

CURRICULUM VITALE

- Name:** Clifford P. Weisel
- Office Address:** Environmental & Occupational Health Sciences Institute
(EOHSI)/UMDNJ
Department of Environmental and Occupational Medicine
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Piscataway, NJ 08854
Phone: 732-445-0154
weisel@eohsi.rutgers.edu
- Education:** B.S., Chemistry
State University of New York at Stony Brook, 1974
M.S., Analytical Chemistry
University of Rhode Island, 1978
Ph.D., Chemical Oceanography
University of Rhode Island, 1981
- Postdoctoral Training:**
1981 – 1983 National Research Council Postdoctoral Fellow at
NOAA/AOML, Miami, Florida
- University Appointments/Professional Experience:**
- 2002 - Present Tenured Professor, Department of Environmental and
Occupational Medicine UMDNJ-Robert Wood Johnson
Medical School Piscataway, New Jersey
- 2000 – Present Associate Professor, Environmental and Occupational Health
Division, UMDNJ-School of Public Health
- 1995 – Present Deputy Director Exposure Measurement and Assessment
Division, Environmental and Occupational Health Sciences
Institute (EOHSI)
- 1994 – 2002 Associate Professor, Department of Environmental and
Community Medicine UMDNJ-Robert Wood Johnson Medical
School Piscataway, New Jersey
- 1989 – 1994 Assistant Professor, Department of Environmental and
Community Medicine UMDNJ-Robert Wood Johnson Medical
School Piscataway, New Jersey
- 1989 – Present Member of the Environmental and Occupational Health
Sciences Institute Piscataway, New Jersey
- 1989 – Present Member of the Graduate Faculty of the Department of
Environmental Sciences of Rutgers The State University of

New Jersey

- 1988 – 1989 Research Associate at the Center for Environmental Science, The College of Staten Island, Staten Island, New York
- 1986 – 1989 Adjunct Assistant Professor: Graduate Program in Environmental Science, Biology Department and Chemistry Department at the College of Staten Island, Staten Island, New York
- 1985 – 1988 Research Scientist with the Research Foundation of CUNY at the College of Staten Island, Staten Island, New York
- 1984 – 1985 Computer Consultant associated with the Plagman Group and Price Waterhouse, New York, New York
- 1981 – 1983 National Research Council Postdoctoral Fellow at NOAA/AOML, Miami, Florida
- 1974 - 1981 Research & Teaching Assistant, Graduate School of Oceanography and Department of Chemistry, University of Rhode Island, Kingston, Rhode Island

Awards and Honors

- 2007-2008
- 2006
- 2005
- 2003
- 2000-2003
- May 2000
- 1981-1983
- 1975-1981
- 1974-1975
- 1970-1974
- 1970-1974
- President, International Society of Exposure Analysis
 - President Elect, International Society of Exposure Analysis
 - Elected to Sigma Xi Society
 - Forchhenner Visiting Professor of Genetics at Hebrew University
 - Treasurer, International Society of Exposure Analysis
 - New Jersey Center for Environmental Indicators Excellence Award
 - National Research Council Postdoctoral Fellowship Award
 - Research Assistantship at the University of Rhode Island
 - Teaching Fellowship at the University of Rhode Island
 - New York State Regents Scholarship Award
 - New York State Scholarship Incentive Award

Committee Appointments/Workshop Participant:

- 1986-1989
- 1986-1991
- 1986-1991
- 1986-1991
- December 1990
- March 1991
- October 1991
- Director of a New York State Department of Health Accredited Laboratory
 - Member of the SI/NJ Urban Air Toxic Workgroup Advisory Board
 - Chair of the Monitoring/QC subcommittee of the SI/NJ Urban Air Toxic Workgroup
 - Member of the Quality Assurance subcommittee of the SI/NJ Urban Air Toxic Workgroup
 - Workshop on General Population Exposure to Gasoline (invited speaker), Annapolis, MD, (Sponsored by API)
 - Manganese/MMT Workshop, Research Triangle Park, NC, (Sponsored by US EPA)
 - Environmental Health Workshop, Santa Fe, NM, (Sponsored by US EPA)

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| February 1992 | ▪ Exposure Assessment Research Workshop on Gasoline, Washington DC, (Sponsored by API) |
| June 1992 | ▪ Workshop on Emissions, Modeling and Exposure, Research Triangle Park, NC (Sponsored by Risk Science Institute and USEPA), |
| 1992-1993 | ▪ Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides, Institute of Medicine, National Academy of Sciences, |
| 1993 | ▪ MTBE Exposure Workgroup, Washington, D.C.(Sponsored by USEPA and API) |
| 1994, 1995, 1996, 1997 | ▪ Peer Grant Review Panel, U.S. EPA, Research Triangle Park, NC, |
| Sept., 1994 | ▪ Gasoline Emission Workshop, U.S. EPA, Research Triangle Park, NC, |
| March 1995 | ▪ Workshop on Disinfection By-Products and Reproductive Effects, Research Triangle Park, NC, (Sponsored by USEPA), |
| 1995-1998 | ▪ Working Group on the Estimation of Dermal and Inhalation Exposures to Contaminants in Drinking Water,(Sponsored by ILSI Risk Science Institute and USEPA), |
| 1996-1997 | ▪ Expert Panel on Benzene Exposure for the Harvard School of Public Health, (Sponsored by US EPA as part of National Human Exposure Assessment Study) |
| 1997 | ▪ Chair of Exposure Section of Workgroup on Research Needed to Reduce Uncertainty in Health Risk Assessment for Ozone, U.S., EPA, |
| 1998-2000 | ▪ American Water Works Association Project Advisory Committee, |
| April 26-28, 1999 | ▪ Workshop on Novel Methods for Risk Assessment of Disinfection By-Product Mixtures in Drinking Water, US EPA, Cincinnati, OH, |
| 1999-2000 | ▪ Steering Committee of Exposure Assessment for Disinfection By-Products in Epidemiologic Studies, Health Canada, Ottawa Canada, |
| June 1, 2000 | ▪ Site Visit Member NIEHS Review of PO1 Proposal for a Center at UNC-CH for Environmental Health and Susceptibility, |
| 2000-Present | ▪ Pediatric Asthma Coalition of New Jersey, Environmental Task Forces, |
| June 2001 | ▪ Workshop for the American Chemistry Council Long-term Research Initiatives in Exposure |
| July 2001 | ▪ NIEHS Reviewer of Community-Based Participatory Research Grants, |
| July 2001 | ▪ CDC Workshop to Refine Research Agenda for Tap Water Disinfection Byproducts and Human Health, |
| June 2002 | ▪ Expert Panelist Allegheny, PA Health Department on Health Based Indicators |
| July 2003 | ▪ External peer panel review of EPA's report Exposure and Human Health Evaluation of Airborne Pollution from the World Trade Center Disaster |
| September 2003 | ▪ US EPA Computational Toxicology Framework Review Panelist, |
| April 2004 | ▪ US EPA Grant Review Panel: Environmental Statistics Research: Novel Analyses of Human Exposure Related Data |
| May 2004 | ▪ US EPA Peer Review of Issues Relating to EPA Response Activities to the Attacks on the World Trade Center |
| June 2005 | ▪ US EPA Workshop on Optimizing the Design and Interpretation of |

- Epidemiologic Studies to Consider Alternate Disinfectants of Drinking Water.
- June 2005 ■ US EPA Expert Peer Review of Application of PBPK Modeling in Human Health Risk Assessment
 - December 2005 ■ Member of the Voluntary Children's Chemical Evaluation Program (VCCEP) for Xylene Peer Review – Co sponsored by Toxicology Excellence for Risk Assessment (TERA) and US EPA
 - May 2006 ■ NIEHS Exposure Biology Workshop
 - May 2006 ■ Member of the Voluntary Children's Chemical Evaluation Program (VCCEP) for Toluene Peer Review – Co sponsored by Toxicology Excellence for Risk Assessment (TERA) and US EPA
 - August 2006 ■ Presenter at Gordon Conference on Drinking Water Disinfectants
 - December 2006 ■ US EPA Workshop on NOx Exposure
 - February 2007 ■ Workshop on Assessment of Health Science for the Review of the NAAQS for Nitrogen and Sulfur Oxides
 - May 2007 ■ External Reviewer for the National Cancer Institute Intramural Program, Occupational and Environmental Epidemiology Branch
 - October 2008 ■ US EPA Ozone National Ambient Air Quality Standards Review Workshop
 - April 2009 ■ US EPA Reviewer at Estimating Benefits of Reducing Hazardous Air Pollutants Workshop

Professional Society Membership:

- American Association for the Advancement of Science
- American Chemical Society
- The Oceanography Society
- International Society of Exposure Analysis

Grant History:

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| U.S. Environmental Protection Agency, Analysis of Volatile Organic Compounds in the Staten Island Air. Co-I. | 9/1987-2/1988 |
| New Jersey Department of Environmental Protection, Human Exhaled Breath Study: Development and Evaluation of a Bag Collection Adsorbent Trap Sampling System - Year 2, P.I. | 4/1989-4/1990 |
| U.S. Environmental Protection Agency, Human Exposure Research: Personal and Microenvironmental Measurement and Modeling, Co-P.I. | 9/1989-8/1992 |
| New Jersey Department of Environmental Protection, Characteristics and Dynamics of Exposure to Toxic Chemicals in the Staten Island/New Jersey Study, P.I. | 6/1990-5/1991 |
| NIEHS Exploratory Research Grant, Chlorination By-Products: Occupational and Community Exposure and Health Effects, P.I. | 10/1990-8/1991 |
| GRS Grant - (Robert Wood Johnson Foundation Grant): Evaluation of Exposure to Chlorination By-Products Within a Municipal Water System, P.I. | 1/1/1991-12/31/1991 |

International Life Sciences Institute-Risk Science Institute Grant: Evaluation of Multi Route Exposures to Environmental Contaminants Using Exhaled Breath Analysis, P.I.	2/1/1991-4/30/1993
NIEHS: Groundwater Transport of Neurotoxicants and estimates of the Subsequent Exposure, P.I.	4/1/1992-3/31/1995
UMDNJ Foundation: Mercury Exposure During and Subsequent to Amalgam Restoration, Co-P.I.	7/1/1992-6/30/1993
U.S. Environmental Protection Agency, Human Exposure Research: Personal and Microenvironmental measurement and Modeling, Co-P.I.	9/1992-8/1995
Agency for Toxic Substance and Disease Registry (ATSDR), Proposal to establish a research program for exposure characterization, Co-P.I.	10/1/1992-9/30/1995
NIEHS Exploratory Research Grant, Dermal absorption of haloacetic acids from water, P.I.	11/25/1992-8/31/1993
American Petroleum Institute, Measurement of Automobile Cabin concentrations and estimates of Microenvironmental Exposure to Methyl-t-butyl Ether, Co-P.I.	4/1/1993-12/31/1993
New Jersey Department of Environmental Protection and Energy, Evaluation of the Existing Information on Exposure to Volatile Contaminants in Drinking Water, P.I..	11/1/1993-10/30/1994
NIOSH, Lead Solvents, Co-I.	9/1994-3/1998
National Institute of Occupational Safety and Health, Lead Solvents and Neurobehavior in Construction Workers, Co-I.	10/1994-12/1997
Veterans Administration, Persian Gulf Veterans, Co-I.	10/1994-9/1999
New Jersey DEP, Determination of Methylmercury Exposure in the New Jersey Pregnant Population and Investigations of Exposure Correlates, Co-P.I.	12/1994-6/1996
New Jersey DOH, Biological Monitoring of Chlorination By-Products: An Exposure Evaluation for a Case Control Study of Neural Tube Defects and Drinking Water Contaminants, P.I.	12/1994-3/1996
US Environmental Protection Agency, Development of an Exposure Assessment Short Course, P.I.	9/1996-6/1998
New Jersey DEP Ambient Ozone Levels and Adverse Health Effects in Asthmatics in New Jersey, P.I.	7/1997-12/1998
Mickey Leland National Urban Air Toxics Research Center, Contributions of Outdoor Sources to Indoor Concentrations and	12/1997-11/2001

Personal Exposure to Air Toxics, P.I.

US Environmental Protection Agency, Inhalation and Dermal Exposure to Disinfection By-Products of Chlorinated Drinking Water, P.I.	10/1997-9/2001
Exposure Assessment, Dover Township, Ocean County, NJ: Assessment of Cumulative Deposition, Co-I.	4/15/1998-3/31/2000
Health Effects Institute, Personal & Microenvironmental Measurements of Human Exposures to Multiple Aldehydes in Three Distinct Urban Areas, Co-I.	6/1/1998-5/31/2001
Health Effects Institute, (Sub-contract from Rutgers University) Contribution of Outdoor PM Sources to Indoor Concentrations and Personal Exposures: A Three - City Study P.I.	7/1/1998-12/31/2002
NIEHS, Modulation of Benzene Metabolism by Exposure to Environmental Mixtures, P.I.	9/1/1998-8/31/2002
RWJ Foundation Exploratory Grant, Optimization of a Telemedicine Tool for Collecting Data on Patient Visits to Physician Offices for Use in Epidemiological Studies, P.I.	1/1/2000-12/31/2000
New Jersey Department of Environmental Protection, ER Visits and Hospital Admissions of Asthmatics in NJ as Indicators of Ozone Exposure and Effectiveness of Environmental Controls on Ozone Precursors. P.I.	6/1/2000-5/31/2001
US EPA, Subcontract from Battelle Memorial Institute, Inhalation and Dermal Exposure to MTBE Breath Analysis, P.I.	9/2000-8/2001
Mickey Leland National Urban Air Toxics Research Center, Laboratory Analysis Support of: Personal Exposure to Volatile Organic Compounds Among a Subset of the Residential U.S. Population, P.I.	9/2000-12/2001
NJ DEP and Hoffmann LaRoche, Epidemiologic Study to Evaluate Air Pollutant Concentrations in Relation to Pediatric Asthma in Belvidere, Harmony and White Township, P.I.	2/2002-9/2003
ATSDR. Effect of source emissions on school absenteeism in three communities in Warren County, NJ, with high pediatric asthma rate. P.I.	9/2002-8/2005
American Chemistry Council. Diagnostic Evaluation & Refinement of Procedures for Modeling Exposures to VOCs. Co-I.	10/2003-9/2006
NJ DEP Development of Health-Based Indicators for Particulate Matter (PM) Interactions with Other Criteria Pollutants and Adverse Health Effects in NJ, P.I.	9/2003-12/2004
NJ DEP Investigation of Indoor Air Sources of VOC Contamination, P.I.	9/2003-8/2005

US EPA Assessment of the Contribution of Personal Exposure of Air Toxics from Mobile Sources, P.I.	10/2003 – 9/2004
Federal Aviation Administration Air Transportation Center for Airliner Cabin Environmental Research, P.I.	9/2004-8/2007
Meadowland Commission, Assessment of Baseline Quality of the Ambient Air in the Meadowlands District, Co-P.I.	9/2004-8/2007
NIOSH Solvent Exposure: Functional Imaging and Behavior, Co-I	2/2005-12/2008
Mickey Leland NUATRC Final Development of the Database and a Codebook for the RIOPA Study, P.I.	3/2005-12/2005
Federal Aviation Administration Exposure and Risks of Pesticides Used on Commercial Aircraft & Human Exposure to Ozone in Aircrafts: A Simulation, P.I.	4/2005-8/2007
New Jersey Department of Environmental Protection, Exposure and Health Assessment within the Community Surrounding the Martin Luther King/Jefferson School Construction Site, P.I.	6/2006-5/2007
NIEHS, National Children's Study, Co-I	9/2006-12/2011
Federal Aviation Administration, Exposure to Pesticides Used on Commercial Aircraft in Aircrafts P.I.	9/2007-12/2009
Federal Aviation Administration, Human Exposure to Ozone and its By-Products in Aircrafts: A Simulation, P.I.	9/2007-8/2009
Boeing Corporation, Evaluation of Chemicals that may Adversely Affect the Air Quality within an Aircraft and Cause Symptoms in Passengers and Crew During Extended Flights	4/2008-12/2009

A. Peer Reviewed Publications

1. Weisel, C. P. and J. L. Fasching, "Deceptive 'correct' separation by the linear learning machine," *Anal. Chem.* **49**, 2114-2116, 1977.
2. Piotrowicz, S. R., R. A. Duce, J. L. Fasching and C. P. Weisel, "Bursting bubbles and their effect on the sea-to-air transport of Fe, Cu and Zn," *Mar. Chem.*, **7**, 307-324, 1979.
3. Weisel, C. P., R. A. Duce and J. L. Fasching, "Determination of aluminum, lead and vanadium in North Atlantic seawater after coprecipitation with ferric hydroxide," *Anal. Chem.* **56**, 1050-1052, 1984.
4. Piotrowicz, S. R., G. R. Harvey, D. A. Boran, C. P. Weisel and M. Springer-Young, "Cadmium, copper and zinc interactions with marine humus as a function of ligand structure," *Mar. Chem.*, **14**, 333-346, 1984.
5. Harvey, G. R., D. A. Boran, S. R. Piotrowicz, and C. P. Weisel, "Synthesis of marine humic substances from unsaturated lipids," *Nature*, **309**, 244-246, 1984.
6. Weisel, C. P., R. A. Duce, J. L. Fasching, and R. W. Heaton, "The marine flux of trace metals

- to the atmosphere," J. Geophys. Res. 89, 11607-11618, 1985.
7. Jo, W. K., C. P. Weisel, and P. J. Lioy, "Routes of chloroform exposure and body burden from showering with chlorinated tap water," Risk Analysis, 10, 575-580, 1990.
 8. Jo, W. K., C. P. Weisel, and P. J. Lioy, "Chloroform exposure and the health risk associated with multiple uses of chlorinated tap water," Risk Analysis, 10, 581-585, 1990.
 9. Weisel, C.P., M. Demak, S. Marcus, and B.D. Goldstein, "Soft Plastic Bread Packaging: Lead Content and Reuse by Families," American Journal of Public Health, 81, 756-758, 1991.
 10. Weisel, C.P., N.J. Lawryk, and P.J. Lioy, "Exposures to emissions from gasoline within automobile cabins," Journal of Exposure Analysis and Environmental Epidemiology, 2, 79-96, 1992.
 11. Cody, R.P., C.P. Weisel, G. Birnbaum, and P.J. Lioy, "The effects of ozone associated with summertime photochemical smog on the frequency of asthma visits to hospital emergency departments," Environmental Research, 58, 184-194, 1992.
 12. Weisel, C.P., W.K. Jo, and P.J. Lioy, "Utilization of breath analysis for exposure and dose estimates of chloroform," Journal of Exposure Analysis and Environmental Epidemiology, 2 Suppl. 1, 55-69, 1992.
 13. Lioy, P.J., T. Wainman, and C.P. Weisel, "A Wipe Sampler for the Quantitative Measurement of Dust on Smooth Surfaces: Laboratory Performance Studies," Journal of Exposure Analysis and Environmental Epidemiology, 3, 315-329, 1993.
 14. Weisel, C.P. and W.J. Chen, "Exposure to Chlorination By-Products from Hot Water Uses," Risk Analysis, 14, 101-106, 1994.
 15. Bartczak, A., S.A. Kline, R. Yu, C.P. Weisel, W.E. Bechtold, B.D. Goldstein, and G. Witz, "Evaluation of assays for the identification and quantitation of muconic acid, a benzene metabolite in human urine," Journal of Toxicology and Environmental Health, 42, 245-258, 1994.
 16. Mohr, S.N., N. Fiedler, C. Weisel, and K.K. McNeil, "The health effects of MTBE among New Jersey garage workers," Inhalation Toxicology, 6, 533-562, 1994
 17. Lioy, P.J., C.P. Weisel, W.K. Jo, E. Pellizzari, and J.H. Raymer, "Microenvironmental and personal measurements of methyl-tertiary butyl ether (MTBE) associated with automobile use activities," Journal of Exposure Analysis and Environmental Epidemiology, 4 (4), 427-441, 1994
 18. Weisel, C.P., R.C. Cody, and P.J. Lioy, "Relationship between summertime ambient ozone levels and emergency department visits for asthma in central New Jersey," Environmental Health Perspectives, 103 (2), 97-102, 1995.
 19. Lawryk, N.J., P.J. Lioy, and C.P. Weisel, "Exposure to volatile organic compounds in the passenger compartment of automobiles during periods of normal and malfunctioning operation," Journal of Exposure Analysis and Environmental Epidemiology, 5 (4), 511-531, 1995.
 20. Berdouses, E., T.K. Vaidyanathan, A. Dastane, C. Weisel, M. Houpt, and Z. Shey, "Mercury release from dental amalgams: An *in vitro* study under controlled chewing and brushing in an artificial mouth," Journal of Dental Research, 74 (5), 1185-1193, 1995
 21. Adgate, J.L., C. Weisel, Y. Wang, G.G. Rhoads, and P.J. Lioy, "Lead in house dust: Relationships between exposure metrics," Environmental Research, 70, 134-147, 1995.
 22. Yu, R. and C.P. Weisel, "Measurement of the urinary benzene metabolite, trans, trans-muconic acid, from benzene exposure in humans," Journal of Toxicology and Environmental Health, 48, 453-477, 1996.
 23. Yu, R. and C.P. Weisel, "Measurement of benzene in human breath associated with an environmental exposure," Journal of Exposure Analysis and Environmental Epidemiology, 6 (3), 261-277, 1996.
 24. Lawryk, N.J. and C.P. Weisel, "Concentrations of volatile organic compounds in the passenger

- compartments of automobiles,” *Environmental Science & Technology*, 30 (3), 810-816, 1996.
25. Weisel, C.P. and W-K. Jo, “Ingestion, inhalation and dermal exposures to chloroform and trichloroethene from tap water.” *Environmental Health Perspectives*, 104 (1), 48- 51, 1996.
 26. Roy, A., C.P. Weisel, P.J. Liroy, and P.G. Georgopoulos, “A distributed parameter physiologically based pharmacokinetic model for dermal and inhalation exposure to volatile organic compounds,” *Journal of Risk Analysis*, 16 (2), 147-160, 1996.
 27. Roy, A., C.P. Weisel, M.A. Gallo, and P.G. Georgopoulos, “Studies of multiroute exposure/dose reconstruction using physiologically based pharmacokinetic models, *Toxicology and Industrial Health*, 12 (2), 153-163, 1996.
 28. Chien, Y-C, C.A. Feldman, H.K. Zohn, and C.P. Weisel, “Urinary mercury levels before and after amalgam restoration,” *The Science of the Total Environment*, 188, 39-47, 1996.
 29. Lansari, A., J.J. Streicher, A.H. Huber, G.H. Crescenti, R.B. Zweidinger, J.W. Duncan, and C.P. Weisel, “Dispersion of uncombusted auto fuel vapor within residential and attached garage microenvironments,” *Indoor Air Journal*, 6 (2), 118-126, 1996.
 30. Weisel, C., R. Yu, A. Roy, and P. Georgopoulos, Biomarkers of environmental benzene exposure,” *Environmental Health Perspectives*, 104 (Supplement 6), 1141-1146, 1996.
 31. Backer, L.C., G.M. Egeland, D.L. Ashley, N.J. Lawryk, C.P., Weisel, M.C. White, T. Bundy, E. Shortt, and J.P. Middaugh, “Exposure to Regular Gasoline and Ethanol Oxyfuel During Refueling in Alaska: Part I, Fairbanks,” *Environmental Health Perspective*, 105(8), 850-855, 1997.
 32. Cohen, N., H. Kehrl, B. Berglund, A. O’Leary, G. Ross, J. Seltzer, and C.P. Weisel, “Psychoneuroimmunology”, *Environmental Health Perspectives* 105 (Suppl 2) 527-529, 1997.
 33. Liroy, P.J., L-M Yiin, J. Adgate, C. Weisel, and G.G. Rhoads, “The Effectiveness of the CLEARs Home Cleaning Intervention in Reducing Dust Loading, and Lead Loading, and Concentration,” *Journal of Exposure Analysis and Environmental Epidemiology*, 8 (1), 17-35, 1998.
 34. Chen, W-J and C.P. Weisel, “Concentration changes of halogenated disinfection by-products in a drinking water distribution system,” *Journal of American Water Works Association*, 90 (4), 151-163, 1998.
 35. Lee, C-W and C.P. Weisel, “Determination of methyl tert-butyl ether and tert-butyl alcohol in human urine by high temperature purge-and-trap gas chromatography-mass spectrometry,” *Journal of Analytical Toxicology*, 22 (1), 1-5, 1998.
 36. Kim, H.K. and C.P. Weisel, “Dermal absorption of dichloro-and trichloroacetic acids from chlorinated water,” *Journal of Exposure Analysis and Environmental Epidemiology*, 8 (4), 555-575, 1998.
 37. Weisel, C.P., H. Kim, P. Haltmeier, and J.B. Klotz, “Exposure estimates to disinfection by-products of chlorinated drinking water,” *Environmental Health Perspectives*, 107 (2), 3-10, 1999.
 38. Kim, H., P. Haltmeier, J.B. Klotz, and C.P. Weisel, “Evaluation of biomarkers of environmental exposures: urinary haloacetic acids associated with ingestion of chlorinated drinking water,” *Environmental Research Section A* 80, 187-195, 1999.
 39. Rhoads, G.G., A.S. Ettinger, C.P. Weisel, T.J. Buckley, K.D. Goldman, J. Adgate, and P.J. Liroy, “The effect of dust lead control on blood lead in toddlers: a randomized trial,” *Pediatrics* 103 (3), 551-555, 1999.
 40. Rich, D.Q., L-M. Yiin, G.G. Rhoads, D.H. Glueck, C.P. Weisel, and P.J. Liroy, “A field comparison of two methods for sampling lead in household dust,” *Journal of Exposure Analysis and Environmental Epidemiology*, 9 (2), 106-112, 1999.

41. Vayghani Alimokhtari, S. and C.P. Weisel, "The MTBE air concentrations in the cabin of automobiles while fueling," *Journal of Exposure Analysis and Environmental Epidemiology*, 9 (3), 261-267, 1999.
42. Mansour, H., M. Robson, R. Meyer, and C.P. Weisel. Potential Impact of chlorination of sandy bottom swimming areas on drinking water sources," *Intern. J. Environ. Studies*, 56, 653-665, 1999.
43. Tsai, P-Y., and C.P. Weisel, "Penetration of evaporative emissions into a home from an M85 fueled vehicle parked in an attached garage," *Journal of Air and Waste Management Association*, 50, 371-377, 2000.
44. Fiedler, N, K. Kelly-McNeil, S. Mohr, P. Lehrer, R. Opiekun, C.W. Lee, T. Wainman, R. Hamer, C.P. Weisel, R. Edelber, and P.J. Lioy, "Controlled Human Exposure to Methyl Tertiary Butyl Ether in Gasoline: Symptoms, Psychophysiological and Neurobehavioral Response of Self-Reported Sensitives" *Environmental Health Perspectives*, 108, 753-763, 2000.
45. Stern, A.L. M. Gochfeld, C.P. Weisel, and J. Burger, "Mercury and Methyl Mercury Exposure in New Jersey Pregnant Population" *Archives in Environmental Health*, 56(1)4-10, 2001.
46. Lee, C.W., S. Mohr, and C.P. Weisel, "Toxicokinetics of Human Exposure to Methyl Tert-Butyl Ether (MTBE) following Short Term Controlled Exposures," *Journal of Exposure Analysis and Environmental Epidemiology*, 11 (2), 67-78, 2001.
47. Arbuckle, T.E., S.E. Hrudey, S.W. Krasner, J.R. Nuckols, S.D. Richardson, P. Singer, P. Mendola, L. Dodds, C.P. Weisel, D.L. Ashley, K.L. Froese, R.A. Pegram, I.R. Schultz, J. Reif, A.M. Bachand, F.M. Benoit, M. Lynberg, C. Poole, K. Waller, "Assessing Exposure in Epidemiologic Studies to Disinfection By-Products in Drinking Water: Report From An International Workshop", *Environmental Health Perspectives*, 110 (1), 53-60, 2002.
48. Weisel, C.P., R.P. Cody, P.G. Georgopoulos, V. Purushothaman, S.H. Weiss, L. Bielory, P. Gregory, and A.H. Stern, "Concepts in Developing Health-Based Indicators for Ozone", *International Archives of Environmental Health*, 75 (6), 415-422, 2002.
49. Weisel, C.P. "Assessing Exposure to Air Toxics Relative to Asthma", *Environmental Health Perspectives*, 110, Supplement 4, 527-537, 2002.
50. Naumova, Y.Y. S.J. Eisenreich, B.J. Turpin, C.P. Weisel, M.T. Morandi, S.D. Colome, L.A. Totten, T.H. Stock, A.M. Winer, S. Alimokhtari, J. Kwon, D. Shendell, J. Jones, S. Maberti, and S.J. Wall "Polycyclic Aromatic Hydrocarbons in the Indoor and Outdoor Air of Three Cities in the U.S." *Environmental Science and Technology* 36 (10)2552 - 2559 2002.
51. Lioy, P.J., Weisel, C.P., J.R. Millette, S. Eisenreich, D. Vallero, J. Offenber, B. Buckley, B. Turpin, M. Zhong, M.D. Cohen, C. Prophete, I. Yang, R. Stiles, G. Chee, W. Johnson, R. Porcja, S. Alimokhtari, R.C. Hale, C. Weschler, and L.C. Chen "Characterization of the Dust/Smoke Aerosol that Settled East of the World Trade Center (WTC) in Lower Manhattan after the Collapse of the WTC 11 September 2001" *Environmental Health Perspectives*, 110 (7) 703-714, 2002.
52. Xu, X., Mariano, T., Laskin, J. and Weisel, C.P "Percutaneous Absorption of Trihalomethanes, Haloacetic Acids and Haloketones" *Toxicology and Applied Pharmacology*, 184 19-26, 2002.
53. Offenber, J.H., Eisenreich, S. J. Chen, L. C., Cohen, M.D., Chee, G., Prophete, C., Weisel, C., Lioy, P.J. "Persistent Organic Pollutants in the Dusts that Settled Across Lower Manhattan After September 11, 2001." *Environmental Science and Technology*, 37 502-508, 2003.
54. Naumova, Y.Y., Offenber, J.H., Eisenreich, S.J., Meng, Q., Polidori, A., Turpin, B.J., Weisel, C.P., Morandi, M.T., Colome, S.D., Stock, T.H., Winer, A.M., Alimokhtari, S., Kwon, J., Maberti, S., Shendell, D., Jones, J., Farrar, C. "Gas/Particle Distribution of Polycyclic Aromatic Hydrocarbons in Coupled Outdoor/Indoor Atmospheres." *Atmospheric Environment* 37 703-719, 2003.
55. Xu, X., Weisel, C. "Inhalation Exposure to Haloacetic Acids and Haloketones during

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79. "Inclusion of Exposure Analysis in Land Development Projects" with PJ Liroy and PG Georgopoulos at the International Society of Exposure Analysis 2005 Annual Meeting (October 30-November 2, 2005), Tucson, AZ
80. "Role of the Field of Exposure Science in Environmental Science" at the International Symposium of Process and Energy, 60th Anniversary Kyongpook National University, (February 28, 2006) Kyongpook, South Korea
81. "Low-Levels SO₂ Effects in Childhood Asthmatics, presented by A. Tasslimi with SH Weiss, DM Rosenblum at the Congress of Epidemiology (June 21-24, 2006) Seattle, WA
82. "New Human Exposure Research; State-of-Knowledge on Inhalation/Dermal/Ingestion Routes of Exposure" presented at the Gordon Research Conference on Drinking Water Disinfection By-Products, Integrating Occurrence and Formation, Exposure, Toxicity, and Epidemiology, August 13-18, 2006
83. Fan, Z ; Meng, Q; Weisel, C; Shalat, S; Laumbach, R; Ohman-Strickland, P; Black, K; Rodriguez, M; Bonanno, L "Acute Short-Term Exposures to PM_{2.5} Generated by Vehicular Emissions and Cardiopulmonary Effects in Older Adults." Epidemiology. 17(6) Suppl:S213-S214, November 2006.
84. "Organic Solvent Exposure Level among Bridge Painters in New York City and New Jersey", with H. Qian, S. Wang and N. Fiedler at the at the International Society of Exposure Analysis 2007 Annual Meeting (October 14-18, 2007), Durham, NC
85. "Overview of Research on Multipathway Exposure to Volatile Chemicals in Tap Water", presented at the at the International Society of Exposure Analysis 2007 Annual Meeting (October 14-18, 2007), Durham, NC
86. "Exposure to Ambient Fine Particulate Matter (PM_{2.5}): Insights Relevant to PM Epidemiology", with B. Turpin, Q. Meng, A. Polidori, A. Reff, Y. Naumova, J. Zhang, M Morandi, T. Stock, S. Colome and A. Winer at the at the International Society of Exposure Analysis 2007 Annual Meeting (October 14-18, 2007), Durham, NC
87. "Analytical Challenges in Measuring Pesticide Concentration and Human Exposure Inside Disinsected Commercial Airlines", with K. Mohan at the, 2007 Eastern Analytical Symposium & Exposition, (November 12-15, 2007) Somerset, NJ
88. "Exposure Science: Linking the Environment to Health" Technion University, Haifa Israel, January 22, 2009.
89. "Single Nucleotide Polymorphisms (SNPs) in Metabolic Enzymes and their Influence on Neurobehavioral Response to Chronic Solvent Exposure, with Hua Qian, Junyan Hong, Shengwei Wang, Nancy Fiedler at the 48th Annual Society of Toxicology Meeting (March 15–19, 2009) Baltimore, MD
90. "Effects On Cognitive Ability From Chronic Exposure To Solvent Based-Paint" with Hua Qian, Sheng-Wei Wang, Dirk Moore, Chizoba Nwankwo, Steve Yanger, Howard Kipen and Nancy Fiedler at the International Neurotoxicology Association 12th Biennial Meeting, (June 7-12, 2009) Jerusalem

Letters to the Editor and Editorials:

1. Karagas MR. Villanueva CM. Nieuwenhuijsen M. Weisel CP. Cantor KP. Kogevinas M. Disinfection byproducts in drinking water and skin cancer? A hypothesis. Cancer Causes & Control. 19(5):547-8, 2008.
2. Liroy, PJ and Weisel, CP Artificial turf: safe or out on ball fields around the world J Expo Sci

Environ Epidemiol 18: 533-534, 2008.

Conference Session Chair/Organizer:

1. "Staten Island/New Jersey Urban Air Toxics Assessment Project" at the 1991 US EPA/AWMA International Symposium on Measurements of Toxic and Related Air Pollutants, Conference Chair, Durham, NC, May 1991.
2. "Measurements of Exposures" at the First Annual Meeting of the International Society for Exposure Analysis: Measuring, Understanding and Predicting Exposures in the 21st Century, Conference Chair, Atlanta, GA, November 1991.
3. "Dose Reconstruction" at the International Congress on the Health Effects of Hazardous Waste, Conference Chair, Atlanta, GA, May 1993.
4. "Impact on Human and Ecological Health" at the International Congress on Hazardous Waste, Member Conference Steering Committee, Atlanta, GA, June 1995.
5. "Benzene 95" at the International Conference on the Toxicity, Carcinogenesis and Epidemiology of Benzene, Member Organizing Committee, Piscataway, NJ, June 1995.
6. "Multimedia Exposure-Issues, Needs and Advances" at the 7th International Society of Exposure Analysis, Session Chair, Research Triangle Park, NC, November 1997.
7. "Volatile Organic Air Pollutions" at the International Society of Environmental Epidemiologist/International Society of Exposure Analysis Joint Conference, Session Chair, Boston, MA, August, 1998.
8. "The Relationship of Indoor Outdoor and Personal Air (RIOPA) Study," International Society of Environmental Epidemiologist/International Society of Exposure Analysis Joint Conference, Session Chair, Athens, Greece, September 1999.
9. "Biomarkers of Exposures" at the Exposure Assessment for Disinfection By-Products in Epidemiologic Studies, Session Chair, Ottawa, Canada, May, 2000.
10. "Exposure Medium - Water" at the International Society of Exposure Analysis, Session Chair, Charleston, SC, November, 2001.
11. "Exposure and Health Interface." at the International Society of Exposure Analysis, Session Chair, Philadelphia, PA October, 2004
12. "Biomonitoring Methods Development" at the International Society of Exposure Analysis, Session Chair, Philadelphia, PA October, 2004
13. "Advancing the Science: Childhood Asthma and Environmental Exposures at Swimming Pools" Workshop Co-Chair, Leuven, Belgium, August 22-23, 2007

Ph.D. Students - Major Advisor

1. Wei Jie Chen, Environmental Sciences, "Changes of Trihalomethanes and Haloacetic Acids in Water Distribution System," June 1993.
2. Nicholas Lawryk, Program in Public Health, "Automobile Commuter Exposures to Volatile Organic Compounds in the New Jersey/New York Metropolitan Area," May 1994.
3. Ryun Yu, Environmental Sciences, "Measurement of Partitioning of Benzene Metabolites and Benzene in Exhaled Breath from Benzene Exposure," 1994.
4. Yeh-Chung Chien, Environmental Sciences, "The Influence of Exposure Pattern and Duration on Elimination Kinetics and Exposure Assessment of Tetrachloroethylene In Humans," January 1997.
5. Hekap Kim, Environmental Sciences, "Human Exposure to Dichloroacetic Acid and Trichloroacetic Acid from Chlorinated Water During Household Use and Swimming," October 1997.
6. Chia-Wei Lee, Environmental Sciences, "Biomonitoring of Human Exposure to Methyl Tertiary Butyl Ether Following Controlled Exposures Using Alveolar Breath, Blood and Urine Analyses," June 1999.
7. Pei-Yu Tsai, Environmental Sciences, "Methanol Exposure From An M85 Fueled Vehicle Parked In An Attached Garage", May 2000.
8. Xu Xu, Environmental Sciences "Dermal and Inhalation Exposure to Disinfection By-Products in Drinking Water". October, 2002.
9. Jaymin Kwon, Environmental Sciences " Development of RIOPA Database and Evaluation of Effect of Proximity on the Potential Residential Exposure of Ambient VOC Sources", January 2005
10. Maria Trabaris, Environmental Sciences 2009
11. Hsu Qian, Exposure Assessment
12. Binnian Wei, Exposure Assessment

M.S. Students - Major Advisor

1. Darlene Burns, Environmental Science Thesis: "Bread Bag Analysis: An Investigation of Metals Exposure," 1992
2. Shahnaz Alimokhtari, Environmental Sciences Thesis: "Impacts of Car, Meteorological and Fueling Conditions On In Cabin MTBE Concentrations While Fueling," 1997
3. Eric Lazarus, Environmental Sciences Thesis: "Determination of Effects Caused by Ozone, Humidity and Potassium Iodide Ozone Traps on Atmospheric Carbonyl Collection by C₁₈ and Silica Gel Sep-Paks," 1999

M.P.H. Students - Advisor

1. Natalia Stakhiv, 1993
2. Hisham Mansour, 1996

Ph.D. Students - Committee Member

1. Wan Kuen Jo, Environmental Sciences, 1990
2. Jung-Len Lwo, Environmental Sciences, 1992
3. Mark Methner, Environmental Sciences, 1992
4. Robert Hague, Environmental Sciences, 1993
5. Vicki Kitsa, Environmental Sciences, 1994
6. Zheng Ouyang, Environmental Sciences
7. Zungfeng Zhang, Environmental Sciences, 1994
8. Daphne Norwood, Environmental Sciences

9. Eugene Wang, Environmental Sciences, 1994
10. John Adgate, Graduate Program Public Health, 1996
11. Michael Ancott, Environmental Sciences, 1997
12. Stephanie Hamel, Environmental Sciences, 1998
13. Rufus Edwards, Environmental Sciences, 1999
14. Vinitha Purushothaman, Chemical Engineering, 1999
15. Qingyu Meng, Environmental Sciences, 2004
16. Weili Liu, Environmental Sciences 2005
17. Chang Ho Yu, Exposure Assessment 2005
18. Kyung Hwa Jung, Exposure Assessment 2006
19. Yuching Yang, Exposure Assessment 2006
20. Jingfen Han, Exposure Assessment 2007
21. Sylvia Brown, School of Public Health 2008
22. Xiangmei Wu, Exposure Assessment 2009
23. Ambarian Faiz, School of Public Health

M.S. Students - Committee Member

1. Elias Berdouses, New Jersey Dental School, 1992
2. John Lesky, Environmental Sciences, 1992
3. Yeh Chung Chien, Environmental Sciences, 1992
4. Jaymin Kwon, Environmental Sciences, 1999
5. Tara Proetta, Environmental Sciences, 2000

Other Student Advising

- Mentor for Liberty Science High School Student 1991, 1992, 1993, 1997, 1999, 2000, 2001, 2003
- Mentor for American Chemical Society Project SEED High School Student 1993, 1998
- Mentor for UMDNJ/RWJMS Special Academic Programs for Biomedical
- Graduate Science Careers Program, 1998