

EXPERIENCE

JOHN WING, PE, LLC: Lakeland FL, USA President & Phosphate Consultant [2007 to Present]

Several Clients on 4 Continents (some not named due to confidential nature) 2007 to present

Technical consulting regarding:

New or Expanded Phosphoric Acid or DAP Plants - 7 clients

Consulting to improve several existing Phosphoric Acid Plants

Fluosilicic Acid Recovery from phos acid evaporators - advanced scrubbers & separators

Rock Grinding, SSP, Fume Scrubbing in DAP/NPK plants, etc.

Indo-Jordan Chemical Co., Eshidiya, Jordan 2007 to 2008

Headed 2-consultant team for major increase in capacity of a hemi phosphoric acid plant & related rock, FSA, and gypsum facilities.

Ma'aden Phosphate Co., Ras Al Khair, Saudi Arabia 2012 to present

Consulting for 3 large hemi phosphoric acid plants.

Paradeep Phosphates, Ltd., Paradeep, India 2010 to present

Phosphoric acid plant modifications to improve recovery & capacity

Fluosilicic acid recovery from evaporation; PA fume collection & scrubbing improvements

Aleff Group, London 2011 to Present

Process consulting for phos acid, granulation, & phosphogypsum utilization
Plant sites in Central Asia, Middle East, etc.

HITECH SOLUTIONS, INC.: Lakeland, Florida, USA [1986 to 2007]

Senior Vice President: Responsible for all process design by the company, including:

- Phase 1 Basic Engineering for 3 large Hemi Phosphoric Acid plants for Ma=aden, Saudi Arabia
- Conversion of Arcadian phos acid plant from Dihydrate to Hemi process - achieved record recovery.
- Expansion & modernization of several DAP & MAP plants, involving Vaporizer-Scrubbers, Dual-Mole Reactor/Granulator Scrubbing, Pre-neutralizers, Granulators, Dryers, & Screening.
- Basic Engineering to convert a 2650 t/d phosphoric acid plant to advanced Hemi-Di process
- Consulted as owner=s engineer for new Hemi phosphoric acid plant - Indo-Jordan Chemicals Co.
- New granular phosphate plant with advanced recycle control for Pequiven in Venezuela
- Numerous projects for Fume Scrubbers, Fluosilicic Acid recovery, Gypsum Handling (wet & dry), Water Treatment, and processing of various liquid and solid materials
- Promoted Hydro/Yara Hemi process with many presentations, feasibility studies, & process designs.

BEARDEN-POTTER CORP.: Lakeland, Florida

Senior Process Engineer: Process design:

- Conversion of a phosphoric acid plant from Dihydrate to Hemi process at Belledune, Canada
- New phosphoric acid Reactors and Filters in several plants
- Detailed Study to develop Uganda's Sukulu Hills phosphate deposit. Basic engineering for Beneficiation, Rock Grinding, & SSP/PAPR fertilizer plant.
- Modification of GSFC phos acid plant to achieve 60% more capacity with existing reactor & filters – Awarded India "Phosphate Plant of the Year"
- 3 new phosphoric acid evaporators of our own design & 2 modified phosphoric acid evaporators
- Installation of new Evaporators at 4 plants
- Expansion & modernization of several DAP fertilizer plants
- Fluosilicic Acid (FSA) recovery system on several phosphoric acid evaporators
- Large 2-train NPK fertilizer plant; project manager for detail design of fume scrubbing system
- Sulfuric acid evaporation facility for a parchment plant
- Steamsavings studies and implementation at two phosphate chemical plants

CONSERV CHEMICALS: Nichols, Florida

Senior Process Engineer for reactivation & modernization of a phosphate fertilizer complex

USS AGRI-CHEMICALS: Bartow, Florida

Manager, Process Development Station with a staff of 17 engineers & technicians

Environmental Engineer

Managed all Environmental Protection at 2 phosphate chemical complexes & phosphate mine

CONTINENTAL OIL CO. & AGRICO DIVISION: South Pierce, Fla. & Ponca City, OK

Asst. Phosphoric Acid Superintendent, South Pierce:

Set capacity records. Reduced overall P_2O_5 loss from 20% to 11%.

Converted Gypsum storage method from a settling pond into an enclosed stack.

Process Engineering Coordinator: Responsible for all process improvements at phosphate plant

Sr. Process Engineer in Oklahoma: Process design of petrochemical plants.

AMERICAN CYANAMID: Brewster, Florida

Chemical Development Engineer:

Developed improvements in phos acid & DAP plants.

Designed, erected, & operated 4 pilot plants for new processes & innovations.

HERCULES, INC.: Brunswick, Georgia

Process Engineer at plant extracting rosin, resins, and oils from pine stumps.

Trouble-shooting, process improvement & development. Automated rosin leaching process.