

9. BIBLIOGRAPHY

- (1) Magee, E. M., Hall, H. J. and Varga, G. M., Jr., "Potential Pollutants in Fossil Fuels," EPA-R2-73-249, June 1975. NTIS PB-225 039.
- (2) Hall, H. J., Varga, G. M., Jr. and Magee, E. M., "Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology," St. Louis, Missouri, May 1974, EPA-650/2-74-118, pp. 35-47.
- (3) Magee, E. M., Jahnig, C. E. and Shaw, H., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 1: Koppers-Totzek Process," EPA-650/2-74-009a, January 1974. NTIS PB-231 675.
- (4) Kalfadelis, C. D. and Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 2: Synthane Process," EPA-650/2-74-009b, June 1974. NTIS PB-237 113.
- (5) Shaw, H. and Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 3: Lurgi Process," EPA-650/2-74-009c, July 1974. NTIS PB-237 694.
- (6) Jahnig, C. E. and Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 4: CO₂ Acceptor Process," EPA-650/2-74-009d, December 1974. NTIS PB-241 141.
- (7) Jahnig, C. E., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 5: BIGAS Process," EPA-650/2-74-009g, May 1975. NTIS PB-243 694.
- (8) Jahnig, C. E., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 6: HYGAS Process," EPA-650/2-74-009h, August 1975.
- (9) Jahnig, C. E., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 7: U-Gas Process," EPA-650/2-74-009i, August 1975.
- (10) Jahnig, C. E., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Gasification; Section 8: Winkler Process," EPA-650/2-74-009j, September 1975.
- (11) Jahnig, C. E., Magee, E. M. and Kalfadelis C. D., "Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology," St. Louis, Missouri, May 1974, EPA-650/2-74-118, p. 197-201.
- (12) Bertrand, R. R. and Jahnig, C. E., "A Look at Environmental Aspects of Coal Conversion," presented at the American Chemical Society Meeting, Philadelphia, Pennsylvania, April 1975.

- (13) Jahnig, C. E. and Bertrand, R. R., "Environmental Aspects of Coal Gasification," presented at the Institute of Chemical Engineers Meeting, Boston, Massachusetts, September 1975.
- (14) Lowry, H. H., Ed., "Chemistry of Coal Utilization-Supplementary Volume," John Wiley and Sons, New York, 1963.
- (15) Ohio State University, "Acid Mine Drainage Formation and Abatement," for EPA, April 1971. NTIS PB-199 835.
- (16) Truax-Traer Coal Company, "Control of Mine Drainage from Coal Mine Mineral Waste," EPA Report No. 14010 DDN, August 1971. NTIS PB-208 326.
- (17) Farnsworth, J. F., Mitsak, D. M. and Kamody, J. F., "Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology," St. Louis, Missouri, May 1974, EPA-650/2-74-118, pp. 115-130.
- (18) Parrish, R. W. and Neilson, H. B., "Synthesis Gas Purification Including Removal of Trace Contaminants by the BENFIELD Process," presented at Division of Industrial and Engineering Chemistry, ACS Meeting, Los Angeles, March-April 1974.
- (19) Katell, S. and Faber, J. H., Pet. Ref., March 1960, p. 187-190.
- (20) Ranke, G., Chemical Economy and Engineering Review, 4, (J) (49), 25-31, May 1972.
- (21) Anon, "El Paso Natural Gas Company Burnham Coal Gasification Complex-Plant Description and Cost Estimate," prepared by Stearns-Roger, Inc., August 16, 1972 (Rev. 9/20/72). Application of El Paso Natural Gas Company before U.S. Power Commission, Docket No. CP 73-131, November 15, 1972 (Rev. Oct. 1973).
- (22) Sweny, J. W., "Synthetic Fuel Gas Purification by the Selexol Process," ACS Div. of Fuel Chem., Preprints, 18, (2), 142-156 (1973).
- (23) Anon, "The Selexol Process for Acid Gas Removal," Bulletin #273, Allied Chemical Corp.
- (24) Anon, Hydrocarbon Proc., 79-138, April 1975.
- (25) Estep, J. W., et al, "The Recovery of Sulfur from Sour Natural and Refinery Gases," in Advances in Petroleum Chemistry and Refining, J. J. McKetta, Jr., Ed., Vol. 6, p. 315-466, Interscience Pub., 1962.
- (26) Riesenfeld, F. C. and Kohl, A. L., "Gas Purification, 2nd Edition" Gulf Publishing Co., Houston, 1974.
- (27) Updegraff, N. C. and Reed, R. M., Pet. Engineer, September 1954, p. C-57-C-63.
- (28) Allen, D. W. and Yen, W. H., Chem. Eng. Prog., 69, (1), 75-79, January 1973.

- (29) Latimer, R. E., Chem. Eng. Prog., 63, No. 2, 35-59, 1967.
- (30) Gamson, B. W. and Elkins, R. H., Chemical Eng. Prog., 49, No. 4, 1953, pp. 203-215.
- (31) Goar, G., Hydrocarbon Proc., 47, No. 9, 1968, pp. 248-252.
- (32) Ludberg, J. E., "Removal of Hydrogen Sulphide from Coke Oven Gas by the Stretford Process," 64th Annual Meeting of the Air Pollution Control Association, June-July 1971.
- (33) Moyes, A. J. and Wilkinson, J. S., The Chemical Engineer, February 1974, pp. 84-90.
- (34) Elwood, P., Chemical Engineering, July 20, 1964, pp. 128-130.
- (35) Beychok, M. R., "Aqueous Wastes from Petroleum and Petrochemical Plants," John Wiley and Sons, New York, 1973.
- (36) Metcalf and Eddy, Inc., "Wastewater Engineering," McGraw-Hill, New York, 1972.
- (37) Kostenbader, P. D., and Flecksteiner, J. W., Journal WPCF, 41, No. 2, Part 1 pp. 199-207, February 1969.
- (38) Magee, E. M. and Shaw, H., "Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology," St. Louis, Missouri, May 1974, EPA-650/2-74-118, pp. 309-313.
- (39) Thibodeaux, L. J. and Parker, D. G., "Desorption Limits of Selected Industrial Gases and Liquids from Aerated Basins," Paper No. 30D, AIChE Meeting, Tulsa, Oklahoma, March 1974.
- (40) Peoples, R. F., Krishnan, P. and Simonsen, R. N., Journal WPCF, 44, No. 11, 2120-2128, November 1972.
- (41) Kalfadelis, C. D. and Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Liquefaction; Section 1: COED Process," EPA-650/2-74-009e, January 1975. NTIS PB-240 372.
- (42) Jahnig, C. E. and Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Liquefaction; Section 2: SRC Process," EPA-650/2-74-009f, March 1975. NTIS PB-241 792.
- (43) Jahnig, C. E., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Liquefaction; Section 3: H-Coal Process," EPA-650/2-74-009m, October 1975.
- (44) Magee, E. M., "Evaluation of Pollution Control in Fossil Fuel Conversion Processes, Coal Treatment; Section 1: Meyers Process," EPA-650/2-74-009k, September 1975.

- (45) Schultz, Hyman, et al, "The Fate of Some Trace Elements During Coal Pretreatment and Combustion," ACS Div. of Fuel Chem., 8, (4), p. 108, August 1973.
- (46) Klein, D. H., et al, "Pathways of Thirty-seven Trace Elements Through Coal-Fired Power Plant," Environmental Sci. and Tech., 9, No. 10, 1975, p. 973-979.
- (47) Kaakien, J. W., et al, "Trace Element Behavior in Coal-Fired Power Plant," Environmental Science and Technology, 9, (9), pp. 862-869, 1975.
- (48) Andren, A. W. and Klein, D. H., "Selenium in Coal-Fired Steam Plant Emission," Environmental Science and Technology, 9, (9), pp. 856-858, 1973.
- (49) Billings, C. E., et al, "Mercury Balance on a Large Pulverized Coal-Fired Furnace," J. Air Poll. Control Association, 23, (9), p. 773, 1973.
- (50) Attari, A., "The Fate of Trace Constituents of Coal During Gasification," EPA-650/2-73-004, August 1973.
- (51) Forney, A. J., et al, "Trace Element and Major Component Balances Around the Synthane PDU Gasifier," Pittsburgh Energy Research Center, Report No. PERC/TPR-75/1, August 1975.
- (52) Forney, A. J., et al, "Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process," Bureau of Mines Applications of Improved Technology to Provide Clean Energy Programs, Tech. Prog. Report 76, January 1974.
- (53) Kalfadelis, C. D., et al, "Evaluation of Pollution Control in Fossil Fuel Conversion Processes; Analytical Test Plan," EPA-650/2-74-009-1, October 1975.
- (54) "Char Oil Energy Development," Office of Coal Research, R&D Report No. 73 - Interim Report No. 2, GPO Cat. No. I63.10:73/Int. 2, July 1974.
- (55) Forney, A. J., et al, "Symposium Proceedings: Environmental Aspects of Fuel Conversion Technology," St. Louis, Missouri, May 1974, EPA-650/2-74-118, p. 107, October 1974.
- (56) Communication from the Scottish Gas Board, Westfield Works, Cardenden, Fife, Scotland, November 1974.
- (57) Communication from the South African Coal, Oil, and Gas Corporation, Ltd. (SASOL), Sasolburg, South Africa, November 1974.
- (58) Communication from Azot Sanayii, Kutahya, Turkey, November 1974.

- (59) Shultz, F. G. and Lewis, P. S., "Hot Sulfur Removal from Producer Gas," Paper presented at the 3rd International Conference on Fluidized Bed Combustion, Hueston Woods State Park, Ohio, October 29-November 1, 1972.
- (60) Squires, A. M., "Cyclic Use of Calcined Dolomite to Desulfurized Fuels Undergoing Gasification," Paper No. 14 in "Fuel Gasifications," Advances in Chemistry Series 69, ACS, Washington, D.C., 1967.
- (61) Moore, R. H., et al, "A Process for Cleaning and Removal of Sulfur Compounds from Low Btu Gases," R&D Report No. 100, Interim Report No. 1, by Pacific Northwest Laboratories, Division Battelle Memorial Institute, for Office of Coal Research, August 1974.
- (62) Colorado State University, "Water Pollution Potential of Spent Oil Shale Residues," for EPA, NTIS PB-206 808, December 1974.
- (63) Ricketts, T. S., "Operation of the Westfield Lurgi Plant", Journal of Inst. of Gas Eng., Oct. 1967, p. 563.
- (64) Goeke, E. K., "Chemical Age (India)," 25 No. 5 pp. 301-305
- (65) Chemetron Corp., "Technical Data Sheets on Girdler Catalyst," G521072 and G61RS1072.
- (66) Catalyst Regeneration Services Inc., "Hydrocarbon Processing," Sept. 1975 p. 319.
- (67) Jones, H. R., "Pollution Control in the Petroleum Industry," ndc Manual 1973.
- (68) Vanderlinde, L. G., "Smokeless Flares," Hydrocarbon Processing Oct. 1974, pp. 99-104.
- (69) Congram, G. E., "Proper Maintenance Extends Pump Seal Life," Oil Gas Journal, Nov. 10, 1975, pp. 186-188.
- (70) Colgate, J. L., Akers, D. J., and From, R. W., "Gob Pile Stabilization," Reclamation, and Utilization," OCR R&D Report No. 75, 1973.
- (71) Lillis, E. J. and Young, D., "EPA Looks at Fugitive Emissions," JAPCA 25 No. 10, pp. 1015-1018.
- (72) Story, M. J., "Proceedings of International Clean Air Conference," Rotrua, New Zealand, Feb. 17-21, 1975.
- (73) Maze, R. W., "Air Cooler or Water Tower - Which for Heat Disposal?" Chemical Engineering, Jan. 6, 1975, pp. 106-114
- (74) Booz Allen and Hamilton Company study for EPA, "Pollution Control in Fossil Fuel Conversion Processes," No. 9075-015, March 1974.

- (75) Schora, F. C., "Analysis of the Hygas Coal Gasification Plant Design," AIChE 65th Annual Meeting, New York City, Nov. 27-30, 1972.
- (76) Kavlic, V. J., Lee, B. S., "Coal Pretreatment in Fluidized Bed," American Chemical Society, Division of Fuel Chemistry, Sept. 1966.
- (77) Patton, P. W. and Joyce, C. F., "How to Find the Lowest Cost Vacuum System," Chemical Engineering, Feb. 2, 1976.
- (78) "Clean Boiler Fuels from Coal," R&D Report 82 Interim Report No. 1 Volume II (Figure 9), Prepared for OCR by Ralph M. Parsons Co.
- (79) "Gas Processing Handbook," Hydrocarbon Processing, April 1975, pp. 79-135.
- (80) McRea, D. H., "Benfield Activated Hot Potassium Carbonate Process," EPA Symposium: Environmental Aspects of Fuel Conversion Technology Hollywood, Florida, Dec. 15-18, 1975.
- (81) Heisler, L., and Weiss, H., "Experience with an Austrian Gas Plant," Hydrocarbon Processing, May 1975, pp. 157-161.
- (82) Pearson, M. J., "Developments in Claus Plant Catalysts," Hydrocarbon Processing, Feb. 1973, pp. 81-85.
- (83) Thibodeaux, L. J., and Carter, N. J., "Coliform Emissions from Air/Water Contractors," Recent Advances in Air Pollution Control, AIChE, 1974.
- (84) Donohue, J. M., and Nathan, C. C., "Unusual Problems in Cooling Water Treatment," Chem. Eng. Progress, 71 No. 7 pp. 88-96.
- (85) "Cleaning Our Environment," ACS 1969, p. 148.
- (86) Detman, R., "Procedures for Pricing Synthetic Pipeline Gas from Coal," Seventh Pipeline Gas Symposium, Chicago, Ill., Oct. 27-29, 1975.
- (87) Workshop on Water Needs at University of Illinois, Oct. 20-22, 1974, Res. Rept. 93 dated Nov. 1974, p. 180 and reference 3.
- (88) Kostenbader, P. D., and Flecksteiner, J. W., "Biological Oxidation of Coke Plant Weak Ammonia Liquor," Journal WPCF 41 No. 2 pp. 200-207.
- (89) Congram, G. E., "Trim Fuel Costs in Steam Generation," Oil Gas Journal, May 5, 1975, pp. 235-237.
- (90) Ball, J., Adams, D. G., and Stryker, C. A., "Management of Tank Washings in Marine and Coastal Commerce," Texas A&M University, Report TAMU-SG-74-221, Feb. 1975.
- (91) Beckner, J. L., "Trace Element Composition and Disposal of Gasifier Ash," Seventh Synthetic Pipeline Gas Symposium (AGA), Chicago, Ill. Oct. 27-29, 1975.

- (92) Mills, R. A., and Tassicker, O. J., "Analysis of Pilot Plant Electrostatic Precipitator Testing," International Clean Air Conference, Rotorua, New Zealand, Feb. 17-21, 1975.
- (93) James, R., and Block, H. P., "Predictive Maintenance System Improved at Exxon Chemical Plant," Oil Gas Journal, Feb. 2, 1976, pp. 59-64.
- (94) Bolln, J. J., "Commercial Concept Designs," Fifth Synthetic Pipeline Symposium, Chicago, Ill., Oct. 29-31, 1973.
- (95) Fluor Engineers and Constructors Inc., "Economics of Air vs. O₂ Pressure Gasification of Coal," EPRI239-1, Jan. 1975, (PB 242, 595).