris Fatogoma and Robert P Newman</i></p> |
| 42113 | <p>Mobile Source Contribution to Ambient 1,3-Butadiene, Benzene and Particle-Bound PAH at a Tollbooth
<i>Amir Sapkota and Timothy J. Buckley</i></p> |
| 42159 | <p>Hot Spot Analysis Of Real World Vehicle Emissions Based Upon A Portable On-Board Measurement System
<i>Alper Unal and Henry C Frey</i></p> |
| 42816 | <p>Application of a Microscale Emission Factor Model for Particulate Matter (MicroFacPM) in Conjunction with CALINE4 Model
<i>Rakesh B Singh and Alan H Huber</i></p> |



**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To EE-1d
in the Session Listing](#)

- | | |
|-------|--|
| 41918 | A Global Sensitivity Analysis of Photochemical Models Used for Predicting Tropospheric Ozone: Application to New York State
<i>Daniel Wimer and Joseph Norbeck</i> |
| 42496 | Responses of Human Lung Cells to Synthetic and Engine Emitted PM
<i>Mengdawn Cheng and John M Storey</i> |
| 42872 | The Effectiveness of Current Air Quality Standards for Ozone in Protecting Human Health and Welfare
<i>Hong-Jin Kim and Sabrina J. Lovell</i> |
| 42881 | New Challenges Presented by an Eight-Hour Ozone Standard in Southeast Michigan
<i>Elena Berg and Chuck Hersey</i> |
| 45816 | PM-2.5 are Not All? Biologically Equal . Which Should be
<i>David Marrack</i> |



[Return To EE-1f
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 42158 | <p>Development of a Software Module for Statistical Analysis of Variability and Uncertainty
<i>Junyu Zheng and Henry C Frey</i></p> |
| 42636 | <p>An Evaluation of the Impact on Human Health Associated with the Combustion of Materials during Fire Fighter Training Scenarios
<i>William Fuller</i></p> |
| 42725 | <p>A Cohort Based Approach for Characterizing Lifetime Inhalation Cancer Risk from Time-Varying Exposure to Air Toxics
<i>Rich Cook, Baxter Jones, and Josh Cleland</i></p> |
| 42728 | <p>Case Study of a Potency-Weighted Emission Screen: Initial Evaluation
<i>Douglas Daugherty, Kimberly Mertz, and Gwen Caviness</i></p> |
| 43224 | <p>Characterizing Population Exposures and Co-Exposures to Ozone and PM2.5 for the City of Philadelphia Using a Source-to-Dose Framework
<i>Sheng-Wei Wang, Qing Sun, Anantharaman Chandrasekar, Vikram Vyas, Pamela Shade, Yu-Ching Yang, and Panos G. Georgopoulos</i></p> |
| 43443 | <p>Evaluating Community Impacts Posed by Vehicle Emissions from an Automobile Auction Processing Facility
<i>Joseph Zupan and Jerry K Kung</i></p> |



[Return To EE-5a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

43094

**California Experience with Air Toxics Health Risk Assessments for Proposed
New Power Plants**

John Koehler and David A. Stein

43105

Air Toxics Health Risks from Thermal Power Plants

Krishna Nand

43106

**Bioaccumulation and Toxicity Effect of Mn from Automotive Combustion of
Methylcyclopentadienyl manganese tricarbonyl (MMT) on grass
(Tradescantia) species beside the major highways in Greater
Toronto Area**

A.K. Bhuie and D.N. Roy



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EE-6c
in the Session Listing](#)

41931

Odor Assessment At Pig Barns

Anna Bokowa

42892

Tackling Odor Issues at a Fertilizer Plant

Stephen Commesso



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-1a
in the Session Listing](#)

42466

Comparison of Aircraft and Other Mobile Source Engine Testing Procedures
Everett L. Douglas and Keith W. Skaggs

42745

Air Program Management Systems
Andee Felker, Michelle York, and John Freitas

43584

Air Quality Compliance Strategies - Problems & Solutions
Vijay Apte



[Return To EI-1c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

43059

Reducing Airport Emissions through the General Conformity Process
Michael Slavick

43387

**New U.S. Environmental Protection Agency and Federal Aviation
Administration General Conformity Guidance for Airports**
David Stonefield



[Return To EI-1e
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

42914

Range UXO and Residue Strategic Planning - 'Ensuring Safety and Sustainability'*Eric Beshore and James Garrison*

43122

Feasibility of CO2 Separation from Power Plant Flu Gases with Reclaimed Mg(OH)₂*Kyung Jung, Timothy C. Keener, and Soon J. Khang*

43492

Meeting Munitions Management Challenges at DoD Ranges*Matt Weakley, Chad Webb, and Kyra Sexton*

43527

Characterizing Open Burn Emissions During Actual Field Burns of Propellants and Laboratory Waste*Larry N. Hottenstein, William J. Manker, Charles C. Lee, Christopher J. Barth, and Danny L. Kringlel*

[Return To EI-1f
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42649

Federal Facilities Compliance Agreement for a Coal Fired Powerplant
Dean Dunn

42748

Air Program Mgmt Systems
Andee Felker, Michelle York, and John Freitas

43091

Technology: A Medium for Developing & Managing Emissions Inventories
Nathan CRAWFORD

43583

Emission Inventory Development at Federal Facilities
Vijay Apte



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-1k
in the Session Listing](#)

42558

CTP2 Implementation Case study-Hill AFB, Utah
Gary BAKER and Craig Shaw

42749

The Net Present Value Approach to EH&S investment
David Tietjen

43089

**Planning, Procurement And Practice: Utilyzing Ems Tools To Enhance
Compliance And Reduce Risk**
Barry L. Rubin

43104

Environmental Knowledge Management: A System Architect View
Nathan Crawford



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-1m
in the Session Listing](#)

41853

Groundwater Modeling Results - A Case Study
Sara Saylor, William McTernan, and Scott Ward

42751

Using the Delphi Method to Determine the Business Case
Shawn Dolan

43109

Technology: A Key to Assuring & Controlling the Quality of Emission Data
Nathan Crawford



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-2a
in the Session Listing](#)

42771	<p>Mercury Inventory and Source Characterization: Emerging Data <i>Leonard Levin</i></p>
42787	<p>Gas Turbines in Distributed Generation: Applications and Regulatory Issues <i>Ralph Ordonez and Leslie Witherspoon</i></p>
42920	<p>Air Impacts of Distributed Generation Power Sources in Maryland <i>Lisa Avendt, Mark Garrison, Diane Brown, and Julie Ross</i></p>
43307	<p>Synoptic Climatological Approach to Development of Warning Signals for SO₂ Episodes at the Mae Moh Valley, Thailand <i>Chutimon Piromyaporn and Nguyen Thi Kim Oanh</i></p>



[Return To EI-2e
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***42579****Emission Reductions for New Coal Technology***Jim Heeren and B. Tod Delaney***42861****Reduction of the Plume Opacity at Electric Power Plants***Byeong-Kyu K Lee and Sungwon W Cho***42910****Control of NOx and Mercury Emissions Using Coal Reburning***Vitali Lissianski, Vladimir Zamansky, Peter Maly, and Randy Seeker***43577****Biological Treatment of NOx and SO2***Marc Deshusses and Ligy Philip*

[Return To EI-2f
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***42824****Comprehensive NOx Emissions Solutions for Gas Turbines***Kevin Carpenter and Ralf Sigling***42938****Evaluating Local Impacts of a Utility Retrofit Project***Steven KLAFKA***43045****Using Acidic Soils as Selective Catalytic Reduction Catalysts for the
Removal of Nitric Oxide***Chia Hsin Lin and Hsunling Bai*

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-2i
in the Session Listing](#)

42592

Optimizing Environmental Management Systems in the Power Industry
Elizabeth Delaney and Christina Edwards

43036

**Best Available Control Technology Assessments for Nitrogen Oxides
Emissions from Combustion Turbine Power Generating Facilities**
James W. Little

43113

Reducing Power Plant Emissions through Efficiency Awareness Training
Salman M. Sheikh and Herman P Stone, II



**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To EI-3a
in the Session Listing](#)

- | | |
|--------------|--|
| 43007 | Full-Scale Investigation on Desulfurization During Combustion In Coal-Fired Boilers
<i>Chunping Yang, Shaoling Liu, Jufang Tang, Yan Fang, Guangming Zeng, and Gengxin Xie</i> |
| 43020 | Utilization of Fuel Briquette Derived from Mixing Fat Oil and Greased with Sawdust
<i>Somrat Kerdsuwan</i> |
| 45468 | Expanding Production At A Gypsum Wall Board Plant In A Severe Non-Attainment Area
<i>Charles F. Schroer</i> |
| 45470 | Benefits Of Lean Premix Combustion Technology To Thermal Oxidation
<i>Mark C. Hannum</i> |
| 45777 | The Fate of Mercury during Co-Combustion of Biomass and Wastes in Fluidized Bed Combustors
<i>Petri Kouvo</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-4a
in the Session Listing](#)

42050	<p>EPA's Newest Set of Standards for the Refining Industry - The Consent Decree <i>Jerry Hill</i></p>
45480	<p>What is Wrong with the NSPS for Petroleum Refinery FCCs and How to Fix It for Refinery MACT II? <i>(Ganga) Prasad G. RAO</i></p>
45482	<p>Risky Analysis Indeed! An Economist's Critique of Risk Analyses of Emissions from Petroleum Refinery FCCs <i>(Ganga) Prasad G. RAO</i></p>
45817	<p>EPA's Pursuit of New CEMS Ignores The Law & The Facts <i>Frank Lobb</i></p>



[Return To EI-4b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

42621

Achieving Low Mercury Concentrations In Chlor-Alkali Wastewaters*David R. Tonini, Debra A. Gauvin, Robert W. Soffel, and W. Peter Freeman*

42820

**Petroleum Refinery Title V Compliance Assurance Program Implementation-
Case Study***Gail Braden*

42935

**NOx Emissions Reduction Technologies in the Petrochemical and Refining
Industries***Charles E. Baukal, Robert Hayes, Mike Grant, Prem Singh, and Darin Foote*

42968

EPCRA's Impacts on the Chemical and Petroleum Industries*June Bolstridge*

45407

**Innovative PM10/TSP Monitoring Strategy In Development of Petroleum Coke
Handling Permit***Ravi Rangan, Elizabeth A. Frey, and Joseph M. Martini*

45487

Hydrogen Sulfide Study near Petroleum Asphalt Plants*Steve Paul Schliesser, Bryan D. Lange, James R. Bowyer,
Jeffrey J. Hayward, and J. Thomas Anderson*

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-5a
in the Session Listing](#)

43073

Internal Trading of Greenhouse Gas Emissions

Dan Willis, Errick Willis, Melinda Harris, and Dan Lieberman

43196

**Implementing EPA's Proposed AERMOD Dispersion Model for the Cement,
Lime, and Non-Metallic Mineral Industries**

Arron Heinerikson and Abby Goodman



Session EI-6a

Problems with Emission Estimates in the Metal Industries and their Impact on MACT/NSR Determinations

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EI-6a
in the Session Listing](#)

41775

Secondary Aluminum Operating Improvements

Charles A. Licht

42946

**Influence of Emission Estimates on a BACT Determination for Iron Foundry
Core Making Operations**

Steven Klafka and Kurt Jacobsen

43340

Chromate Concentration Bias In Epoxy Primer Paint by Particle Size

Peter T. LaPuma and David B. Novy



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EP-1b
in the Session Listing](#)

42941

Using a Flexible Compliance Strategy to Issue a Title V Operation Permit
Steven Klafka and Kurt Jacobsen

45488

Authoring Your Own Draft Title V Permit
Heidi Rous, Anna Liza Marfori, and Anne Schaefer



[Return To EP-1e
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41579

Creative Ways to Generate and Certify Emission Reduction Credits
Tricia M. D'Agostino and Anne D. Power

41934

Structuring an Emissions Offset Solution for New Power Plants in the Los Angeles Basin in the Midst of California's Energy Crisis
Robert R Pease, Shams Hasan, and Henry H Pourzand

42312

NSR-Influenced Innovations, Permitting Strategies And Solutions
Jack C. Shih and Mark C. Bailey

42747

Retroactive Prevention Of Significant Deterioration Analysis: A Case Study
James Cesario

43031

LAER Success Story - Persistence pays off, client saves \$5 million
William E. Flederbach, Jr. and Stephen Comnesso



[Return To EP-1g
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 42670 | Survey of the Difficulty of Obtaining Environmental Permits for the Construction and Operation of New Power Generation Capacity in 28 States
<i>Howard Ellis and Bruce Lippincott</i> |
| 42677 | Managing Title V - Application to Issuance: One Company's Approach for Multiple Sites
<i>James W. Sumner, Barbara Barron, and Joel J. Watson</i> |
| 42752 | Comparison of the Most Recent BACT/LAER Determinations for Combustion Turbines by State Air Pollution Agencies
<i>Nishat Hydari, Adeel Yousuf, and Howard Ellis</i> |
| 42767 | Integration of the Texas Title V and New Source Review Programs, the Consequential Effect on Permittees, and Related Systemic Compliance Strategies
<i>Larry Glenn Darcey</i> |
| 42870 | Writing a Title V Permit - A Team Approach
<i>James Garrison, Maria Rodriguez, and Rick Bradburn</i> |
| 43132 | Title V Permitting Strategies for a Waste to Ethanol Production Facility
<i>Kit Liang, David Webster, and Ramon Li</i> |



[Return To EP-3a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42165

Great News for Indian Country: Recent Decisions by the U.S. Circuit Court of Appeals and the U.S. Supreme Court on Tribal Authority to Regulate the Environment

David Laroche

42684

The Federal and State Superfund Exemptions for the Sale of Recyclables: An Overview

Walter Wright

43058

USEPA's National Nitrate Compliance Agreement - Amnesty Shield Provides Opportunity for Facilities to Clean House

Robert M. Neimeier and William E. Flederbach, Jr.



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EP-3c
in the Session Listing](#)

41910

**Using Third Party Assumption of Environmental Liabilities to Manage
Financial Risk**

Michael O. Hill and Nathan Block

43126

**Managing Uncertainties Associated with Post-Acquisition Remediation
Agreements**

Michael Reese and Fred Boelter



[Return To EP-5a
in the Session Listing](#)

PAPER NUMBER	PAPER TITLE <i>AUTHOR(S)</i>
42149	Public Participation as an Integral Part of Environmental Decisionmaking <i>R. Reiley</i>
42339	Community Advisory Panel to Help Nearby Facilities Practice Air Pollution Prevention <i>Peter A. Bowman and Richard C. Allison</i>
42495	Environmental Mentoring: A Paradigm Shift in Regulatory Compliance For The Business Community <i>George Greenly and Richard Polito</i>
42604	Public Participation: From Solicitation Of Public Comment Toward Solicitation Of Public Involvement <i>John W. Ubinger, Jr.</i>
42729	Environmental Awareness Training (EAT) in Shell Petroleum Development Company of Nigeria: A Tool for Pollution Control and Environmental Sustainability in the Niger Delta <i>John Jia</i>
43335	What's the Public Got to Do With It? <i>Janice Larkin</i>



[Return To EP-5d
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42628

**Environmental Justice Analysis Performed for a Gas Fired Power Plant in the
Northeast**
Stephen Slocomb

42940

**Challenging a Title V Operation Permit with the Part 70(8) Petition Process:
An Aluminum Foundry Case Study**
Steven J. Klafka.

42985

**Analysis of Environmental Justice Implications for Air Quality Under a
Regional Transportation Plan**
Nancy Pfeffer



[Return To EP-6a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 42561 | Effectiveness of Internet Resources for EH&S Information, Technology, and Exchange
<i>June Bolstridge</i> |
| 43112 | Environmental Knowledge Management (EKM): A System Architect View
<i>Nathan Crawford</i> |
| 43168 | Managing Environmental Information In The 21st Century: New Technologies, New Tools
<i>Glenna Ford</i> |
| 43204 | The Maintenance of EHS Management Systems
<i>Verne Shortell, Vicki Land, and Marc Brynczka</i> |
| 43688 | Using Information Technology to Achieve Stability
<i>Wesley Box</i> |
| 45486 | Empowering Site Management Teams Through an Integrated, Collaborative
<i>Susan Perrell</i> |



**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To EP-6b
in the Session Listing](#)

42524	IBM's ECOL - Environmental Management System <i>Bruce Tripp and John Takacs</i>
42571	Implementing Standards In An Enterprise Environmental Management Information System <i>David Bradley</i>
42659	Trigen's Web-Based Environmental and Safety Information: A Case Study <i>Peter Belmonte, Jim Qin, and Steve Lomax</i>
42756	Real-Time Compliance Determinations and Environmental Compliance Forecasting using Existing Data Historians <i>Paul Reinermann and Dennis YIEH</i>
43000	Pfizer's Air Quality Management System <i>David Y Ono, Bruce G Brown, John F Takacs, Karen C Takacs, and Paula J Olsson</i>
43154	The Formalization And ISO 14001/OHSAS 18000 Certification Of An Integrated Environmental, Health And Safety (EHS) Management System At A Semiconductor-Manufacturing Site <i>Russell J. Seguin and Miriam Vaughn</i>
43172	Benefits and Cost Savings of Implementing an Environmental Management Information System <i>Glenna Ford</i>



[Return To EP-6b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

43178

EHS Business Risk Management; A Technology Perspective

Glenn Magee, Gary Pilkington, and Rob Sands

43179

**Using New Information Technology to Benchmark and Integrate
Environmental and Financial Performance Information**

Glenna Ford

43198

**Making the cut: When to keep your EHS Systems and When to Implement
New Ones**

James C. Reaves, Di Barbaro, and Thomas J Morahan

43201

Using Technology to Deliver Corporate Audits

Robert Walters and Thomas J. Morahan

43205

**Successful Design and Deployment of a Comprehensive Web-enabled Audit
and Assessment System**

Thomas J Morahan and Chris Hugill



[Return To EP-7a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

43116

Electric Generator Technology and Economics under a Carbon Restriction
Donald Hanson, Prakash Thimmapuram, and John A. Laitner

43153

Director's Discretion as a Cost Effective Emission Reduction Strategy
Daniel Belik

43364

The Use of a Feebate System To Reduce Emissions from Power Plants
James Smith

45491

**Combined Cycle Conversion and Case Study for an Existing 1200 MW Utility
Plant**
David Grogan and Stephen Slocomb



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To EP-7b
in the Session Listing](#)

43366

Financing Environmental Investment: Show Me the Money
James Aldrich



[Return To EP-8b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42153	International Standards - ISO 19011 - Environmental/Quality Auditing <i>Jayne Pilot</i>
42595	EO 13148 - An Overview of the Requirements & How to Comply Using ISO 14001 <i>Art Gillen and David Amanullah</i>
42694	Training Auditors for Effective Auditing <i>Abha Dastane-Rao and Vijay V. Rao</i>
43129	The Shift to Environmental Knowledge Management: Simplifying Auditing & Verification <i>Nathan CRAWFORD</i>
43173	Benefits of Integrated Management System and Environmental Audits <i>Glenna Ford</i>
43177	Using Software Tools to conduct Integrated Environmental and Quality Management System Audits <i>Glenna Ford</i>
45822	Common Audit Findings during Multimedia Compliance Audits <i>Nik Mukhopadhyay, Alastair J.H. McGregor, and Robert G. Adams</i>



[Return To ES-1a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41784 **Department of Defense Integrates P2 into Wapons Systems Development:
Toward a Green Life Cycle**
John H. Stallings and Joel O. Almosara

42919 **Reducing Remelting in Manufacturing Extruded Aluminum Products**
Harry Edwards and David Paulus

43042 **Hazardous Materials Management Programs for Weapon System Acquisition**
Gregory Berry

43087 **Pollution Prevention: Lesson's Learned**
Deborah CURTIN, Peter Andersen, and Adam Alexander

43184 **DIRT, The Ultimate Catalyst**
Jim Berry

43433 **Pollution Prevention in Weapon System Test and Evaluation**
John Vidic, Mary Spencer, William J. Manker, and Richard B. Fowler



[Return To ES-1b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42229 | Advanced Green Technologies Improve Readiness, Durability, and Affordability of Military Jet Engines
<i>Charles H Alford and Robert E Bondaruk</i> |
| 42261 | The ETV P2 Innovative Coatings and Coating Equipment Program - An Update
<i>Julie Napotnik and Mike Kosusko</i> |
| 42838 | Pollution Prevention Tools for Small and Medium Sized Industries
<i>Ashok Kumar, Sandys Thomas, and Sunil Ojha</i> |
| 42966 | Hexavalent Chrome Extraction from Wastewater
<i>H. Nick Conkle, J. Kevin Rose, Bruce Monzyk, Satya P. Chauhan, and Larry Cook</i> |
| 43160 | Hydraulic Fluid Purification: USAF-AFMC/CEVQ Pollution Prevention Project, USAF-Wide Incorporation of Hydraulic Fluid On-Site Purification, Depot and MAJCOM Operating Locations (Demonstration for USAF-wide program)
<i>Donald E. Streeter</i> |
| 43556 | The U.S. EPA's Environmental Technology Verification (ETV) Program
<i>Abby Hill and Teresa Harten</i> |
| 45479 | Elimination of Chromates in Paint Preparation
<i>Richard Buchi</i> |



**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)[Return To ES-1c
in the Session Listing](#)

- | | |
|-------|--|
| 42070 | Pulsed Corona Discharge Process for Simultaneous Removal of SO₂/NO_x from a Sintering Plant of Steel Works
<i>Chang Mo Nam and Kong Tae Kim</i> |
| 42454 | Integrating Pollution Prevention, Inherent Process Safety and Green Chemistry Concepts in Process Design
<i>Kenneth Mulholland</i> |
| 42560 | 'Green' Film Processing
<i>Alan Rudnai and Elena Rivera</i> |
| 42593 | Design for Environment and the ISO Standards
<i>Jim Heeren and Michael Van Brunt</i> |
| 42609 | Environmental Performance Measurement Framework for Petroleum Refineries
<i>Ujwal Ritwik and Fadhel Al-Koot</i> |
| 43144 | Integrating Safety and Health in Pollution Prevention
<i>Becky McCoy, David Bury, Charlotte Trahan, and Steven W Coyle</i> |
| 45400 | Management System Design using "Three Step Process - Identify, Insure, Improve
<i>Jayne Pilot</i> |



[Return To ES-2d
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41749	Tools and Approaches to Organizational Pollution Prevention <i>Emma Lou George</i>
42308	ISO14001- Identifying Aspects and Impacts <i>Shahana Akmal Banoo</i>
42554	The Shoemaker's Children have No Shoes! <i>James Bridges</i>
42714	An EMS Framework for Implementing Sustainability Tools <i>Cam Metcalf and Tim Piero</i>
42822	The Use of TRACI for Pollution Prevention and Sustainable Development <i>Jane Bare and Gregory A Norris</i>
42934	Utilizing Materials Flow Analysis to Prioritize Pollution Prevention Resources <i>Kenneth Stone and Barry Leopold</i>
43051	LCAccess: Promoting the Use of Life Cycle Assessment <i>Mary Ann Curran and Timothy Skone</i>



[Return To ES-4c
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 41814 | <p>Reduction of Global Warming Gas Emissions through Chemical Substitution and Alternative Chemistries in the Semiconductor Industry
<i>Jeffrey Williams</i></p> |
| 42232 | <p>Exporting Green Development Technologies to China
<i>Kenneth LANGER</i></p> |
| 42589 | <p>The Business Case for Greenhouse Gas Management
<i>James Wintergreen, B. Tod Delaney, and Lisa Jacobson</i></p> |
| 42590 | <p>Establishing Greenhouse Gas Baselines in Developing Countries: A case study of Mexico
<i>Michael Richardson, Lisa Jacobson, and B. Tod Delaney</i></p> |



[Return To ES-4f
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41867

Negotiating Environmental Sustainability: Environmental Discourse in the United States and the Influence on Consumers and the Production of Space
Nicholas Zingale

42591

An Introduction to The SIGMA Project: Sustainability in Practice
B. Tod Delaney, Nao Ikemoto, and Mark Barthel

43278

Comparison and Characterization of the Atmospheric Emissions Produced by Combustion of Petrodiesel, Methyl Ester of Soybean Oil and Methyl Ester of Used Oil
Jeronimo Martinez-Martinez and Geronimo Coronado-Escalante



[Return To ES-4h
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***42867****Sustainable Manufacturing System For Printing Processes***Antonio Casimiro Caputo, Pacifico Marcello Pelagagge,
and Federica Scacchia***43050****www.LCAccess - Global Directory of LCI Resources***Timothy J. Skone and Mary Ann Curran***45397****International Standards for Quality Management - ISO 9001:2000***Jayne Pilot***56666****Monte Carlo Analysis of Uncertainty in Greenhouse Gas Emissions in the
United States***Souad Benromdhane*

[Return To ET-1a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|---|
| 42299 | Road Construction Emissions Model
<i>Edward RIMPO and Kevin Lee</i> |
| 42520 | Development of Remote Sensing Instrumentation for NOx and PM Emissions from Heavy Duty Trucks
<i>Katey Lenox, Al Akerman, Curt Ayers, Thang Dam, Ralph McGill, John Storey, Mengdawn Cheng, Tye E Barber, Walt G. Fisher, and Eric A. Wachter</i> |
| 42700 | An Estimate of the Emissions of Toxic Air Contaminants for Medium-Duty Diesel-Powered Vehicles
<i>Xiaona Zhu, Thomas D. Durbin, Kathalena Cocker, and Joseph M. Norbeck</i> |
| 42735 | Air Quality Around Our Nation's Airports During the Aftermath of the September 11, 2001 Attack on America
<i>Michael A. Kenney, Deborah Dutcher Wilson, and Wayne Arner</i> |
| 42797 | The FHWA Particulate Matter Research Program
<i>Kevin Black and Frank Divita</i> |
| 42825 | Application of a Microscale Emission Factor Model for Particulate Matter (MicroFacPM) to Calculate Vehicle Generated Contribution of PM2.5 Emissions
<i>Rakesh B Singh, Alan H Huber, and James N Braddock</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To ET-1a
in the Session Listing](#)

42967

**Application of a Multi-lag Regression Approach to Determine On-Road PM10
and PM2.5 Emission Rates**

*Mahmoud Abu-Allaban, John Gillies, Alan Gertler, Russ Clayton,
and David Profitt*



[Return To ET-1b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

41812

Using Mobile 6 to get Emission Factors for a Microscale CO Analysis*C. David Cooper and Debra K. Keely*

42740

Pre-Commercialization of 'E diesel' Fuels In Off-Road Applications*John Evanoff and Norman J. Marek*

43189

**Evaluation of the Air Quality Impacts of Zero Emission Vehicles (ZEVs) and
other Advanced Vehicle Technologies (ATV) in the South Coast Air
Basin of California***Ralph Morris, Gary Wilson, Greg Yarwood, Tom Darlington, Jeremy Heiken,
Jon Heuss, George Wolff, Alan Dunker, Satoshi Yamazaki,
and Satoru Chatani*

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To ET-1d
in the Session Listing](#)

42536

**Implementation Of Retrofit/Clean Fuel Program For Diesel Equipment During
The Construction Phase Of Two Large Transportation Projects**
Guido Schattanek, Alex Kasprak, Coralie Cooper, and Donna Weaver

42954

**Implementing Strategies to Reduce Emissions of Air Pollutants from On-
road Diesel Engines**
Joel Berman, Daniel Brown II, and William M. Auberle



[Return To ET-1f
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

42220

The Real Air Quality Benefits of Gaseous-Fueled Vehicles
Chris Saricks

42613

Heavy-Duty Vehicle Characteristics in Tennessee - For Use in MOBILE6
*Terry Miller, Wayne T. Davis, Gregory D Reed, Joshua S. Fu,
Prakash Doraiswamy, and Anna Tang*

42651

**VIN Decoder Software Limitations for Fleet Characterization in Emissions
Modeling**
Jessica L. Granell, Randall L. Guensler, and Kexiang Xiang

45410

Estimation of Mobile Emission Change for Traffic Management
Luke Chen



[Return To ET-2a
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
*AUTHOR(S)***41929****A Subnational Assessment of Sprawl Characteristics and Ozone Control Effectiveness***Gerald Andrews Emison***42612****The Effect of Personal Income on Vehicle Age and Vehicle Emissions***Terry Miller, Wayne T Davis, Gregory D Reed, Joshua Fu,
Prakash Doraiswamy, and Anna Tang***43095****Trading Of Locomotive Nox Emissions: A Potential Success Story***Linda Gaines, Larry Biess, and Guy Diedrich*

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To WM-1f
in the Session Listing](#)

42406

Recycling Of Scrap Integrated Circuits

*Ching-Hwa Lee, Li-Wen Tang, Shang-Lin Tsai, Ming-Jay Chen,
and Chong-Ching Hong*

42512

**Recycling Retired Ships, Website and Decision Logic Flow Charts as Tools
to Aid U.S. Domestic Recycling Industry**

*David Anthony Whaley, Michael Klishis, John Boettner, Danielle Blair,
and Michelle Martin*

42555

**Solid Waste Management Practices in Under-developed Countries: A Case of
Nepal**

Maheswar Rupakheti and Dinesh Raj Manandhar

43473

Solid Waste Management in the Philippines: A Peace Corps Experience

Alan Mair and Glenn Gaac



[Return To WM-1g
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 43002 | Use of Precipitation Data to Develop and Modify the Leachate Model from Landfill of MSW Combined with Incineration Ashes
<i>Jing-Dong Chow, Wan-Lan Chai, and Sue-Huai Gau</i> |
| 43008 | Influence of Pollutants from Landfill of Incineration Residuals by Acid Precipitation
<i>Jing-Dong Chow and Wan-Lan Chai</i> |
| 43314 | Using Forced Air Systems to Control Moisture and Odors
<i>Jan W. Allen and Renee Groskreutz</i> |
| 45361 | Healthcare Waste Management: The New Focus
<i>Gary Urbanowicz</i> |
| 45362 | Introduction to Waste Prevention and Recycling
<i>Marjorie Clarke</i> |
| 45363 | Introduction to Municipal Solid Waste Incineration
<i>Marjorie Clarke</i> |
| 45473 | Basics of Solid Waste Composting
<i>Uta Krogmann</i> |



[Return To WM-3a
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41770

Glycolysis of Waste Flexible Polyurethane Foam
Chao-Hsiung Wu

42545

The Evaluation of Color Changes in Sludge Brick By Using Image Analysis Method
Deng-Fong Lin, Huan-Lin Luo, Ming-Jui Hung, and H. Y. Wang

42706

The Application of Dehumidification Process in Sludge Drying
Churng-Kwang LAI, Jia-Hung Huang, Jia-Ming Huang, Chi-Ming Tsai, and Che-Cheng Chen

42863

Removal of CO2 form flue gas of municipal solid waste incinerators
Kuo-Jen Liao, Whei-May Grace Lee, Shin-Hao Yang, and Ching-Nan Chen

42866

Carbon Distribution of Waste Incinerated in Municipal Solid Waste Incinerator
Shin-Hao Yang, Whei-May Grace Lee, Kuo-Jen Liao, and Ching-Nan Chen

43035

Thermal Performance of Lightweight Concrete Made of Sewage Sludge Ash
Kuen-Sheng Wang, Ing-Jia Chiou, Davin Wang, and Chin-Jen Cheng

43563

What is BACT for Nitrogen Oxides on Municipal Waste Combustors?
Scott Heath, Michael J Hober, Donald F. ELIAS, and Melinda M. Marks



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To WR-1a
in the Session Listing](#)

42574

**Integrating Global Positioning Systems, Geographic Information Systems,
and Data Management into Environmental Site Investigation
Strategies**

Gregg Micalizio, Christopher Venezia, and Jack Murosko

42760

Redeveloping Baltimore's Historic Breweries

Paul H Hayden

43139

**The Business Environmental Site Assessment: Reducing Financial
Uncertainties Associated with Urban Redevelopment**

Michael Reese and Daniel Podraza



[Return To WR-1b
in the Session Listing](#)**PAPER
NUMBER****PAPER TITLE**
AUTHOR(S)

41938

**Landfills Are Forever: Landfill Gas Remediation at a Commercially
Developed Former Waste Disposal Site***Thomas Kusterer and Sohrab Kourosh*

42976

Tank-Based Bioremediation Of RCRA Hazardous Wastes*Frank Castaldi*

43542

**Application of Geostatistical Analysis and GIS Tools for Characterizing
Contamination at the USDOE Savannah River Site***Vikram M Vyas, William Strawderman, David S Kosson,
and Panos G Georgopoulos*

59999

**Stabilization And Thermal Treatment For Remediation Of Mgp (Manufactured
Gas Plant) Sites***Thomas F. McGowan and Mark A. Fleri*

[Return To WR-2b
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

41646

Remediation of Environmental Hexavalent Chromium Contamination Using Chromate Reducing Bacterial Consortia

William A. Apel, James N. Petersen, William A. Smith, and Brent M. Peyton

42166

Solidification/Stabilization of Hg(II)-containing Solid Wastes by Cement after Stabilization by Sulfurized Reactivated Carbon

Jian Zhang and Paul L Bishop

42527

Stabilization and Leachability Studies of Mercury-Containing Wastes

Haishan PIAO and Paul L. Bishop



[Return To WR-3e
in the Session Listing](#)

**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

- | | |
|-------|--|
| 42652 | Benefits to a Federal Facility: The US Environmental Protection Agency
National Environmental Performance Track Program
<i>Bob Cannon</i> |
| 42653 | Field Assessment of Safe to Move Suspect RCRA Unexploded Ordnance to
Assess Whether High Explosives Are Present in the Filler
<i>William Myer and Nick Iaiennaro</i> |
| 42996 | Fuel Spill-12: A Case Study in Remediation
<i>Rose Forbes</i> |
| 43082 | Environmental Impacts of Explosives at the Massachusetts Military
Reservation
<i>Benjamin P. Gregson</i> |
| 43090 | Successful Federal Facility and Community Partnering: Household
Hazardous Products Collection
<i>Bob Cannon and Janice Larkin</i> |
| 43097 | Groundwater Treatment System Impacts on Freshwater Ecosystems: A
Massachusetts Military Reservation Case Study
<i>Michael W. Morris, Euan D. Reavie, and David B. Ward</i> |



**PAPER
NUMBER**

PAPER TITLE
AUTHOR(S)

[Return To WR-3e
in the Session Listing](#)

43119

Optimization of Monitoring Well Networks Using Spatial Winnowing and Temporal Thinning Applied to a Contaminant Plume at the Massachusetts Military Reservation

David B. Ward, Paul Clement, Euan D. Reavie, and Michael W. Morris

43194

Lessons Learned at the Massachusetts Military Reservation

Janice Larkin

