
-Responsible for teaching students, developing research programs, advising students and serving as a member of committees. Courses taught include: Chemical Reaction Engineering (CE 360), Transport Phenomena (CE 410), Chemical Engineering Thermodynamics I (CE 250), Thermodynamics II (CE 350), Fluid Mechanics (CE 220), Heat Transfer (CE 310), Senior Unit Operations Lab. (CE 420), Junior Unit Operations Lab. (CE 320), Senior Engineering Analysis and Design (CE 490) and Process Control (CE 430).

1980 to COAL LIQUEFACTION LABORATORY, AUBURN UNIVERSITY, Auburn,
1982 AL 36830
Research Associate

1975 to GULF OIL CORP., GULF MINERAL CO., SYNTHETIC FUEL DIVISION, THE
1980 PITTSBURGH AND MIDWAY COAL MINING CO., SOLVENT REFINED COAL
(SRC) PILOT PLANT, North Fort Lewis, Washington
Process Engineer

1973 to SUPERIOR OIL CO., Commerce City, Colorado
1974 Part-time Research Engineer

1968 to SAMGSUNG GROUPS, KOREA FERTILIZER CO, Ulsan, Korea
1968 Production/Process Engineer

Summers PITTSBURGH ENERGY TECHNOLOGY CENTER, Pittsburgh, PA 15236-0940
83/84/ Oak Ridge Associated Universities Faculty Research Participant
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Summer U.S. ARMY CHEMICAL RESEARCH, DEVELOPMENT AND
1987 ENGINEERING CENTER, Aberdeen Proving Ground, Maryland 21010-5423.
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Summer U. S. AIR FORCE ENGINEERING AND SERVICE CENTER, Tyndall AFB,
1990 Panama City, Florida 32403-6001
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- "Viscosity Study on Kentucky Coal Slurry", Solvent Refined Coal Process Quarterly Technical Progress Report for April-June, 1977, FE/496-141, U.S. Department of Energy.

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-Reaction Kinetics on Removal of Hydrogen Sulfide with Metal Oxide Sorbents at High Temperature and Pressure”, Separation Science and Technology, V. 32, No. 1-4, Pg. 775-792, 1997.

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-”Reaction Kinetics on Removal of Hydrogen Sulfide with Metal Oxide Sorbents at High Temperatures and Pressures”, was presented at the Ninth Symposium on SEPARATION SCIENCE AND TECHNOLOGY FOR ENERGY APPLICATIONS, Park Vista Hotel & Convention Center, Gatlinburg, Tennessee, October 22-26, 1995.

-“Removal of Hydrogen Sulfide from Simulated Coal Gases, Using Metal Oxide Sorbents at High Temperature and High Pressure “, was presented at The Fourth Annual HBCU/Private Sector-Energy Research and Development Technology Transfer Symposium, Greensboro, North Carolina, April 2-4, 1996.

-”Reactivity of Metal Oxide Sorbents”, was accepted for presentation at the Advanced Coal-Fired Power Systems ‘96 Review Meeting, Morgantown Energy technology Center, Morgantown, WV, July 16-18, 1996.

-“Reactivity of Promising Metal Oxide Sorbents for Removal of Hydrogen Sulfide from Hot Coal Gases”, presented for the Session 110-Reactive Separation Processes I at 3:35 PM, November 13, 1996, the 1996 Annual AIChE Meeting, Chicago, November 10 -15, 1996.

-“Formulation of Metal Oxide Sorbents for Removal of Wet Hydrogen Sulfide”, was accepted for presentation at the 1997 Spring National AIChE Meeting, Houston, March 9 - 13, 1997.

-“Reactivity of Sorbents with Hot Hydrogen Sulfide in the Presence of Moisture and Hydrogen”, K. C. Kwon and Santosh K. Gangwal, presented at the Eleventh Symposium on Separation Science and Technology for Energy Applications, Park Vista Hotel & Convention Center, Gatlinburg, Tennessee, October 17 -21, 1999.

-“Reactivity of Metal Oxide Sorbents in the Removal of Hot Hydrogen Sulfide”, K. C. Kwon, Jennifer T. Pinder and Santosh K. Gangwal, presented at Spring AIChE National Meeting, March 5-9, 2000, Atlanta, GA.

-“Initial Reactivity of Metal Oxide Sorbents with H₂

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Reactivity of AHI-5 Sorbent with Hot Hydrogen Sulfide in the Presence of Moisture and Hydrogen
Paper # 263b, Novel Adsorbents for Pollution Prevention, AIChE's 2001 Annual Meeting, Reno
Hilton, Reno, Nevada

Kinetics of Direct Oxidation of Hydrogen Sulfide in Coal Gas to Elemental Sulfur, November 3 - 8,
Indianapolis, AIChE 2002 Annual Meeting

Reactivity of MCRH-67 Sorbent with Hot Hydrogen Sulfide in the Presence of Moisture and
Hydrogen, November 3 - 8, Indianapolis, Indiana AIChE 2002 Annual Meeting

Kinetics of Direct Oxidation of Hydrogen Sulfide in Coal Gas to Elemental Sulfur Historically Black
Colleges and Universities and Other Minority Institutions Contractors Review Meeting, Pittsburgh
Marriott City Center, June 4 -5, 2002

Measuring Viscosity of Carboxymethylcellulose With a Tank-Tube Viscometer, November 3 - 8,
Indianapolis, Indiana AIChE 2002 Annual Meeting

Molecular Diffusion Experiments, November 3 - 8, Indianapolis, Indiana, AIChE 2002 Annual
Meeting.

Conversion of H₂S in Coal Gases to Liquid Elemental Sulfur in a Micro Bubble Reactor
Engineered Particle Systems: Synthesis, Processes and Application Topical Proceedings, AIChE
Annual Meeting, San Francisco, CA, 2003

Characterization of Pseudo-plastic Fluids with a Novel Viscometer Incorporating New
Technology into Chemical Engineering Education (session 500), AIChE 2003 Annual Meeting
November 16 -21, 2003, San Francisco, California

Reactivity of EXSO3 Sorbent with Hot Hydrogen Sulfide in the Presence of Moisture and
Hydrogen, AIChE 2003 Annual Meeting November 16 -21, 2003, San Francisco, California.

Conversion of H₂S in Coal Gas to Liquid Elemental Sulfur in a Micro Bubble Reactor, Novel
Fluidized Bed Application (session 53), AIChE 2003 Annual Meeting

