

Joann L. Held  
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EDUCATION: 9/69 to 5/71 MacMurray College  
Jacksonville, IL  
8/71 to 5/73 St. Louis University  
St. Louis, MO  
B.S. Meteorology  
9/76 to 6/78 Harvard School of Public Health  
Boston, MA  
M.S. Air Pollution Control

HONORS: member of Phi Beta Kappa (1973)  
NESCAUM Merit Award (1991 & 2005)  
STAPPA/ALAPCO Meritorious Service Award (1994)  
A&WMA Griswold Award (2005)

SCIENTIFIC ORGANIZATIONS: Air and Waste Management Association  
American Meteorological Society  
International Society of Exposure Science  
Society for Risk Analysis

WORK EXPERIENCE:

6/73 to 6/76 - Geophysical Fluid Dynamics Laboratory, Princeton, NJ.  
Assisted senior scientists in running ocean circulation models and doing spectral analysis of ocean data.

6/77 to 8/77 - National Center for Atmospheric Research, Boulder, CO.  
Summer fellow in scientific computing.

1/78 to 6/78 - Harvard School of Public Health, Boston, MA.  
Teaching assistant for air pollution meteorology course.

9/78 to 4/79 - Center for Coastal and Environmental Studies, Rutgers University, New Brunswick, NJ. Coordinated project to investigate the cost of air pollution control in New Jersey. Responsible for developing methodology for estimating cost to industry to comply with state air pollution control rules.

4/79 to 11/05 – New Jersey Department of Environmental Protection, Trenton, NJ.  
Developed analytical expertise for use in evaluating new sources which could affect air quality in New Jersey. Coordinated the development of the NJDEP air toxics program.

Developed Risk Assessments tools for evaluating new and modified sources of toxic substances. Coordinated NJDEP implementation of Title III of the Clean Air Act (Air Toxics). Developed air toxics emissions inventory capabilities. Analyzed and summarized results of the USEPA Cumulative Exposure Project (CEP) and the National Air Toxics Assessment (NATA).

#### OTHER ACTIVITIES while at NJDEP

- NJDEP Air Toxics Steering Committee – Chair (1987 to 2005)
- NJDEP Air Quality Risk Management Committee – member & coordinator
- NESCAUM – Air Quality and Public Health Committee – founding member
- MARAMA Air Toxics Committee
- STAPPA/ALAPCO Air Toxics Committee – Chair of Risk Assessment Subcommittee (1992-94)
- Chief, Bureau of Air Quality Evaluation (November 1991 to November 2005)
- NJDEP Mercury Workgroup – Co-chair (1996 to 2005)
- NJDEP Strategic Planning Group – Air Quality Representative (1997-1998)
- Camden Waterfront South Air Toxics Pilot Project – Project Manager (May 2002 to August 2005)
- EPA PEER REVIEWS
  - Hg Report to Congress (January 1995)
  - Utility Study Report to Congress (July 1996)
  - Urban Air Toxics HAPS Prioritization (January 1998)
  - Framework for Cumulative Risk Assessment (June 2002)

4/06 to Present – NESCAUM, Boston, MA (part-time).

Provide technical support for Air Toxics and Public Health Committee, teach short courses for State Agency Staff, and consultant for the Waterfront South Community Collaborative to Reduce Particulate Matter.

#### OTHER CURRENT ACTIVITIES

- Camden Waterfront South Science Advisory Board
- New Jersey Environmental Justice Advisory Committee
- Pennington Borough Environmental Commission
- Hopewell Valley Green Net Facilitator (Climate Change Workgroup)

#### PUBLICATIONS:

Stegen, GR, K Bryan, JL Held, and F Ostapoff, 1975, Dropped Horizontal Coherence Based on Temperature Profiles in the Upper Thermocline. J. of Geophysical Research, 80, 3841-3847.

Held, JL, 1978, Sulfate Aerosol Formation and Growth: A Sensitivity Study and a Plume Model. NCAR Technical Notes, TN-129, 103-127.

Held, JL and DW Cooper, 1979, Theoretical Investigation of the Effects of Relative Humidity on Aerosol Respirable Fraction. *Atmospheric Environment*, 13, 1419-1425.

Held, JL, 1983, Development of Waste Oil Regulations in New Jersey. 76th Annual Meeting of the APCA, 83-50.5.

Held, JL and R Harkov, 1986, Present Applications of the TLV Approach to Setting State Guidelines and Standards: Consistencies and Problems. 79th Annual Meeting of the APCA, 86-72.3.

Held, JL, 1987, The Role of Risk Management in the New Jersey Department of Environmental Protection Air Pollution Control Permit Process. MASS-APCA 33rd Anniversary Conference: Air Pollutants from Incineration and Resource Recovery; Atlantic City, November 1987.

Held, JL, AJ Opperman, and J Laznow, 1988, Maturing of New Jersey's Air Toxics Program. 81st Annual Meeting of the APCA, 88-113.5.

Held, JL, 1989, Potential Risk Posed by Hospital Incinerators in New Jersey. In Proceedings: National Workshops on Hospital Waste Incineration and Hospital Sterilization, EPA-450/4-89-002

Held, JL and RL Langbein, 1990, New Jersey's New Pilot Plant Permit Procedure. 83rd Annual Meeting of the A&WMA, 90-160.2.

Held, JL and O Boyko, 1991, New Jersey Risk Assessment Guidelines for Resource Recovery Facilities. 84th Annual Meeting of the A&WMA, 91-132.6.

Greenberg, A, JP Butler, JL Held, and JM Waldman, 1991, Design of an Environmental Monitoring Study at a Resource Recovery Facility in New Jersey. 84th Annual Meeting of the A&WMA, 91-132.3.

Nessel, CS, JP Butler, GB Post, JL Held, M Gochfeld, and MA Gallo, 1991, Evaluation of the Relative Contribution of Exposure Routes in a Health Risk Assessment of Dioxin Emissions from a Municipal Waste Incinerator. *J. of Exposure Analysis and Environmental Epidemiology*, 1, 283-307.

Greenberg, A, HW Chen, I Wojtenko, S Krivanek, NM Reiss, J Butler, and JL Held, 1992, Mercury in Air and Rainwater in the Vicinity of a Municipal Resource Recovery Facility in Western New Jersey. A&WMA Conference on Air Toxics Measurement, Raleigh, NC.

NJDEP, 1993, Final Report on Municipal Solid Waste Incineration, Volume II: Environmental and Health Issues, July 1993. (Editor)

Held, JL, O Boyko and L Jones, 2001, A Comprehensive Look At Air Toxics Exposures In New Jersey Using New Tools From USEPA. 94th Annual Meeting of the A&WMA, 94-926.

Mayes, P and Held, JL, 2002, An Assessment of Air Toxic Concentrations and Associated Health Risks Across New Jersey Using NATA. 95th Annual Meeting of the A&WMA, 95-41909.

Zhu, Fan, Wu, Meng, Wang, Tang, Ohman-Strickland, Georgopoulos, Zhang, Bonanno, Held and Liroy, 2008, Spatial Variation of Volatile Organic Compounds in a "Hot Spot" for Air Pollution. *Atmospheric Environment*, 42, 7329-7338.