

KATHLEEN SPILMAN, PE

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Keitu Engineers & Consultants, Inc.
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- WORK EXPERIENCE:** *Managing Director* *April 2001 - present*
Keitu Engineers & Consultants, Inc., Mandan North Dakota
Principal and co-founder of firm. Provide technical support in the areas of chemical, agricultural, process and energy engineering, environmental science and engineering, industrial health and safety. Projects have spanned from riverfront developments and stormwater pollution prevention plans for both construction and industrial permittees to obtaining regulatory permits for new construction or expansion. Perform pre-purchase and reoccurring internal environmental, hazardous material and safety audits. Conduct feasibility studies for process and non-process related new business ventures throughout the state with specific emphasis on raw material/product logistics. Develop operation and maintenance procedures and/or emergency response plans and associated training including incident command.
- Senior Consultant* *January 1999 – August 2000*
KPMG Consulting LLC, Chicago Illinois
Provided technical and supply-chain management consulting services in ERP and B2B computer software implementation projects including Ariba. Clients included Aventis Behring, Medtronic and US Army Wholesale Logistics Management. Served as site functional team lead for SAP QM implementation at a FDA compliant pharmaceutical manufacturing facility, implementing both product quality and metrology functionality.
- Entity Team Member - SAP Implementation* *February 1996 – January 1999*
BP Amoco Corporation, Chicago Illinois
Provided refining line expertise to 250-person team implementing SAP software for the Petroleum Products Sector. Designed, configured and tested functionality in the materials management (MM) module. Led MM test case development and training development teams. Served on Change Management team which prepared for changes in employees' roles and responsibilities resulting from SAP work processes. Conducted field training and provided system support for both MM and LIS reporting modules.
- Superintendent - Oil Movements (South)* *December 1992 - January 1996*
Amoco Oil Company, Whiting Indiana
Managed the finished product blending, shipping, crude staging and marine operations for a 410 MBCD refinery. Supervised a staff of 60, including 18 direct reports and a \$5.0 million expense budget. Averaged \$25 million a year in capital improvements including blending control for low sulfur distillates and reformulated gasoline plus installation of a distributed control system for gasoline blending. Reduced department's OSHA incident rate from 3.68 to 0.00, leaving the department on a 16-month streak without an incident.
- Superintendent - Economics, Scheduling and Laboratory* *July 1991 - December 1992*
Amoco Oil Company, Mandan North Dakota
Directed a staff of 15 and managed \$1.0 million budget responsible for refinery's operational planning and product quality control. Performed profit improvement studies and financial analyses of operation. Coordinated long range process planning. Identified manner to process higher sulfur crude oils, and coordinated subsequent changes which reduced raw material costs by over 6%. Spearheaded local effort to qualify for Ford Q-1 supplier rating. Testified at state product specification hearings. Served on company's Upper Midwest Strategic Planning Committee.

Economics and Scheduling Engineer

March 1989 - July 1991

Amoco Oil Company, Mandan North Dakota

Prepared monthly operating plan for a 60 MBCD refinery. Evaluated crude slate changes. Maintained UNIX based SLP simulation model and other computer based product blending tools. Identified and design changes to comply with more stringent Phase II RVP regulations. Drafted annual military jet fuel bid. Developed refinery action plan for production of JP-8 vs. JP-4 military jet fuel.

Refinery Representative

April 1988 - March 1989

Amoco Oil Company, Mandan North Dakota

Coordinated \$4.3 million octane-expansion and fuel gas recovery projects including naphtha de-butanizer and de-ethanizer. Supervised application of design standards and construction methods, including safety and quality concerns. Engineered field changes to meet refinery standards. Prepared operating manual and directed unit start-up crew.

Operations Engineer

October 1985 - April 1988

Amoco Oil Company, Mandan North Dakota

Provided technical support for the crude, FCCU, VRU and polymer gasoline units within a petroleum refinery. Developed method to monitor non-linear furnace fouling. Conducted unit optimization studies. Prepared departments 5-year strategic business plan. Responsible for annual chemical and catalyst budget of \$2.2 million.

Environmental, Health and Safety Engineer

June 1981 - October 1985

Amoco Oil Company, Mandan North Dakota

Provided technical support including applications for air, water and solid waste permits and a 700-page RCRA Part II application for hazardous waste treating and storage. Coordinated and participated in ground oil studies including remediation design and installation. Developed and delivered mandated safety and environmental training. Prepared corporate comments on proposed State and Federal regulations.

EDUCATION: *Masters in Management*

April 1990

University of Mary - Bismarck, North Dakota

Bachelor of Science in Chemical Engineering

May 1981

University of North Dakota - Grand Forks, North Dakota

AFFILIATIONS Member – ND State Emergency Planning Committee

& AWARDS: ND State Outstanding Young Engineer – 1987

Society of Women Engineers – Senior Life Member

ND Petroleum Council – Regulatory Affairs Committee Member

INTERESTS Mandan Historical Society – Board of Director

2005 - present

& ACTIVITIES: University of ND Chemical Engineering Advisory Council Member

2002 – present

Bismarck State College Curriculum Advisory Committee

1985

Bismarck-Mandan Symphony Foundation - President

1990 - 1992

Bismarck-Mandan Orchestral Association - Board of Director Member

1989 - 1992

ND State Congressional Science Scholarship Selection Committee

1991 - 1992

Gateway to Science Foundation – Board of Director Member

2002 - 2004

Aircraft Owners & Pilots Association – Member

1983 - present