

TRACKS
2006 ATLANTA, GA



Implementing The Tracking Network

Program & Agenda



The National Environmental Public Health

Tracking Program is a giant step towards

fulfilling one of CDC's overarching goals and

that is that people in all communities are

protected from infectious, environmental,

and terrorist threats. By integrating environ-

mental and public health information

systems, CDC will be better able to protect

the nation's health by responding more

timely to public health problems related to

the environment.



Julie Louise Gerberding, M.D., M.P.H.

Director, Centers for Disease Control and Prevention

Administrator, Agency for Toxic Substances and Disease Registry

Vision

Healthy Informed Communities

Mission

To Provide Information from a Nationwide Network of integrated health and environmental data that drives actions to improve the health of communities.







Implementing The Tracking Network

Greetings!

Welcome to Tracks 2006: Implementing the Tracking Network. The Centers for Disease Control and Prevention (CDC) joins our partners to announce the third national conference highlighting the National Environmental Public Health Tracking Program (referred to as the National Tracking Program).

We're On Track to Implementation

The objective of the 2006 National Tracking Conference is to showcase the implementation phase of the National Environmental Public Health Tracking Network (Tracking Network). The conference is an opportunity for participants to learn about the following keys to successful implementation of the Tracking Network:

-  **Network Content**
Investigate a comprehensive framework for implementation of standards, protocols, tools, and methodologies to access and share nationally consistent data and measures.
-  **Technology**
Explore technology essential to successful implementation.
-  **Network Sustainability**
Examine approaches to network sustainability through participation, innovation, utility and research.
-  **Collaboration/Diversity/Coordination**
Share efforts among stakeholders to increase collaboration and coordination and address diversity in partnerships at the local, state, regional, national, and international levels.

All speakers, breakout session presenters, and poster presenters represent CDC's multi-disciplinary collaboration to build the Tracking Network. The sessions have been organized around four components essential to successful implementation of the Tracking Network. These components, or themes, have been color-coded in the agenda for your easy reference. The color key to the right lists these themes and clearly identifies the color associated with each theme.

Thank you for making the Third Annual National Tracking Conference a success. Your participation is appreciated, and we hope you find the event meaningful and informative.

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Please Note...

In an effort to reduce paper waste, abstracts and presentations are not included in this conference program. We encourage you to visit the Tracking Web site at www.cdc.gov/nceh/tracking where you may review, download, and print session abstracts, poster abstracts and presentations. There is also a computer and printer available in the Lounge and Director's Room (Floor 2) for additional convenience. Finally, we will have a few printed copies of the abstracts at the registration desk and in the Lounge and Director's Room.

Color Key for Concurrent Sessions

Each color represents one of the five goals of tracking.

NETWORK CONTENT

Investigate a comprehensive framework for implementation of standards, protocols, tools, and methodologies to access and share nationally consistent data and measures.

TECHNOLOGY

Explore technology essential to successful implementation.

NETWORK SUSTAINABILITY

Examine approaches to network sustainability through participation, innovation, utility and research.

COLLABORATION/DIVERSITY/COORDINATION

Share efforts among stakeholders to increase collaboration and coordination and address diversity in partnerships at the local, state, regional, national, and international levels.

PRECONFERENCE AGENDA

Tuesday, August 8th

8:00 a.m. – 9:00 a.m.	Continental Breakfast <i>Ballroom Prefunction</i>
8:00 a.m. – 5:00 p.m.	Early Registration <i>Ballroom Landing</i>
9:00 a.m. – noon	Standards and Network Development Workgroup Meeting <i>Ballroom Salons 3 and 4</i> Program Marketing and Outreach Workgroup Meeting <i>The Lounge</i>
11:00 – 2:00 p.m.	Content Workgroup Meeting <i>Ballroom Salons 1 and 2</i>
noon – 2:30 p.m.	LUNCH (on your own)
2:30 – 3:30 p.m.	Joint Meeting of SND, PMO, CWG – discuss activities requiring cross-workgroup coordination <i>Ballroom</i>
3:30 – 4:00 p.m.	Kick-off/overview for grantees <i>Ballroom</i>
4:00 – 5:00 p.m.	SND, PMO, CWG Workgroup Co-chairs Meeting <i>The Director's Room</i>



Wednesday, August 9th

- 7:30 – 8:30 a.m.** **Registration**
Ballroom Landing
- 8:00 – 8:30 a.m.** **Continental Breakfast**
Ballroom Prefunction
- 8:30 – 10:30 a.m.** **Opening Plenary Session**
Ballroom



SUSTAINABILITY

Moderator: Judith Qualters, Centers for Disease Control and Prevention

Speaker Introduction

Judith Qualters, Ph.D., CDC

Welcome Remarks

Michael McGeehin, Ph.D, M.S.P.H., Director, Division of Environmental Hazards and Health Effects, CDC

“Attracting Attention with Data”

Howard Frumkin, M.D., Dr.P.H., Director, National Center for Environmental Health, CDC

“Implementing a National Network: The EPA Exchange Network Experience”

Kimberly T. Nelson, Microsoft Corporation

Question and Answer Session

ALL

- 10:30 – 11:00 a.m.** **BREAK**
Ballroom Prefunction

- 11:00 – 12:30 p.m.** **Concurrent Sessions**



TECHNOLOGY

11:00 – 12:30 p.m.

Ballroom Salons 1 & 2

Panel Discussion

Tracking Network 101: What You’ve Wanted to Know, but Have Been Afraid to Ask

Moderator: Patrick Wall, CDC

Speaker: Nancy Tosta, Ross & Associates

concurrent session

Concurrent Sessions continued on next page...



COLLABORATIONS

11:00 – 12:30 p.m.

Ballroom Salons 3 & 4

Empowering Communities with Knowledge

Moderator: Lori Barck, Ph.D., J.D., Oregon Public Health Division

1. Development and Visualization of Community Vulnerability Indicators for Tracking. *Presented by Paul English, Ph.D., M.P.H., California Department of Health Services*
2. A Community Based Perspective on Vulnerability Indicators for Tracking. *Presented by Linda Kite, Healthy Homes Collaborative*
3. Environmental Health Data Needs for Identifying Environmentally Burdened Communities. *Presented by Debbie Lowe, M.P.H., U.S. Environmental Protection Agency, Region 9*

concurrent session



CONTENT

11:00 – 12:30 p.m.

Plaza Ballroom – Floor 2

Tracking Drinking Water Contaminants and Health Outcomes I

Moderator: Jim VanDerslice, Ph.D., Washington State Department of Health

4. Approaches for Developing Measures of Exposure to Contaminants in Drinking Water. *Presented by Jim VanDerslice, Ph.D., Washington State Department of Health*
5. Assessment of Water Distribution System Complexity and Availability of Data. *Presented by Craig Wolff, M.S. Eng., California Department of Health Services*
6. Using U.S. Geological Survey's Data, Knowledge and Models to Help Build an Environmental Public Health Tracking Network. *Presented by Paul Squillace, M.S., U.S. Geological Survey (USGS)*

concurrent session

12:30 – 1:30 p.m.

LUNCH (on your own)

1:30 – 3:00 p.m.

Plenary Session

Ballroom



SUSTAINABILITY

International Plenary Session

Moderator: William A. Sonntag, Jr., Office of Environmental Information, U.S. EPA

World Health Organization's Work on Environmental Public Health Indicators and the European Health and Environment Information System. *Presented by Dafina Dalbokova, Ph.D., World Health Organization*

Developments in Health and Environment Tracking in Canada. *Presented by Douglas Haines, B.Sc., M.Sc., Health Canada*

3:00 – 3:30 p.m.

BREAK

Ballroom Prefunction



TECHNOLOGY

3:30 – 5:00 p.m.

Ballroom Salons 1 & 2

PHIN Components: How Do They Relate to the Tracking Network?

Moderator: Alex Charleston, CDC

Panel Members:

Tim Morris, National Center for Public Health Informatics (NCPHI), CDC

Robb Chapman, NCPHI, CDC

John Fitzpatrick, NCPHI, CDC

David Dobbs, NCPHI, CDC

concurrent session



SUSTAINABILITY

3:30 – 5:00 p.m.

Ballroom Salons 3 & 4

From Grassroots to a Nationwide Tracking Network

Moderator: Susan Polan, Ph.D., American Public Health Association

- 7. Advancing Environmental Public Health Tracking: A Five Year Follow-Up Study. *Presented by Becky Smullin Dawson, M.P.H., Association of State and Territorial Health Officials (ASTHO)*
- 8. “From Patchwork to Network” in Environmental Public Health Tracking: Working with Unfunded States to Advance the National Effort. *Presented by Mary Hano, ASTHO*
- 9. Sustaining a Nationwide Approach to Developing Community Health Profiles. *Presented by Marilyn Metzler, CDC/NCCDPHP/DACH*

concurrent session



CONTENT

3:30 – 5:00 p.m.

Plaza Ballroom – Floor 2

Tracking Drinking Water Contaminants and Health Outcomes II

Moderator: Jim VanDerslice, Ph.D., Washington State Department of Health

- 10. Potential Relevance of Pesticides and Volatile Organic Compounds Detected in the Nation’s Sources of Drinking Water. *Presented by Patricia Toccalino, Ph.D., USGS*
- 11. Linkage of Drinking Water Contaminant and Birth Outcome Data for EPHT. *Presented by Steven Forand, M.A., M.S., New York State Department of Health*
- 12. Massachusetts Environmental Public Health Tracking of Total Trihalomethanes in Drinking Water, Birth Defects, and Low Birth Weight Cases. *Presented by Suzanne Condon, M.S., Massachusetts Department of Public Health Center for Environmental Health*
- 13. Modeling the Probability of Arsenic in Groundwater in New England as a Tool for Exposure Assessment. *Presented by Joseph Ayotte, P.G., U.S. Geological Survey*

concurrent session

5:00 – 7:00 p.m.

Poster Setup and Aquarium Tours

Georgia Aquarium

The Aquarium will be open to all TRACKS 2006 registered participants for tours from 5:00 to 7:00 p.m. (tickets provided at the conference registration desk)

7:00 – 9:00 p.m.

**Poster Session – Sponsored by
ASTHO, NAHDO, and NAPHSIS**

(Refreshments Served)

Georgia Aquarium

Thursday, August 10th

8:30 – 9:00 a.m.

Continental Breakfast

Ballroom Prefunction

9:00 – 10:00 a.m.

Plenary Session

Ballroom



SUSTAINABILITY

Speaker Introduction

Evelyn Talbot, Dr.P.H. University of Pittsburgh

“What Makes Tracking Data Actionable?”

Bernard Goldstein, University of Pittsburgh

10:00 – 10:30 a.m.

BREAK

Ballroom Prefunction

10:30 – 12:00 noon

Concurrent Sessions



TECHNOLOGY

10:30 – 12:00 noon

Ballroom Salons 1 & 2

Lessons for Network Implementation.

Moderator: Jeff Elliot, Missouri Department of Health & Senior Services

14. Interoperability of Tracking and Exchange Networks.

Presented by William Sonntag, EPA

15. Implementation of a National Environmental Information Exchange Node (NEIEN) as the Utah Environmental Public Health Tracking Network Exchange Gateway. *Presented by Lew Jeppson, M.S., Utah Department of Health*

16. Service Oriented Architecture: A Practical Approach to Data Transport, Integration, and Linkage for the Environmental Public Health Tracking Network. *Presented by Linh Le, M.D., Ph.D., M.P.H., New York State Department of Health*

*concurrent
session*

Concurrent Sessions continued on next page...



COLLABORATIONS

10:30 – 12:00 noon

Ballroom Salons 3 & 4

Innovative Approaches to Advance Your Tracking Program.

Moderator: Anne Venner, Environmental Health Tracking Branch, CDC

- 17. How Program Evaluation Helped Us Plan EPHT in Oregon and How We Intend to Use it in the Implementation Phase. *Presented by John A. Dougherty, Ph.D., Multnomah County Health Department*
- 18. Use of Scientific Review Board to Promote the Data Use and Exchange on the Environmental Public Health Tracking Network. *Presented by Wayne Ball, Ph.D., Utah Department of Health*
- 19. Missouri's Local Emergency and Environmental Public Health Initiative: A Successful Collaboration. *Presented by Jeff Patridge, M.A., Missouri Office of Administration*

concurrent session



CONTENT

10:30 – 12:00 noon

Plaza Ballroom – Floor 2

Tracking Emerging Environmental Diseases I

Moderator: Suzanne Condon, M.S., Massachusetts Department of Public Health Center for Environmental Health

- 20. Systemic Lupus Erythematosus (SLE): Challenges Tracking a Complex, Multi-Systemic Chronic Disease. *Presented by Frances M. Dwyer, M.S.N., Ph.D., Massachusetts Department of Public Health Center for Environmental Health*
- 21. Developing an Environmental Public Health Tracking Module for Amyotrophic Lateral Sclerosis (ALS): Implications of Wisconsin's ALS Mortality Experience. *Presented by Mark Werner, Ph.D., Wisconsin Department of Health and Family Services*
- 22. The Case for Carbon Monoxide Poisoning Surveillance in the National EPHT Network. *Presented by Andrew E. Smith, S.M., Sc.D., Maine Department of Health and Human Services*

concurrent session



TECHNOLOGY

10:30 – 12:00 noon

Congress Room – Floor 3

Panel Discussion

Everything Your Mother Never Told You About Metadata

Moderator: Lisa Parker, M.S., State of Maine Center for Disease Control and Prevention

Panel Members:

- Robert Levey, M.B.A, NYC Department of Health & Mental Hygiene*
- Lisa Parker, M.S., State of Maine Center for Disease Control and Prevention*
- Rodney Garland, M.S., Oregon Department of Human Services Environmental and Occupational Epidemiology*

concurrent session

12:00 – 1:30 p.m.

LUNCH (on your own)

1:30 – 3:00 p.m.

Concurrent Sessions

**TECHNOLOGY**

1:30 – 3:00 p.m.

*Ballroom Salons 1 & 2***Panel Discussion****Update on the Rapid Inquiry Facility as a Geographic Information System Based Analytical Tool for Environmental Public Health Tracking.**

Moderator: Wayne Ball, Ph.D., Utah Department of Health

Panel Members:

*Sam LeFevre, Sc.D., Utah Department of Health**Lars Jarup, M.D., Ph.D., Imperial College, London**Linda Beale, Ph.D., Imperial College, London**Greg Kearney, Dr.P.H., M.P.H., Florida Department of Health**concurrent
session***COLLABORATIONS**

1:30 – 3:00 p.m.

*Ballroom Salons 3 & 4***Policy and Tracking: Understanding the Climate**

Moderator: Nancy Tosta, Ross & Associates Environmental Consulting, LTD.

23. Legal Issues and Environmental Public Health Tracking

Project: Lessons from Montana. *Presented by Lance Gable, J.D., M.P.H., Wayne State University Law School*

24. Overview of Data Access and Privacy Policies Relevant to the Environmental Public Health Tracking Network.

Presented by Christina H. Drew, Ph.D., Ross & Associates

25. Oregon's View of Legal Issues and Challenges in EPHT

Implementation. *Presented by Lori Barck, Ph.D., J.D., Oregon Public Health Division**concurrent
session***CONTENT**

1:30 – 3:00 p.m.

*Plaza Ballroom – Floor 2***Tracking Emerging Environmental Diseases II**

Moderator: Suzanne Condon, M.S., Massachusetts Department of Public Health Center for Environmental Health

26. Integration of Diverse Data Sources for Establishing a

Developmental Disabilities Database Linked to Environmental Data. *Presented by Julie Cosio, M.P.H., Massachusetts Department of Public Health Center for Environmental Health*27. The Case for Pesticide Surveillance in a National EPHT Network. *Presented by J. Bryan Jacobson, M.P.H., New York City Department of Health and Mental Hygiene**concurrent
session*

3:00 – 3:30 p.m.

BREAK*Ballroom Prefunction*



TECHNOLOGY

3:30 – 5:00 p.m.

Ballroom Salons 1 & 2

Data Management and Access – Options and Challenges.

Moderator: Sam LeFevre, Sc.D., Utah Department of Health

- 28. Implementation of Naming Conventions for the Utah Environmental Public Health Tracking Network Data Warehouse. *Presented by Sam LeFevre, Sc.D., Utah Department of Health*
- 29. Using Interactive Web Mappers to Improve Environmental Public Health in Missouri. *Presented by Jeff Patridge, M.A., Missouri Office of Administration*

concurrent session



CONTENT

3:30 – 5:00 p.m.

Ballroom Salons 3 & 4

Using Existing Data in Environmental Health Tracking

Moderator: Steven C. Macdonald, Ph.D., M.P.H., Washington Department of Health

- 30. Vital Records Overview and Access. *Presented by Garland Land, National Association for Public Health Statistics and Information Systems (NAPHSIS)*
- 31. Hospital Discharge Data: Tips, Tools and Resources Available for Use in Tracking. *Presented by Denise Love, NAHDO*
- 32. Accessing and Using Existing Data for Public Health: Traditional and Non-traditional Sources. *Presented by Pete Bailey, South Carolina Office of Research and Statistics*

concurrent session



CONTENT

3:30 – 5:00 p.m.

Plaza Ballroom – Floor 2

Methodologies in Environmental Health Tracking

Moderator: Jeffrey Shire, M.S., CDC

- 33. Confounding and Interaction in Aggregate-Level Studies: A Practical Guide. *Presented by W. Douglas Thompson, Ph.D., University of Southern Maine*
- 34. Considering the Knowledge Base in Selecting Targets and Methods for Environmental Public Health Tracking. *Presented by Amy D. Kyle, Ph.D., M.P.H., University of California Berkeley*
- 35. Surveillance of Childhood Cancer: Trends, Clusters and Other Concerns. *Presented by Dan Wartenburg, Ph.D., University of Medicine and Dentistry of New Jersey*
- 36. Health and Environment Linked for Information Exchange: A CDC-NASA Joint Environmental Public Health Tracking Collaborative Project. *Presented by Mohammad Al-Hamdan, Ph.D., Marshall Space Flight Center, NASA*

concurrent session

Concurrent Sessions continued on next page...



COLLABORATIONS

3:30 – 5:00 p.m.

Congress Room – Floor 3

Panel Discussion

Collaborating with Environmental Justice Organizations in EPHT

Moderator: Richard Hofrichter, Ph.D., National Association of County and City Health Officials (NACCHO)

Panel Members:

Paul English, Ph.D., M.P.H., California Dept. of Health Services

Mitzi Shpak, Action Now & California Safe Schools

Jeri S. Williams, Environmental Justice Action Group, Oregon

*concurrent
session*

Friday, August 11th

8:30 – 9:00 a.m.

Continental Breakfast

Ballroom Prefunction

9:00 – 10:30 a.m.

Concurrent Sessions



TECHNOLOGY

9:00 – 10:30 a.m.

Ballroom Salons 1 & 2

Technology Tools for Tracking

Moderator: Craig Kassinger, Environmental Health Tracking Branch, CDC

37. Geo Tools. *Presented by Bambang Parmanto, Ph.D., University of Pittsburgh & Ravi Sharma, University of Pittsburgh*
38. Developing Tools for Estimating Hazard Exposures Related to Public Health. *Presented by Marni Bekkedal, Wisconsin Department of Health & Family Services*
39. County Lung Cancer Mortality: A Decision Tree Model for Control and Prevention. *Presented by Norma Kanarek, Ph.D., Johns Hopkins*

*concurrent
session*



CONTENT

9:00 – 10:30 a.m.

Ballroom Salons 3 & 4

Biomonitoring in the Tracking Network: Issues, Actions, and Interventions

Moderator: Jeanne Zborowski, Ph.D., University of Pittsburgh
Opening Remarks: Mandatory Biobanking by all Federally Funded Research Studies

40. Western Tracking and Biomonitoring Collaboration: Results and Recommendations. *Presented by Paul English, Ph.D., M.P.H., California Department of Health Services*
41. Biomonitoring Data Sources and Applications in the New Mexico Tracking Program. *Presented by Helen Flowers, M.S., New Mexico Department of Health*
42. Biomonitoring In Action: Lead, Mercury, Cadmium and Pesticide Exposure in New York City Adults. *Presented by Dan Kass, M.S.P.H., New York City Department of Health*
43. Biomonitoring for Metals in Children's Blood Using Existing Blood Lead Specimens. *Presented by Andrew E. Smith, S.M., Sc.D., Maine Department of Health and Human Services*

*concurrent
session*



CONTENT

9:00 – 10:30 a.m.

Plaza Ballroom – Floor 2

Air Monitoring and Air Quality Modeling to Assess Exposure and Health Risk

Moderator: Sam LeFevre, Utah Department of Health

44. Using Criteria Pollutants to Assess and Monitor Health Impact in Tracking. *Presented by Tim Watkins, M.S., U.S. EPA & Vickie Boothe, B.S.E.E., B.S.B.A.,*

CDC/NCEH/EHTB

45. Lessons Learned through Linkage Studies of Incident Cancers and Environmental Hazards in New Jersey.

Presented by Barbara D. Goun, Ph.D., New Jersey Department of Health and Senior Services

46. Indoor Air Quality Testing and Pediatric Asthma Surveillance in Massachusetts Public Schools. *Presented by Suzanne K. Condon, M.S., Massachusetts Department of Public Health Center for Environmental Health*

47. Spatial Analytic Modeling of the Health Effects of Traffic Emissions. *Presented by Eric Roberts, M.D., Ph.D., California Department of Health Services*

concurrent session

10:30 – 11:00 a.m.

BREAK

Ballroom Prefunction

11:00 – 12:00 noon

Plenary Session

Ballroom



SUSTAINABILITY

Speaker Introduction

Becky Smullin-Dawson, M.P.H., ASTHO

“A Look into the Future”

Tom Burke, Ph.D., M.P.H., Johns Hopkins Bloomberg School of Public Health

Wrap-up

Judith Qualters, Ph.D., CDC

12:00 noon

GOOD-BYE!!

Thanks for joining us!
Please remember to turn in your conference evaluations for a souvenir cup.



Implementing the Tracking Network

Speaker Biographies

Judith Qualters, Ph.D.

Dr. Qualters leads the Centers for Disease Control and Prevention's Environmental Public Health Tracking Program. She received her M.P.H. in epidemiology from the University of Michigan and her Ph.D. from the University of North Carolina, Chapel Hill. Dr. Qualters has been a scientist at CDC since 1989 where she's investigated cancer among Vietnam Veterans as part of the Agent Orange Projects; analyzed cancer and non-cancer health risks among communities exposed to contaminants from nuclear weapons production and testing; and worked on the conceptualization and implementation of two other large national programs: CDC's Breast and Cervical Cancer Early Detection Program and the National Program of Cancer Registries.

Michael A. McGeehin, Ph.D., M.S.P.H.

Dr. Michael McGeehin is the Director of the Division of Environmental Hazards and Health Effects of the National Center for Environmental Health, CDC. His Division includes the National Environmental Public Health Tracking Program, CDC's Asthma Control Program, the Harmful Algal Bloom Surveillance Project, and the Nuclear Weapons Facility Dose-Reconstruction Program.

Prior to becoming Director of EHHE, Dr. McGeehin was Chief of the Health Studies Branch of NCEH. During his tenure, HSB staff conducted investigations on a wide variety of environmental problems including the 1995 Chicago heat wave, children's deaths in Haiti from diethylene glycol poisoning, children's lead poisoning and pesticide exposure along the US-Mexico border, and Pfiesteria outbreaks along the southeastern US, among others. Before joining NCEH, Dr. McGeehin was Chief of the Health Investigations Branch of the Division of Health Studies in ATSDR and was ATSDR's Senior Regional Representative in Denver. He began his career with CDC in 1978 in the Center for Prevention Services.

Dr. McGeehin is CDC's point person for global climate change. He served as co-chair of the Health Sector on the US National Assessment of Climate Change. He also represents CDC on many external committees including the National Advisory Committee for Natural Hazards Research, CEQ Interagency Working Group on Environmental Indicators, National Water Quality Assessment Advisory Council, National Drinking Water Advisory Council, ECOS Environmental Health Forum, and the Interagency Committee for EPA's Report on the Environment, among others.

Dr. McGeehin has authored, or co-authored, articles on numerous environmental health topics including bladder cancer and DBP exposure, heat wave morbidity, heat wave response plans, health effects of global climate change, childhood lead poisoning, and environmental health surveillance. In 1989, he received his M.P.H. from University of Colorado and his Ph.D. in Environmental Health Science from Colorado State University in 1992.

Howard Frumkin, M.D., Dr.P.H.

Howard Frumkin is Director of the National Center for Environmental Health/Agency for Toxic Substances and Disease Registry (NCEH/ATSDR) at the U.S. Centers for Disease Control and Prevention. NCEH/ATSDR works to maintain and improve the health of the American people by promoting a healthy environment and by preventing premature death and avoidable illness and disability caused by toxic substances and other environmental hazards.

Dr. Frumkin is an internist, environmental and occupational medicine specialist, and epidemiologist. Before joining the CDC in September, 2005, he was Professor and Chair of the Department



of Environmental and Occupational Health at the Rollins School of Public Health of Emory University, and Professor of Medicine at Emory Medical School, in Atlanta. At Emory he founded and directed the Environmental and Occupational Medicine Consultation Clinic, the Occupational Medicine Residency training program, and the Southeast Pediatric Environmental Health Specialty Unit.

Dr. Frumkin previously served on the Board of Directors of Physicians for Social Responsibility (PSR), where he co-chaired the Environment Committee; as president of the Association of Occupational and Environmental Clinics (AOEC); as chair of the Science Board of the American Public Health Association (APHA), as a member of EPA's Children's Health Protection Advisory Committee, where he chaired the Smart Growth and Climate Change work groups; and on the National Toxicology Program Board of Scientific Counselors. He currently serves on the Institute of Medicine Roundtable on Environmental Health Sciences, Research, and Medicine. In Georgia, he was a member of the state's Hazardous Waste Management Authority, the Department of Agriculture Pesticide Advisory Committee, and the Pollution Prevention Assistance Division Partnership Program Advisory Committee, and is a graduate of the Institute for Georgia Environmental Leadership. In Georgia's Clean Air Campaign, he served on the Board and chaired the Health/Technical Committee. He was named Environmental Professional of the Year by the Georgia Environmental Council in 2004. He has served as a consultant to several corporations, including Hewlett-Packard, Southwire, Georgia Power, and Polaroid, and to several unions, including the Chemical Workers Association and the Utility Workers Union. His research interests include public health aspects of urban sprawl and the built environment; air pollution; metal and PCB toxicity; climate change; health benefits of contact with nature; and environmental and occupational health policy, especially regarding minority workers and communities, and those in developing nations. He is the author or co-author of over 100 scientific journal articles and chapters, and his books include *Urban Sprawl and Public Health* (Island Press, 2004, co-authored with Larry Frank and Dick Jackson), *Emerging Illness and Society* (Johns Hopkins Press, 2004, co-edited with Randall Packard, Peter Brown, and Ruth Berkelman), *Environmental Health: From Global to Local* (Jossey-Bass, 2005), and *Safe and Healthy School Environments* (Oxford University Press, 2006, co-edited with Leslie Rubin and Robert Geller).

Dr. Frumkin received his A.B. from Brown University, his M.D. from the University of Pennsylvania, his M.P.H. and Dr.P.H. from Harvard, his Internal Medicine training at the Hospital of the University of Pennsylvania and Cambridge Hospital, and his Occupational Medicine training at Harvard. He is Board-certified in both Internal Medicine and Occupational Medicine, and is a Fellow of the American College of Physicians and the American College of Occupational and Environmental Medicine.

Dr. Frumkin was born in Poughkeepsie, New York. He is married to Beryl Ann Cowan, an attorney and child advocate. They live in Atlanta with their two children, Gabriel (age 18) and Amara (age 14).

Kimberly Nelson

Kimberly Nelson joined Microsoft Corporation in January, 2006 as Executive Director for eGovernment. In her newly created position, Ms. Nelson is helping develop Microsoft's e-government strategy. She is working with government CIOs and other leaders to establish long-term strategies for more efficient and cost-effective online services. Her role also includes extensive collaboration with Microsoft's vast partner ecosystem, working to drive solutions that will ensure the predictable delivery of improved online services while helping to reduce the cost, risk and deployment time associated with sophisticated e-government systems.

Prior to joining Microsoft, Ms. Nelson spent 26 years in the public sector – 22 with the Commonwealth of Pennsylvania and four with the United States Environmental Protection Agency, where she served as the Assistant Administrator for Environmental Information and Chief Information Officer.

Ms. Nelson was instrumental in expanding the Chief Information Officer's role within the Environmental Protection Agency and oversaw the creation and implementation of several major initiatives including the National Environmental Information Exchange Network and EPA's portal on that Network, the Central Data Exchange; the use of indicators to measure performance; and the implementation of the Agency's enterprise architecture. She also served on the Federal CIO Council Executive Committee and as co-chair of the CIO Council's Architecture and Infrastructure Committee.

During her state career, Ms Nelson worked in a number of staff positions in the Senate of Pennsylvania, the Public Utility Commission, and the Departments of Aging and Environmental Protection.

She was the first to hold the position of Chief Information Officer in the Department of Environmental Protection and later served as Executive Deputy Secretary, the second highest position in the department.

Ms. Nelson graduated from Shippensburg University in 1978 with a Bachelor of Science in Secondary Education, Political Science, and from the University of Pennsylvania in 1987 with a Master of Public Administration.

She is married to Kevin Cadden and has two daughters – Kelsey, age sixteen, and Mackenzie, age fourteen.

Bernie D. Goldstein, M.D.

Dr. Goldstein is Professor of Environmental and Occupational Health and the former Dean of the University of Pittsburgh's Graduate School of Public Health. From 1986-2001 he served as the Director of the Environmental and Occupational Health Sciences Institute, a joint program of Rutgers University and the Robert Wood Johnson Medical School. He was the Chair of the Department of Environmental and Community Medicine at the medical school from 1980-2001. He is a physician, board certified in Internal Medicine, Hematology and Toxicology, and a member of the Institute of Medicine.

His experience includes appointment as Assistant Administrator for Research and Development of the U.S. Environmental Protection Agency, 1983-1985. He has served as president of the Society for Risk Analysis, vice president of the Scientific Committee on Problems of the Environment (SCOPE), and a member of the NIH National Advisory Environmental Health Sciences Council (NAEHS). His past activities include member and chairperson of the NIH Toxicology Study Section, EPA's Clean Air Scientific Advisory Committee and various Institute of Medicine and National Research Council committees, including Chair of the NRC Committee on Biomarkers.

Thomas A. Burke, Ph.D., M.P.H.

Thomas A. Burke is a Professor and Associate Chair at The Johns Hopkins Bloomberg School of Public Health, Department of Health Policy and Management, with joint appointments in the Department of Environmental Health Sciences and the School of Medicine Department of Oncology. Currently he is Director of the Johns Hopkins Center for Excellence in Environmental Public Health Tracking and the Center for Excellence in Environmental Health Practice. He is also Co-Director of the Johns Hopkins Risk Sciences and Public Policy Institute. His research interests include the development of new approaches to environmental health sur-



veillance, and the application of health risk assessment to public policy. He was Principal Investigator for the Pew Environmental Health Commission which established the framework for a national approach to environmental public health tracking.

Prior to his appointment at Johns Hopkins, Dr. Burke was Deputy Commissioner of Health for the State of New Jersey and was Director of the Office of Science and Research in the New Jersey Department of Environmental Protection.

Dr. Burke is a member of the National Academy of Sciences Board on Environmental Studies and Toxicology. He was Inaugural Chair of the Advisory Committee to the Director of the CDC National Center for Environmental Health and a member of the Executive Committee of the EPA Board of Scientific Counselors.

Dr. Burke received his Ph.D. in epidemiology from the University of Pennsylvania, his M.P.H. from the University of Texas, and his B.S. from Saint Peter's College.

Dafina Dalbokova, Ph.D.

Dr. Dafina Dalbokova has been working at the WHO European Centre for Environment and Health (WHO-ECEH) since 1999, on the establishment of environmental public health indicators for policy-oriented monitoring in the WHO European Region.

She has been the technical manager of a series of projects to implement a harmonized environment and health information system to support public policies in Europe.

Before joining the WHO, Dafina Dalbokova was a senior researcher at the National Center of Hygiene, Medical Ecology and Nutrition, Sofia, Bulgaria and head of the Data Processing and Statistical Analysis of Surveys, Field and Experimental Studies unit. She also led the “Development of National Health-Environment Geographic Information System (HEGIS) for Bulgaria” project within the framework of the WHO-ECEH programme. Dafina Dalbokova has a computer science background, a Ph.D. in information theory and extensive post-graduate qualifications in biostatistics and epidemiology.

Douglas Haines, M.Sc.

Douglas Haines is the Manager of Surveillance and Monitoring in Health Canada's Safe Environments Programme where he has worked on environmental health issues since 1986. Mr. Haines has researched the health effects of air pollution, heavy metals, and persistent organic chemicals and authored several handbooks and reports assessing human exposure to contaminants in the environment.

Between 1996 and 2002, Mr. Haines managed Health Canada's Great Lakes Health Effects Programme and the health component of the Canada-Quebec St. Lawrence Vision 2000 Programme which focused on assessing and managing health risks posed by environmental pollution in these two ecosystems. He has been engaged in climate change and health issues and has contributed to developing a federal Health and Environment Strategy. On assignment with Statistics Canada, Mr. Haines developed the concept for the Canadian Health Measures Survey, to be launched in 2007, which will provide biomonitoring and other health data on a national basis.

He was a member of the International Joint Commission's Indicators Implementation Task Force and is currently a member of the Federal-Provincial-Territorial Health and Environment Tracking/Surveillance Task Group.

List of Posters

1. An Analysis of Five Years of Childhood Blood Lead in New Jersey: Partnering to Understand Exposures and Environmental Factors Leading to Elevated Blood Lead Levels. Barbara D. Goun, Ph.D., New Jersey Department of Health and Senior Services
2. Analysis and Presentation of Environmental Exposure Metrics at Different Geographic Scales. Steve Anderson, M.S., New Jersey Department of Environmental Protection
3. Analysis of Childhood Lead Poisoning and Selected Developmental Disabilities in Florida. Greg Kearney, Dr.P.H., M.P.H., R.S., Florida Environmental Public Health Tracking Program, Florida Department of Health
4. Are Criteria Air Pollutants Sensitive Markers of Air Quality for Major Point Source Emissions? A Case Example from Pittsburgh, PA. Xu, Xiaohui, M.S., University of Pittsburgh
5. Chronic Exposure to Ambient Ozone and Asthma Hospital Admission among Children. Shao Lin, Ph.D., Center for Environmental Health, New York State Department of Health
6. Data Exchange with PHIN-MS - Here, There and Everywhere. Lisa Parker, M.S., Maine Department of Health and Human Services
7. Developing Tools for Birth Defects Tracking: the Automated Spatial Surveillance Project (ASSP). Matthew J Strickland, M.A., M.P.H., National Center on Birth Defects and Developmental Disabilities (NCBDDD), CDC
8. Environmental Public Health Tracking: Using the Rapid Inquiry Facility to evaluate Congenital Malformations in Florida. Chris Duclos, M.S., Florida Department of Health - Environmental Public Health Tracking
9. EPHT and Disaster Response - Monitoring Environmental Lead following Hurricane Katrina. LuAnn White, Ph.D., Tulane University
10. Implementation of the Environmental Public Health Tracking Network in a Dynamic Changing State Information Technology Infrastructure. Sam LeFevre, Utah Department of Health
11. It's the Connections that Count! James Logue, Dr.P.H., M.P.H., Pennsylvania Department of Health, Bureau of Epidemiology
12. Linking Asthma Exacerbation and Air Pollution Data: A Step Toward Public Health And Environmental Data Integration. Fazlay S. Faruque, Ph.D., University of Mississippi Medical Center
13. Oklahoma's Experience in Building an Environmental Public Health Tracking Network. Elizabeth Kruger, M.P.H., Oklahoma State Department of Health (OSDH), Oklahoma Environmental Public Health Tracking (OK-EPHT)
14. Potential Problems when Linking New Jersey Census Tract Values to Cancer Cases Geocoded by ZIP Code. Barbara D. Goun, Ph.D., New Jersey Department of Health and Senior Services
15. Quantifying Geocode Location Error Using GIS Methods. Matthew J Strickland, M.A., M.P.H., National Center on Birth Defects and Developmental Disabilities (NCBDDD), CDC
16. Rapid Implementation Process for Automated Transfer of Environmental Health Data via PHIN-MS Software. Matthew Cahillane, M.P.H., New Hampshire Department of Health and Human Services
17. Residential Mobility During Pregnancy in Metropolitan Atlanta. Csaba Siffel, M.D., Ph.D., Centers for Disease Control and Prevention
18. The National Workgroup on Carbon Monoxide Surveillance: Collaboration for Public Health Practice. Judith M. Graber M.S., Maine Department of Health and Human Services
19. Using Hospital Discharge Data for Surveillance. Ellen Omohundro, Ph.D., Tennessee Department of Health

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Notes



CDC's National Environmental Public Health

Tracking Program is building a national integrated environmental and public health information system that supports national efforts to standardize and facilitate the electronic exchange of information. Linking environmental and health data will enable a timely response to potential public health problems related to the environment.



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