

CHAD A. BOHANNON, P.E.

CAREER HIGHLIGHTS

- Project Manager for successful sodium clean-up project in Gladstone Australia.
- Facilitated the start-up of an alkali metal dispersion facility, specializing in sodium dispersions.
- Assisted in the development and operation of a sodium and sodium-potassium alloy (NaK) destruction system utilizing inerted steam to remove unwanted alkali metal residues from various process vessels.
- Provide engineering support in the decommissioning efforts at a fast-breeder nuclear power plant. Primary duties are related to alkali metal removal.
- Aided in the start-up of an automated high temperature distillation column used in the production of potassium.
- Research, marketing, and production of naphthalene based Teflon etching solutions.

PROFESSIONAL EXPERIENCE

2000 - Present

Creative Engineers, Inc.

Chemical Engineer

- Developed and brought to market several sodium based fluoropolymer etching solutions. Currently in charge of production and customer relations.
- Plant manager for sodium dispersion production, overseeing day-to day operations and customer relations.
- Assisted in the development and operation of a zero emission, non-reactive sodium residue cleaning system.
- Project manager for a turnkey mobile sodium dispersion manufacturing unit.
- Responsible for the developed and maintenance of sodium dispersion quality control program, including method development, analysis and record keeping.
- Provide processing set-ups, drawings, and procedures for residue alkali metal removal in a variety of complex vessel and piping configurations.
- Coordinated and collected emissions sampling to performed detailed analysis for the purpose of designing a sulfur abatement system.
- Designed and specified heat exchangers for a special high viscosity cooling application.
- Assisted in the design, estimating, and procurement of a propylene glycol storage tank system.
- Assisted in the development of a unique effluent system to accommodate both radiological and chemical concerns when removing radiologically contaminated alkali metals.
- Detailed cost estimating for numerous project and process projects ranging from \$10,000 - \$1,000,000+. No project is too big or too small.
- Intimately involved in our Sodium & Lithium Dispersion and Chemical etchant

product lines.

- Project manager for a research project pilot plant housed in our facility.

1998 – 2000 Callery Chemical Company Callery, PA

Chemical Engineering Co-Op

- Process engineering support, metal alkoxides production facility. Activities included P&ID and PFD updates, support for a new complex metal filtering system, and coordination with operations for numerous day-to-day activities.
- Lead the effort to revise the electrical classification of the metal alkoxides production facility. The change was made to account for the potential presence of hydrogen.
- Project manager for the upgrade of a diborane cylinder cleaning automation system.
- Provided Engineering support to the plant ASME tank inspection program to bring the plant into compliance with OSHA and Pennsylvania regulations.

EDUCATION

1998-2000 University of Pittsburgh Pittsburgh, PA
BS Chemical Engineering

1994-1998 Gannon University Erie, PA
BS Chemistry

PROFESSIONAL MEMBERSHIPS

Registered Professional Engineer (PE), Pennsylvania

Member, American Institute of Chemical Engineers

Member, American Chemical Society

REFERENCES

Available Upon Request

CHAD A. BOHANNON

ALKALI METAL EXPERIENCE

CEI Consultant to NASA for Liquid Metal Projects

CEI Project and Technical Manager– Australian Magnesium Corporation –
Sodium removal and cleanup of process pilot plant – 6 tons of sodium.

CEI Operator – ASARCO Sodium Storage Tank Cleanout – Ongoing

CEI Process Engineer – develop manufacturing methods for sodium based
polymer etchants.

CEI Operator– TSF SNAP Reactor Dismantlement Project - Ongoing

CEI Operator – Fluor Hanford Cold Trap Sodium Removal – 2004

CEI Operator – Fluor Hanford CRCTA Residue Removal – 2004

CEI Operator – NaK Reaction Tests and Demonstration (UKAEA) 2003

CEI Technical Consultant – Detroit Energy – Fermi 1 Sodium and NaK
Cleanup work 2002 to 2008

CEI Process Engineer – design and construction of the KMR Industries
Sodium dispersion plant.