

JAME YAO

CURRENT POSITION: VICE PRESIDENT, SENIOR PROCESS ENGINEER

PROFESSIONAL EXPERIENCE: 30 YEARS

- Design of offshore production and processing facilities
- Process design and development via computer simulation for cryogenic gas processing and treating, LPG/Naphtha fractionation, refinery gas processing and oil production facilities
- Preparation of process flow diagrams, heat and material balance, line/equipment sizing, selection, equipment data sheets and P&ID's
- Development and execution of training programs for advanced computer process simulation for AMOCO
- Development of patented processes for cryogenic CO₂ separation, cryogenic nitrogen rejection for enhanced oil recovery (EOR); also immiscible refrigeration cycle, and cryogenic H₂ purification processes
- Evaluation of thermophysical data and prediction methods for new cryogenic extraction processes
- Development of mixed and self-refrigeration processes for liquid extraction (for patent application)
- Design of LNG processing facilities using Phillips Petroleum Optimized Cascade Liquefaction LNG Process

ACADEMIC QUALIFICATIONS

B.S.Ch.E. - National Taiwan University

M.S.Ch.E. - Purdue University

Ph.D. - Purdue University

PROFESSIONAL ASSOCIATIONS AND AWARDS

Member of AIChE

Recipient of the Outstanding Technical Papers Award, Bechtel Corporation, 1999 and 2003 (two papers)

PROFESSIONAL EXPERIENCE

PERIOD

COMPANY, POSITION AND ACTIVITIES

December 1996 -
Present

IPSI LLC (formerly International Process Services, Inc.)
VICE PRESIDENT, SENIOR PROCESS ENGINEER

JAME YAO
PROFESSIONAL EXPERIENCE (Continued)

Responsible for conceptual process design in the areas of LNG and oil/gas processing, both onshore and offshore, using computer aided process simulations and calculations; preparation of process flow diagrams, line/equipment sizing/selection and P&ID's; preparation of training manuals; teaching advanced process simulation; also responsible for new process design/development, patent applications and thermophysical property evaluation.

- Process Design/Simulation for FEED for Conoco-Phillips 5.2 MTPA Sunrise LNG Plant, Darwin, Australia.
- Process Design/Simulation for FEED for Conoco-Phillips 5.2 MTPA Brass LNG Plant, Brass, Nigeria.
- Process Trouble-Shooting /Simulation for PEMEX 600 MMSCFD Cryogenic Project No. 2 NGL Recovery Plant, Mexico.
- Process Design/Simulation for EPC for Chevron-Texaco (CVX) 5.2 MTPA LNG Plant, Soyo, Angola.
- Process Design/Simulation for Feasibility Study for SANTOS 3.5 MTPA LNG plant, Gladstone, Australia.
- Process Design/Simulation for Feasibility Study for Conoco-Phillips 1,000 MMSCFD Sour Gas Plant, Shah Field, Abu Dhabi.
- Process Design/Simulation for Pre-FEED study for British Gas 3.5 MTPA LNG plant, Gladstone, Australia.
- Process Design/Simulation for De-bottlenecking Study for Conoco-Phillips 3.2 MTPA LNG Plant, Darwin, Australia.
- Process Design/Simulation for Pre-FEED study for Exxon-Mobil 6.3 MTPA PNG LNG Plant, Papua New Guinea.
- Process Design/Simulation for FEED for EG LNG Company 4.2 MTPA Train 2 LNG Plant, Equitorial Guinea.
- Start-up and Performance Test Support for Conoco-Phillips 3.2 MTPA LNG Plant, Darwin, Australia.
- Process Design/Simulation for feasibility study for Tembey 5 MTPA LNG plant.
- Process Design/Simulation for EPC for EG LNG Company 3.7 MTPA LNG plant, Equitorial Guinea.
- Process Design/Simulation for Pre-FEED study for Conoco-Phillips 6.7 MTPA Sunrise LNG plant, Darwin, Australia.

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PROFESSIONAL EXPERIENCE (Continued)

- Process Design/Simulation for Pre-FEED study and FEED for Chevron-Texaco 5.2 MTPA LNG plant, Angola.
- Process Design/Simulation for feasibility study for Conoco-Phillips 3.2 MTPA LNG plant, Venezuela.
- Process Design/Simulation for DLNG Train 2 feasibility study for Conoco-Phillips 5-7 MTPA LNG plant, Darwin, Australia.
- Process Design/Simulation for multi-train de-bottlenecking Pre-FEED and FEED study for Atlantic LNG Company, Point Fortin, Trinidad.
- Start-up support for ALNG Train 1 & 2 for Atlantic LNG Company, Point Fortin, Trinidad.
- Process Design/Simulation for EPC for Atlantic LNG Company 5 MTPA Train 4 LNG Plant, Point Fortin, Trinidad.
- Process Design/Simulation for Pre-FEED study for Conoco-Phillips 5 MTPA floating LNG plant.
- Process Design/Simulation for FEED package for Marathon Oil 3.7 MTPA LNG plant, Equatorial Guinea.
- Process Design/Simulation for EPC for Phillips Petroleum 3.2 MTPA LNG plant, Darwin, Australia.
- Process Design/Simulation for EPC for Egyptian LNG Company 7.2 MTPA (2 trains) LNG Plants, Idku, Egypt.
- Lead Process Engineer for conceptual study for Phillips Petroleum single train 7.5 MTPA LNG plant, Qatar
- Lead Process Engineer for LSTK EPC bid preparation for Phillips Petroleum 3.2 MTPA LNG plant, Darwin, Australia
- Conceptual Design Manager for FEED package and LSTK EPC bid for Tangguh LNG 7 MTPA LNG Plants, Irian Jaya, Indonesia
- Conceptual Design Manager for Concept Selection/Definition Study for Pacific LNG Company 6.6 MTPA LNG Plants, Caleta Patillos, Chile
- Conceptual Design Manager for FEED package and LSTK EPC bid for Egyptian LNG Company 7.2 MTPA LNG Plants, Idku, Egypt
- Conceptual Design Manager for FEED package and LSTK EPC bid for Atlantic LNG Company 5 MTPA Train 4 LNG Plant, Point Fortin, Trinidad

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PROFESSIONAL EXPERIENCE (Continued)

- Lead Process Engineer for Pre-FEED study for Phillips Petroleum 5 MTPA LNG plant on GBS, Offshore Brass River, Nigeria
- Lead Process Engineer for FEED package and LSTK EPC bid preparation for Phillips Petroleum 10 MTPA LNG plants, Darwin, Australia
- Lead Process Engineer for FEED package and LSTK bid preparation for Ras Gas 8.8 MTPA LNG plants, Ras Laffan, Qatar
- Lead Process Engineer for the feasibility and cost estimate study for the Alaska Port Authority Project including 2.7 BSCFD gas conditioning plants and 15 MTPA LNG plants, Alaska
- Lead Process Engineer for Atlantic LNG Company 3.2 MTPA LNG Plant Train 2 feasibility and de-bottleneck study, Point Fortin, Trinidad
- Lead Process Engineer responsible for conceptual design and cost estimate for CONOCO Global Power Inc. Natural Gas Purification Plant, Hainan island, China
- Lead Process Engineer for Phillips Petroleum Company Acid Gas Disposal screening study, Darwin, Australia.
- Process Consultant for Pioneer Natural Resources USA, Inc. two facilities offshore, Grand Bay and Eugene Island Block 208
- Third Party Process Verification for Norsk Hydro Sture Terminal Crude Stabilization Facilities, Norway
- Lead Process Engineer for Warren Petroleum/NGC 70,000 BPD Ethane Liquefaction, Storage and Loading Facilities cost estimate study, Mexico
- Member of process team in LNG Product Development Center (PDC)
- Lead Process Engineer for Phillips Petroleum Company 3.3 MTPA LNG Plant FEED package and lump-sum cost estimate, Darwin, Australia
- Lead Process Engineer for amine treating unit process simulation for Kinhill Pty. Ltd., Kampung Baru, Indonesia
- Lead Process Engineer for Statoil Company 3.6 MTPA LNG Plant conceptual study and cost estimate, Slettnes, Norway
- Process Consultant responsible for conceptual process design and development for Shell (Peru) B.V. 2,000 MMSCFD NGL Liquid Extraction Facilities, Camisea, Peru
- Lead Process Engineer for Yukon Pacific 14.0 MTPA LNG Plant conceptual study, Port Valdez. Alaska

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PROFESSIONAL EXPERIENCE (Continued)

- Process Consultant for PEMEX 620 MMSCFD Cantarell Field Nitrogen Rejection screening study, Atasta, Mexico
- Lead Process Engineer for Mobil Oil LNG Receiving Terminal conceptual study, Limay, Philippines
- Lead Process Engineer for Texaco/Mobil 6.6 MTPA LNG Plant feasibility study, Barrow Island, Australia
- Lead Process Engineer for PAC-RIM 3.5 MTPA LNG Plant feasibility study and FEED package, British Columbia, Canada

March 1986 -
Dec 1996

INTERNATIONAL PROCESS SERVICES, INC.
SENIOR PROCESS ENGINEER

- Lead Process Engineer for engineering and construction of Atlantic LNG Company 3 MTPA LNG Plant, Point Fortin, Trinidad
- Lead Process Engineer for Phillips Petroleum Company 3 MTPA LNG Plant conceptual study. Middle East
- Lead Process Engineer for British Petroleum Company 3.3 MTPA LNG Plant conceptual study, Papua New Guinea
- Lead Process Engineer for Phillips Petroleum Company 1.1 MTPA LNG Plant conceptual study, Equatorial Guinea
- Lead Process Engineer on the Yemen LNG feasibility study for Total
- Lead Process Engineer on Atlantic LNG Trinidad LNG feasibility study and FEED package preparation
- Lead Process Engineer for Phillips Petroleum Company on their Bayu Offshore Liquid Recovery feasibility study, as well as their Bayu LNG Onshore and Offshore Plant feasibility study. Also Lead Process Engineer on various LNG Front End Engineering Design and compressor studies
- Lead Process Engineer for Mesa, Inc. Fain Gas Plant feasibility study for nitrogen rejection/helium recovery cold box with LNG production
- Optimization Study using Pinch Technology for Phillips Petroleum Cascade Cycle LNG Process

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PROFESSIONAL EXPERIENCE (Continued)

- Study and Plant Performance Prediction with high nitrogen feed for Phillips Petroleum Kenai, Alaska LNG Plant
- Start-up and Commissioning for Mesa, Inc. 220 MMscfd Satanta Gas Plant including Nitrogen Rejection/Helium Recovery Cold Box
- Ethane Extraction Study for lean LNG plant feed
- Feasibility studies for Trident NGL, Inc.
 - Mobile Bay 500 MMscfd Ethane Extraction Plant
 - Jayhawk 500 MMscfd NGL Recovery/Helium Recovery/Nitrogen Rejection Plant Re-build
- Start-up and Commissioning for Mesa, Inc. Fain Plant including 12 MMscfd Helium Recovery Cold Box
- Project services for Mesa Limited Partnership's Fain and Satanta Gas Plants. Responsible for reviewing EPC contractors' and cold box suppliers' engineering documents on Mesa's behalf
- Conceptual process study, bid package preparation and process design/evaluation for MAXUS Exploration Company, Sunray Gas Plant: two plants with 80 MMscfd capacity each. One plant used cold box technology with NGL/Helium Recovery and N₂ Rejection, H₂S/CO₂ Removal and Sulfur Plant; the other plant involved Turboexpander Design for NGL Recovery only
- FEEP and Bid Package Preparation with EPC Bid Evaluation for Mesa Limited Partners Fain Plant Expansion. Included 40 MMscfd expansion with acid gas removal, NGL recovery and 12 MMscfd helium recovery cold box
- Study for Norsk Hydro to determine best, proven commercial process technology for recovery of CO₂ from gas fired turbine exhaust on a North Sea platform
- Offshore Deepwater Platform Field Development Plan for British Petroleum, 100,000 Bbl/Day at 3,000 Ft. water depth
- Feasibility Study and FEED/Bid Package Preparation and Bid Evaluation for Mesa Limited Partners Satanta Plant. Developed integrated process for 220 MMscfd of Hugoton Gas to recover LPG and Helium with N₂ Rejection
- Development of LNG Process Simulator for Phillips Petroleum Company. Responsible for modeling Phillips' in-house LNG process by using HYSIM Simulator
- Debottlenecking Study for Phillips Petroleum LNG Plant, Kenai, Alaska. Responsible for developing Predictive Model by using HYSIM Simulator to monitor current plant design and to predict plant performance after debottlenecking
- Ethylene and Hydrogen Recovery Plant Design for Texaco, Port Neches plant. Responsible for Process optimization/simulation, PFD/P&ID development and equipment sizing/selection.

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PROFESSIONAL EXPERIENCE (Continued)

- Plant expansion included cryogenic turbo-expander plant, compression train and pressure swing adsorption unit
- Preparation of Safety Memorandum for Shell Oil BPA-4 Project
- Preparation of Detailed Process Package for Taft Ethylene Oxide/Glycol Unit I Expansion (Union Carbide). Responsible for PFD/P&ID development and equipment/instrument sizing for Benfield carbon dioxide removal unit
- Equipment Sizing in Saponification Area for Air Products & Chemicals, Inc. Polyvinyl alcohol is produced from polyvinyl acetate.
- Technical Audit of Oseberg Subsea Pipeline Dynamic Analysis Study for Norsk Hydro, Norway.
- Process Design/Simulation for Pre-FEED study for Conoco-Phillips 5.2 MTPA Sunrise LNG plant, Darwin, Australia.
- Process Simulation and Equipment Sizing for Elk Hills (Naval Petroleum Reserve) Fourth Gas Plant. Liquid recovery and fractionation of 100 MMscfd associated gas
- Pilot Plant Relief Valve Sizing for Quantum Chemical, USI Division
- Subsea Hydraulic Pump Design for Brasnor-Neptun A.S., Norway; pump fluid selection and hydraulic calculations
- Tenneco Chalmette Refinery Project for Increasing Heavy Crude Capacity. Responsible for P&ID development of new No. 2 coker gas plant and its connections with existing facilities
- Ashland Oil Canton Refinery Instrument Modernization Project. P&ID field verifications and new instrument counts for DCS in crude unit, FCC unit, gas compression unit and isomerization unit
- Qatar North Field Process Review for Bechtel/Technip Joint Venture. Process/equipment design review and guarantee assessment for offshore hydrocarbon/water dewpoint control plant, onshore condensate stabilization, turbo-expander and fractionation plants
- Preparation of Offshore/Onshore Process Design Manual for Oseberg Phase II Project
- ARCO Refinery Instrument Modernization Project. Responsible for P&ID field verifications in the following areas: fluid catalytic cracking (including gas plant), magnaformer, merox treating and light end fractionation. As built P&ID's will be the basis for instrument optimization
- Conversion of Floating Drilling Platform to Production Vessel. Conceptual study and basic engineering for Oseberg Phase II development to convert "Polar Pioneer" into a floating production vessel with full processing capability. The FPV is moored alongside a fixed wellhead platform.

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PROFESSIONAL EXPERIENCE (Continued)

- Brage Field Development Study for Norsk Hydro, Norway
 - Study of increasing platform processing capacity
 - Topside stripping/optimization study
 - Study of the integration with Oseberg Field Center (A/B platforms)
- Snorre Field (SAGA) and Veslefrikk Field (Statoil)
 - Review and comment on feasibility studies
- Oseberg Phase II Development (Norsk Hydro)
Screening study. Re-design process and develop topside equipment list for various concepts:
 - DQW, PDQ and purpose-built floating production vessel
 - Evaluation/optimization of offshore water injection processes
 - Weight/cost optimization study. Simplify and optimize the topside facilities with a tender support vessel mooring alongside
 - Preconceptual study. Update equipment list for higher capacity. Investigate the possibility of integration with the Oseberg Field Center.
- Oseberg Field Crude Production. Served as the senior system engineer in the technical service department of Oseberg project office. Coordinated and evaluated the Troll gas injection option and the third party crude transportation. Provided assistance to the process group of the Oseberg Platform A project.
- Prepared feasibility study jointly with Siemens, Norway for Statoil, examining the operation of a remotely-controlled (from land based control center) offshore gas/condensate production facility
- Cryogenic Nitrogen Rejection Screening Study for Norsk Hydro, Norway. A general comparison of various cryogenic separation processes was given and the requirement for future development work was outlined.
- Ekofisk Nitrogen Injection/Rejection Study for Norsk Hydro to explore and compare various methods for field pressurizing and enhanced oil recovery. Process design, equipment sizing and cost estimation for cryogenic and membrane nitrogen injection/rejection facilities were provided.
- Ekofisk Nitrogen Injection Study. Acting as a technical representative for Norsk Hydro, coordinated and audited the design of membrane separation process on a production vessel to produce nitrogen for injection purposes.

1981 - 1985

DAVY MCKEE (DM INTERNATIONAL, INC.)
PROCESS ENGINEER

- Feasibility study and project planning for Morecambe Gas Field (Phase II), British Gas Corporation. New nitrogen cryogenic rejection process was developed and recommended.
- Development of patented process for immiscible refrigeration system

8/21/2008

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PROFESSIONAL EXPERIENCE (Continued)

- Development of new (patented) process for cryogenic nitrogen rejection from natural gas for enhanced oil recovery application
- Alternate cryogenic process designs for nitrogen separation from natural gas using air separation technology. Amoco International and Chevron
- Calculation of performance guarantee and plant data matching for the Santos 900 MMscfd cryogenic gas processing and 32,000 BPD crude stabilization plant in Australia. Also included was 68,000 BPD fractionation plant with naphtha/crude splitter.
- Development of start-up procedures for off-design fractionation plant for Santos, Australia
- Study of expansion of liquids project for Santos to investigate increasing ethane production using the cryogenic plant
- Process design for cryogenic LPG recovery/H₂ purification from refinery plant offgas. Tenneco and Conoco
- Cryogenic CO₂ separation study for 135 MMscfd of hydrogen plant offgas (70% CO₂) in EOR application. Intevep S.A., Venezuela
- Cryogenic CO₂ separation study for 12% CO₂ gas (700 MMscfd) and LPG liquids (40,000 BPD). Process design for turbo-expander plant and fractionation plant, New Zealand
- Conceptual design of CO₂ flooding EOR process. Mobil, Union Texas Petroleum, Amoco International, Phillips Petroleum
- Process design and development of CO₂ separation process for EOR applications, with emphasis on turbo-expander and cryogenic fractionation and solvent extraction processes (patented)
- Gas (900 MMscfd) and LPG liquids (68,000 BPD) Project, including crude stabilization plant, cryogenic ethane rejection plant, fractionation plant, naphtha/crude splitter unit, propane and butane storage and propane refrigeration system. Santos Ltd., Australia
- Prepared training manual for advanced process simulation school and taught two courses for Amoco Production Company's Training Center. Tulsa, Oklahoma

PATENTS

- "Method and Apparatus for the Cryogenic Purification of High CO₂ Content Gas", J. Yao, J. J. Chen, and D. G. Elliot. U. S. Patent Number 4,563,202, January 7, 1986
- "Method and Apparatus for the Cryogenic Purification of High N₂ Content Gas", J. Yao, J. J. Chen, and D. G. Elliot. U.S. Patent Number 4,588,427, May 13, 1986

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PATENTS (Continued)

- “Efficiency Improvement of Open-Cycle Cascaded Refrigeration Process”, Clarence G. Houser, Donald L. Andress, William R. Low, and Jame Yao, U.S. Patent No. 5,669,234, September 23, 1997
- “Benzene and Heavy Hydrocarbon Removal for LNG Plants”, Jame Yao, Clarence G. Houser and William R. Low. Patent Pending
- “Aromatics and/or Heavies Removal from a Methane-Based Feed by Condensation and Stripping”, J. Yao, C. G. Houser, U. S. Patent No. 5,737,940, April 14, 1998
- “Enhanced NGL Recovery Processes”, J. Yao, J. J. Chen, D. G. Elliot, U.S. Patent Number 5,992,175, November 30, 1999
- “Nitrogen Rejection System for Liquified Natural Gas”, W. Low, J. Yao, U. S. Patent No. 6,070,429, June 6, 2000
- “Propane Recovery Methods”, D. G. Elliot, J. Yao, J. J. Chen, R. J. Lee. U. S. Patent No. 6,116,050, September 12, 2000
- “Flexible Reflux Process for High NGL Recovery”, D. G. Elliot, J. Yao, J. J. Chen, R. J. Lee, P. Jain. U.S. Patent No. 6,453,698 B2, September 24, 2002
- “Lean Reflux Process for High Recovery of Ethane and Heavier Components”, R. J. Lee, J. Yao, J. Chen, D. G. Elliot. U. S. Patent Number 6,244,070, June 12, 2001
- “Enhanced NGL Recovery Using Refrigeration and Reflux From LNG Plants”, D. G. Elliot, J. Yao, J. J. Chen, R. J. Lee. U. S. Patent Number 6,401,486 B1, June 11, 2002
- “Split Feed Compression for High Recovery of Ethane and Heavier Components”, R. J. Lee, P. Jain, J. Yao, R. Chen, and D. G. Elliot. US Patent No. 6,354,105 B1, March 12, 2002
- “Mixed Refrigerant For Gas Turbine Inlet Air Cooling”, R. J. Lee, J. J. Chen, P. Jain, J. Yao and D. G. Elliot. Patent Pending, Application No. 60/251,928
- “Hybrid Refrigeration Cycle for Combustion Turbine Inlet Air Cooling”, R. J. Lee, J. J. Chen, P. Jain, J. Yao, and D. G. Elliot. U.S. Patent No. 6,457,315 B1, October 1, 2002
- “LNG Facility with Integrated NGL Extraction Technology for Enhanced NGL Recovery and Product Flexibility”, W. Qualls, W. L. Ransbarger, S. S. Huang, J. Yao, D. G. Elliot, J. J. Chen, and R. J. Lee. U.S. Patent Application No. 11/426,026 and Foreign Equivalents Thereof filed June 23, 2006.
- “LNG Facility Providing Enhanced Liquid recovery and Product Flexibility”, S. H. Huang, H. J. Crofton, J. Yao, T. M. Jones, W. Ransbarger, and P. C. Goundry. U.S. Patent Application No. 212798/11 filed August 26, 2005.
- “Internal Refrigeration for Enhanced NGL Recovery”, R. J. Lee, Y. Zhang, J. Yao, J. J. Chen, D. G. Elliot. U.S. Patent No. 7,257,966 B2, August 21, 2007

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PATENTS (Continued)

- Wei Yan, Jame Yao, Douglas G. Elliot, Shawn S. Huang, Bobby Kassamali, Mark Elkins, "Fractionation of Hydrogen Sulfide Rich Sour Gas and Methods of use". New U.S. Patent Application Serial No. 12/958,909, December 2, 2010.

PUBLICATIONS

- "Cryogenic Fractionation: An Alternate for CO₂ Removal in Enhanced Oil Recovery", J. Yao, S. V. Golikeri, J. J. Chen and D. G. Elliot, Energy Progress (5), (1985)
- "Cryogenic Fractionation: An Alternate to Conventional Gas Conditioning for Enhanced Oil Recovery", J. Yao, S. V. Golikeri, J. J. Chen and D. G. Elliot, presented at AIChE Meeting in San Francisco, California, November 1984
- "Cryogenic Carbon Dioxide Fractionation", J. Yao and R. K. Goel, presented in Petro Energy '84, An Energy Workshop, Houston, Texas, September 1984
- "Data Requirements for the Synthesis and Design of EOR Processes", J. Yao, J. J. Chen, D. G. Elliot, R. Kobayashi and J. H. Hong. Proceedings of the 63rd Annual GPA Convention, New Orleans, Louisiana, March 1984
- "Phase-Equilibrium Data Requirements for Cryogenic CO₂ Recovery Plant Design", J. Yao, S. V. Golikeri, J. J. Chen and D. G. Elliot, Energy Progress (3), (1983), pg. 197
- "Process Design Considerations for EOR Applications". Proceedings of Science, Engineering and Technology Seminar, in Houston, Texas, May 1983
- "Phase-Equilibrium Data Requirements for EOR Process Plant Design", J. Yao, S. V. Golikeri, J. J. Chen and D. G. Elliot, presented at AIChE Spring National Meeting and Petro-Exp., Houston, Texas, March 1983
- "Monte Carlo Simulation of the Grand Canonical Ensemble", J. Yao, R. A. Greenkorn and K. C. Chao, Molecular Physics (46), (1983), pg. 587
- "Thermodynamic Properties of Stockmayer Molecules by Monte Carlo Simulation", J. Yao, R. A. Greenkorn and K. C. Chao, J. Chem Phys. (76), (1982), pg. 4657
- "Thermodynamic Properties of Stockmayer Fluids by Computer Simulation", J. Yao, R. A. Greenkorn and K. C. Chao. Proceedings of the 2nd World Congress of Chemical Engineering, Volume V, pg. 5, Montreal, Canada, October 1981
- "Computer Simulation and Generalization of Thermodynamic Properties of Polar Fluids", J. Yao, Ph.D. Dissertation, Purdue University, 1981
- "Gas-Liquid Equilibrium of the Hydrogen/Bicyclohexyl System at Elevated Temperatures and Pressures", H. M. Sebastian, J. Yao, H. M. Lin and K. C. Chao, Journal of Chemical Engineering Data (23), (1978) pg. 167

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PUBLICATIONS (Continued)

- "Gas-Liquid Equilibria in Mixtures of Hydrogen and 1-Methyl Naphthalene", J. Yao, H. M. Sebastian, H. M. Lin and K. C. Chao, Fluid Phase-Equilibria (1), (1977/1978), pg. 293
- "Phase-Equilibrium in Coal Liquefaction Processes", EPRI Report AF-466, June 1977
- "Evolution/Expectations of the Gas Processing Industry", J. J. Chen, R. J. Lee, J. Yao. Presented at Chinese Petroleum & Petroleum Technology Symposium, Houston, Texas, May 25-26, 1991.
- "Flexibility Efficiency to Characterize Gas Processing Technologies", R. J. Lee, J. Yao and D. G. Elliot. Special Issue, "Petroleum in the 21st Century", Oil & Gas Journal, December 13, 1999, pg. 90
- "Benefits of Integrating NGL Extraction and LNG Liquefaction Technology", Wesley R. Qualls, (ConocoPhillips Company), Shawn Huang (ConocoPhillips Company), Doug Elliot, J. J. Chen, Jame Yao, R. J. Lee, Ying Zhang (IPSI LLC[®]). Published in the proceedings of the AIChE 2005 Spring National Meeting, 5th Topical Conference on Natural Gas Utilization, April 10-14, 2005, Atlanta, Georgia.
- "Processes for High C₂ Recovery from LNG – Part I: Schemes Based on Refluxed Demethanizer", Stanley Huang (Chevron Energy Technology Company), Dennis Cook, Jame Yao, Douglas Elliot (IPSI LLC). Published in the proceedings of the AIChE 2006 Spring National Meeting, 6th Topical Conference on Natural Gas Utilization, April 23-27, 2006, Orlando, Florida.
- "Processes for High C₂ Recovery from LNG – Part II: Schemes Based on Expander Technology", Stanley Huang (Chevron Energy Technology Company), Roger Chen, Jame Yao, Douglas Elliot (IPSI LLC). Published in the proceedings of the AIChE 2006 Spring National Meeting, 6th Topical Conference on Natural Gas Utilization, April 23-27, 2006, Orlando, Florida. One of 13 papers to receive the Bechtel Corporation Outstanding Technical Paper Award for 2006.
- Retrofit for NGL Recovery Performance Using a Novel Stripping Gas Refrigeration Scheme", Lily Bai, Roger Chen, Jame Yao and Doug Elliot. Presented at the 85th Annual Gas Processors Association Convention, March 5-8, 2006, Grapevine, Texas, and published in Proceedings. One of 13 papers to receive the Bechtel Outstanding Technical Paper Award for 2006.