

SHARON M. WEBER
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E D U C A T I O N

Tufts University

Medford, MA

May 1999

Joint Master of Science degree from the Departments of Civil and Environmental Engineering and Urban and Environmental Policy. Master's thesis: "Selection of a Mercury Emissions Monitor: The Analytic Hierarchy Decision Process."

Massachusetts Institute of Technology

Cambridge, MA

May 1988

Bachelor of Science degree from the Department of Materials Science and Engineering.

E X P E R I E N C E

Massachusetts Department of Environmental Protection (MassDEP)

Boston, MA

Deputy Director, Air and Climate Programs

December 2013-present

- Over 25 years of experience with MassDEP, managing numerous grant programs including \$75 million in Volkswagen Diesel Mitigation Settlement funds, annual United States Environmental Protection Agency (EPA) state Diesel Emissions Reduction Act (DERA) grants, and the Massachusetts Electric Vehicle Incentive Program (MassEVIP) for grants for charging stations for public and private entities and light-and medium-duty vehicles for public entities.
- Manage MassDEP's implementation of California's Low Emission Vehicle, Zero Emission Vehicle, Advanced Clean Cars, Advanced Clean Trucks and Heavy-duty Omnibus programs.
- Serve as a Councilor on the Energy Efficiency Advisory Council (EEAC) that guides Massachusetts' nation-leading statewide energy efficiency program, ensuring that MassDEP priorities are addressed.
- Contribute to development of MassDEP greenhouse gas (GHG) emissions reporting and mitigation regulations; coordinate with internal and external stakeholders such as the Global Warming Solutions Act (GWSA) Implementation Advisory Committee.
- Oversaw procurement of a new contractor for the Massachusetts Vehicle Inspection and Maintenance Program, and serve as Contract Officer for the implementation of the emissions component of the program, ensuring coordination with the Massachusetts Department of Transportation (MassDOT)/Registry of Motor Vehicles and production of required EPA reports.
- Oversee the Massachusetts GHG Emissions Inventory, required under GWSA, and manage annual GHG reporting by utilities, competitive retail electricity sellers and municipal electric utilities.
- Manage review and issuance of five-year renewals of the MassDOT Central Artery/Tunnel Project Operating Certification under MassDEP's Tunnel Ventilation certification regulation.
- Oversaw update to Massachusetts Diesel Emissions Inventory.
- Oversaw completion of revised Municipal Waste Combustor and Volatile Organic Compound Reasonably Available Control Technology regulations for stationary sources.
- Lead a staff of 15, including performance reviews, ensuring adherence to policies, mentoring and coaching, hiring, and providing direction on completion of needed work products.

Boston, MA

Senior Technical Advisor, Commissioner's Office

March 2006-December 2013

- Served as the "Air Regulatory Task Force Leader" managing promulgation of a number of air quality regulations.
- Coordinated an interagency Clean Energy Center-DOER-DPU-MassDEP contract with Synapse Energy Economics to assess options, effectiveness, costs and benefits of a Massachusetts Clean Energy Performance Standard.
- Supported MassDEP's representatives on the Massachusetts EEAC to improve the efficient use of energy in Massachusetts homes and businesses.
- Coordinated selection of the winning bidder for \$1.8M GWSA Technical Consultant contract to develop the Massachusetts Clean Energy and Climate Plan for 2020, scheduled interviews, created selection criteria, revised request for responses; worked with team that drafted RFR, conducted interviews, responded to questions from the bidders' conference, and reviewed and approved work products.
- Managed the Massachusetts GHG Emissions Inventory, required under GWSA, and managed annual GHG reporting by utilities, competitive retail electricity sellers and municipal electric utilities, encouraging them to seek credit for use of renewable technologies (solar, wind).
- One of the creators of and lead New England air regulator managing incorporation of emissions in the ISO New England electricity certificate tracking system (the Generation Information System), used to demonstrate compliance with MA's renewable, clean and alternative energy portfolio standard.
- Applied for and obtained equipment under a Department of Homeland Security grant for handheld FirstDefender and ambient chemical monitoring equipment.
- Led multi-Bureau, multi-Region effort to assess use of tablets and related software through mobileDEP.
- Received MassDEP Performance Recognition Program awards:
 - 2008 as part of the Air Permitting Team that identified the most commonly issued permits and recommended streamlining and clarification of related regulatory and application provisions.
 - 2009 as part of the team that specified and acquired the Field Assessment and Support Team (FAST) vehicle, enabling MassDEP to determine site safety in real time at hazardous waste spills.

Boston, MA

Acting Chief, Transportation Management Programs Branch, Consumer and Transportation Division,
Bureau of Waste Prevention

February 2005-March 2006

- Supervised 4 staff, with responsibility for implementing the Low Emission Vehicle program, the Ride Share program, oversight of the Central Artery tunnel ventilation certification regulation, and transportation input to the Massachusetts Environmental Policy Act (MEPA) process.
- Oversaw regulation packages, ensuring all required state and federal procedures were followed, and briefing management.
- Coordinated response to public correspondence on transportation issues.
- Managed Diesel Inventory project, writing work plan and guiding work to final report.
- Tracked federal developments in controlling power plant mercury emissions.
- Assisted in implementing MassDEP's Emissions Standards for Power Plants regulation, coordinating incorporation of mercury emission caps in facility approvals and shepherding carbon dioxide provisions toward implementation.
- Served as carbon dioxide monitoring expert for the Regional Greenhouse Gas Initiative.

Lawrence, MA

Supervisor, Source Monitoring Section, Air Assessment Branch, Planning and Evaluation
Division, Bureau of Waste Prevention

January 1999-February 2005

Environmental Engineer, Quality Assurance Section

December 1997-December 1998

- Supervised a staff person beginning 2001, directing implementation of MassDEP's nitrogen dioxides (NOx) emissions reduction programs for power plants.
- Led development of mercury standards for MassDEP's Emissions Standards for Power Plants regulation.
- Assisted in developing Emissions Standards for Power Plants regulation, including supporting public hearings and contributing to Technical Support and Response to Comment Documents.
- Coordinated NOx Budget Program enforcement actions with appropriate MassDEP Region and MA Attorney General's Office.
- Assisted development and lead implementation of MassDEP NOx power plant regulation responding to EPA's NOx State Implementation Plan call and MA's Ozone Transport Commission commitments.
- Provided input to the Central Artery on monitoring emissions as required by MassDEP's Tunnel Ventilation certification regulation.
- Reviewed emissions monitoring plans and monitoring certifications and drafted approval letters for MA's implementation of the NOx Budget program.
- Observed over 5 dozen stack tests, for certification and ongoing quality assurance of monitoring systems at Acid Rain and NOx Budget facilities, including commenting on test protocols and reviewing submitted results.
- Provided power plant emission monitoring test observation and data utilization training to MassDEP staff.

Vanasse Hangen Brustlin

Watertown, MA

Environmental Technician

March 1993-May 1994

- Performed air pollutant emission modeling from mobile sources for microscale (carbon monoxide) and mesoscale (volatile organic carbon, VOC, NOx, and carbon monoxide) air quality analyses, using EPA emission factor models in support of EISs, EIRs, State Implementation Plan Inventories and Conformity Analyses for Transportation Improvement Programs.
- Conducted noise level measurements in the field, and used the data in FHWA's Stamina 2.0 Traffic Noise Prediction Model to determine the need for roadside noise barriers.

Tufts University, Department of Civil and Environmental Engineering

Medford, MA

Research Assistant

July 1992-December 1992

- Evaluated groundwater monitoring equipment for ability to detect contaminants in soils using fiber optic laser-induced fluorescence. Various soils, chemical concentrations, and sample holder configurations were assessed.

Digital Equipment Corporation, Material & Technology Analysis Lab

Northboro, MA

Lab Analysis Engineer, Analytical Chemistry Group

September 1988-July 1992

- Managed research project on UV-sensitive polymers.
- Performed and developed analytical methods, documented and presented findings, coordinated work, and recommended purchases in the areas of Thermal Analysis, X-Ray Diffraction, and X-Ray Fluorescence in order to determine properties and appropriate processing of device wafers, printed wiring boards, epoxies, solders, and plastics.
- Developed and implemented a company-wide Thermal Mechanical Analysis procedure.
- Compiled, maintained, and documented an on-line laboratory chemical database.
- Designed and oversaw construction of a new Thermal Analysis Lab.
- Coordinated analysis of plating thickness and composition determination to ascertain vendor conformance to specification.

- Member of Lab Emergency Response Team, ensuring safe storage, use and disposal of chemicals and samples.

P R O F E S S I O N A L D E V E L O P M E N T

- Registered as an Engineer in Training (EIT) in Massachusetts, Certificate No. 013071.
- Member, Society of Women Engineers.
- Member, Air & Waste Management Association.
- Member of the Board of New England Section of the Air and Waste Management Association, fall 2016-present; Treasurer fall 2017-present.