

SPONSORED RESEARCH:

"Non-Newtonian Boundary Layer on a Submerged Flat Plate," Office of Naval Research, Grant #N00014-68-A-0152; 9-1-69/8-31-70; University of Notre Dame; \$25,000; Completed.

"Viscoelastic Effects on the Turbulent Boundary Layer of a Submerged Flat Plate," Office of Naval Research, Grant #N00014-68-A-0152; 9-1-70/8-31-71; University of Notre Dame; \$24,000; Completed.

"Viscoelastic Effects on the Turbulent Boundary Layer of a Submerged Flat Plate," Office of Naval Research, Grant #N00014-68-A-0152; 9-1-71/8-31-72; University of Notre Dame; \$27,000; Completed.

"Liquid Membrane Separation Processes," Faculty Research Fund, University of Notre Dame, 1-1-72/5 31-72; University of Notre Dame; \$600; Completed.

"Mass Transfer and Liquid Distribution in Three Phase Reactors," National Science Foundation, Grant #GK-34764; 6-1-72/8-31-73; University of Tulsa; \$16,000; Completed.

"Drag Reduction in Two-Phase, Gas-Liquid Flow," (Co-principal investigator: J. P. Brill); American Gas Association; Contract #PR-92-70; 3-1-73/12-31-73; University of Tulsa; \$21,338; Completed.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1974; University of Tulsa; \$44,000.

"Drag Reduction in Two-Phase, Gas-Liquid Flow," (Co-principal investigator: J. P. Brill); American Gas Association, 1974; University of Tulsa; \$59,689.

"Literature Study for Effluent Limitations for Onshore and Offshore Oil and Gas Facilities," EPA Contract: WA74X208, 1974; (Co-investigator: F. S. Manning); \$18,000; Completed.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1975; University of Tulsa; \$59,500.

"Drag Reduction in Two-Phase, Gas-Liquid Flow," (Co-principal investigator: J. P. Brill); American Gas Association, 1975; University of Tulsa; \$55,937.

"Orifice Coefficients for Velocity Controlled Subsurface Safety Valves," (Co-investigators: J. P. Brill and H. D. Beggs); American Petroleum Institute, 1975; University of Tulsa; \$64,145; Completed.

"Pollution Profiles for Petrochemical Production," (Co-investigators: F. S. Manning, W. C. Philoon, and R. Rorschach); Environmental Protection Agency, 1976; University of Tulsa; \$30,000.

"Drag Reduction in Two-Phase, Gas-Liquid Flow," (Co-principal investigator: J. P. Brill); American Gas Association, 1976; University OSA; \$22,000.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1976; University of Tulsa; \$54,000.

"Oil-Water Separation by Induced-Air Flotation," National Science Foundation, Grant No. ENG76 02866, 4-1-76/9-30-78, University of Tulsa; \$42,700.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1977; University of Tulsa; \$67,500.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1978; University of Tulsa; \$55,000.

"Research Seminar on Enhanced Oil Recovery," National Science Foundation, Grant No. ENG78-09863, March 1978, University of Tulsa; \$6,700.

"Determination of Minimum Velocity for Single Phase Drag Reduction with PIB," Exxon Chemical Company, 1978, University of Tulsa; \$7,143.

"Academic-Industrial Research Seminar on Enhanced Oil Recovery," National Science Foundation, ENG-7904044, March 1979, University of Tulsa; \$6,794.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1979; University of Tulsa; \$55,000.

University of Tulsa Enhanced Recovery Projects, (Co-investigators: F. S. Manning, K. D. Luks, and C. Ikoku), Various Petroleum Companies, 1979; \$69,000.

University of Tulsa Enhanced Recovery Projects, (Co-investigators: F. S. Manning, K. D. Luks, and C. Ikoku), Various Petroleum Companies, 1980; \$91,500.

University of Tulsa Environmental Protection Projects (UTEPP), Various Petroleum Companies, 1980; University of Tulsa; \$59,840.

University of Tulsa Environmental Protection Projects (UTEPP), (Co-investigator: E. H. Snider), 1981, University of Tulsa; \$51,500.

University of Tulsa Reservoir Engineering Projects (UTREP), 1988, University of Tulsa; \$180,000. Center for Environmental Research and Technology (CERT), 1989, University of Tulsa; \$250,000.

A Drag and Heat Transfer Reduction Using Surfactants, Global Chemical Co., 1993-95; \$250,000.