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1. I am a Records Request Processor at the Internet Archive. I make this declaration of my own personal knowledge.

2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.

3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to browse more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a display of available dates. The visitor may select one of those dates, and begin browsing an archived version of the Web. Links on archived files in the Wayback Machine point to other archived files (whether HTML pages or other file types), if any are found for the URL indicated by a given link. For instance, the Wayback Machine is designed such that when a visitor clicks on a hyperlink on an archived page that points to another URL, the visitor will be served the archived file found for the hyperlink's URL with the closest available date to the initial file containing the hyperlink.

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6. Attached hereto as Exhibit A are true and accurate copies of browser screenshots of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each screenshot.

7. I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

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Tanya Zeif

Please see attached All Purpose Jurat form for additional Notary Events

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A&WMA; 2002 Annual Conference Proceedings CD-ROM

Author(s): Various

This comprehensive compact disc features the latest in environmental research from every peer-reviewed paper presented at the June 2002 A&WMA; annual conference and exhibition in Baltimore, Maryland, including the complete 2002 Critical Review, "Visibility: Science and Regulation," by Dr. John Watson. Using the highly flexible Adobe Acrobat portable document format, the CD is easy to navigate and fully searchable by title, author, subject, and keyword text strings. It is also accessible to PC, Mac, and Unix users.

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The complete collection of publications offered for sale through the association can be ordered at this website. Orders may also be placed by calling 1-800-275-5851 (outside U.S. or Canada, ++1-412-741-1288). A pdf order form is available for mailing or faxing. Click here for more info on offline ordering.

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Download a copy of the 2002 Publications Catalog here.

LATEST ADDITIONS

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Integrating Quality, Environmental, Health and Safety Systems

by Mary F. McDonald, Terry Mors, Ann Phillips, and John Phillips

Environmental Sciences and Environmental Computing, Volume I

This CD-ROM is the first of a series of electronic books focusing on environmental sciences and the use of computers to understand, simulate and predict environmental phenomena. The book is fully hypertexted and contains eight technical chapters and other information. Text, equations, and graphics are presented in Adobe Acrobat format. The Adobe Acrobat Reader software (version 3.01) for a wide variety of systems is included in the CD-ROM.

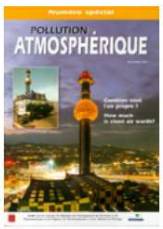
Urban Air Pollution: Athens 2004 Air Quality

This CD-ROM is an electronic book on urban air pollution dealing with the case study of Athens, Greece. Because of its potential adverse effects on a large number of people, urban air pollution today is perhaps the most important environmental challenge. The Athens smog, in particular, has been studied for decades by a team of outstanding Greek and international scientists. The book is fully hypertexted and contains 18 technical chapters and other information. Text, equations, and graphics are presented in Adobe Acrobat format. The Adobe Acrobat Reader software (version 3.01) for a wide variety of systems is included in the CD-ROM.

RECENT ADDITIONS

The following publications were also recently added to the bookstore.

How Much Is Clean Air Worth? - Special Issue of *Pollution Atmosphérique*



This 186-page special edition of *Pollution Atmosphérique* takes a comprehensive look at the issues and concerns related to damage costs deriving from air pollution, external costs, costs and benefits of actions to reduce air pollution, and the ExternE project of the European Commission. Innovative concepts and research work carried out by experts from Europe and North America on these important topics are presented in English and French. To see the table of contents, click here: page 1, page 2.

Click here to see the other recent additions.

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2002
2001
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Air Pollution Engineering Manual, second edition

Completely revised and updated to reflect the latest on emission factors and control measures for reducing air pollutants. The first revision of this seminal 1992 volume features new chapters and sections on such topics as fugitive dust emissions, semiconductor manufacturing, and accidental and catastrophic releases.

The complete collection of publications offered for sale through the association can be ordered at this website. Orders may also be placed by calling 1-800-275-5851 (outside U.S. or Canada, ++1-412-741-1288). A pdf order form is available for mailing or faxing. Click here for more info on offline ordering.

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AIR & WASTE MANAGEMENT ASSOCIATION

A&WMA Overview

The Air & Waste Management Association (A&WMA) is a nonprofit, nonpartisan professional organization that provides training, information, and networking opportunities to 9,000 environmental professionals in 65 countries. The Association's goals are to strengthen the environmental profession, expand scientific and technological responses to environmental concerns, and assist professionals in critical environmental decision making to benefit society.

Founded in 1907 by Canadian and American smoke inspectors, A&WMA's members include scientists, engineers, policymakers, attorneys, and consultants who work for governments, corporations, universities, consulting organizations, and law firms. A&WMA is divided into 33 regional sections, 67 local chapters, and 40 student chapters worldwide. Maintaining a neutral forum is vital to the Association, whose bylaws mandate balance by employment sector for membership on the board of directors.

Publications

One of the primary ways the Association helps members meet their professional goals is by providing environmental knowledge through its two monthly publications.

- The Journal of the Air & Waste Management Association, A&WMA's flagship publication, is the oldest continuously published, peer reviewed, technical environmental journal in the world. In print since 1951, the Journal features the latest in cutting-edge research and technology.
- EM, the magazine for environmental managers, covers the environmental industry from a management, policy, and regulatory perspective, providing in-depth analysis of the issues affecting today's environmental professionals.

Professional Development

The Association, with its international headquarters in Pittsburgh, Pennsylvania, offers a series of conferences, workshops, and courses to help keep members up to date on new developments in the profession. The Annual Conference and Exhibition is the Association's largest yearly gathering and attracts more than 7,000 environmental professionals from around the world. Attendees gather to hear more than 800 technical papers on cutting-edge topics and view an exhibit in which more than 450 environmental businesses participate.

The Association also sponsors 12-15 specialty conferences annually on topics such as global climate change, emission inventories and measurements of toxic and related air pollutants; a dozen workshops on issues such as new source reviews, compliance assurance monitoring, and accident prevention and risk management; and more than 40 continuing education courses, including the Environmental Practices Review course which serves as a preparatory course for the QEP certification exam.

Other career advancement opportunities provided to A&WMA members include a job bank, an extensive Web site, and hundreds of publications on key air and waste issues.

International Scope

Although most Association members reside in North America, A&WMA has spearheaded an effort to build an international network of environmental professionals by establishing sections and chapters worldwide.

A&WMA has two sections in Mexico, as well as sections in Brazil, Europe, Hong Kong, the Phillipines, Taiwan and Saudi Arabia, Thailand, and Singapore are chapters of the West Coast Section.

Public Education

A&WMA has launched an active public education effort that revolves around its award-winning Teacher-Training Program. Through this program, A&WMA volunteers train teachers to instruct students on the environment. The teachers use the Association's Environmental Resource Guides, which provide educators with explanations of environmental problems and classroom exercises designed to illustrate environmental issues to students.

The Teacher-Training Program has been honored with awards from Renew America, the National Environmental Development Association, American Society of Association Executives, and Keep America Beautiful.

90+ Years

In 2002, A&WMA celebrates its 95th year of providing service to environmental professionals. The Association looks forward to continuing to provide environmental professionals with up-to-date technical, managerial, and regulatory information on air and waste issues. A&WMA is working to become the premier international environmental organization by promoting global environmental responsibility and enhancing the environmental knowledge and quality of information on which environmental decisions are based.

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Cooperation for a Better Environment

95th Annual Conference and Exhibition | June 23-27, 2002

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95th Annual Conference and Exhibition

June 23-27, 2002
Baltimore Maryland, USA

A Special Welcome from the Conference Chairs

Dear Colleague:
Let us take this opportunity to invite you to Baltimore for the Air & Waste Management Association's 95th Annual Conference and Exhibition (June 23 – June 27, 2002). We are putting together a terrific event in a terrific location. Rallying around the theme of "Cooperation for a Better Environment," we're working hard to increase this year's attendance–especially from industry and the federal government offices in Washington. This year, we are trying several new things! Find out more.

In short, we're delighted to be hosting A&WMA's 95th Annual Conference & Exhibition in Baltimore. This is a great city–with lots for the family to do and see (e.g., Inner Harbor, Fort McHenry, Port Discovery, and unbelievable restaurants!). With its centralized location, Baltimore is also a great jumping off point for a weekend in Washington, DC, Philadelphia, the Amish country, or the Shenandoah Valley. Come to A&WMA 2002 to meet with your colleagues, learn about the latest technical advances, see some informative exhibits, and have a good time!

Best regards,

Julian A Levy, jr.	Susan S.G. Wierman
General Conference Chair	General Conference Vice Chair
Vice President	Executive Director
Zephyr Environmental Corporation	Mid-Atlantic Regional Air Management Assn

Here are just a few examples of some new and exciting things planned for Baltimore!

TECHNICAL. We are putting together special plenary sessions on Environmental & Health Impacts of Emergencies and Energy & the Environment. This year's Critical Review topic is Visibility: Science and Regulation. Also, to ensure that we have access to the latest news and developments, we're holding space for an as-yet-to-be-defined Hot Issues Plenary Session. The topics of this session will be defined and speakers for this session will be invited only as the conference approaches.

EXHIBITS. We are planning some new additions to the exhibit area. We'll be having a Government Pavilion that will include not only EPA exhibits, but other government agency (e.g., National Park Service and Department of Energy) exhibits. We are inviting some of the trade associations from Washington, DC to promote their industries' respective roles in protecting the environment. And, we're hoping to have some unique events in the exhibition area.

FUN. Baltimore is a fun place and we'll be bringing some of that fun inside. The conference will open on Sunday night with our "Savor the Chesapeake" reception. On Wednesday, we're reinstating the Honors & Awards luncheon. We'll conclude the conference (from a social standpoint) with our lighthearted reception, "Taking the Field for the Environment," which will focus on some of Baltimore's sports traditions. In between, we have some exciting technical tours, a full guest program, and an innovative student program planned. Oh, and there's a ball game, which will be right across the street in beautiful Camden Yards, schedule permitting.

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The Air & Waste Management Association (A&WMA) is a nonprofit, nonpartisan professional organization that provides training, information, and networking opportunities to thousands of environmental professionals in 65 countries.

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- Conference
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Technical Program
Monday, June 24, 2002

AB-1b Paper
PM Chemical & Physical Characterization: Field Studies & Instrumentation
Sponsoring Committees: AB-1 EE-1
Chair: Michael B. Meyer, Rupprecht & Patashnick
Co-Chair: Kenneth P. Stubbs, Greater Vancouver Regional District

1:30 p.m. Paper #: 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
Authors:
Yingge QU, University of Connecticut Environmental Engineering Program, Civil & Environmental Engineering
Britt Holmen, University of Connecticut Environmental Engineering Program, Civil & Environmental Engineering

1:55 p.m. Paper #: 42675
Comparison Of Speciation Sampler And PC-Boss Results Obtained On The Wasatch Front During The Winter Of 2001-2002
Authors:
Cory B. Carter, Brigham Young University, Chemistry and Biochemistry
Russell W. Long, Brigham Young University, Chemistry and Biochemistry
Norman L. Eatough, Brigham Young University, Chemistry and Biochemistry
Delbert J. Eatough, Brigham Young University, Chemistry and Biochemistry
Neal Olson, Utah State Department Of Environmental Quality, Air Monitoring Division
William E. Wilson, US Environmental Protection Agency

2:20 p.m. Paper #: 42849
Ambient concentration of particulate Polycyclic Aromatic Hydrocarbons(PAHs) and their dry deposition in Korea
Authors:
Ji Yi Lee, Department of Environmental Science and Engineering Ewha Womans University
Yong Pyo Kim, Department of Environmental Science and Engineering Ewha Womans University
Seung Muk Yi, Department of Environmental Science and Engineering Ewha Womans University
Young Ji Han, Department of Environmental Science and Engineering Ewha Womans University

2:45 - 3:45 Break and Exhibition Viewing

3:45 p.m. Paper #: 42858
Charaterization of PM10 and PM2.5 Source Profiles for Soil and Paved Road Dust in Hong Kong
Authors:
Shun-cheng Lee, Hong Kong Polytechnic University
Kin-Fai Ho, Hong Kong Polytechnic University

4:10 p.m. Paper #: 42992
Characterization of Fine Particulate Matter at Schools in Ohio
Authors:
Amol R. Kulkarni, Texas A&M University- Kingsville, Environmental Engineering
Sunil Kumar, Texas A&M University- Kingsville, Environmental Engineering
Kuruvilla John, Texas A&M University- Kingsville, Environmental Engineering
Kevin Crist, Ohio University Health Sciences

4:35 p.m. Paper #: 43206
Charring Characteristics Of Atmospheric Organic Particulate Matter In Thermal Analysis
Authors:
Jianzhen Yu, Hong Kong University of Science & Technology
Jinhui Xu, Hong Kong University of Science & Technology
Hong Yang, Hong Kong University of Science & Technology

5:00 p.m. Paper #: 45411
Particulate Matter and Associated Polycyclic Aromatic Hydrocarbons in Bangkok
Authors:
Pajaree Thongsanit, Chulalongkorn University
Wanida Jinsart, Chulaongkorn University
Beverley Hooper, Monash University
Wongpun Limpaseni, Chulaongkorn University
Martin Hooper, Monash University

Session Adjourns

AB-2b Paper
Advances in Laboratory and Field Measurements
Sponsoring Committees: AB-2 AB-1 AM-3
Chair: Barbara Zielinska, Desert Research Institute
Co-Chair: Tom Dann, Environment Canada

1:30 p.m. Paper #: 41757
The Central California Ozone Study: Analysis of Actinic Flux Measurements
Authors:
William R Stockwell, Desert Research Instituite
Wendy S Goliff, Desert Research Instituite
Dongchul Kim, Desert Research Instituite

1:55 p.m. Paper #: 42098
Effects of Long-Term Storage on Samples Collected on Tenax-TA
Authors:

Document Id: E34D5E10-CFBA-11EF-8859-D777A06EC032
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Wendy Goliff, Desert Research Institute
Barbara Zielinska, Desert Research Institute

2:20 p.m. Paper #: 42196
Volatile Organic Compounds In Landfill Gas At The Colombian Biggest Municipal Waste Disposal Site
Authors:
Sandra Estévez, University of Los Andes, Engineering Civil & Environmental
Ingrid Hincapie, University of Los Andes, Engineering Civil & Environmental
Eugenio Giraldo, University of Los Andes, Engineering Civil & Environmental

2:45 - 3:45 Break and Exhibition Viewing

3:45 p.m. Paper #: 42265
Issues Related to Benzene in Eastern Montreal (Quebec) Canada
Authors:
Andre Germain, Environment Canada
Jacques Rousseau, Environment Canada
Tom Dann, Environment Canada

4:10 p.m. Paper #: 42317
Adsorption Of Aromatic Hydrocarbon Vapors At The Gas-Solid And Gas-Water Interface
Authors:
Suresh Raja, Louisiana State University, Chemical Engineering
Frank Yacone, Louisiana State University, Chemical Engineering
Raghunathan Ravikrishna, Lousiana State University, Chemical Engineering
Kalliat T. Valsaraj, Louisiana State University, Chemical Engineering

4:35 p.m. Paper #: 42565
Chemical Characterization of Exhaust Emissions from Heavy Duty Diesel Vehicles Using Low Sulfur Fuel and Equipped with Particle Filters
Authors:
Barbara Zielinska, Desert Research Instituite
John Sagebiel, Desert Research Institute
Miriam Lev-On, British Petroleum
Chuck LeTavec, British Petroleum
Gregory J. Thompson, West Virginia University
Teresa Alleman, National Renewable Energy Laboratory

5:00 p.m. Paper #: 42877
Monitoring of Toxic Substances in Ontario - Great Lakes Basin (1990 - 2001)
Authors:
Tom Dann, Environment Canada

5:25 p.m. Paper #: 43022
Collection And Analysis Of Airborne Carbonyls By On-Sorbent Derivatization and Thermal Desorption
Authors:
Steven S.H. Ho, Hong Kong University of Science & Technology
Jianzhen Yu, Hong Kong University of Science & Technology

Session Adjourns

AB-3c Paper
Applications of Short-Range Dispersion Models - Innovative Approaches and Lessons Learned
Sponsoring Committees: AB-3
Chair: Robert L. Miller, Oak Ridge Nat'l Lab
Co-Chair: Ron Peterson, Cermak Petersen Petersen Inc.

1:30 p.m. Paper #: 41844
A Screening Evaluation of Glutaraldehyde Deposition from Cooling Tower Drift
Authors:
David McCready, Dow Chemical Company
Donald Fontaine, Dow Chemical Company

1:55 p.m. Paper #: 42897
New Methods on Probabilistic Dispersion Modeling
Authors:
Anand Yegnan, University of Alabama Tuscaloos, Civil and Environmental Engineering
Derek Williamson, University of Alabama Tuscaloos, Civil and Environmental Engineering
Andrew Graettinger, University of Alabama Tuscaloos, Civil and Environmental Engineering

2:20 p.m. Ethics Moment
Model Developer Takes Shortcut

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 42916
Modification of a Mesoscale Atmospheric Model for Simulation of Airflow Around Buildings
Authors:
Ted Yamada, Yamada Science & Art Corporation

4:10 p.m. Paper #: 43115
Comparison of ISC-Prime and Wind Tunnel Results
Authors:
Sharon Schajnoha, RWDI
John Alberico, RWDI
Michael Ratcliff, RWDI
David S. Chadder, RWDI

Session Adjourns

AB-7b Panel
Indoor Air Quality Instrumentation and Monitoring Workshop
Sponsoring Committee: AB-7
Chair: Vicken Etyemezian, Desert Research Institute
Co-Chair: Melissa Cheszek, The Chelsea Group, Ltd.

Panel begins at 1:30 p.m.
Panelists:
Gregory M. Olson, Jr., TSI Incorporated
Melissa Cheszek, The Chelsea Group, Ltd.

AE-1c Panel
Results from Full-Scale Mercury Control Testing: Overview and Panel Discussion
Sponsoring Committee: AE-1
Chair: Sharon Sjostrom, Apogee
Co-Chair: C. Jean Bustard, ADA-ES

Panel will begin at 1:30 p.m.
1:30 p.m. Travis Starns, ADA-ES: Full Scale Tests of Mercury Control with Sorbent

Document Id: E34D5E10-CFBA-11EF-8859-D777A06EC032
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Injection and an ESP at Wisconsin Electric's Pleasant Prairie Power Plant
1:55 p.m. Kevin Reddinger, B&W: What Levels of Mercury Control Can Be Expected from Scrubbers in Different Configurations
2:20 p.m. Lynn Brickett, DOE NETL: The Impact of Mercury Control on Byproduct Reuse and Disposal

Panelists:
· Larry Monroe, Southern Company: Overview of MACT regulations and variations in Gaston long term Hg removal
· Terry Coughlin, Wisconsin Electric: Overview of plans for mercury control on existing and new plants
· Rob LaCount, PG&E National Energy Group: Overview of State regulations and PG&E efforts to meet these by 2006.
· Scott Renninger, NETL: NETL plans for continued evaluation of full-scale mercury removal.
· George Offen, EPRI: EPRI's perspective on areas that need additional testing and why.

AE-2cA Paper
Biological Techniques for APC
Sponsoring Committees: AE-2
Chair: Sergio Revah
Co-Chair: Todd Webster

1:30 p.m. Paper #: 43167
Kinetic Evaluation Of H2s And Ammonia Biofiltration For Air Emissions Control
Authors:
Kim Jones, Texas A&M University- Kingsville, Environmental Engineering
Alvaro Martinez, Texas A&M University- Kingsville, Environmental Engineering
Ketankumar Maroo, Texas A&M University- Kingsville, Environmental Engineering
Sonali Deshpande, Texas A&M University- Kingsville, Environmental Engineering
Jim Boswell, Bioreaction Industries LLC

1:55 p.m. Paper #: 42688
H2S Removal By Compost Biofiltration: Media Mixing Effects On Operational Factors
Authors:
Juan Manuel Morgan-Sagastume, Institute of Engineering, National University of Mexico, Environmental Bioprocesses
Sergio Revah, Department of Chemical Engineering, UAM-I
Adalberto Noyola, Institute of Engineering, National University from Mexico

2:20 p.m. Paper #: 43558
Biotrickling Filters for Odor Treatment at POTWs: Full-scale experience with Converted Scrubbers
Authors:
David Gabriel, Chemical and Environmental Engineering Department, University of California
Huub Cox, Chemical and Environmental Engineering Department, University of California
Jeffrey Brown, Orange County Sanitation District, Air Quality and Special Projects Division
Edward Torres, Orange County Sanitation District, Air Quality and Special Projects Division
Marc A. Deshusses, Chemical and Environmental Engineering Department, University of California

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 41881
Odor Control Efforts at a Soybean Processing Facility
Authors:
Matthew Traister, ENSR
Derek Henderson, ENSR

4:10 p.m. Paper #: 42950
High Concentration Btex Removal In Compost Biofilters
Authors:
Alvaro Martinez, Texas A&M University- Kingsville, Environmental Engineering
William Tamara, Instituto Colombiano Del Petroleo

4:25 p.m. Paper #: 43170
Investigation Of A Polyurethane Foam Biofilter:Effect Of Operating Mode And Nutrient Supply
Authors:
Jungsu Park, University Of Texas At Austin
Kerry Kinney, University Of Texas At Austin College Of Engineering, Civil Engineering
William Moe, Louisiana State University, Department Of Civil & Environmental Engineering

Session Adjourns

AE-2e Paper
Case History Review of RTO Retrofits to Optimize Unit Operations
Sponsoring Committees: AE-2
Chair: Howard Hohl, Eisenmann Corp.

1:30 p.m. Paper #: 42959
CASE HISTORY: RTO Thermal Efficiency, What Does The Phrase Really Mean?
Authors:
Howard Hohl, Eisenmann Corporation

1:55 p.m. Paper #: 43176
Improving The Performance Of A Rotary Concentrator Thermal Oxidizer VOC Abatement System For Removal Of Solvent Vapors From Semiconductor Manufacturing Exhaust
Authors:
Russell J. Seguin, Advanced Micro Devices, EHS

2:20 p.m. Paper #: 43533
Development of Improved Ceramic Heat Transfer Media For RTO's
Authors:
John Reid, Saint-Gobain NorPro

Session Adjourns

AM-5a Paper
Data Analysis and Pollution Trends
Sponsoring Committees: AM-5
Chair: Lara A. Autry, U.S. EPA
Co-Chair: Christopher Rogers, Harding ESE

3:45 p.m. Paper #: 54943
National Urban Air Toxics Monitoring Program 1987 through 2001
Authors:
Julie L. Swift, Eastern Research Group

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Julie L. Swift, Eastern Research Group
Dave-Paul Dayton, Eastern Research Group
Jason M. Huckaby, Eastern Research Group
Joan T. Bursey, Eastern Research Group

4:10 p.m. Paper #: 45357
Emission Trends of VOC and NOx in Delaware Rate-of-Progress Planning and Periodic Emission Inventories
Authors:
Frank F. Gao, Air Quality Section, DAWM-DNREC
John L. Otten, Air Quality Section, DAWM-DNREC
David F. Fees, Air Quality Section, DAWM-DNREC

4:35 p.m. Paper #: 45499
Evaluation of the Long-Term Air Quality Trends in Ohio
Authors:
Myoungwoo Kim, Texas A&M University- Kingsville, Environmental Engineering
Sunil Kumar, Texas A&M University- Kingsville, Environmental Engineering
Kuruvilla John, Texas A&M University- Kingsville, Environmental Engineering
Kevin Crist, Ohio UniversityOhio University, School of Health Sciences

5:00 p.m. Paper #: 45498
Meteorological Influences on the Fine Particulate Matter Distribution in Central Ohio
Authors:
Ieesuck Jung, Texas A&M University- Kingsville, Environmental Engineering
Sunil Kumar, Texas A&M University- Kingsville, Environmental Engineering
Kuruvilla John, Texas A&M University- Kingsville, Environmental Engineering
Kevin Crist, Ohio University, School of Health Sciences

Session will continue on Tuesday

AM-6b Paper
Emissions & Control From Agricultural Sources
Sponsoring Committees: AM-6 AM-1
Chair: Terry Black, Pennsylvania DEP
Co-Chair: Ron Berglund, Terracon

1:30 p.m. Paper #: 43068
Validation Of A Coupled Mass Transfer With Chemical Reactions Model For Ammonia Flux Across A Gas-Liquid Interface
Authors:
Heather L. Arkinson, North Carolina State University, Department of Marine, Earth and Atmospheric Sciences
Viney P. Aneja, North Carolina State University, Department of Marine, Earth and Atmospheric Sciences

1:55 p.m. Paper #: 43080
Measurement and Modeling of Ammonnia Flux and Dry Deposition Velocity from Near-Surface Concentration Gradient Measurements over Natural Surfaces in North Carolina
Authors:
Sharon Baker Phillips, North Carolina State University North Carolina State University, Marine, Earth, and Atmospheric Sciences
S. Pal Arya, North Carolina State University North Carolina State University, Marine, Earth, and Atmospheric Sciences
Viney Pal Aneja, North Carolina State University North Carolina State University, Marine, Earth, and Atmospheric Sciences
Bok-Haeng Baek, NCSU North Carolina State University, MEAS

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper # 55555
Dust Emission Measurements of Barge/Vessel Grain Handling Operations (An EPA/Industry Cooperative Effort)
Authors:
Gregory E. Muleski , Midwest Research Institute
Chatten Cowherd, Jr. , Midwest Research Institute
Thomas O'Connor, National Grain and Feed Association

4:10 p.m. Paper #: 77777
Estimation of Equilibrium Time Constant for Gas-to-Particle Conversion Based on Observational Analysis
Authors:
Bok Haeng Baek, Department Of Marine, Earth, And Atmospheric Sciences, North Carolina State University
Viney P. Aneja, Department Of Marine, Earth, And Atmospheric Sciences, North Carolina State University

Session Adjourns

AT-3a Paper/Panel
Ambient Air Toxics - Are We at Risk?
Sponsoring Committees: AT-1, EE-1, EE-5
Chair: Pat Brush, Bechtel Corp.
Co-Chair: David Heinhold, ENSR

1:30 p.m. Paper #: 42880
The Denver Urban Air Toxics Assessment - Methodology, Results, and Risks
Authors:
Gregg Thomas, Denver Dept. of Public Health and Environment

1:55 p.m. Paper #: 41909
An Assessment of Air Toxic Concentrations and Associated Health Risks across New Jersey using NATA
Authors:
Peter Mayes, New Jersey Department of Environmental Protection, Bureau of Air Quality Evaulation
Joann Held, New Jersey Department of Environmental Protection, Bureau of Air Quality Evaulation

Session Adjourns

EI-1a Paper
Air Quality Management Strategies and Compliance Programs at Industrial and Federal Facilities
Sponsoring Committees: EI-1 AT-5 EP-1
Chair: Steve Rasmussen, Hill Air Force Base
Co-Chair: Mitch Lindsay, CH2M Hill

1:30 p.m. Paper #: 42466
Comparison of Aircraft and Other Mobile Source Engine Testing Procedures
Authors:
Everett L. Douglas, US Navy, Aircraft Environmental Support Office
Keith W. Skaggs, Anteon Corp.

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Keith W. Skaggs, Antech Corp.

1:55 p.m. Paper #: 42745
Air Program Management Systems
Authors:
Andee Felker, TRW
Michelle York, TRW
John Freitas, TRW

2:20 p.m. Paper #: 43584
Air Quality Compliance Strategies - Problems & Solutions
Authors:
Vijay Apte, URS

Session Adjourns

EI-2a Paper
Air Toxics and Power Plants - Regulations and Control
Sponsoring Committees: EI-2
Chair: Daniel Todd, Air Quality Services, LLC
Co-Chair: Bob Breeze, Austin Energy

1:30 p.m. Paper #: 42771
Mercury Inventory and Source Characterization: Emerging Data
Authors:
Leonard Levin, EPRI

1:55 p.m. Paper #: 43307
Synoptic Climatological Approach to Development of Warning Signals for SO2 Episodes at the Mae Moh Valley, Thailand
Authors:
Chutimon Piromyaporn, Asian Institute of Technology, Urban Environmental Engineering and Management
Nguyen Thi Kim Oanh, Asian Institute of Technology, Urban Environmental Engineering and Management

2:20 p.m. Ethics Moment
Regulator Selects Data to Support Theory for Design of Control Strategies

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 42787
Gas Turbines in Distributed Generation: Applications and Regulatory Issues
Authors:
Ralph Ordonez, Solar Turbines, Inc.
Leslie Witherspoon, Solar Turbines, Inc.

4:10 p.m. Paper #: 42920
Air Impacts of Distributed Generation Power Sources in Maryland
Authors:
Lisa Avendt, Environmental Resources Management, Inc.
Mark Garrison, ERM
Diane Brown, State of Maryland/Department of Natural Resources
Julie Ross, ERM

Session Adjourns

EI-2e Panel
Multi-Pollutant Legislation for the Power Sector
Sponsoring Committees: EI-2
Chair: C.V. Mathai, PNW/APS

Panel to begin at 1:30 p.m.
Panelists:
Elizabeth Stolpe, The White House Council on Environmental Quality
Tim Profeta, Counsel to Senator Joseph Lieberman
Joseph C. Stanko, Jr., Counsel to Committee on Energy & Commerce, The U.S. House of Representatives
E. Donald Elliott, Professor of Law, Yale Law School
Quinn Shea, Executive Director for Environmental Affairs, Edison Electric Institute
Tom Peterson, Director for Domestic Policy at the Center for Clean Air Policy

EI-4a Paper/Panel
Recent Regulatory Developments Affecting Chemical and Petroleum Industry Emission Sources
Sponsoring Committees: EI-4 EP-1
Chair: Richard D. Siegel, Foster Wheeler
Co-Chair: H. Chuck Cooper, Ashland Inc.

1:30 p.m. Paper #: 42050
EPA's Newest Set of Standards for the Refining Industry - The Consent Decree
Authors:
Jerry Hill, Bechtel Corporation

1:55 p.m. Paper #: 45480
What is Wrong with the NSPS for Petroleum Refinery FCCs and How to Fix It for Refinery MACT II?
Authors:
(Ganga) Prasad G. RAO, Energy, Environmental and Mineral Economist

2:20 p.m. Ethics Moment
Operations Manager Directs Environmental Manager to NOx Report Illegal Discharge

2:45 - 3:45 p.m. Break in Exhibition Viewing

3:45 p.m. Paper #: 45482
Risky Analysis Indeed! An Economist's Critique of Risk Analyses of Emissions from Petroleum Refinery FCCs
Authors:
(Ganga) Prasad G. RAO, Energy, Environmental and Mineral Economist

4:10 p.m. Paper #: 45817
EPA's Pursuit of New CEMS Ignores The Law & The Facts
Authors:
Frank Lobb, Clean Air Engineering

Session Adjourns

EI-6a Paper/Panel
Problems with Emission Estimates in the Metal Industries and their Impact on MACT/NSR Determinations
Sponsoring Committees: EI-6
Chair: Wayne H. Leipold, Phelps Dodge Miami, Inc.
Co-Chair: Stephen S. Felton, AK Steel

1:30 p.m. Paper #: 41775

1:30 p.m. Paper #: 41775
Secondary Aluminum Operating Improvements
Authors:
Charles A. Licht, Charles Licht Engineering Associates

1:55 p.m. Paper #: 42946
Influence of Emission Estimates on a BACT Determination for Iron Foundry Core Making Operations
Authors:
Steven Klafka, Wingra Engineering
Kurt Jacobsen, Wingra Engineering

2:20 p.m. Paper #: 43340
Chromate Concentration Bias In Epoxy Primer Paint by Particle Size
Authors:
Peter T. LaPuma, Air Force Institute of Technology
David B. Novy, Air Force Institute of Technology

2:45 - 3:45 p.m. Break and Exhibition Viewing

Panel will begin at 3:45 p.m.
Panelists:
Allen Dittenhoefer - Enviroplan, Inc.
Robert Geddis - AIRREGS, Inc.
Valerie Hudson - Gallatin Steel
Bill Kemner - Environmental Quality Management
James Little - US EPA Region IV
Carrie MacDougall - Clark County, Nevada Agency

EI-4b Paper
Source Control Strategies at Chemical and Petroleum Facilities
Sponsoring Committees: EI-4 AE-1 AT-1
Chair: Suresh Santanam, Stearns & Wheler LLC
Co-Chair: Henry Graham Jr., Louisiana Chemical Association

1:30 p.m. Paper #: 42621
Achieving Low Mercury Concentrations In Chlor-Alkali Wastewaters
Authors:
David R. Tonini, Earth Tech, Inc.
Debra A. Gauvin, Earth Tech, Inc.
Robert W. Soffel, Selective Adsorption Associates, Inc.
W. Peter Freeman, NUCON International, Inc.

1:55 p.m. Paper #: 42820
Petroleum Refinery Title V Compliance Assurance Program Implementation- Case Study
Author:
Gail Braden, REM, Dixon Environmental

2:20 p.m. Paper #: 42935
NOx Emissions Reduction Technologies in the Petrochemical and Refining Industries
Authors:
Charles E. Baukal, John Zink Co. LLC
Robert Hayes, John Zink Co. LLC
Mike Grant, John Zink Co. LLC
Prem Singh, John Zink Co. LLC
Darin Foote, John Zink Co. LLC

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 45487
Hydrogen Sulfide Study near Petroleum Asphalt Plants
Authors:
Steve Paul Schliesser, North Carolina DAQ, Toxics Protection Branch
Bryan D. Lange, NC DAQ, Toxics Protection Branch
James R. Bowyer, NC DAQ, Toxics Protection Branch
Jeffrey J. Hayward, NC DAQ, Toxics Protection Branch
J. Thomas Anderson, NC DAQ, Air Quality Analysis

4:10 p.m. Paper #: 42968
EPCRA's Impacts on the Chemical and Petroleum Industries
Authors:
June Bolstridge, GAIA Corporation

4:35 p.m. Paper #: 45407
Innovative PM10/TSP Monitoring Strategy In Development of Petroleum Coke Handling Permit
Authors:
Ravi Rangan, Delaware Department of Natural Resources and Environmental Control
Elizabeth A. Frey, Delaware Department of Natural Resources and Environmental Control
Joseph M. Martini, Delaware Department of Natural Resources and Environmental Control

Session Adjourns

EP-1g Paper/panel
NSR Development and Issues
Sponsoring Committees: EP-1 EP-3
Chair: Gary McCutchen, RTP Environmental
Co-Chair: Todd Lopez, ENSR

1:30 p.m. Paper #: 42670
Survey of the Difficulty of Obtaining Environmental Permits for the Construction and Operation of New Power Generation Capacity in 28 States
Authors:
Howard Ellis, Enviroplan Consulting
Bruce Lippincott, Lawler, Matusky and Skelly Engineers, LLP

1:55 p.m. Paper #: 42752
Comparison of the Most Recent BACT/LAER Determinations for Combustion Turbines by State Air Pollution Agencies
Authors:
Nishat Hydari, Enviroplan Consulting, Environmental Studies Division
Adeel Yousuf, Enviroplan Consulting, Environmental Studies Division
Howard Ellis, Enviroplan Consulting

2:20 p.m. Ethics Moment
Permitting Engineer Softens NSR Rules to Help Local Industries

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 42870
Writing a Title V Permit - A Team Approach
Authors:
James Garrison, Science Applications International Corporation,

Maria Rodriguez, Air Force Air Armament Center, Environmental Directorate (AAC/EM)
Rick Bradburn, Florida Department of Environmental Protection, Northwest District

4:10 p.m. Paper #: 43132
Title V Permitting Strategies for a Waste to Ethanol Production Facility
Authors:
Kit Liang, Malcolm Pirnie, Inc.,
David Webster, Masada OxyNol LLC,
Ramon Li, Malcolm Pirnie, Inc.

Session Adjourns

ES-1b Paper
Verification of Pollution Prevention Technologies for Environmental Compliance
Sponsoring Committees: ES-1 EI-1
Chair: Jim Bridges, Pacific Environmental Services Inc.
Co-Chair: Gary Gasperino, Engineering Services Center

1:30 p.m. Paper #: 42229
Advanced Green Technologies Improve Readiness, Durability, and Affordability of Military Jet Engines
Authors:
Charles H Alford, Anteon Corporation
Robert E Bondaruk, Anteon Corporation

1:55 p.m. Paper #: 42838
Pollution Prevention Tools for Small and Medium Sized Industries
Authors:
Ashok Kumar, University of Toledo, University of Toledo, Civil Engineering
Sandys Thomas, University of Toledo, University of Toledo, Civil Engineering
Sunil Ojha, University of Toledo, University of Toledo, Civil Engineering

2:20 p.m. Paper #: 42966
Hexavalent Chrome Extraction from Wastewater
Authors:
H. Nick Conkle, Battelle
J. Kevin Rose, Battelle
Bruce Monzyk, Battelle
Satya P. Chauhan, Battelle
Larry Cook, Air Force Research Laboratory

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 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)
Authors:
Donald E. Streeter, ASC/AAAV, Air Vehicle Team, Aging Aircraft Planning Division, Aeronautical Enterprise Program Office

4:10 p.m. Paper #: 45479
Elimination of Chromates in Paint Preparation
Authors:
Richard Buchi, TIELM

4:35 p.m. Paper #: 42261
The ETV P2 Innovative Coatings and Coating Equipment Program - An Update
Authors:
Julie Napotnik, Concurrent Technologies Corporation
Mike Kosusko, U.S. EPA

5:00 p.m. Paper #: 43556
The U.S. EPA's Environmental Technology Verification (ETV) Program
Authors:
Abby Hill, U.S. EPA
Teresa Harten, U.S. EPA

Session Adjourns

ES-4f Paper/panel
Sustainable Development: Indicators & Current topics
Sponsoring Committees: ES-4
Chair: John Sherwell, MD DNR
Co-Chair: Doug Muschett, PRO-NATURA USA

1:30 p.m. Paper #: 42591
An Introduction to The SIGMA Project: Sustainability in Practice
Authors:
B. Tod Delaney, First Environment, Inc.
Nao Ikemoto, First Environment, Inc.
Mark Barthel, British Standards Institution

1:55 p.m. Paper #: 43278
Comparison and Characterization of the Atmospheric Emissions Produced by Combustion of Petrodiesel, Methyl Ester of Soybean Oil and Methyl Ester of Used Oil
Authors:
Jeronimo Martinez-Martinez, Tecnologico de Monterrey
Geronimo Coronado-Escalante, Tecnologico de Monterrey

2:20 p.m. Paper #: 41867
Negotiating Environmental Sustainability: Environmental Discourse in the United States and the Influence on Consumers and the Production of Space
Author:
Nicholas Zingale, Affinity Consultants, Inc.

2:45 - 3:45 p.m. Break and Exhibition Viewing

Panel will begin at 3:45 p.m.
Panelists:
John Sherwell, MD DNR
William Painter, US EPA
David Blaha, ERM

Session Adjourns

ET-1a Paper
Diesel Propulsion Emissions
Sponsoring Committees: ET-1 AB-1 AM-1
Chair: Alan Gertler, Desert Research Institute
Co-Chair: Rich Baldauf, U.S. EPA - OTAQ

1:30 p.m. Paper #: 42825
Application of a Microscale Emission Factor Model for Particulate Matter

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Application of a Microscale Emission Factor Model for Particulate Matter (MicroFacPM) to Calculate Vehicle Generated Contribution of PM2.5 Emissions
Authors:
Rakesh B Singh, National Research Council Research Associate at the National Exposure Research Laboratory, United States Environmental Protection Agency
Alan H Huber, Atmospheric Sciences Modeling Division, Air Resources Laboratory, National Oceanic and Atmospheric Administration
James N Braddock, US EPA

1:55 p.m. Paper #: 42967
Application of a Multi-lag Regression Approach to Determine On-Road PM10 and PM2.5 Emission Rates
Authors:
Mahmoud Abu-Allaban, Desert Research Institute,
John Gillies, Desert Research Institute,
Alan Gertler, Desert Research Institute,
Russ Clayton, ARCADIS Geraghty & Miller,
David Profitt, ARCADIS Geraghty & Miller,

2:20 p.m. Paper #: 42520
Development of Remote Sensing Instrumentation for NOx and PM Emissions from Heavy Duty Trucks
Authors:
Katey Lenox, Oak Ridge National Laboratory
Al Akerman, Oak Ridge National Laboratory
Curt Ayers, Oak Ridge National Laboratory
Thang Dam, Oak Ridge National Laboratory
Ralph McGill, Oak Ridge National Laboratory
John Storey, Oak Ridge National Laboratory
Mengdawn Cheng, Oak Ridge National Laboratory
Tye E Barber, Tennessee Technological University Arts & Sciences
Walt G. Fisher, Galt Technologies, LLC
Eric A. Wachter, Galt Technologies, LLC

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 42299
Road Construction Emissions Model
Authors:
Edward RIMPO, Jones & Stokes
Kevin Lee, Jones & Stokes

4:10 p.m. Paper #: 42735
Air Quality Around Our Nation's Airports During the Aftermath of the September 11, 2001 Attack on America
Authors:
Michael A. Kenney, URS Corporation
Deborah Dutcher Wilson, URS Corporation
Wayne Arner, URS Corporation

4:35 p.m. Paper #: 42700
An Estimate of the Emissions of Toxic Air Contaminants for Medium-Duty Diesel-Powered Vehicles
Authors:
Xiaona Zhu, University of California, Riverside, Bourns College of Engineering, Center for Environmental Research & Technology
Thomas D. Durbin, CE-CERT University of California, Riverside, Chemical & Environmental Department
Kathalena Cocker, CE-CERT
Joseph M. Norbeck, CE-CERT

5:00 p.m. Paper #: 42797
The FHWA Particulate Matter Research Program
Authors:
Kevin Black, Federal Highway Administration
Frank Divita, E.H. Pechan and Associates

Session Adjourns

WM-1g Paper
Integrated to Waste Management 101: An Introduction
Sponsoring Committees: WM-1 WM-2 WM-3 Ed. C.
Chair: Marjorie J. Clarke, Lehman College
Co-Chair: Malama Chock, Univ of Michigan-OSEH

1:30 p.m. Paper #: 45363
Introduction to Municipal Solid Waste Incineration
Authors:
Marjorie Clarke, Lehman College

1:55 p.m. Paper #: 45362
Introduction to Waste Prevention and Recycling
Authors:
Marjorie Clarke, Lehman College

2:20 p.m. Paper #: 45361
Healthcare Waste Management: The New Focus
Authors:
Gary Urbanowicz, Doucet & Mainka, PC

2:45 - 3:45 p.m. Break and Exhibition Viewing

3:45 p.m. Paper #: 45473
Basics of Solid Waste Composting
Authors:
Uta Krogmann, Rutgers, The State University of New Jersey

4:10 p.m. Paper #: 43002
Use of Precipitation Data to Develop and Modify the Leachate Model from Landfill of MSW Combined with Incineration Ashes
Authors:
Jing-Dong Chow
Wan-Lan Chai
Sue-Huai Gau

4:35 p.m. Paper #: 43008
Influence of Pollutants from Landfill of Incineration Residuals by Acid Precipitation
Authors:
Jing-Dong Chow
Wan-Lan Chai

5:00 p.m. Paper #: 43314
Using Forced Air Systems to Control Moisture and Odors
Authors:
Jan W. Allen, CH2M Hill
Renee Groskreutz, CH2M Hill

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Renee Grosskreutz, CH2M Hill

Session Adjourns

WR-1a Paper
Redevelopment Approaches and Issues
Sponsoring Committees: WR-3 AT-5 EP-1
Chair: Dan Mueller, Whitehean and Mueller, Inc.
Co-Chair: Joel Wipf, CH2M HILL

1:30 p.m. Paper #: 42760
Redeveloping Baltimore's Historic Breweries
Authors:
Paul H Hayden, EA Engineering, Science, and Technology, Inc.

1:55 p.m. Paper #: 43139
The Business Environmental Site Assessment: Reducing Financial Uncertainties Associated with Urban Redevelopment
Authors:
Michael Reese, Boelter & Yates, Inc.
Daniel Podraza, Boelter & Yates, Inc.

2:20 p.m. Paper #: 42574
Integrating Global Positioning Systems, Geographic Information Systems, and Data Management into Environmental Site Investigation Strategies
Authors:
Gregg Micalizio, ENSR International
Christopher Venezia, ENSR International
Jack Murosko, ENSR International

Session Adjourns

WR-2b Paper
Innovative Treatment Techniques: Hard to Treat Contaminents
Sponsoring Committees: WR-2 WR-3
Chair: Paul Randall, USEPA
Co-Chair: William Troxler, Focus Environmental, Inc.

1:30 p.m. Paper #: 41646
Remediation of Environmental Hexavalent Chromium Contamination Using Chromate Reducing Bacterial Consortia
Authors:
William A. Apel, Biotechnology Department, Idaho National Engineering and Environmental Laboratory
James N. Petersen, Department of Chemical Engineering, WSU/NSF IGERT Center for Multiphase Environmental Research, Washington State University
William A. Smith, Biotechnology Department, Idaho National Engineering and Environmental Laboratory
Brent M. Peyton, Department of Chemical Engineering, WSU/NSF IGERT Center for Multiphase Environmental Research, Washington State University

1:55 p.m. Paper #: 42166
Solidification/Stabilization of Hg(II)-containing Solid Wastes by Cement after Stabilization by Sulfurized Reactivated Carbon
Authors:
Jian Zhang, University of Cincinnati University of Cincinnati, Civil & Environmental Engineering
Paul L Bishop, University of Cincinnati University of Cincinnati, Civil & Environmental Engineering

2:20 p.m. Paper #: 42527
Stabilization and Leachability Studies of Mercury-Containing Wastes
Authors:
Haishan PIAO, University of Cincinnati*University of Cincinnati, Civil and Environmental Engineering
Paul L. Bishop, University of CincinnatiUniversity of Cincinnati, Civil and Environmental Enginering

Session Adjourns

WR-1b Paper
Remediation Techniques and Approaches
Sponsoring Committees: WR-1 EP-4 WR-2
Chair: Radha Krishnan, IT Corporation
Co-Chair: Terry Alexander, University of Michigan

3:45 p.m. Paper #: 42976
Tank-Based Bioremediation Of RCRA Hazardous Wastes
Authors:
Frank Castaldi, URS Corporation

4:10 p.m. Paper #: 41938
Landfills Are Forever: Landfill Gas Remediation at a Commercially Developed Former Waste Disposal Site
Authors:
Thomas Kusterer, Montgomery County (MD) Government
Sohrab Kourosh, Technico Environmental, Inc.

4:35 p.m. Paper #: 43542
Application of Geostatistical Analysis and GIS Tools for Characterizing Contamination at the USDOE Savannah River Site
Authors:
Vikram M Vyas, Environmental and Occupational Health Sciences Institute
William Strawderman, Rutgers University, Department of Statistics
David S Kosson, Vanderbilt University, School of Engineering, Department of Civil and Environmental Engineering
Panos G Georgopoulos, Environmental and Occupational Health Sciences Institute

5:00 p.m. Paper #59999
Stabilization And Thermal Treatment For Remediation Of Mgp (Manufactured Gas Plant) Sites
Thomas F. McGowan, TMTS Associates, Inc.
Mark A. Fieri, Williams Environmental Services

Session Adjourns

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Cooperation for a Better Environment
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95th Annual Conference and Exhibition

Ten Reasons to Join Us in Baltimore

It's almost June, which means it's time for our Annual Conference & Exhibition in Baltimore, MD (June 23–27). For any procrastinators who haven't yet made plans to join us, we hope to make your decision easier with this list of the top ten reasons to attend.

In no particular order—

- Keynote address by U.S. EPA Deputy Administrator Linda Fisher, on how recent events are changing the environmental profession.
- An excellent series of panel sessions on current topics, featuring high-level policy-makers and industry representatives. Topics include environmental and health responses to emergencies, multipollutant legislation, new source review, the "MACT hammer," and global warming.
- An outstanding technical program, featuring nearly 500 technical paper presentations in 125 sessions.
- An exhibit hall featuring more than 350 companies and service providers, as well as the New Product Technology Theater, International Innovative Environmental Technology Pavilion, and new Government Pavilion.
- Crabcakes, shopping, and history! Baltimore's Inner Harbor offers a variety of fun and educational activities, especially in the summer.
- The 4th International Urban Environmental Infrastructure Forum, focusing on critical air quality issues facing developing countries.
- The 2002 Critical Review on visibility, presented by Dr. John Watson.
- Special programs on brownfields and pollution prevention.
- Networking opportunities galore, including receptions, luncheons, and technical tours.
- A night at the ballpark—Watch the Orioles take on the Yankees in beautiful Camden Yards stadium.

Of course, there are many more reasons than the ones listed above. Please visit the official conference Web site for more details if you're still not convinced, please browse the links at the left for more information. See you in Baltimore!

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EPA Seeks Entries for Clean Air Excellence Awards

CLEAN AIR Excellence Awards

The Awards Program honors outstanding, innovative efforts that support progress in achieving cleaner air. Awards are given in the following categories: Clean Air Technology, Regulatory/Policy Innovations, Transportation Efficiency Innovations, Community Development, Education/Outreach, and Outstanding Individual Achievement.

Click here for more information or to download an entry form.

Business Development Mission to Mexico

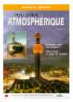
The U.S. Department of Commerce is pleased to announce that Secretary of Commerce Donald L. Evans will lead a delegation of senior executives to Mexico on June 17-20, 2002. Anyone interested in accompanying the Secretary should apply. The delegation of company representatives will number approximately 15, with an emphasis being placed on the environmental sector.

Inside this month's magazines...

- Bush's Clear Skies Initiative;
- Pre-MACT testing for HWC compliance; and
- Ethics Corner: Conflicts of interest.

This issue features 9 articles on a range of topics, including "Preparing to Measure the Effects of the NOx SIP Call - Methods for Ambient Air Monitoring of NO, NO2, NOy, and Individual NOz Species" by William A. McClenny et al.

Available in the Bookstore



How Much Is Clean Air Worth? - Special Issue of *Pollution Atmosphérique*

Elements of Environmental Engineering, Thermodynamics and Kinetics, 2nd Edition by Kalliat T. Valsaraj

The Air Pollution Engineering Manual, 2nd edition

Daily Envirowire

provided by BNA

6/3/2002 - Bond Set to Introduce Senate Legislation Restricting Access to Plants' Chemical Risks

5/31/2002 - Environmental Groups to Sue EPA for Failure to Designate Areas Violating Ozone Standard

Association News

Election Results

View the results of the 2002-2003 Board of Directors election.

A&WMA Strategic Plan

A strategic planning group consisting of A&WMA Board members, volunteers, and staff met in September 2001 to develop a long-range strategic direction for the Association. Click here to read a condensed version of the comprehensive Strategic Plan.

Click here to read the Association News section from the current EM.

Atmospheric Environment

A&WMA members can subscribe to the online version of Elsevier Science's *Atmospheric Environment* for just $100 per year. This special price is available to individual A&WMA members only and gives subscribers access to all 40 issues of *Atmospheric Environment* published online in calendar year 2002 (Vol. 36).

For more information, click here.

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(Notary Seal)

Notary's Signature Heather Mayo

Registration No.: 134814539

Commission Expiration Date: March 20, 2028

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