



**Gas Engineer**

1985-1991

Pacific Gas & Electric, San Francisco California

- Supervised gas system engineering, planning, maintenance and map drafting personnel in four (4) separate operating Districts.
- Responsible for regulatory compliance, emergency response and capital/activity budgeting for each district and conducted periodic CPUC compliance reviews at operating District offices.
- Data Integration for Direct Assessment, presented at AGA Direct Assessment Workshop, San Francisco, California, October 2005
- ECDA Workflow Optimization Utilizing Software Tools, NACE Corrosion Conference, New Orleans, Louisiana, April 2004
- U.S. Pipeline Integrity Management Regulations, keynote presentation published in conference proceedings, NACE International Pipeline Integrity Management Seminar, Calgary, Alberta, May, 2002
- Northwest Pipeline's Relative Risk-Based Technical Justification for Class Location Change Section Alternatives, presentation to OPS 'Risk Management Demonstration Project' Project Review Team, Washington D.C., February 1999
- Relative Risk-Based Resource Reallocation, presented at NACE Gulf Coast Workshop, Houston, Texas, February 1999
- Relative Risk Assessment, published in conference proceedings, 3er Congreso y Expo Internacional de Ductos, Monterrey, Mexico, December 1998
- Risk Assessment – The Competitive Advantage, published in conference proceedings, 2nd International Pipeline Conference, Calgary, Canada, and June 1998
- Index-Based Risk Assessment Models, presented at GRI Risk Assessment Workshop, Columbus, Ohio, October 1997 and October 1998
- Relative Risk Assessment and Management, published in conference proceedings, IAPG Conference, Buenos Aires, Argentina, August 1997

**Conference Papers and Presentations**

**Pipeline Integrity Management Software**

*Integrity Management Program*, AI Bass-Trigon, Littleton Colorado, 2005  
*Pipeline Information Control System*, Baseline Technologies, Calgary Alberta, 2001  
*Integrity Assessment Program*, AI Bass-Trigon Software, Denver, Colorado, 1999

**Professional**

Member, American Institute of Chemical Engineers  
Member, American Society of Mechanical Engineers