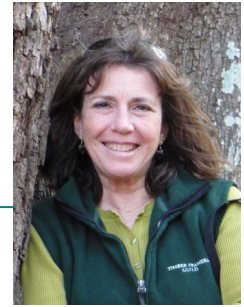


# Elizabeth McPherson

## Sustainable Building Planning Consultant/LEED AP

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### Education

Bachelor of Science, Engineering Science and Mechanics (Environmental Engineering option), University of Tennessee, 1984

Bachelor of Arts, English, University of Tennessee, 1975

### General Experience

Founded McPherson Environmental Resources (MER, Inc.) in 1993 after over ten years experience in direct or indirect support of environmental programs and initiatives funded by U. S. Department of Energy (DOE) Oak Ridge Operations (ORO) and DOE Offices of Defense Programs (DP) and Environmental Management (EM).

For the next ten years, led MER in the support of DOE DP's Complex-Wide Pollution Prevention Program to include the development and production of regulatory training, technology transfer workshops, newsletters and other technical publications.

With degrees in English and Engineering as well as four years experience as a construction worker, is well suited as a LEED Accredited Professional to work currently as a consultant to designers and builders toward the incorporation of sustainable design and construction practices into the built environment.

### Relevant Experience

#### **Sustainable Building Planning Consultant/LEED AP, McPherson Environmental Resources, 2004-2010**

- Assists in development of sustainable building approaches for new construction projects and existing building renovations. Works with designers, engineers, general contractors and materials suppliers in integrating the LEED process into routine design and construction practices and schedules.
- Facilitates design planning charrettes and integration of requirements for targeted LEED points into credit-related specifications.
- Provides basic LEED awareness training, Construction Waste Management plans, Indoor Air Quality Plans, and other general administrative and organizational work relative to the LEED building certification process.
- Conducts research and reports on locally available and environmentally preferable materials for integration into LEED compliance plans, collects and verifies information supplied by subcontractors and/or general contractors.
- Coordinates among all design team members and/or contractor employees and subcontractors to assure submittals are timely and accurate. Manages, tracks, and maintains LEED documentation for respective client.
- Current Projects: Armed Forces Reserve Center, Mt. Carmel, TN; Gilliam Wellness Center, Milligan, TN; Tanasi Arts and Heritage Center, Unicoi, TN; Elizabethton Fire Station #1, Elizabethton; City Hall, Elizabethton, TN; Appalachia America Energy Research Project, Wise, VA.

#### **Senior Environmental Engineer, McPherson Environmental Resources, Inc. (DOE prime contract holder 1993-2003) and Systematic Management Services, Inc. (1992-1993)—Environmental Safety and Health Support to U.S. Department of Energy, Washington, D.C**

- Provided technical support to Department of Energy (DOE) Defense Programs' (DP) Pollution Prevention/Waste Minimization Program. Wrote, delivered, commented, reviewed, and responded to papers relative to this program. Coordinated DP's Pollution Prevention Workshops and developed other channels of technology transfer among DP entities.
- Member of Pollution Prevention Training Team that presented to DOE and contractor senior management at National Laboratories and defense plants. Assisted in development of manual for the above training, and developed benchmarking activity to assess and compare "lessons learned" in private industry to DP's experience gained through pollution prevention activities within the DOE system. Partnering with Concurrent Communications, Ms. McPherson's company, MER, edited and published DP's monthly newsletter, the Pollution Prevention Advisor, later renamed ESAVE.

#### **Project Manager, Radian Corporation—under contract to U.S. Department of Energy, Oak Ridge Field Office, Environmental Restoration Program, Oak Ridge, Tennessee, 1990-1992**

- Managed various projects in the DOE Oak Ridge Reservation Environmental Restoration Program including portions of the East Fork Poplar Creek Resource Conservation and Recovery Act Facility Investigation and Feasibility Study and remedial actions at Waste Area Grouping (WAG) 11 and WAG 13.
- Activities included the development of sampling and analysis plans (including rationale, data quality objectives and identification of applicable or relevant and appropriate requirements) in addition to associated documents such as health and safety plans, waste management plans, and quality assurance/quality control plans.

#### **Radioactive Waste Coordinator, Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee, 1987-1990**

- Coordinated radioactive waste management activities for three DOE facilities in Oak Ridge, Tennessee, one in Kentucky, and one in Ohio.
- Responsibilities included oversight of low-level radioactive and transuranic waste management systems, development and application of criteria for site waste management systems appraisals, coordination of technical workshops, provision of technical support to DOE HQ in achieving consistency of approach toward radioactive waste management nationwide, development of an interim waste storage plan for the Oak Ridge Reservation, and leading and participating in pre-tiger team audits at Paducah Gaseous Diffusion Plant and DOE's K-25 Plant at Oak Ridge.

#### **Staff Engineer, Martin Marietta Energy Systems, Inc., Y-12 Plant, Oak Ridge, Tennessee, 1986-1987**

- Represented plant waste management group in design phases of waste management projects including classified soil storage, PCB-contaminated soil storage, the new salvage yard and others.
- Responsibilities included participation in preparations for remedial action on old disposal sites as well as maintenance and inspection of active facilities including burial sites, an emergency spill catchment basin, underground vaults for depleted uranium oxide, and a salvage yard.
- Played an active part in the DOE Low-Level Waste Demonstration, Development and Disposal Program by working with outside contractors to discover and apply innovative technologies to the management of low-level radioactive waste.

#### **Environmental Officer, Martin Marietta Energy Systems, Inc., Y-12 Plant, Assembly Division, Oak Ridge, Tennessee, 1984-1986**

- Responsibilities included ensuring the adequacy of air filters and the integrity of chemical storage tanks, implementation of a stack monitoring program, and implementation of a waste stream tracking system. Assisted in internal enforcement of hazardous materials-related regulations and conducted divisional training on the Resource Conservation and Recovery Act.

### **Professional Credentials and Training**

- Certification as LEED Accredited Professional (2008)
- LEED for New Construction (V.2.2) Technical Review Workshop
- Managing LEED Documentation Course
- Energy Modeling for LEED for New Construction Projects Course
- Wilderness First Aid Training (2005 and 2007)
- DOE Q Clearance (1980-2003)
- Environmental Regulations Course-Executive Enterprises
- Pollution Prevention Instructor Training Course-EPA
- NEPA, CERCLA, RCRA Training-SAIC
- Radiation Protection Course-Atomic Energy of Canada Limited
- Radioactive Waste Management for Nuclear Power Reactors and other Facilities-ASME