

## VINCENT A. SAKRAIDA, PE, LEED AP

### Mechanical Engineering

Mr. Sakraida is Western's Mechanical Engineering Manager. He has over 28 years experience in heavy industrial, commercial, institutional, residential building and process mechanical, fire protection, and plumbing equipment and systems; including forensics, design, construction, operation, assessment and commissioning. He is a recognized leader in engineering systems for laboratories, industrial processes, hospitals, and other high technology facilities. He was a Distinguished Lecturer for the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE). He has authored technical articles for Heating Piping Air Conditioning and Engineered Systems magazines and is on the editorial advisory board for Engineered Systems magazine. Mr. Sakraida provides expert testimony in matters involved in litigation.

### WORK HISTORY

Mechanical Engineering Manager, Western Engineering & Research Corporation, 2008 to present  
Unit Manager, Jacobs Engineering, Denver, 2007 – 2008  
Senior Mechanical Engineer, Stanley Consultants, Denver, 2006 – 2007  
Senior Project Manager, Engineering Economics, Denver, 2006  
Senior Design Phase Manager, M.A. Mortenson, Inc, 2005 – 2006  
Director, LLI Technologies, Inc, Pittsburgh, PA, 2001- 2005  
Corporate Mechanical Engineering Manager, Bayer Corp., Pittsburgh, PA, 1999 – 2001  
Senior Mechanical Engineer, Shambaugh & Son, Fort Wayne, IN, 1996 – 1999  
Mechanical Engineer Manager, *Atlanta Olympic Broadcasting*, Atlanta, GA, 1995 – 1996  
Project Engineer, *Burroughs Wellcome Co.*, Greenville, NC, 1990 – 1995  
Facility Engineer, *Raytheon Co.*, Portsmouth, RI, 1987 – 1990  
HVAC Engineer, *S.S.O.E. Inc.*, Toledo, OH, 1984 – 1987  
Associate Engineer, *Ingall's Shipbuilding*, Pascagoula, MS, 1982 – 1984

### MECHANICAL DESIGN, INVESTIGATION & FAILURE ANALYSIS

Mr. Sakraida has performed failure analysis for many critical complex mechanical systems for high containment laboratories, manufacturing process, and hospitals. He has extensive forensic experience in mechanical, fire protection, and plumbing system failures including carbon monoxide poisoning, mechanical equipment and system failures, and plumbing system failures. He is experienced at performing facility assessments to determine existing equipment and system condition, code compliance, functionality, and energy efficiency. He is experienced in project scheduling by critical path method (Gantt chart) using MS Project. Construction experience provides ability to review designs for maintainability and constructability. Experienced in LEED projects. Extensive experience in project commissioning (protocol development, installation verification, functional performance testing). Experienced in laboratory design, construction, and commissioning. Experienced in piping system engineering including chilled water, condenser water, steam, condensate, and other gases and fluids.

### PUBLICATIONS

Mr. Sakraida has published technical articles in Engineered Systems, HPAC, and Pharma Bio World. Mr. Sakraida has presented seminars on Mechanical System Failure Analysis, Planning and Constructing a Contamination Controlled Environment, CO Poisoning, Project Management, Laboratory Basics, Cleanroom Seminar, cGMP Basics, Validation Basics.



### Practice Areas

- Construction Management
- Mechanical, HVAC
- CO Poisoning
- Fire Sprinklers
- Industrial Process
- Plumbing

### Contact Information

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303.757.4000

### Credentials

- Licensed Professional Engineer: CO, OH, MT, PA
- BS Mechanical Engineering, Georgia Institute of Technology
- Mr. Sakraida has also attended numerous classes and seminars on building codes, building systems, failure analysis, engineering ethics, business management and plumbing products

### Affiliations

- ASHRAE (American Society of Heating, Refrigeration, and Air Conditioning)
- AFE (Association of Facility Engineering)
- ASHE (American Society for Healthcare Engineering)