

MARJORIE A. WIDMEYER

EDUCATION

Carnegie Mellon University, MS in Engineering and Public Policy, 1998
Washington State University, MS in Electrical Engineering, 1996
California State University, BA in Mathematics, 1972

SUMMARY

As President of Kahler Engineering, Inc, Marjorie brings over 36 years of engineering and management experience including development and implementation of electrical, instrumentation, and secure control systems designs, both as responsible engineer and through management of multidiscipline design and engineering teams. Projects have included a wide range of new and upgraded electrical power systems, instrumentation and control systems, and design and implementation of plant monitoring programs, in chemical, refining, nuclear power, and basic research facilities.

EXPERIENCE

Kahler Engineering, Inc., President (*May 2009 – Present*)

Established Kahler Engineering, Inc., (KEI), partnering with long time associate Ed Kahler, to enhance electrical, instrumentation, and mechanical engineering services provided by a team of nearly 20 employees and independent contractors. This team offers unmatched experience engineering power generation systems. Responsibilities as the majority owner include business operations and management of the team, while continuing to provide design and project management services.

Byres Research Inc., Senior Research Scientist and Security Analyst, (*2006 – Present*)

Development of case studies and other automation security activities to protect critical infrastructure systems and train practitioners in this vital area.

Independent Consultant, Poulsbo, WA (*2006 – 2009*)

Independent consultant providing detailed electrical, instrumentation, controls, automation, automation security, and licensing engineering, design, and project management for plant electrical, mechanical, and control systems, including development of design criteria, design details, and installation, testing, and startup. Accomplishments include successful design, documentation, and field support for these projects and work activities over the last three years:

- Nuclear Plant decommissioning planning, designs, & field support
- Security system startup, documentation & upgrades for Nuclear ISFSI
- Upgrades to facility power distribution systems
- Development of designs, test procedures & documentation for radiation monitoring systems
- Upgrades to control room design, lightning protection & grounding systems

Stanford Linear Accelerator Center (SLAC), Stanford Synchrotron Radiation Laboratory (SSRL),
Electrical Engineer (2002- February 2007)

- Coordinate with Operations, Maintenance, scientists, and other stakeholders to improve and extend synchrotron operation and use.
- Provide technical guidance and oversight; coordinate and track work assignments for six technical personnel responsible for maintenance and upgrades of synchrotron electrical power, radio frequency (RF), and instrumentation and control systems.
- Prepare electrical engineering design packages, procure equipment and systems, and coordinate the installation of designs and equipment by SLAC and contractor personnel.
- Ensure appropriate procedures are written, reviewed, and used for all equipment maintained by the group.
- Ensure that personnel implement and are in compliance with the Environmental, Safety, and health procedures at the laboratory.
- Support safe operation of SLAC as the site Electrical Safety Committee chair.

POWER Engineers, Project Engineer, (2001-2002)

Provided conceptual design, design consultation, and design details for gas turbine, reciprocating, and geothermal power plant electrical, mechanical and control systems.

- Prepared licensing submittals for potential gas turbine power plants.
- Provided electrical and controls support for the operation of geothermal power plants.

EG&G Defense Materials, Staff Electrical Engineer (1999-2001)

Conduct investigations to resolve equipment failures and problems, participated in resolution of Year 2000 problems.

TAVA/R.W. Beck, Project Manager Testing Services (1998 to 1999)

Developed package of testing services at plant and system-wide levels.

Carnegie Mellon University, Instructor, (1997-1998)

Conducted recitations for Department of Mathematics, Taught Carnegie Mellon Action Program (CMAP) Engineering Seminar.

Washington Public Power Supply System, System Engineer (1981-1996)

11.7 MVA adjustable speed drive installation

- Authored preoperational test procedure.
- Performed technical review of the power ascension test procedure.
- Conducted investigations to resolve equipment failures and problems identified during testing.
- Wrote instructions and coordinated component repair.
- Collected and analyzed test data.

5 million dollar Recorder Replacement Program

- Initiated program and wrote specifications.
- Reviewed and approved all changes.
- Supervised installation and calibration.

Supervisor Technical Programs

- Managed \$134M spare parts inventory, including procurement, finance, and engineering.
- Supervised Reliability Centered Maintenance Program including system monitoring, and preventative maintenance programs.

Fluor Engineering and Construction, Inc., Senior Control Systems Engineer (1980 – 1981)

Supervised five engineers and a technician, engaged directly in front end engineering, specifications, and procurement for lube oil plant, prepared cost estimates, and status reports.

Santa Fe Engineering Services Co., Lead Control Systems Engineer (1980)

Coordinated engineering and design work, performed discipline work for tanker terminal and crude metering facilities.

Fluor Engineering and Construction, Inc., Control Systems Engineer (1973 – 1980)

Developed a sensor test program, including interface with DOE's contractor and implementation of the program. Supervised five engineers in development and design of instrumentation of HVAC equipment in centrifuge buildings. Developed test program for instruments in slurry service and engineering specifications for redesign of existing facilities. Responsible for design, specification, and procurement of instrumentation.

SELECTED PROFESSIONAL ACTIVITIES AND SPECIAL INTERESTS

Instrument Society of America (ISA)

- National Vice President, Strategic Planning, 2004.
- National Vice President, Standards & Practices, and Executive Board Member, 1995-1996.
- Research Director, Strategic Planning Department, 1996 – 2002.
- Managing Director Standards and Practices, 1988 - Present.
- Power Industries Division Executive Board, 1984 - Present.
- Member SP67 Nuclear Power Plant Standards Executive Committee and standards committees, 1984 - Present.
- Chair, Committee to develop setpoint standards for Safety-Related Instruments used in Nuclear Power Plants (SP67.04), 1983 - 1992.
- Chair, Nuclear Power Plant Instrument Engineer's Committee, 1984 - 1985.
- Represented ISA on the American National Standards Institute (ANSI) Nuclear Standards Board, 1988 - 1996.
- Institute Of Electrical & Electronics Engineers, Inc. (IEEE)
- Awards Chair for Pittsburgh Section, 1996 - 1998.

Honors

- ISA, Golden Achievement Award, 2007
- ISA, Power Industry Division Achievement Award, 1994.
- IEEE Region 6, 1993 North West Area Individual Achievement Award.

Additional Business Accomplishments

Established a non-profit corporation, ServingUnderserved, Inc, working with Breck Nichols, M.D., M.P.H., to improve health care services to underserved patients in East Los Angeles.

ServingUnderserved develops and implements programs to distribute health information and screen for and treat chronic diseases in the children of underserved communities. A significant burden of poverty and chronic disease, (Overweight (26%); Pre-diabetes, Asthma (20%); Hypertension (10%); Physical/Sexual Abuse; Depression; Substance Abuse), exists in East Los Angeles children, which affects the children in this community. ServingUnderserved supports efforts to find, improve tracking, and provide optimal management and control of such diseases.