



FREDERICK BONDY

SUMMARY

Chemical Engineer with 25 + years experience in successful process engineering of chemical, polymer, refinery and petrochemical projects. Numerous grass-roots, revamp and expansion projects. Execution of projects required extensive international travel. Prior employers include CBI Lummus Technology, Heyward-Robinson, Foster Wheeler, Hydrocarbon Research and Kellogg. Patent holder and author of magazine and encyclopedic articles on various fields of chemical engineering.

WORK EXPERIENCE

Supervised process flow, piping & instrumentation, utility and environmental flow diagrams and development of heat and material balances; including process and hydraulic calculations, equipment, vessel and instrument/safety device data sheets, and Supervisory Operating Manuals. Also included feasibility studies, capital & operating costs and proposals. Directed work of other process engineers, coordinated with design disciplines, and liaised with licensors, vendors, and clients. Coordinated with clients and operating personnel on test runs and data collection, when required for revamp/expansion projects. Participated in HAZOP reviews, plant “as-built” inspections and plant start-ups.

SUMMARY OF SELECTED PROJECTS

PROJECT TYPE	CLIENT/ LOCATION	FUNCTION
<u>A. Chemicals</u>		
PVC Feasibility Study	HIP Petrochemical Corp., Yugoslavia	Sr. Principal Eng.
Lube Oil Additives	Exxon, NJ	Process Manager
Octabase Plant Revamp	Hoffman LaRoche, NJ	Process Manager
Vitamin C Plant Revamp	Hoffman LaRoche, NJ	Process Manager
Wire Enamels Plant	General Electric, NY	Process Manager
Isophthaloyl Chloride	General Electric, MA	Process Supv.
Detergent Alkylates	YPF, Argentina	Sr. Process Engineer
Hydrogen Peroxide	Barberton, OH	Plant Process Eng.
<u>B. Polymers</u>		
General Purpose/High Impact Polystyrene	QP Holding Co., Qatar	Polystyrene Technical Advisor
General Purpose/High Impact Polystyrene	E-Styrenics, Egypt	Lead Process Engineer

General Purpose/High Impact Polystyrene	Salavat, Russia	Lead Process Eng.
General Purpose/High Impact Polystyrene	SECCO, PRC	Lead Process Eng.
Acrylamide	Sasol, Rep. of South Africa	Lead Process Eng.
Expandable Polystyrene	Dalian Petrochem, PRC	Lead Process Eng.
HD Polyethylene	Yukong, Korea	Lead Process Eng.
Linear Polyethylene	GAIL, India	Lead Process Eng.
General Purpose/High Impact Polystyrene	Supreme Petrochem, India	Lead Process Eng.
Expandable Polystyrene	P.T. RBS, Indonesia	Lead Process Eng.
Expandable Polystyrene	Dongbu Petrochem., Korea	Lead Process Eng.
Specialty Polymer	DARTCO, GA	Process Manager
ULTRX Semi-Works Plant	General Electric, IN	Process Supv.

C. Refining

Delayed Coker	Formosa Petrochem Corp., Taiwan	Sr. Principal Eng.
F.G. Compr. Facilities	Hess, NJ	Process Manager
Fuel Gas Recovery, Cleanup and Compr. Refinery Expansion	Mobil Oil, IL	Process Manager
Gas Oil Isomax	Irving Oil & Socal, Canada	Process Coord.
Hydrocracker	Irving Oil & Socal, Canada	Process Supv.
Wax Hydrotreater	Mobil Cepsa, Spain	Sr. Proc. Engineer
DAO Hydrocracker	Ashland Oil, NY	Sr. Proc. Engineer
C5/C6 Isomerization	Kerr McGee, OK	Sr. Proc. Engineer
NGL Recovery	Gazocean, Kuwait	Sr. Proc. Engineer
Gasoline Diolefin	Engelhard, NJ	Sr. Staff Engineer
Hydrotreater Study		
Fuel Gas Condensate	Exxon, AL	Sr. Staff Engineer
FCCU Revamp	Ecopetrol, Colombia	Process Engineer

D. Petrochemicals

Butadiene Extraction	Dushanzi Petrochemical, PRC	Lead Systems Eng.
Olefins Conversion	LG Petrochemical Co., Korea	Sr. Principal Eng.
Butadiene Extraction	China National Blue Star, PRC	Lead Systems Eng.
Bisphenol-A Revamp	Sinopec Tech, PRC	Lead Process Eng.
Phenol/Acetone	Formosa Chem/Fibre Corp., Taiwan	Sr. Principal Eng.
Maleic Anhydride	Chemie Linz, Austria	Lead Process Eng.
BPA Semi-Works Plant	General Electric, IN	Process Manager
Heavy Aromatics Fract.	Petrochemica Mosconi, ARG	Sr. Proc. Engineer
BTX Extraction/ Fractionation Units	Shin-Daikyowa Chem., Japan	Sr. Staff Engineer
Phenol/Acetone	USS Chemicals, OH	Process Engineer
Ethylene Plant Revamp	Ecopetrol, Colombia	Process Engineer
Phenol/Acetone	Monsanto, TX	Process Engineer
Ethylene Plant	PPG/CORCO, Puerto Rico	Process Engineer

Ethylene Plant	Shell Chemical, TX	Process Engineer
----------------	--------------------	------------------

E. Catalysts

Resin Catalyst Plant	Rohm & Haas, PA	Process Manager
Zeolite Catalyst Semi-Works Plant	PQ Corp., PA	Process Manager
Auto Emission Catalyst	Davison Chemical, MD	Process Supv.

F. Offsites Facilities

Polystyrene Offsites	E-Styrenics, Egypt	Lead Process Eng.
Polystyrene Offsites	SECCO, PRC	Lead Process Eng.
LPG Tank Farm Safety Revamp	Maraven Oil, Venezuela	Process Manager
Ethylene/Fuel Gas Revamp	Exxon, NJ	Process Supv.
Refinery Offsites	Irving Oil & Socal, Canada	Process Coord.

EDUCATION

- B.Ch.E. City College of New York
- M.Ch.E. The University of Akron

PUBLICATIONS

"Steam Tracing", Encyclopedia of Chemical Processing and Design, Vol. 54, Marcel Dekker, NY, NY, 1996, pp. 66-78.

"Heat Transfer, Agitated Vessels", Encyclopedia of Chemical Processing and Design, Vol. 25, Marcel Dekker, NY, NY, 1987, pp. 431-453.

"An Easy Way to Design Steam Tracing for Pipes", Chemical Engineering, August 4, 1986, pp. 65-70.

"Heat Transfer in Agitated Vessels", Chemical Engineering, April 4, 1983, pp. 62-71.

PATENT

"Phenolic Wastewater Treatment with Ethers for Removal and Recovery of Phenolics" (USP No. 6,071,409 – June 6, 2000)



LXDE

www.lxdecorp.com