

SUDHIR V.GOLIKERI

CURRENT POSITION: STUDIES MANAGER, IPSI LLC

ACADEMIC QUALIFICATIONS

M.S. & Ph.D., Chemical Engineering - University of Houston, Houston, TX

- Member of AIChE and Phi Kappa Phi
- Professional Engineer, State of Texas

PROFESSIONAL EXPERIENCE: 35 Years

- Process simulation – HYSYS & Aspen Plus; HTRI heat exchanger design
- Process flow diagrams, piping & instrumentation diagrams, equipment sizing
- Evaluation and mitigation of process hazards & major accident risks.
- Relief device sizing; Relief header and flare analysis & design
- Effective decision maker and problems solver while managing multiple tasks.
- Strong business acumen and communications skills. Fluent in Spanish.
- Demonstrated expertise in a broad range of process technologies including:
 - Aromatics/Paraxylene(PX)
 - DME/Methanol
 - LNG/NRU
 - Olefins
 - Polybutenes
 - Gas Processing
 - Synthesis Gas
 - Upstream
 - Cryogenics

PROFESSIONAL EXPERIENCE

PERIOD

COMPANY, POSITION AND ACTIVITIES

2009-Present

**STUDIES MANAGER
IPSI, HOUSTON, TEXAS**

- Evaluated a Dew Point Control project of associated gases for Pioneer Tunisia.
- Developed basic process design for Pioneer Natural Resources to modify their Satanta NGL/NRU plant to achieve 85% ethane recovery.
- Led a feasibility study and basic engineering for EnCana Oil & Gas to revamp their 2 gas processing units for higher throughput and ethane recovery using IPSI's proprietary stripping gas refrigeration process.
- Conducted an Off-Project Design Review of the Domgas nitrogen rejection unit (NRU). The review focused on the technical soundness of the process design as well as completeness of the documentation. Made recommendations for improved operability and process control. Provided guidance on the start-up and cooldown of the unit with particular attention to avoiding freeze-up of heavy hydrocarbons. Prepared a report on reliable processing of heavy hydrocarbons in the unit and recommended changes to make the design more robust. Participated in the P&ID reviews with Chevron to explain the design intent as well to ensure proper line-ups and controls are provided to meet the reliable and safe operation of the unit.

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PROFESSIONAL EXPERIENCE (Continued)

- Presently conducting an Off-Project Design Review of the NRU on the Australia Pacific LNG Project.

1999-2009 BP AMOCO, HOUSTON, TEXAS
SENIOR RESEARCH ASSOCIATE

- Directed and successfully delivered Process Design packages to license BP's proprietary paraxylene technology for a significant royalty potential. Was a key contributor in the design of cryogenic crystallization process using ethylene and propylene refrigeration.
- Successfully conceptualized and executed capacity expansion and variable cost reduction projects for 6 paraxylene units in the US and Belgium by innovative process modifications that produced attractive returns on investment.
- Met the NOx reduction target in Texas City units by installing ultra low NOx burners instead of SCR resulting in \$8 million savings.

1988-1998 AMOCO CHEMICAL, HOUSTON, TEXAS
PROCESS MANAGER

- Commercialized proprietary Reslurry and HSDE catalyst technologies that provided major capacity expansion in Decatur, AL and significantly improved the competitive position by being the lowest cost paraxylene producer. Was a key player in changing the 3 stage cryogenic crystallization to single stage crystallization. The process won the Chairman's technology award.
- Directed comprehensive evaluation of the relief system that avoided a new flare for the Decatur PX-1 unit by sharing PX-2 flare with over \$5 million savings.
- Expanded the Chocolate Bayou Ethylene unit by over 40% (500 million lbs/year) using innovative process reconfiguration, providing greater feed flexibility and lowering the variable cost. Played a key role in revamping the cold end of the unit, the refrigeration (ethylene and propylene) systems, and reconfiguration of the fractionation systems.
- Supported the strategic monetization of stranded natural gas by conversion to DME/Methanol and methanol to Olefins.
- Provided key technical and investment guidance on Polybutenes production in the Far East to penetrate into the two-cycle engine additive market to produce cleaner emissions.

1985-1988 PRINCIPAL PROCESS ENGINEER
INTERNATIONAL PROCESS SERVICES, HOUSTON, TX

- Resident Process Consultant to Norsk Hydro, Norway during detail engineering of crude oil receiving and shipping terminal at Sture, Norway.
- Resident Process Consultant to Exxon Chemicals in Baton Rouge, LA on a revamp of Refinery Gas unit for higher ethylene and propylene recovery.

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PROFESSIONAL EXPERIENCE (Continued)

- Resident Process Consultant to Norsk Hydro in Norway for the field development work of Oseberg project in the North Sea
- Developed oil/gas production/processing schemes, utility systems, and equipment sizing.

1979-1985 SUPERVISING PROCESS ENGINEER
DAVY MCKEE, HOUSTON, TEXAS

- Process Design for low-pressure oxo-alcohol Project for Tenneco. Responsibilities included Texaco's partial oxidation unit to produce synthesis gas, Union Carbide's PSA unit for hydrogen, and UCARSOL for CO₂ removal from synthesis gas.
- Process design of several turboexpander units for light hydrocarbon recovery from natural gas, associated feed gas treating, nitrogen rejection units, fractionation, refrigeration, product treating.
- Process manager for Santos Ltd., Australia on expansion of deethanizer, propane refrigeration, ethane product treating, ethane liquefaction, storage and revaporization.
- Study Manager for Maraven, Venezuela on evaluation of options to handle steam flooded Tia Juana heavy crude and offshore production of Lagocinco crude, pipeline transportation, crude dehydration, produced water treatment.

1975-1979 PROCESS ENGINEER
M.W. KELLOGG, HOUSTON, TEXAS

- Process Design for LNG liquefaction for Sonatrach, Algeria. Conducted a study on rollover in LNG tanks and provided comparative evaluation of liquefaction processes.
- Process design, detail engineering and start-up of 1 billion SCFD LNG Regasification facilities for Columbia Gas at Cove Point, MD.