

- Inflammable Gas-Air Mixtures by Explosives. *Ind. Eng. Chem.*, vol. 19, No. 11, November 1927, pp. 1293-1295.
6097. PERROTT, GEORGE ST. J., AND GAWTHROP, DONALD B. Effect of Oxygen Purity on Explosive Properties of Liquid Oxygen Explosives. *Eng. Min. Jour.*, vol. 121, May 22, 1920, pp. 847-848.
6098. ———. Photographic Measurement of Rate of Detonation of Explosives. *Jour. Franklin Inst.*, vol. 203, March 1927, pp. 103-110.
6099. ———. Propagation of Detonation Across an Air-Gap Between Two Cartridges of Explosives. *Jour. Franklin Inst.*, vol. 203, May 1927, pp. 387-406.
6100. ———. Propagation of Detonation Across a Gas-Gap Between Two Cartridges of Explosive. *Jour. Franklin Inst.*, vol. 208, No. 5, November 1929, pp. 643-660.
6101. PERROTT, G. ST. J., AND KINNEY, S. P. Combustion of Coke in Blast-Furnace Hearth. *Trans. AIME*, vol. 69, 1923, pp. 543-586.
6102. ———. Conditions Under Which Bulk-Oil Concentration of Fine Coal Gives Best Results. *Coal Age*, vol. 20, 1921, pp. 172-175.
6103. ———. Meaning and Microscopic Measurement of Average Particle Size. *Jour. Am. Ceram. Soc.*, vol. 6, 1923, pp. 417-439.
6104. ———. Microscopic Measurement of Pigment Particles. *Paint, Oil and Chem. Rev.*, vol. 75, No. 11, 1923, pp. 10-11.
6105. ———. Use of Oil in Cleaning Coal. *Chem. Met. Eng.*, vol. 25, 1921, pp. 182-188.
6106. PERROTT, G. ST. J., AND SHERMAN, R. A. Reactivity of Coke in Relation to Blast-Furnace Operation. *Proc. Eng. Soc. West. Pennsylvania*, vol. 39, January 1924, pp. 351-360; disc., pp. 370-375.
6107. PERROTT, G. ST. J., AND THIESSEN, R. Carbon Black: Its Properties and Uses. *Ind. Eng. Chem.*, vol. 12, 1920, pp. 324-331.
6108. PERROTT, G. ST. J., AND YANT, W. P. Safety Investigations and Approval System of the U.S. Bureau of Mines: Their Application to the Chemical Industry. *Trans. Nat. Safety Council*, vol. 1, 1930, pp. 450-463.
6109. PERROTT, G. ST. J., TOLCH, NOAH A., AND CRAWSHAW, JOHN E. Relation Between Oxygen Balance and Propulsive Strength of Eight Gelatin Dynamites. *AIME, Tech. Pub.* 101, March 1928, 10 pp.
6110. PERRY, HARRY. Chemicals From Coal. *Utilization*, vol. 8, No. 12, December 1954, pp. 57-60.
———. See items 1317, 1436, 1437, 1543, 2021, 2091, 2094, 4078.
6111. PERRY, H. AND MCGEE, J. P. Process Heat From Nuclear Reactors. *Chem. Eng.*, vol. 66, No. 4, February 23, 1959, pp. 143-146.
6112. ———. Use of Nuclear Energy for Process Heat. 2d United Nations Internat. Conf. on Peaceful Uses of Atomic Energy. June 1958, 12 pp.
6113. PERRY, H., COREY, R. C., AND ELLIOTT, M. A. Continuous Gasification of Pulverized Coal With Oxygen and Steam by Vortex Principle. *ASME*, paper 49-A-73, 12 pp; *Trans. ASME*, vol. 72, No. 9, July 1950, pp. 599-610.
6114. PERRY, J. H. Adsorption of Some Vapors by Alumina Gel. *Jour. Phys. Chem.*, vol. 29, November 1925, pp. 1462-1468.
6115. ———. The Joule-Thomson Effect for Helium. *Jour. Phys. Chem.*, vol. 28, 1924, pp. 1108-1112.
———. See item 6161.
6116. PERRY, J. H., AND BARDWELL, D. C. Vapor Pressures of Solid and Liquid Cyanogen. *Jour. Am. Chem. Soc.*, vol. 47, November 1925, pp. 2029-2032.
6117. PERRY, J. H., AND PORTER, FRANK. Vapor Pressures of Solid and Liquid Hydrogen Cyanide. *Jour. Am. Chem. Soc.*, vol. 48, February 1926, pp. 209-302.
6118. PERRY, R. E. Beneficiation of Brown Ores. U.S. Patent 2,700,541, Nov. 6, 1956.
6119. ———. A Method of Agglomerating Ore Fines. U.S. Patent appl. 857,235, filed Dec. 3, 1959.
6120. PERZ, FRANK. Testimony at investigation of mine explosion at Centralia, Ill., before spec. subcommittee of Committee on Public Lands. U.S. Senate, 80th Cong., 1st sess., Apr. 3, 4, 5, 10, 16, 17, 1947, pp. 40-63.
- PETAR, A. V. See item 7992.
- PETERMANN, F. B. See items 6318, 6320.
- PETERS, CHARLES A., JR. See item 437.
- PETERSON, H. E. See items 2793, 7266-7268a.
6122. PETERSON, MAURICE J. Spectrochemical Determination of Iron, Magnesium, and Manganese in Titanium Metal. *Anal. Chem.*, vol. 22, No. 11, November 1950, pp. 1308-1400.
———. See item 4008.
6123. PETERSON, M. J., AND ENNS, J. H. Suggested Method for Spectrochemical Analysis of Titanium and Titanium Alloys by the Porous Cup-Spark Technique. *ASTM Methods for Emission Spectrochem. Anal.*, 1957, pp. 200-207.
6124. PETERSON, M. J., KAUFFMAN, A. J., JR., AND JAFFE, H. W. Spectroscope in Determinative Mineralogy. *Am. Mineral.*, vol. 32, Nos. 5-6, May-June, 1947, pp. 322-335.
6125. PETERSON, V. C. Surface Contamination of and Quality in Titanium Fabrication. *Mat. and Meth.*, vol. 38, July 1953, pp. 72-73.
6126. PETROLEUM AND NATURAL-GAS BRANCH (H. M. SMITH) AND TULSA GEOLOGICAL SOCIAL RESEARCH COMMITTEE. Relationship of Crude Oils and Stratigraphy in Parts of Oklahoma and Kansas. *Bull. Am. Assoc. Petrol. Geol.*, vol. 31, No. 1, January 1947, pp. 92-148.
- PFLEIFFER, J. J. See items 1435, 5698.
6127. PHALEN, W. C. Conservation of Phosphate Rock in United States. *Trans. AIME*, vol. 57, 1917-18, pp. 99-132.
6128. ———. Diatomaceous Earth in Industry. *Chem. Eng.*, vol. 28, 1920, pp. 113-115.
6129. ———. Diatomaceous or Infusorial Earth. *Chem. Met. Eng.*, vol. 22, May 20, 1920, pp. 981-982.
6130. ———. The Future of the Magnesium Industry in the United States. *Chem. Age*, vol. 28, 1920, pp. 284-287.
- PHILBROOK, W. O. See items 3806, 3807, 4647, 4648.
- PHILLIPS, E. R. See item 3895.
- PHILLIPS, J. R. See item 1194.
6131. PICKARD, B. O. Berkeley Safety Station of the Bureau of Mines. *California Eng.*, 1923.
6132. ———. Breathing Apparatus for Firemen. *Pacific Coast Fire Chief*, August 1925, pp. 6-9; *Pac. Safety Eng.*, vol. 1, September 1925, pp. 8-11.
6133. ———. Dangers in Entering Abandoned Mines. *Pac. Min. News*, vol. 1, 1922, p. 145.
6134. ———. Organization for Fire Fighting in Metal Mines. *Min. Cong. Jour.*, vol. 11, April 1925, pp. 158-160.
6135. ———. Rescue Work at Argonaut Mine Fire in 1922. *Min. and Met.*, vol. 3, 1922, pp. 27-34.
6136. ———. Underground Air Conditions and Ventilation Methods of Tonopah, Nev. *Trans. AIME*, vol. 75, 1927, pp. 107-121.
———. See item 3393.

- PIDGEON, F. D. See Item 1882.
6138. PIDGEON, F. D., AND DODD, C. G. Improved Procedure For Precise Particle Surface-Area Measurement With the Microscope. 12th Internat. Cong. Pure and Appl. Chem., New York, N.Y., Sept. 13, 1951.
6139. PIERCE, C. I., AND LOWE, R. B. Some Tests Related to Resistivity—Water Saturation Measurements on Appalachian Sandstone Specimens. *Producers Monthly*, vol. 23, Pt. 1, No. 4, February 1959, pp. 27-34; Pt. II, No. 5, March 1959, pp. 14-19.
- PIERCE, H. R. See Item 521.
- PIERCE, LOIS. See Item 2758.
- PIERSON, CALVIN. See Item 1772.
- PIETZ, EMIL. See Items 7451-7454.
- PINCUS, A. See Item 829.
- PINKEL, I. I. See Items 3688, 3689, 3691, 3692, 7511, 7520, 7521.
- PIPLEN, A. P. See Items 5631, 5632.
- PITTMAN, W. F. See Item 5413.
6140. PITTSBURGH STATION STAFF. In the Operation of Domestic Heating Furnaces Avoid Leakage of Gases into the House. *Finance and Commerce*, vol. 57, Feb. 15, 1932, p. 1.
- PLACE, P. B. See Items 1681, 1696, 1697.
- PLANTS, K. D. See Item 7534.
6141. PLATT, D. H. Diesel Engines Underground. Transactions of Mining Section, 37th Nat. Safety Cong. and Exhibition, October 1949.
6142. ———. A Review of Diesel-Powered Equipment Operations Observed in Mines in Kansas, Oklahoma, Louisiana, and Texas. *Trans. 37th Nat. Safety Cong.*, 1949, vol. 19, pp. 12-18.
- PLEIN, L. N. See Item 5601.
6143. PLEIN, L. N., AND TRYON, F. G. Mechanization in the Coal Industry in 1935. *Min. Cong. Jour.*, vol. 22, February 1936, pp. 36-37, 57; *Am. Min. Cong. Yearbook, Coal-Mine Mechanization*, 1936, pp. 34-40.
6144. ———. Sales of Mechanical Loading and Cleaning Equipment for Use in Coal Mines in 1936. *Am. Min. Cong. Mechanization Year Book*, 1937, pp. 68-85; *Ext., Min. Cong. Jour.*, vol. 23, February 1937, pp. 57-60.
6145. PLEIN, L. N., ANDERSON, R. L., AND GALLAGHER, J. J. Mechanical Loading and Cleaning in 1936 and 1937. *Min. Cong. Jour.*, vol. 24, June 1938, pp. 28-29; *Am. Min. Cong., Yearbook on Coal-Mine Mechanization*, 1938, pp. 65-78.
6146. PLEIN, L. N., ANDERSON, R. L., VAN SICLEN, M., AND TRYON, F. G. Loading-Machine Sales Well-Maintained in 1937. *Coal Age*, vol. 43, February 1938, pp. 50-59.
6147. ———. Sales of Mechanical Loading Equipment for Use in Coal Mines in 1937. *Min. Cong. Jour.*, vol. 24, February 1938, pp. 53-56.
6148. PLEIN, L. N., BERQUIST, F. E., AND TRYON, F. G. Mechanical Loading Underground. *Eng. Min. Jour.*, vol. 138, May 1937, pp. 241-243, 254.
6149. PLEIN, L. N., GALLAGHER, J. J., VAN SICLEN, M., AND TRYON, F. G. Coal Mine Loading Equipment. *Am. Min. Cong. Yearbook on Coal-Mine Mechanization*, 1939, pp. 78-87.
6150. ———. Loading-Machine Sales Fall Less Than Output in 1938. *Coal Age*, vol. 44, February 1939, pp. 50-58.
6151. ———. Sales of Coal-Mine Loading Equipment. *Min. Cong. Jour.*, vol. 25, February 1939, pp. 40-43.
6152. PLEIN, L. N., MANN, L., BENNETT, H. L., AND TRYON, F. G. Statistical Analysis of Mechanical Loading in Bituminous and Anthracite Mines in 1934. *Am. Min. Cong. Coal-Mine Mechanization Yearbook*, 1935, pp. 45-58.
- PLUMMER, C. E. See Item 6733.
- POHLE, W. D. See Items 1682, 4358, 7139.
6153. POLACK, S. P. Development and Testing of Fire-Resistant Hydraulic Fluids for Mine Use. *Lub. Eng.*, vol. 15, No. 10, October 1959, pp. 403-406, 410.
6155. ———. Progress in Developing Fire-Resistant Hydraulic Fluids. *Iron and Steel Eng.*, vol. 35, No. 8, 1958, pp. 87-92.
6156. ———. Recherche d'une méthode d'essai de la résistance au feu des courroies transporteurs. *Rev. Ind. min.*, vol. 38, No. 649, December 1950, pp. 780-783.
6157. ———. Researching New Hydraulic Fluids. *Coal Age*, vol. 62, No. 1, January 1957, pp. 82-84.
- . See Items 8129, 8130.
- POLLICHNIK, M. See Items 4700, 4701, 4705.
- POLLOCK, R. N. See Item 970.
- PONDROM, W. L., JR. See Item 4995.
- PONTELLO, A. See Item 1318.
6158. POOLE, HENRY G., AND RAVITZ, SOL. F. Nickel Recovery. U.S. Patent 2,520,050, Sept. 5, 1950.
- POPE, G. S. See Item 2477.
- POPPER, T. L. See Item 5756.
- PORATH, P. R. See Item 474.
6159. PORTER, FRANK. An Automatic Toepler Pump. *Ind. Eng. Chem.*, vol. 16, July 1924, pp. 731-732.
6160. ———. Vapor Pressures and Specific Volumes of the Saturated Vapor of Ethane. *Jour. Am. Chem. Soc.*, vol. 48, August 1926, pp. 2055-2058.
- . See Items 6117, 7199.
6161. PORTER, F., AND PERRY, J. H. High Vapor Pressures of Nitrogen. *Jour. Am. Chem. Soc.*, vol. 48, August 1926, pp. 2059-2060.
6163. PORTER, H. C. Improved Mine Fires on an Experimental Scale. *Ind. Eng. Chem.*, vol. 6, 1914, pp. 146-147.
6164. ———. New Knowledge of Coal and Its Practical Application. *Ind. Eng. Chem.*, vol. 7, 1915, pp. 239-242.
6165. ———. Study of the Oxidation of Coal and of the Process of Combustion. *Met. Chem. Eng.*, vol. 11, 1913, pp. 543-544.
6166. ———. Disc. of "Adaptability of Various Coals as Generator Fuel" by Odell. *Trans. AIME*, vol. 75, pp. 503-564.
- . See Items 2478, 2479.
6167. PORTER, H. C., AND OVITZ, F. K. Deterioration and Spontaneous Heating of Coal in Storage. *Ind. Eng. Chem.*, vol. 4, 1912, pp. 5-8.
6168. ———. Spontaneous Combustion of Coal. 8th Internat. Cong. Appl. Chem., vol. 10, 1912, pp. 251-267; *disc.*, vol. 27, 1912, pp. 80-82.
6169. PORTER, H. C., AND TAYLOR, G. B. Mode of Decomposition of Coal by Heat. *Proc. Am. Gas Inst.*, vol. 9, 1914, pp. 234-288.
6170. ———. Specific Heat of Coal, its Relation to Presence of Combined Water in Coal Substance. *Ind. Eng. Chem.*, vol. 5, 1913, pp. 289-293.
6171. PORTER, E. V. Electronic Devices and Metallurgical Research. *Elec. Eng.*, vol. 63, 1944, pp. 175-185.
6172. ———. Disc. of "Effect of Cold Work and Annealing Upon Internal Friction of Alpha Brass,"

- by Clarence Zener, Howard Clarke, and Cyril Stanley Smith. *Trans. AIME, Inst. Metals Div.*, vol. 147, 1942, p. 90.
- POTTER, E. V. See items 1769-1771, 1784, 1789-1791.
6173. POTTER, E. V. AND COLEMAN, E. F. A Coercimeter for Magnetically Weak Samples. *Rev. Sci. Instr.*, vol. 7, No. 12, December 1936, pp. 499-501.
6174. POTTER, E. VERNON, AND HUBER, RALPH W. Effect of Hydrogen on the X-Ray Parameter and Structure of Electrolytic Manganese. *Phys. Rev.*, vol. 68, July 1, 1945, pp. 24-29.
6175. ———. Manganese-Zinc Phase Diagram From 0 to 50 Percent Zinc. *Am. Soc. Metals, Prepr.* 30, 1948, 22 p.; *Trans. Am. Soc. Metals*, vol. 41, 1949, pp. 1001-1023; disc., pp. 1022-1023.
6176. POTTER, E. V., AND LUKENS, H. C. Hydrogen Content of Electrolytic Chromium and Its Removal. *AIME, Inst. Met. Div., Metals Technol.*, vol. 15, No. 1, January 1945; *AIME Tech. Pub.* 2312, 8 pp.; *Trans. AIME, Inst. Metals Div.*, 1948, vol. 175, pp. 699-709.
6177. ———. Solubility of Hydrogen in Electrolytic Manganese and Transition Points in Electrolytic Manganese. *AIME Tech. Pub.* 2032, September 1946, 12 pp.; *Trans. AIME, Metals Div.*, vol. 171, 1947, pp. 401-415.
- 6177a. POTTER, E. V., AND SCOTT, ARDEN. An Automatic Arc Current Regulator. *Rev. Sci. Instr.*, vol. 18, No. 10, October 1947, pp. 1-39.
6178. POTTER, E. V., HAYES, E. T., AND LUKENS, H. C. Hydrogen Content of Electrolytic Manganese and Its Removal. *AIME Tech. Pub.* No. 1809, *Metals Technol.*, vol. 12, No. 4, June 1945, pp. 1-9; *Metal Ind.*, vol. 67, No. 25, Dec. 21, 1945, p. 421.
6179. POTTER, E. V., LUKENS, H. C., AND HUBER, R. W. Transformation of Gamma to Alpha Manganese. *Trans. AIME*, vol. 185; *AIME Tech. Pub.* 2583E; *Jour. Metals*, vol. 1, No. 7, July 1949, pp. 399-404.
- POTTER, R. A. See items 1444, 4501, 4502, 7295.
- POTTS, NANCY. See items 3744, 3745.
6180. POWELL, A. R. Cyanogen in Illuminating Gas and Its Removal. *Am. Gas Assoc. Monthly*, vol. 4, 1922, pp. 621-627.
6181. ———. Desulphurizing Action of Hydrogen on Coke. *Ind. Eng. Chem.*, vol. 12, 1920, pp. 1077-1081.
6182. ———. Determination of Activity of Oxides by Rate of Flow. *Am. Gas Assoc. Tech. Sec. Com. on Gas Purification*, vol. 3, 1921, pp. 209-213.
6183. ———. Determination of Sulphur Forms in Coal. *Ind. Eng. Chem.*, vol. 12, 1920, pp. 887-890.
6184. ———. Forms of Sulphur in Coke, and Their Relations to Blast-Furnace Reactions. *Trans. AIME*, vol. 69, 1923, pp. 587-599; disc., pp. 599-605.
6185. ———. Forms of Sulphur in Coke; a Physico-Chemical Study of the Sulphur Held by Carbon at High Temperatures. *Jour. Am. Chem. Soc.*, vol. 45, 1923, pp. 1-15.
6186. ———. Practical Remedies for Pollution of Streams by Mine Water. *Proc. Coal Min. Inst. America*, 1922.
6187. ———. Quantitative Determination of Sulphur Forms in Coke. *Ind. Eng. Chem.*, vol. 15, 1923, pp. 951-953.
6188. ———. Some Factors Affecting Sulphur Content of Coke and Gas in Carbonization of Coal. *Ind. Eng. Chem.*, vol. 13, 1921, pp. 33-35.
6189. ———. Study of the Reactions of Coal Sulphur in the Coking Process. *Ind. Eng. Chem.*, vol. 12, 1920, pp. 1069-1077.
6190. ———. Sulphur in Coal and Coke. *Proc. Eng. Soc. West. Pennsylvania*, vol. 30, 1920-1921, pp. 611-640.
- . See items 313, 1480.
6191. POWELL, A. R., AND PARR, S. W. Forms in Which Sulphur Occurs in Coal. *Trans. AIME*, vol. 63, 1920, pp. 674-682.
6192. POWELL, A. R., AND WALKER, K. C. A Selected Bibliography on Gas Purification. *Am. Gas Assoc., Tech. Sec.*, vol. 3, 1921, pp. 242-267.
- POWELL, H. N. See item 2102.
6193. POWELL, J. P. Carbonated Waterflood Catches Much Interest on 1959 Tour of 3 Secondary Recovery Plants. *Kansas-Oklahoma Oil Reporter*, vol. 2, June 1959, pp. 20-22.
6194. ———. How to Treat Sour Brine for Flooding. *Oil Gas Jour.*, vol. 55, July 15, 1957, pp. 102-104.
6195. ———. Results of Waterflooding in Kansas Oil Sands Containing Viscous Crude Oil. *Oil and Gas Compact Bull.*, vol. 17, No. 2, December 1958, pp. 70-98.
- . See items 1864, 1965, 4047, 4048, 6557.
6196. POWELL, JOHN P., AND EAKIN, J. L. Water Flooding in Nowata County, Okla., Oil Fields. *Producers' Monthly*, vol. 10, No. 9, July 1952, pp. 29-30.
6197. PRASKY, CHARLES. Differential High Temperature Sulfatization of Ceylon Manganese Ores. *Trans. AIME*, vol. 209; *Jour. Metals*, vol. 9, 1957, pp. 377-380.
- PRATER, JOHN D. See items 6868, 6871-6874.
6198. PRATER, J. D., SCHLAIN, DAVID, AND RAVITZ, S. F. Recovery of Thallium From Smelter Products. *Min. Jour. (London)*, vol. 239, No. 6116, Nov. 7, 1952, pp. 518-519.
6199. PRESSLER, E. E. Comparative Tests of Porosity and Specific Gravity on Different Types of Refractory Brick. *Jour. Am. Ceram. Soc.*, vol. 7, June 1924, pp. 447-451.
6200. ———. A Simple Brick Porosimeter. *Jour. Am. Ceram. Soc.*, vol. 7, March 1924, pp. 154-159.
- PRICE, J. D. See item 6510.
- PRICE, P. H. See item 7332.
- PRINCE, A. L. See item 3557.
6201. PROBERT, ALAN. Point IV—Medieval Mining Frontier Pushed Back. *Min. Eng.*, vol. 4, No. 7, July 1952, pp. 661-665.
6202. PROSKE, H. O., AND SAYERS, R. R. Pulmonary Infection in Pneumoconiosis. I. A Bacteriologic and Experimental Study. *U.S. Pub. Health Repts.*, vol. 40, July 20, 1934, pp. 839-858.
- PUCKETT, A. D. See item 1181.
6203. PUCKETT, A. D., AND CAUDLE, B. H. Ignition Qualities of Hydrocarbons in the Diesel Fuel Boiling Range. *Pres. at Am. Chem. Soc., Kansas City, Mo.*, June 23-25, 1947.
6204. PURSGLOVE, L. A., AND WAINWRIGHT, H. W. Colorimetric Determination of Carbonyl Sulfide in Synthesis Gas. *Anal. Chem.*, vol. 26, No. 11, November 1954, pp. 1835-1839.
6205. PUTMAN, M. W. Destructive Distillation of Hydrocarbonaceous Materials. *U.S. Patent* 2,813,823, Nov. 19, 1957.
6206. ———. The Role of Nucleation in Oil-Shale Retorting. *Chem. Eng. Prog.*, vol. 53, No. 1, January 1957, pp. 33-J-36-J.
- . See item 5225.

6207. PUTMAN, M. W., AND CAMERON, R. J. Pyrolysis of Oil-Shale in the Gas-Combustion Retort. *Ind. Eng. Chem.*, vol. 46, No. 4, April 1954, pp. 689-693.
6208. PYNNONEN, REINO O. Roof Bolting in the Lake Superior District. *Skilling's Min. Rev.*, vol. 42, No. 1, Apr. 11, 1953, pp. 1-2.

6209. PYNNONEN, REINO O., AND LOOK, ALLEN D. Chemical Solidification of Soil in Tunneling. *Min. Jour. (London)*, Apr. 10, 1950, pp. 390-391.
6210. ———. Tunneling With Chemicals. *Ind. and Eng. Chem.*, vol. 51, No. 2, February 1959, pp. 36A-37A. ———. See item 7526.

Q

6211. QUENON, E. E. Safety Course for Bituminous-Coal-Mine Workers. *Trans. Nat. Safety Cong.*, 1944, vol. 1, pp. 191-193.

R

- RABUN, NANCY. See item 1958.
6212. RAE, J. C., SCHLOSS, C. M., AND HARRINGTON, D. Mining Coal on a 22-Degree Pitch. *Coal Ind.*, vol. 6, 1923, pp. 193-198.
- RALL, C. G. See items 1861, 3270, 7593.
6213. RALL, CLEO GRIFFITH, AND TALIAFERRO, D. B. Improved Method for Measuring Porosity of Oilfield Cores. *Producers Monthly*, vol. 13, September 1949, pp. 34-39.
- RALL, H. T. See items 1349-1351, 3019, 7355-7358, 7718-7720, 7723.
6214. RALL, H. T., AND SMITH, H. M. Composition of Petroleum: Relationships of Hydrocarbon Types Through C₄-C₆ Hydrocarbons. 12th Cong. Pure and Appl. Chem., New York, N.Y., September 1951.
6215. ———. Continuous Laboratory Topping Apparatus. *Ind. Eng. Chem., anal. ed.*, vol. 6, Sept. 15, 1934, pp. 373-374.
6216. ———. Physical and Chemical Properties of Petroleum Fractions. I. Behavior in Dilute Benzene Solutions. *Ind. Eng. Chem., anal. ed.*, vol. 8, Sept. 15, 1936, pp. 324-330; correction, vol. 9, May 15, 1937, p. 222.
6217. ———. Physical and Chemical Properties of Petroleum Fractions. II. Relations Between Molecular Weight and Concentration in Dilute Solution. *Ind. Eng. Chem., anal. ed.*, vol. 8, Nov. 15, 1936, pp. 436-439; correction, vol. 9, May 15, 1937, p. 222.
6218. ———. Physical and Chemical Properties of Petroleum Fractions. III. Handling Viscous Oils in Molecular-Weight Studies. *Ind. Eng. Chem., anal. ed.*, vol. 11, 1939, pp. 387-390.
6219. RALL, C. G., AND TALIAFERRO, D. B. Bureau of Mines Method for Determining Porosity; a List of Porosities of Oil Sands. *World Oil*, vol. 130, March 1950, pp. 157-158, 160, 162, 164.
6220. RALSTON, OLIVER C. Bureau of Mines Aids Ceramics Development. *Ceram. Ind.*, vol. 42, April 1944, p. 37.
6221. ———. Carolina Topaz as a Substitute for Kyanite. *Brick and Clay Rec.*, vol. 101, 1942, pp. 40, 42.
6222. ———. Centrifugal Force in Ore Dressing. *Chem. Met. Eng.*, vol. 29, 1923, p. 464.
6223. ———. Control of Ore Slimes. *Eng. Min. Jour.*, vol. 101, 1916, pp. 763-769, 800-804, 900-904.
6224. ———. A Curious Occurrence of Platinum. *Eng. Min. Jour.*, vol. 119, Feb. 28, 1925, p. 372.
6225. ———. Differential Flotation. *Min. and Sci. Press*, vol. 110, 1915, pp. 980-984.
6226. ———. Electrodeposition Research at the Bureau of Mines From Electrodeposition Research; A Symposium. Bureau of Standards Circ. 529, May 1953, pp. 37-40.
6227. ———. Extractive Metallurgy Increases Mineral Reserves. *Chem. Eng. Prog.*, vol. 51, January 1955, pp. 3J-5J.
6228. ———. Flotation Separation of Nonmetals. *Chem. Met. Eng.*, vol. 45, 1938, pp. 268-269, 281.
6229. ———. Froth Flotation and Agglomerate Tailing of Nonmetallic Minerals. *Trans. Canadian Inst. Min. and Met.*, vol. 40, 1907, pp. 691-720.
6230. ———. Future of Light Metals, With Special Reference to Titanium. *Mech. World*, vol. 120, No. 3279, Nov. 18, 1949, pp. 599-600.
6231. ———. Hydrometallurgy of Lead. *Trans. AIME*, vol. 70, 1924, pp. 447-460.
6232. ———. Disc. of term "Process Metallurgy." In Stephan F. Urban's review of "Handbook of Nonferrous Metallurgy—Principles and Processes," by D. M. Liddell. *Chem. Eng. News*, vol. 24, No. 11, June 10, 1946, p. 1596 (letter to editor).
6233. ———. Metallurgy of Lead. *Min. Ind.*, vol. 35, 1920, pp. 423-433; vol. 34, 1925, pp. 453-460; vol. 33, 1924, pp. 447-459.
6234. ———. Mountain Region Can Look to "New" Mineral Resources. *Colorado Business*, No. 1, September 1947, pp. 7, 8, 10, 13, 14.
6235. ———. Natural Sodium Carbonate and Sodium Sulfate. *AIME, Ind. Min. Rocks*, 1940, pp. 945-964.
6236. ———. A New Flotation Oil and a New Source of Flotative Agents. *AIME, Bull.* 119, 1916, pp. 1897-1899; *Chem. Eng.*, vol. 25, 1917, pp. 67-68.
6237. ———. The Nonmetallics. A Decided Swing to Processing and Production of Superquality Materials is Visible. *Eng. Min. Jour.*, vol. 138, February 1937, pp. 93-96.
6238. ———. Precipitating Action of Carbon in Cyanide Solutions. *Min. and Sci. Press*, vol. 111, 1915, pp. 77-78.
6239. ———. The Progress of Electrolytic Zinc. *Eng. Min. Jour.*, vol. 123, June 25, 1927, p. 1003.
6240. ———. Research on Pozzolana. Cement and Lime Mfr., vol. 13, 1940, p. 69; Concrete, Cement Mill Sec., vol. 48, 1940, pp. 249-250.
6241. ———. Statement Before National Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., May 15 and 16, 1947, pp. 80-109.
6242. ———. Titanium—Metal of the Future. *Metals*, vol. 20, August 1949, pp. 11-12.
6243. ———. Twenty-Five Years' Progress of Electrolytic Zinc. *Jour. Am. Electrochem. Soc.*, May 5, 1927, pp. 211-217.
6244. ———. Western Phosphate Conference. *Ind. Eng. Chem., news ed.*, vol. 15, Dec. 10, 1937, p. 622.
6245. ———. Why Do Minerals Float? *Min. and Sci. Press*, vol. 111, 1915, pp. 623-627.

6246. RALSTON, OLIVER C. Zirconium Ores, Chap. in Zirconium and Zirconium Alloys. 8th Symposium, Am. Soc. Metals, West. Metal Cong., Los Angeles, Calif., Mar. 23-27, 1953, 354 pp.; abs., 4 pp.
6247. ———. Disc. of "Beneficiation of Spodumene Rock by Froth Flotation," by James Norman and E. W. Giesecke. Trans. AIME, Ind. Min. Div., vol. 148, 1942, p. 355.
6248. ———. Disc. of "Correlation Between Mineral Behavior in Cataphoresis and Flotation," by A. M. Gaudin and S. C. Sun. AIME, Tech. Pub. 2074, Trans. AIME, Min. Technol., vol. 10, No. 5, September 1948, pp. 7-8.
6249. ———. Disc. of "Deleterious Contings of the Media in Dry Ball Milling," by Fred C. Bond and Fred T. Agthe. Trans. AIME, Metal Min. and Mill. Meth., vol. 153, 1943, p. 395.
6250. ———. Disc. of "Flotation of Barite From Magnet Cove, Ark.," by James Norman and B. S. Lindsay. Trans. AIME, Ind. Min. Div., vol. 148, 1942, p. 372; Trans. AIME, Metal Min. and Mill. Meth., vol. 153, 1943, p. 545.
6251. ———. Disc. of "Methods for Concentrating and Purifying Industrial Minerals," by G. W. Jarman, Jr. Trans. AIME, Ind. Min. Div., vol. 148, 1942, p. 313.
6252. ———. Disc. of "Oil-Air Separation of Nonsulfide and Nonmetallic Minerals," by Arthur F. Taggart, G. R. M. del Giudice, A. M. Sadler, and M. Hasseluis. Trans. AIME, Rocky Mountain Fund vol. on Milling Methods, vol. 134, 1939, pp. 188-190.
6253. ———. Disc. of "Ore-Dressing Practice With Florida Pebble Phosphates, Southern Phosphate Corporation," by J. W. Pamplin. Trans. AIME, Ind. Min. Div., 1938, p. 313.
6254. ———. Disc. of "Recent Studies of Reserves of Domestic Phosphate," by G. B. Mansfield. Trans. AIME, Ind. Min. Div., vol. 148, 1942, p. 68.
6255. ———. Disc. of "Relative Rates of Reactions Involved in Reduction of Zinc Ores," by E. C. Truesdale and R. K. Waring. Trans. AIME, Min. and Met. Eng., Inst. Metals Div., vol. 152, 1943, p. 315; Trans. AIME, Reduc. and Refin. Nonfer. Metals, vol. 150, 1944, p. 109.
6256. ———. Rev. of "Cobalt," by Roland S. Young. Chem. Eng. News, vol. 27, No. 4, Jan. 24, 1949, p. 242.
6257. ———. Rev. of "Finishing Metal Products," by Herbert R. Simond and Adolph Bregman. Chem. Eng. News, vol. 24, No. 23, Dec. 10, 1946, p. 3246.
- . See items 1071, 1536, 1551, 1552, 2676-2681, 3643, 4178, 4179, 4901-4903, 5116, 5117, 5218, 5418, 5925, 6998, 7274, 7765, 8113, 8114.
6258. RALSTON, O. C., AND ALLEN, G. L. Testing Ores for Flotation Process. Min. Sci. Press, vol. 112, 1916, pp. 8-13, 44-49.
6259. RALSTON, O. C., AND CAMERON, FRANK. Recent Progress in Flotation. Eng. Min. Jour., vol. 99, 1915, pp. 937-940.
6260. RALSTON, OLIVER C., AND CONLEY, JOHN E. Lightweight Aggregate for Concretes. Nat. Ready Mixed Concrete Assoc. Misc. Pub. 23, 1949, 14 pp.
6261. RALSTON, O. C., AND CSERVENYAK, F. J. Potential Use of Titanium Metal. Ind. Eng. Chem., vol. 42, 1950, pp. 214-218.
6262. RALSTON, O. C., AND FRAAS, FOSTER. Disc. of "Behavior of Mineral Particles in Electrostatic Separation," by Shion-Chuan Sun, J. D. Morgan, and R. F. Wesner. Trans. AIME, vol. 187; Min. Eng., vol. 2, November 1950, p. 1152.
6263. RALSTON, O. C., AND GARTSIDE, A. E. Leaching a Zinc-Lime Ore With Acids. Bull. of Univ. of Utah, 1915.
6264. RALSTON, O. C., AND HAWLEY, L. T. Flotation Experiments on Hardwood Oils. Chem. Met. Eng., vol. 20, 1919, pp. 586-587.
6265. RALSTON, O. C., AND HOSEK, M. Electrophoretic Filtration of Kaolin Slurry. Electrochem. Soc. Meeting Prepr. 80-4, 1941, pp. 27-35.
6266. RALSTON, O. C., AND LYON, D. A. Efficiency of Acid in Copper Leaching. Salt Lake Min. Rev., 1915, pp. 10-11.
6269. RALSTON, OLIVER C., AND NICOLAI, E. R. War Focuses Attention on Southeast's Metallurgy. Mfrs. Rec., vol. 113, October 1944, pp. 52-53, 78, 80.
6271. RALSTON, O. C., AND STERN, A. GEORGE. Progress in Mining, 1936. New Buildings for Bureau of Mines Experiment Stations. Min. Cong. Jour., vol. 23, February 1937, pp. 26-27.
6272. ———. Properties of Pozzolanas. Cement and Lime Mfr., vol. 12, July 1944, pp. 74-75.
6274. RALSTON, OLIVER C., AND VON BERNEWITZ, M. W. Minerals Used in Welding. Metallurgia, vol. 22, August 1940, p. 114; Canadian Metals and Met. Ind., vol. 3, 1940, pp. 234, 236, 238, 240.
6275. RALSTON, O. C., AND WAGGAMAN, W. H. Minerals Other Than Fuels. Treatment. Chap. in "Mineral Position of the United States." Nat. Res. Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess., 1947, pp. 200-211.
6276. RALSTON, O. C., AND WICHMANN, A. P. The Froth Flotation of Coal. Chem. Met. Eng., vol. 26, No. 11, Mar. 15, 1922, pp. 500-503.
6277. RALSTON, O. C., AND YAMADA, G. Froth Flotation Tests on Bituminous Coking Coals. Chem. Met. Eng., vol. 26, No. 23, June 7, 1922, pp. 1081-1086.
6278. RALSTON, O. C., AND YUNDT, L. D. Chemicals Used in Ore Flotation. Ind. Eng. Chem., vol. 9, 1917, pp. 1056-1062.
6280. RALSTON, O. C., WILLIAMS, C. E., UDY, M. J., AND HOLT, G. J. Salt in the Metallurgy of Lead. Trans. AIME, vol. 57, 1917-18, pp. 634-645, 654-656.
- . RALSTON, R. R. See items 5591, 5592, 7994.
6281. RALSTON, R. R., AND FAUST, GEORGE T. Electric Furnace Study of MgO-SiO₂ System. Jour. Am. Ceram. Soc. vol. 25, No. 11, July 1942, pp. 204-310.
6282. RALSTON, ROBERT R., NELSON, McDONALD S., LEVER, G. W., ALLEN, D. F., AND NICHOLS, E. F. Electrically Fused Forsterite-Olivine 1-II. Jour. Am. Ceram. Soc., vol. 28, No. 12, Dec. 1943, pp. 405-413.
- . RAMALEY, C. W. See item 2928.
- . RAMPAGEK, CARL. See items 1236, 1237, 1243.
6283. RAMPAGEK, CARL, CLEMMONS, B. H., AND CLEMMER, J. BRUCE. Beneficiation of South Carolina Sillimanite Schists. Jour. Am. Ceram. Soc., vol. 28, August 1945, pp. 197-205.
6284. RAMSDALL, L. S., AND KOHN, J. A. Developments in Silicon Carbide Research. Acta Cryst., vol. 5, 1952, pp. 215-224.
- . RANSOME, A. L. See items 2577, 2578.
6285. RANSOME, ALFRED L. Alaska. Ann. Rept., Director of the Mint, fiscal year 1947-48, p. 18.
6286. ———. Alaska. Ann. Rept., Director of the Mint, fiscal year 1948-49, pp. 19-20.
6287. ———. Alaska. Ann. Rept., Director of the Mint, fiscal year 1949-50, pp. 19-20.
6288. ———. California. Ann. Rept., Director of the Mint, fiscal year 1947-48, pp. 19-21.

6289. RANSOME, ALFRED L. California. Ann. Rept., Director of the Mint, fiscal year 1948-49, pp. 21-23.
6290. ———. Metal Production Figures for 1945. California. Min. Jour. (Ariz.), vol. 20, No. 18, February 15, 1946, pp. 3-4.
6291. ———. Metal Production Figures for 1945. Nevada. Min. Jour. (Ariz.), vol. 20, No. 18, Feb. 15, 1946, pp. 29-30.
6292. ———. Metal Production Figures for 1945. Oregon. Min. Jour. (Ariz.), vol. 20, No. 18, February 15, 1946, p. 32.
6293. ———. Metals in Review. Lead. Eng. Min. Jour., vol. 146, February 1945, pp. 100-101.
6294. ———. Metals in Review. Minor Metals. Anthromy. Eng. Min. Jour., vol. 146, February 1945, pp. 105-106.
6295. ———. Nevada. Ann. Rept., Director of the Mint, fiscal year 1947-48, pp. 26-27.
6296. ———. Nevada. Ann. Rept., Director of the Mint, fiscal year 1948-49, pp. 27-28.
6297. ———. Oregon. Ann. Rept., Director of the Mint, fiscal year 1946-47, pp. 31-32.
6298. ———. Oregon. Ann. Rept., Director of the Mint, fiscal year 1947-48, pp. 28-29.
6299. ———. Oregon. Ann. Rept., Director of the Mint, fiscal year 1948-49, pp. 28-29.
6300. ———. Production of Rolled Zinc Increased 59 Percent in 1944. Mines Mag. (Colorado), vol. 35, August 1945, p. 414.
6301. RANSOME, ALFRED L., AND MARLAVE, H. H. California. Ann. Rept., Director of the Mint, fiscal year 1946-47, pp. 22-24.
6302. ———. Nevada. Ann. Rept., Director of the Mint, fiscal year 1946-47, pp. 30-31.
6303. RANSOME, ALFRED L., AND MILLER, ESTHER B. Zinc Industry in 1944. Mines Mag. (Colorado), vol. 35, August 1945, pp. 411-414.
6304. RASMUSSEN, ERNE. The Spectra of Inert Gases. Ztschr. Physik, vol. 75, 1932, pp. 695-704.
6305. RASMUSSEN, R. T. C. Electric Smelting at Bureau of Mines Seeks Utilization of Northwest Ores. Jour. Metals, vol. 4, December 1952, pp. 1273-1279.
6306. ———. Electric Smelting Process for Production of Silicon-Aluminum Alloys. U.S. Patent 2,755,178, July 17, 1956.
6307. ———. Interest in Ferro-Alloy Metals Centers on Plants. Eng. Min. Jour., vol. 146, February 1945, pp. 130-133.
6308. ———. New Manganese Processes; Manganese Symposium. Min. and Met. Soc. America, vol. 34, 1941, pp. 139-144.
- . See Item 8274.
6309. RASMUSSEN, R. T. C., and SILLERS, F., JR. Electrolytic Manganese, Iron and Coal Trades Rev., vol. 153, No. 409, July 26, 1946, p. 149.
6310. ———. Electrolytic Manganese vs. Ferromanganese Addition Agents. Iron Age, vol. 156, Dec. 6, 1945, pp. 80, 142.
6311. ———. Steelmakers Test Usefulness of Electrolytic Manganese. Steel, vol. 117, Nov. 19, 1945, p. 138.
- . RATLIFF, W. C. See Items 7140, 7141, 7148, 7149.
6312. RATLIFF, W. C., AND DAVIS, J. D. Separation of Mineral Matter From Natural Flake Graphite. Chem. Met. Eng., vol. 23, No. 21, 1920, p. 1027.
- . RATWAY, J. See Items 2015, 8117.
6313. RAUSCHENBERGER, J. K. See Items 3452, 3462, 3466.
6314. RAVITZ, S. F. Oxygen-Free Flotation. II. Further Experiments with Galena. AIME, Tech. Pub. 1147, Min. Tech., vol. 4, January 1940, 7 pp.; Trans. AIME, Metal Min. and Mill. Meth., vol. 153, 1943, pp. 528-534.
6314. ———. High-grade Ferronickel. U.S. Patent Appl. 89,552, 1950.
- . See Items 1121, 5835, 6158, 6198, 6732, 6733, 6872-6874, 8144, 8648.
6315. RAVITZ, SOL F., AND BACK, A. E. Dithionite Process for the Production of Zinc Hydroxide From Oxidized Zinc Ores. U.S. Patent 2,522,537, Sept. 10, 1950.
6316. ———. Recovery of Zinc by the Dithionite Sulfur Dioxide Leaching Process. AIME Tech. Pub. 2064, September 1946, 10 pp.; AIME Metal Technol., vol. 13, 1946, pp. 1-10; Trans. AIME, Metal, vol. 185, 1949; Jour. Metals, vol. 1, No. 11, November 1949, pp. 792-795; Metal Prog., vol. 58, August 1950, p. 248.
6317. RAVITZ, S. F., AND ZIMMERLEY, S. R. Pilot Plant Investigation of Concentration of Blackbird Cobalt Ore by Roast-Flotation Process. Min. Eng., vol. 187, No. 10, October 1950, pp. 1044-1046.
6318. RAVITZ, S. F., MILLER, VIRGIL, AND PETERMANN, F. B. Electric Smelting of Cle Elum-Blewitt Pass Nickeliferous Iron Ore. Trans. AIME, Reduc. and Refin. Nonfer. Metals, vol. 159, 1944, pp. 442-445.
6319. RAVITZ, S. F., NICHOLSON, I. W., CHINDGREN, C. J., BAUERLE, L. C., WILLIAMS, F. P., AND MARTINSON, M. T. Treatment of Idaho-Wyoming Vanadiferous Shales. AIME Tech. Pub. 2178, 14 pp.; AIME Metals Technol., vol. 14, No. 4, June 1947, pp. 1-14; AIME Trans., vol. 182, 1949, pp. 307-320.
6320. RAVITZ, S. F., PETERMANN, F. B., AND MILLER, V. Electric Smelting of Cle Elum-Blewitt Pass Nickeliferous Iron Ore. Min. and Met., vol. 26, 1945, p. 20.
- . RAWLES, W. T. See Items 4831, 4833, 4834.
6321. RAWLINS, E. L. Bureau of Mines Tests on Conservation. Proc. Am. Gas Assoc., 1934, pp. 202-203.
6322. ———. Cooperative Work Between Gas Associations and the Bureau of Mines. Oil Gas Jour., vol. 26, March 22, 1928, pp. 100, 103.
6323. ———. Determine Specific Gravity of Gas. Oil Gas Jour., vol. 26, July 14, 1927, pp. 150, 152, 155.
6324. ———. Determining Open Flow by Pressure. Oil Gas Jour., Jan. 24, 1929; Nat. Gas, vol. 10, February 1929, pp. 36, 42, 70; Oil Weekly, Feb. 1, 1929, pp. 33-34.
6325. ———. Effect of Conservation of Recent Developments in Natural Gas Engineering. Oil Gas Jour., vol. 27, June 7, 1928, pp. 111, 144, 147, 149.
6326. ———. The Flow of Air and Natural Gas Through Small Orifices Under High Differential Pressures. Oil Gas Jour., vol. 26, May 10, 1928, pp. 111-112, 125-126, 129.
6327. ———. Gas Flow Through High Pressure Lines. Oil Gas Jour., vol. 25, April 21, 1927, pp. 40, 154-155.
6328. ———. Gas Well Deliveries. Proc. Am. Gas Assoc., 1932, pp. 105-107.
6329. ———. Leakage From Natural Gas Transmission Lines. Nat. Gas Jour., June, 1925.
6330. ———. Leakage Losses in High-Pressure Natural Gas Transmission Lines. Oil Gas Jour., vol. 25, May 27, 1928, pp. 87, 140.
6331. ———. The Study of Gas Fields. Am. Gas Assoc. Monthly, vol. 12, 1930, pp. 292-296.
6332. ———. Study of Gas Fields. Nat. Gas, vol. 11, May 1930, pp. 26-29, 50-58.
6333. ———. Discussion of Pipe Line Flow Formulas. Nat. Gas, vol. 8, June 1927, pp. 8-9, 60; Oil Weekly, April 22, 1927, p. 29.
- . See Items 840, 841, 1169, 6863, 7368.

- RAY, W. T. See item 4529.
6334. RAY, W. T. and KREISINGER, H. The Flow of Heat Through Furnace Walls. *Chem. Eng.*, vol. 14, 1911, pp. 374-376.
- RAYMOND, R. See item 3682.
6335. READ, T. T. Cooling Mine Air—Possibilities and Limits. *Eng. Min. Jour.*, vol. 120, Oct. 10, 1925, p. 569.
6336. ———. Deepest Mine in World. *Min. and Met.*, vol. 4, 1923, pp. 283-285.
6337. ———. Employee Representation in Coal Mines. *Coal Ind.*, vol. 3, 1920, pp. 234-235; *Min. Cong. Jour.*, vol. 6, 1920, pp. 234-235.
6338. ———. The Engineer's Mastery of Power. *Prof. Eng.*, June, 1923, pp. 6-8.
6339. ———. General Principles of Beneficiation of Iron Ores. *Blast Fur. and St. Plant*, vol. 14, April, 1926, pp. 172-179; June, 265-273; July, 294-297; August, 350-350.
6340. ———. Industrial Accident Prevention as a Personnel Problem. *Jour. Personnel Research*, vol. 3, November 1924, pp. 252-255.
6341. ———. Is There a Non-Gaseous Coal Mine? *Min. and Met.*, vol. 6, September 1925, p. 457; disc., p. 582.
6342. ———. Mental Hygiene in Industry. *Min. and Met.*, vol. 6, 1925, p. 28.
6343. ———. Mineral Enterprise in China. *Eng. Min. Jour.*, vol. 110, 1920, pp. 298-301.
6344. ———. Primitive Iron Smelting in China. *Iron Age*, vol. 108, 1921, pp. 451-454.
6345. ———. Probability in Relation to Sampling Ores. *Eng. Min. Jour.-Press*, vol. 119, Jan. 3, 1925, pp. 21, 22.
6346. ———. Probable Error in Blast-Furnace Records and Calculations Therefrom. *Trans. AIME*, vol. 73, 1926, pp. 1009-1025.
6347. ———. Raw Materials Affect Pig Iron Costs. *Iron Trades Rev.*, vol. 74, May 20, 1924, pp. 1424-1425; *Iron Age*, vol. 113, June 5, 1924, pp. 1698-1699.
6348. ———. Silver Prices and the Famine in China. *Min. and Sci. Press*, vol. 122, 1921, pp. 284-285.
6349. ———. Some Problems of Mine Safety. *Min. Cong. Jour.*, vol. 10, October 1924, pp. 473-474.
6350. ———. Steel Markets of the Pacific. *Iron Age*, vol. 102, 1918, pp. 1570-1572.
6351. ———. Why do Coal Mines Explode? *Nat. Safety News*, vol. 12, October 1925, pp. 28, 29.
6352. ———. Why Miners Should Keep Cool. *Proc. Nat. Safety Council, Lake Superior Min. Sec.*, August 1923, pp. 28-33.
6353. READ, T. T. AND ADAMS, W. W. Old Men More Subject Than Younger to Accidents. *Coal Age*, vol. 25, June 20, 1924, pp. 941-942.
6354. READ, T. T., JOSEPH, T. L., AND ROYSTER, P. H. Effect of Sillen in Ore on Cost of Pig Iron Production. *Iron Trades Rev.*, vol. 74, Jan. 24, 1924, pp. 288-291.
6355. REAY, T. T. How to Achieve Coal-Mine Safety. *Mechanization*, vol. 16, No. 3, March 1952, pp. 118-120, 123.
6356. REDFIELD, A. H. Exports of Mineral Oils From Gulf Coast Ports. *Comm. Repts.*, Jan. 16, 1928, pp. 163-164.
6357. ———. Graphite. *Min. Ind.*, vol. 35, 1926, pp. 323-334; vol. 34, 1925, pp. 358-369.
6358. ———. Native Bitumens. *Industrial Minerals and Rocks*, AIME, 1937, pp. 527-532; AIME Ind. Min. and Rocks, 1949, pp. 637-642.
6359. ———. Natural Gas in Hungary. *Oil Gas Jour.*, vol. 20, Aug. 18, 1927, pp. 70, 118.
6360. ———. Petroleum in Sarawak and Brunel. *Far East Rev.*, July 10, 1930, pp. 178-208.
6361. ———. Petroleum Output Increases Slightly. *Eng. Min. Jour.*, vol. 123, Jan. 22, 1927, pp. 129-130.
6362. ———. Petroleum Resources of Russia. *Bull. Am. Assoc. Petrol. Geol.*, vol. 11, May 1927, ———. See item 1474.
- REDFIELD, R. C. See item 3701.
6363. REES, O. W., AND SELVIG, W. A. Determination of Ash in Coals Unusually High in Calcite and Pyrite. *Illinois State Geol. Survey Rept. of Investigations* 81, 1942, 10 pp; *Ind. Eng. Chem., anal. ed.*, vol. 14, 1942, pp. 209-212; *Coal Age*, vol. 46, October 1941, p. 109.
6364. REESE, SETH T. Coal Safety in 1952. *Coal Age*, vol. 58, February 1953, pp. 81-82.
6365. ———. National Safety Competition of 1951. *Explosives Eng.*, vol. 30, July 1952, pp. 110-127.
6366. ———. National Safety Competition of 1952. *Explosives Eng.*, vol. 31, May 1953, pp. 71-91.
6367. ———. National Safety Competition of 1953. *Explosives Eng.*, vol. 32, May 1954, pp. 71-92.
- REGGEL, L. See items 2755, 5671-5677, 5688-5691, 5693.
6368. REGGEL, LESLIE, FRIEDEL, R. A., AND WENDER, IRVING. Lithium in Ethylenediamine: A New Reducing System for Organic Compounds. *Jour. Org. Chem.*, vol. 22, 1957, pp. 891-894.
6369. REGGEL, LESLIE, FRIEDMAN, SIDNEY, AND WENDER, IRVING. The Lithium-Ethylenediamine System. II. Isomerization of Olefins and Dehydrogenation of Cyclic Dienes. *Jour. Org. Chem.*, vol. 23, 1958, pp. 1136-1139.
6370. REGGEL, L., RAYMOND, R., FRIEDMAN, S., FRIEDEL, R. A., AND WENDER I. Reduction of Coal by Lithium Ethylenediamine. *Fuel*, vol. 37, 1958, pp. 126-128.
- REID, B. W. See item 8265.
- REID, J. J. See item 6629.
- REID, W. S. See item 8031a.
- REID, W. T. See items 1433, 5722-5726.
6371. REID, W. T. Control of Forms of Iron in the Determination of Fusion Temperatures of Coal Ash. *Ind. Eng. Chem., anal. ed.*, vol. 7, Sept. 15, 1935, pp. 335-338.
6372. ———. An Electronic-Contacting Galvanometer for Temperature Control. Chap. 7 in *Automatic Temperature Regulation and Recording. Temperature, Its Measurement and Control in Science and Industry*. Am. Inst. Phys., Reinhold Pub. Co., New York, 1941, pp. 611-616.
6373. ———. The Fuel Industry of Japan. *Combustion*, vol. 18, No. 11, April 1947, pp. 41-42.
6374. ———. Low-Temperature Carbonization of Coal in Japan. General Headquarters, Supreme Commander for Allied Powers, Tokyo. *Nat. Resources Sec., Rept.* 74, 1947, 87 pp.; *Iron and Coal Trades Rev.*, vol. 157, No. 4205, October 15, 1948, pp. 855-856.
6377. ———. Disc. of "Distribution of Heat Absorption and Factors Affecting Performance of Twin Branch, 2,500-p.s.i. Boiler," by F. G. Ely and L. B. Schueler. *ASME, Furnace Performance Factors Pamphlet*, May 1944, pp. 30-31.
6378. ———. Disc. of "Fuels and Fuel Research in Great Britain," by W. C. Schroeder. *Mech. Eng.*, vol. 66, 1944, pp. 332-333.

6379. REID, W. T. Disc. of "The Horizontal Cyclone Burner," by A. E. Grunert, L. Shag, and L. S. Wilcoxen. *Trans. ASME*, vol. 69, No. 3, August 1947, pp. 630-632.
6380. ———. Disc. of "Spreader Stokers Applied to Marine Boilers," by Otto de Lorenzi. *Mech. Eng.*, vol. 64, 1942, p. 809.
6381. ———. Disc. of "Studies of Heat Transmission Through Boiler Tubing at Pressures From 500 to 3,300 Pounds," by W. F. Davidson and others. *Trans. ASME*, vol. 65, 1943, pp. 589-590.
6382. ———. Rev. of "The Efficient Use of Fuel," by Education Subcommittee of Fuel Efficiency Committee, Ministry of Fuel and Power, Great Britain. *Chem. Eng. News*, vol. 24, No. 3, Feb. 10, 1946, pp. 410, 418.
6383. ———. Rev. of "Fuels, Combustion, and Furnaces," by John Griswold. *Chem. Eng. News*, vol. 24, No. 24, Dec. 25, 1946, pp. 3418-3419.
6384. ———. Rev. of "Proceedings of a Conference on Problems in the Utilization of Small Coal." British Coal Utilization Res. Assoc., Cheney & Sons, Brannbury, England, 1944, 294 pp.; *Jour. Appl. Phys.*, vol. 16, May 1945, p. 312.
6385. ———. Rev. of "Rise of American Oil," by Leonard M. Fanning. *Chem. Eng. News*, vol. 27, No. 7, Feb. 14, 1949, pp. 450, 452.
6386. REID, W. T., AND COHEN, P. Factors Affecting the Thickness of Coal-Ash Slag on Furnace-Wall Tubes. *Trans. ASME*, vol. 66, November 1944, pp. 685-690; *Combustion*, vol. 16, July 1944, pp. 42, 44.
6387. ———. Flow Characteristics of Coal-Ash Slags in the Solidification Range. *ASME, Adv. Paper* 42, 1944, 15 pp.; *Furnace Performance Factors Pamphlet*, May 1944, pp. 83-97.
6388. REID, W. T., AND COREY, R. C. Errors in Temperature Measurement by Radiometric Methods. *Combustion*, vol. 15, No. 8, 1944, pp. 30-34.
6389. REID, W. T., AND FOSTER, J. F. Fusibility of Ash and Its Relation to Clinkering in Water-Gas Generators. *Proc. Am. Gas Assoc.*, vol. 30, 1948, pp. 371-387.
6390. REID, W. T., COHEN, P., AND COREY, R. C. An Investigation of the Variation in Heat Absorption in a Pulverized-Coal-Fired, Water-Cooled, Steam-Boiler Furnace. Part II: Furnace Heat Absorption Efficiency, as Shown by the Temperature, Composition, and Flow of Gases Leaving the Furnace. *Trans. ASME*, vol. 70, No. 5, July 1948, pp. 569-585.
6391. REID, W. T., COREY, R. C., AND CROSS, B. J. The External Corrosion of Furnace-Wall Tubes. I. History and Occurrence. *Trans. ASME*, vol. 67, 1945, pp. 279-288.
6392. ———. External Corrosion of Boiler Furnace Tube Walls. *Steam Eng.*, vol. 15, No. 109, October 1945, pp. 9-12.
- REINHARDT, W. N. See items 1959-1961.
- REINHART, W. H. See item 8554.
- REISTLE, C. E. See item 1926.
6393. REISTLE, C. E. It Is Necessary to Limit Daily Production Rate in East Texas to get Maximum Recovery. *Oil Gas Jour.*, vol. 32, Feb. 15, 1934, pp. 50, 52.
6394. REISTLE, C. E., JR. Summary of Existing Information on Handling Congealing Oils and Paraffin. *AIME, Tech. Pub.* 36; *AIME, Petrol. Dev. and Technol.*, 1927, p. 227.
6395. ———. Summary of Practice in Handling Congealing Oils. *Nat. Petrol. News*, vol. 19, Oct. 10, 1927, pp. 88-94; *Oil Gas Jour.*, vol. 26, Oct. 20, 1927, pp. 124, 182, 184, 186, 188, 190, 192; *Oil Weekly*, Oct. 14, 1927, p. 41.
- REMMERS, W. E. See item 2586.
- RENMERT, H. A. See item 7630.
6396. REMMERT, H. A., SKINNER, L. C., AND IMONOVAN, J. T. Coal and Coal-Paste Preparation and Transfer Problems for Hydrogenation Service. *ASME, Tech. Paper* 52-F-26, September 1952, 11 pp.; *Mech. Eng.*, vol. 74, No. 11, November 1952, pp. 937-938.
6397. RENICK, ABBOTT. Antimony in 1951. *Eng. and Min. Jour.*, vol. 153, No. 2, February 1952, p. 95.
6398. ———. Antimony in 1952. *Eng. and Min. Jour.*, vol. 155, No. 2, February 1953, p. 92.
6399. ———. Antimony in 1953. *Eng. and Min. Jour.*, vol. 156, No. 2, February 1954.
6400. ———. Antimony in 1955. *Eng. Min. Jour.*, vol. 157, No. 2, February 1956, p. 107.
6401. ———. Arsenic in 1951. *Eng. and Min. Jour.*, vol. 153, No. 2, February 1952, p. 95.
6402. ———. Arsenic in 1952. *Eng. and Min. Jour.*, vol. 155, No. 2, February 1953, pp. 93-94.
6403. ———. Bismuth in 1951. *Eng. and Min. Jour.*, vol. 153, No. 2, February 1952, p. 96.
6404. ———. Bismuth in 1952. *Eng. and Min. Jour.*, vol. 155, No. 2, February 1953, p. 95.
6405. ———. Bismuth in 1955. *Eng. Min. Jour.*, vol. 157, No. 2, February 1956, p. 112.
6406. RENO, HORACE T. Beryllium. *Eng. Min. Jour.*, vol. 147, No. 2, February 1956, p. 112.
6407. ———. Columbium-Tantalum. *Eng. Min. Jour.*, vol. 157, No. 2, February 1956, pp. 105-106.
6408. ———. Iron Ore. Sec. in *Metal, Mineral and Mineral Fuel Review for 1954*, State Geologists Jour., vol. 11, No. 2, October 1950, p. 24.
6409. ———. Zirconium. *Eng. Min. Jour.*, vol. 157, No. 2, February 1956, p. 105.
- 6409a. REINONEN, PAUL E. The Rotary Bucket Drill, Its Operation and Application to Mineral Exploration. *Skills' Min. Rev.*, vol. 35, Mar. 20, 1947, 2 pp.
- REVELLE, R. See item 592.
6410. REYNOLDS, BURTON, M. Facts Sought on Reserves of Cartersville (Ga.) Manganese. *Eng. Min. Jour.*, vol. 146, April 1945, p. 95.
6411. ———. Titanium Program in Oklahoma. *Oklahoma Geol. Notes*, vol. 18, No. 1, January 1958, p. 3.
6412. REYNOLDS, D. A. Carbonization. Chap. in *Research and Progress in the Production and Use of Coal*. Nat. Res. Planning Board., *Tech. Paper* 4, 1941, pp. 28-32.
6413. ———. Effect of Blending Pocahontas No. 3 Coal With 12 High-Volatile A Coals. *Proc. Am. Gas Assoc.*, 1949, pp. 725-729.
6414. ———. Hygroscopicity of High- and Low-Temperature Cokes. *Ind. Eng. Chem.*, vol. 26, July 1934, pp. 732-733.
- . See items 864, 1684-1693, 2460, 2462, 4293, 7325, 7327, 7330, 7331.
6415. REYNOLDS, D. A., AND BIRGE, G. W. Coal Carbonization: Gas Pressures Within the Uncarbonized Part of a Charge. *Ind. Eng. Chem., ind. ed.*, vol. 32, 1940, pp. 303-307.
6416. REYNOLDS, D. A., AND DAVIS, J. D. Blending Properties of Low- and Medium-Volatile Coals as Determined in the BM-AGA Apparatus. *Pres. at Am. Gas Assoc. Production Conf.*, June 1946.
6417. ———. Coal Carbonization: Carbonizing Properties of Medium-Volatile Coals of Different Types. Abs. *Splint Coal Makes Weaker Coke than Bright Coal*. *Coal Age*, vol. 46, October 1941, pp. 165-167.

6418. REYNOLDS, D. A., AND DAVIS, J. D. The Reactivity of Coke. An Improved Method for Determining the Reactivity of Coke in Carbon Dioxide. *Ind. Eng. Chem., anal. ed.*, vol. 8, Jan. 15, 1936, pp. 33-30.
6419. REYNOLDS, D. A., WOLFSON, D. E., and SMITH, F. W. Relation of Charge Density of Coal to Carbonizing Behavior. *Proc. Blast Furnace, Coke Oven, and Raw Materials Conf., AIME*, Apr. 4, 1955, vol. 14, 1955, pp. 224-242.
6420. REYNOLDS, JACK J. High Pressure Pipe Lines Transport Valuable Helium at 2,800 PSI. *Oil Gas Jour.*, vol. 45, No. 23, Oct. 12, 1940, pp. 84-80, 105-107; *Gas Abs.*, vol. 2, No. 11, 1946, p. 234.
- RIMOVICH, J. See items 3568, 8008, 8009.
6421. RICE, G. S. American and British Governments Cooperate in Research on Prevention of Mine Accidents. *U.S. Daily*, Nov. 2, 1927.
6422. ———. American Coal-Dust Investigations. *Trans. Inst. Min. Eng.*, vol. 49, pts. 5 and 6, 1915, pp. 721-797.
6423. ———. Bumps in Coal Mines. Theories of Causes and Suggested Means of Prevention or of Minimizing Effects. *Trans. AIME, Coal Div.*, vol. 119, 1936, pp. 11-31; *disc.*, pp. 31-39; *Tech. Pub.* 609, 1935, 23 pp.
6424. ———. Cement Gun in Mining Work. *Eng. Min. Jour.*, vol. 105, 1918, pp. 584-587, 623-626.
6425. ———. Coal Dust as an Explosive Agent (With Special Reference to the Experimental Work of the Bureau of Mines). *Trans. Inst. Min. Eng.*, vol. 65, part 5, 1923, pp. 210-215.
6426. ———. Coal Mines and Methods of France and Belgium. *Proc. Min. Met. Soc. America*, vol. 10, 1917, pp. 170-182.
6427. ———. Coal-Mining Practice in Europe. *Min. and Met.*, vol. 15, February 1934, pp. 87-89.
6428. ———. Coal-Pillar Drawing Methods in Europe. *Trans. AIME*, vol. 60, 1922, pp. 397-405; *disc.* pp. 405-414.
6429. ———. Conditions in the French and Belgian Coal Fields. *Coal Age*, vol. 17, Jan. 1, 1920, pp. 16-18.
6430. ———. Controlling Factors in Formulating a Coal Mine Ventilation Code. *Min. and Met.*, vol. 9, May 1928, pp. 222-226.
6431. ———. Description of Explosion Test at Experimental Mine of Bureau of Mines. *Ind. Eng. Chem.*, vol. 4, 1912, pp. 488-490.
6432. ———. Effective Rock-Dusting of Coal Mines. *Min. Cong. Jour.*, vol. 13, August 1927, p. 624.
6433. ———. An Experimental Coal Mine for Study of Gas and Dust Explosions. *Jour. Western Soc. Eng.*, vol. 16, pp. 592-601; *disc.*, pp. 601-606.
6434. ———. Experimental Mine Employed to Test Methods of Preventing Explosions and Ventilating Shafts. *U.S. Daily*, Nov. 1, 1927.
6435. ———. Experimental Mine is Maintained for Study of Accident Prevention. *U. S. Daily*, Nov. 15, 1929, p. 8.
6436. ———. The Explosion in Hillcrest Mine, Alberta, Sept. 19, 1926. *Trans. Canadian Inst. Min. and Met.*, vol. 31, 1928, pp. 370-399.
6437. ———. Explosion Prevention in the Coal Mines of Alberta. *Canadian Inst. Min. and Met. Bull.* 187, November 1927, pp. 1358-1379; *Trans. Canadian Inst. Min. and Met.*, vol. 30, 1927, pp. 477-498.
6438. ———. Foreign Countries Lead in Ground Movement Studies. *Min. and Met.*, vol. 16, ann. rev. no., January 1935, pp. 25-26.
6439. ———. Formulating Safety Rules for Coal Mining. *U. S. Daily*, Mar. 26, 1932.
6440. ———. Ground Movement and Subsidence. *Min. and Met.*, vol. 13, January 1932, pp. 18-15; vol. 21, 1940, pp. 8-9.
6441. ———. Ground Movement and Subsidence. *Min. and Met.*, vol. 15, January 1934, pp. 12-14.
6442. ———. Ground Movement and Subsidence. *Rept. of Committee on Bituminous Res. Planning, AIME* 1936, p. 12.
6443. ———. Ground Movement and Subsidence Committee Review for Year 1929. *Min. and Met.*, vol. 11, January 1930, pp. 20-22.
6444. ———. Ground Movement and Subsidence—Much Interest is Shown by the Variety of Studies Made. *Min. and Met.*, vol. 14, January 1933, pp. 22-44.
6445. ———. Ground Movement and Subsidence. Notable Studies in the Kolar Gold Field and at a Pittsburgh Coal Mine. *Min. and Met.*, vol. 19, 1938, pp. 24-25.
6446. ———. Ground Movement and Subsidence. Old Mining Problem Spreads to East Texas Oil Field. *Min. and Met.*, vol. 20, 1939, p. 8.
6447. ———. Ground Movement and Subsidence Studies. *Trans. AIME, Coal Div.*, vol. 139, 1940, pp. 140-154.
6448. ———. Ground Movement and Subsidence Studies Aid in Solving Mining Problems. *Min. and Met.*, vol. 17, January 1936, pp. 15-16.
6449. ———. Ground Movement and Subsidence Studies in Mining Coal, Ores, and Nonmetallic Minerals. A Review of the Work of Fifteen Years and Suggestions for Future Studies. *AIME Tech. Pub.* 1014, January 1939, 15 pp.
6450. ———. Ground Movement From Mining in Brier Hill Mine, Norway, Mich. *Tech. Pub.* 546, 1934, 29 pp.; *Trans. AIME, Metal Min. and Nonmetallic Minerals*, vol. 109, 1934, pp. 118-144; *disc.* pp. 144-152.
6451. ———. Ground Movement. More Data Required From Operating Companies That Have Suffered Surface Damage. *Min. and Met.*, vol. 18, January 1937, pp. 6-7.
6452. ———. Introductory Notes on Origin of Instantaneous Outbursts of Gas in Certain Coal Mines in Europe and Western Canada. *Trans. AIME, Coal Div.*, vol. 94, 1931, pp. 75-87.
6453. ———. Investigation of Coal-Dust Explosions. *Trans. AIME*, vol. 50, 1914, pp. 2459-2492.
6454. ———. Liquid Oxygen Explosives and Their Uses. *Coal Ind.*, vol. 3, 1920, p. 510.
6455. ———. Memorandum Concerning Dr. R. V. Wheeler's Visit to the United States. *Coal Age*, vol. 33, No. 2, February 1928, p. 99.
6456. ———. Methods Used in Europe in the Control of Coal Mines and the Distribution of Their Products. *Proc. Am. Min. Cong.*, vol. 24, 1921, pp. 260-273.
6457. ———. Mine Rescue Work in the United States. *Trans. Inst. Min. Eng.*, vol. 75, pt. 6, 1928, pp. 420-451; *Iron and Coal Trades Rev.*, vol. 117, July 20, 1928, pp. 82-83.
6458. ———. Mine Timbering and Preservatives in Europe. *Min. Cong. Jour.*, vol. 10, February 1924, pp. 98-99.
6459. ———. The Mineral Industries. Technology and Mine Safety. Technological Trends and National Policy Including the Social Implications of New Inventions. *Nat. Resources Committee*, June 1937, pt. 3, sec. 2, pp. 172-174.
6460. ———. Mining Costs and Selling Prices of Coal in the United States and Europe With Special Reference to Export Trade. *Proc. 2nd Pan Am. Sci. Cong. Sec. 7*, vol. 8, 1917, pp. 388-416.

6461. RICE, G. S. Mining Wastes and Mining-Costs in Illinois. *Trans. Inst. Min. Eng.*, vol. 40, 1910, pp. 31-46.
6462. ———. Notes on Blasting With Safety Primers. *Eng. Min. Jour.*, vol. 136, August 1935, p. 427 (letter to editor).
6463. ———. Origin of and Pressure of Gas Flowing Into Coal Mines. *Min. and Met.*, D-234, 1933.
6464. ———. Quarter Century of Activity in Bureau of Mines Experimental Mine. *Min. Cong. Jour.*, vol. 22, November 1936, pp. 52-54, 61.
6465. ———. The Question of Angle of Draw. *Min. and Met.*, vol. 10, March 1919, pp. 132-133.
6466. ———. Recent Experiments Pertaining to Control of Mine Explosions. *Proc. Mine Inspectors Inst. America*, 1914, pp. 169-177.
6467. ———. Recent Research on Ground Movement Effects in Coal Mines and on the Strength of Coal and Roof Support. *Trans. AIME, Coal Div.*, vol. 101, 1932, pp. 269-293.
6468. ———. Recent Tendencies in Coal Mine Ventilation. *Min. Cong. Jour.*, vol. 14, September 1928, pp. 719-721.
6469. ———. Regulations for Coal Pneumatic Cleaning Plants. (Included in Advance Publication of the Report of the Committee on Dust Explosion Hazards). *Nat. Fire Prot. Assoc. Pamphlet*, 1930.
6470. ———. Review of Coal-Dust Investigations. *Trans. AIME*, vol. 71, 1925, pp. 1130-1163.
6471. ———. Review of Coal Situation of the World. *Trans. AIME*, vol. 59, 1918, pp. 376-394.
6472. ———. Rock-Dust Barriers Against Coal-Dust Explosions. *Iron and Coal Trades Rev.*, vol. 89, 1914, pp. 667-668; *Coal. Guard.*, vol. 108, 1914, pp. 1121-1123.
6473. ———. Rock-Dust Barriers Have Important Part to Play in Protection of Soft Coal Mines. *Coal Age*, vol. 28, July 9, 1925, pp. 39-42.
6474. ———. Rock-Dusting. *Coal Age*, vol. 26, Sept. 4, 1924, p. 342.
6475. ———. Rock-Dusting as a Preventive of Coal-Mine Explosions. *Trans. AIME*, vol. 71, pp. 1182-1184; *Cement, Mill and Quarry*, vol. 26, Apr. 5, 1925, pp. 17, 18.
6476. ———. Rock-Dusting for Coal Dust Explosion Prevention. *Min. Cong. Jour.*, vol. 10, July 1924, pp. 295-296.
6477. ———. Safety First—How the Term Originated. *Min. Cong. Jour.*, vol. 25, January 1930, pp. 31-32.
6478. ———. Safety in Mines and the Research Work of the Bureau of Mines. *Trans. Inst. Min. Eng.*, vol. 66, pt. 2, 1923, pp. 79-84.
6479. ———. Should Coal Mines be Opened? *Coal Age*, vol. 13, Apr. 20, 1918, pp. 744-745.
6480. ———. Some Problems in Ground Movement and Subsidence. *Trans. AIME*, vol. 69, 1923, pp. 374-393; disc. pp. 414-433.
6481. ———. Suggested Method of Preventing Rock Slides. *Jour. Western Soc. Eng.*, vol. 18, 1913, pp. 585-602, 625-627; disc. pp. 602-625.
6482. ———. Weather-Proofing Mine Roof and Walls and Making Tight Stoppings With Cement Gun. *Proc. Coal Min. Inst. America*, 1917, pp. 78-92.
6483. ———. What Failure to Pump Means in Britain. *Coal Rev.*, vol. 2, April 13, 1921, pp. 11, 20-22.
6484. ———. Work of the Chief Mining Engineer, Bureau of Mines. *Min. Cong. Jour.*, vol. 14, March 1928, pp. 161, 189.
6485. ———. Disc. of "Alabama Coal-Mining Practice," by Milton H. Fies. *Trans. AIME*, vol. 72, 1925, pp. 789-791.
6486. ———. Disc. of "Carbon Dioxide Accumulations in Georgia Structures," by J. Charles Miller. *Trans. AIME, Ind. Min. Div. (Nonmetallics)*, vol. 129, 1938, pp. 466, 467, 468.
6487. ———. Disc. of "Flow of Gas Through Coal," by S. P. Burke and V. F. Parry. *Trans. AIME, Coal Div.*, vol. 119, 1936, p. 431.
6488. ———. Disc. of "Further Notes on Bumps in No. 2 Mine, Springhill, Nova Scotia," T. L. McCall. *Trans. AIME, Coal Div.*, vol. 108, 1934, pp. 60-62, 68-70; *Contrib.* 74, June 1934, pp. 20-25, 28-30.
6489. ———. Disc. of "The Holland Tunnel (The Hudson River Vehicular Tunnel)" by Ole Singstad. *Trans. AIME*, vol. 74, 1926, pp. 376-377.
6490. ———. Disc. of "Hydraulic Stripping of a Stone Quarry," by Mark Sheppard. *Trans. AIME, Ind. Min. Div. (Nonmetallics)*, vol. 129, 1938, p. 34.
6491. ———. Disc. of "Mining Practice in the Florida Pebble Phosphate Field," by Chester A. Fulton. *Trans. AIME, Ind. Min. Div. (Nonmetallics)*, vol. 129, 1938, pp. 280-281.
6492. ———. Disc. of "Outbursts of Gas and Methods of Working Seams of Coal Liable to Them," by Geo. Robblings. *Proc. South Wales Inst. Eng.*, vol. 43, 1927, pp. 32-47.
6493. ———. Disc. of "Physical Properties of Coal and Associated Rocks as Related to Causes of Bumps in Coal Mines," by C. T. Holland. *Trans. AIME, Coal Div.*, vol. 130, 1940, p. 91.
6494. ———. Disc. of "Pillar Deformation in a Bituminous-Coal Mine," by Charles T. Holland. *Trans. AIME, Coal Div.*, vol. 130, 1938, pp. 350-351.
6495. ———. Disc. of "Recent Trends in Rock Dusting to Prevent Dust Explosions in Coal Mines," by H. P. Greenwald. *Trans. AIME, Coal Div.*, vol. 130, 1940, pp. 106-108.
6496. ———. Disc. of "Rock Dusting," by P. H. Burnell. *Am. Min. Cong., Coal-Mine Mechanization Year Book*, 1930, pp. 332-334.
6497. ———. Disc. of "State Coal Mining Laws Concerning Ventilation," by J. A. Garcia. *Trans. AIME*, vol. 74, 1926, pp. 419-421; *Coal Age*, vol. 30, Nov. 11, 1926, p. 674.
6498. ———. Disc. of "Subsidence at Merrittstown Air Shaft Near Brownsville, Pa." by F. W. Newhall and L. N. Plein. *Trans. AIME, Coal Div.*, vol. 119, 1936, pp. 89-91.
6499. ———. Disc. of "What New Safety Ideas are Preventing Accidents?" *Proc. Coal Min. Inst. America*, 1932-34, p. 93.
6500. RICE, GEORGE S., AND ATKINSON, J. C. Aerial Maps, Greatly Improved, Simplify Work of Geologist and Engineer. *Min. and Met.*, vol. 17, December 1930, pp. 569-572.
6501. RICE, G. S., AND CLARK, H. H. Shot-Firing in Coal Mines by Electric Circuit From Surface. *Trans. AIME*, vol. 50, 1914, pp. 723-737.
6502. RICE, G. S., AND DAVIS, J. A. Mining Petroleum in France and Germany. *Trans. AIME*, vol. 74, 1926, pp. 857-893; *Petrol. Devel. and Technol.*, No. 1570-G, 1925; *Min. and Met.*, April 1926, pp. 278-314.
6503. RICE, G. S., AND FIELDNER, A. C. An Appreciation. *Fuel*, vol. 10, No. 9, September 1931, p. 381.
6504. RICE, G. S., AND GROUT, F. F. *Coal. Chap. in Political and Commercial Geol. and the World's Mineral Resources*, J. E. Spurr, ed., McGraw-Hill Book Co., N.Y., 1920, pp. 22-54.

6505. RICE, GEORGE S., AND HARRIS, F. E. Diesel Mine Locomotives. Development and Use in European Collieries. Min. Jour. (London), vol. 100, Feb. 8, 1937, p. 101; Feb. 13, 1937, pp. 116-117; Feb. 20, 1937, pp. 132-135; Min. and Contr. Rev., vol. 38, Dec. 15, 1936, p. 14; Dec. 22, 1936, p. 13; Dec. 29, 1936, p. 27; vol. 39, Jan. 5, 1937, p. 11; Railway Gazette, vol. 07, Aug. 6, 1937, p. 264; Coll. Guard., vol. 44, Apr. 2, 1937, p. 669; Nature, Apr. 10, 1937, p. 622.
6506. RICE, G. S., AND JONES, L. M. Coal-Dust Explosion at Experimental Mine. Proc. Mine Inspection Inst. America, 1914, pp. 134-141.
6507. RICE, G. S., AND PAUL, J. W. Amount and Nature of Losses in Mining Bituminous Coal in Eastern United States. Summary Report. Rept. of U.S. Coal Commission, vol. 3, 1925, pp. 1841-1876.
6508. RICE, G. S., AND WHEELER, R. V. Stone Dust as a Preventive of Coal Dust Explosions. Comparative Tests. Safety in Mines Research Board Paper 13 (London), 1925, 15 pp.
6509. RICE, GEORGE S., FIELDNER, A. C., AND TRYON, F. G. Conservation of Coal Resources. Trans. 3d World Power Conf., vol. 6, Sec. 4, Paper 11, 1938, pp. 671-724; disc., pp. 725-733.
6510. RICE, G. S., PAUL, J. W., AND SAYERS, R. R. Rock-Dusting to Prevent Coal-Dust Explosions in Mines. Coal Age, vol. 25, June 12, 1924, pp. 876-878.
- RICE, NEAL. See item 645.
6511. RICE, W. E. Control of Firing Operations in the Manufacture of Clay Fire Brick. Bull. Am. Ceram. Soc., vol. 11, No. 7, July 1932, pp. 181-184.
6512. ———. Factors in the Selection of Coal to be Used for the Firing of Ceramic Products. Supplement to Factors Recommended for Consideration in the Selection of Coal, Nat. Assoc. Purch. Agents, June 29, 1937, 6 pp.
6513. ———. The Firing of Brick Kilns. Ind. Gas, vol. 7, No. 2, August 1928, pp. 7-10.
6514. ———. Kilns and Fuels for Firing Refractories. Am. Refractories Inst. Tech. Bull. 15, September 1927, 8 pp.
6515. ———. Properties of Coal Which Affect its Use in the Ceramic Industry. Trans. AIME, vol. 101, 1932, pp. 247-252; Black Diamond, vol. 88, Feb. 27, 1932, pp. 30-31.
6516. ———. Relative Value of Carbon Monoxide and Hydrogen as Constituents of Producer Gas for Zinc Distillation Furnaces. Bull. Am. Zinc Inst., vol. 8, May 1925, pp. 120-134; Fuels and Furnaces, vol. 4, February 1926, pp. 151-162; Glass, vol. 3, Nos. 5 and 6, 1926, pp. 183-189, 227-231.
6517. ———. The Use of Fuels in Brick Kilns. Trans. ASME, Fuels and Steam Power, vol. 50, No. 8, January-April 1928, pp. 81-95; Tech. Bull. Am. Refractories Inst., 15, 1928; Fuels and Furnaces, vol. 5, November 1927, pp. 1489-1494; Clay Worker, vol. 88, November 1927, pp. 370-376; December 1927, pp. 442-445.
6518. ———. The Use of Fuels in Tunnel Kilns. Trans. ASME, Fuels and Steam Power, vol. 50, No. 33, September-December 1928, pp. 43-50; Clay Worker, vol. 92, July 1929, pp. 26-34.
6519. ———. What Properties of Coal to Consider for the Clay-Plant Kilns. Brick and Clay Record, vol. 02, 1938, pp. 13-15.
6520. ———. Disc. of "Uses of Coal in the Ceramic Industry" by H. E. Nold. Trans. AIME, Coal Div., vol. 108, 1934, p. 388.
6521. ———. Review of Data on Combustion in Kilns. Bull. Am. Ceram. Soc., vol. 15, October 1936, pp. 325-330.
- . See items 438, 439, 644, 2431-2434, 5727, 7214, 7215, 7219, 7221.
6522. RICE, W. E., AND HARRISON, H. C. Observations on the Firing of a Down-Draft Kiln With a Stoker Situated Outside Thereof. Jour. Am. Ceram. Soc., vol. 14, September 1931, pp. 643-657.
6523. RICE, W. E., AND SHERMAN, R. A. Determination of the Distribution of Heat in Kilns Firing Clay Wares. Jour. Am. Ceram. Soc., vol. 7, October 1924, pp. 738-763.
- RICH, M. N. See item 5168.
- RICHARDSON, A. C. See item 5185.
6525. RICHARDSON, A. S. Metal-Mine Ventilation Notes. Min. Cong. Jour., vol. 38, No. 7, July 1952, pp. 51-53.
6526. ———. Review of Progress in Ventilation of Mines of Butte, Mont., District. Colorado Sch. Mines Quart., vol. 45, No. 2B, April 1950, pp. 107-167; disc., pp. 167-172.
- . See item 5038.
- RICHARDSON, D. M. See items 4, 5.
- RICHARDSON, DOROTHY. See item 1349.
6527. RICHARDSON, J. M. The Existence and Stability of Simple, One-Dimensional, Steady-State Combustion Waves. 4th Symposium (Internat.) on Combustion, Williams & Wilkins Co., Baltimore, Md., 1953, pp. 182-189.
6528. ———. Irreversibility and the Statistical Mechanical Derivation of the Equations of Hydrodynamics. Bull. Am. Phys. Soc., vol. 25, No. 3, April 1950, p. 9; Phys. Rev., vol. 70, ser. 2, No. 1, July 1950, p. 200.
6529. ———. Variational Theory of the Radial Distribution Function. Jour. Chem. Phys., vol. 23, No. 12, December 1955, pp. 2304-2308.
- . See items 886, 5083b, 5083c.
6530. RICHARDSON, JOHN M., AND BRINKLEY, STUART, R., JR. Mechanics of Reacting Continua. Combustion Processes: High-Speed Aerodynamics and Jet Propulsion, Princeton University Press, 1956, vol. 2, pp. 203-215.
6531. ———. Properties of Liquids and Liquid Solutions. High Speed Aerodynamics and Jet Propulsion, Princeton University Press, Princeton, vol. 1, sec. F, 1955, pp. 501-553.
6532. RICHARDSON, JOHN M., AND KIRKWOOD, JOHN G. Buckling Instability of Thin Cylindrical Shells. Underwater Explosion Research (a Compendium of British and American Reports) The Damage Process. Off. of Naval Research, Dept. of Navy, vol. 3, 1950, pp. 423-443.
6533. ———. Theory of the Plastic Deformation of Thin Plates by Underwater Explosions. Underwater Explosion Research (a Compendium of British and American Reports), The Damage Process, Off. of Naval Research, Dept. of Navy, vol. 3, 1950, pp. 305-421.
6534. RICHARDSON, JOHN M., HOWARD, HENRY C., JR., AND SMITH, ROBERT, W., JR. The Relation Between Sampling Tube Measurements and Concentration Fluctuations in a Turbulent Gas Jet. 4th Symposium (Internat.) on Combustion, Williams and Wilkins Co., Baltimore, 1953, pp. 814-817.
6535. RICHARDSON, RICHARD P., AND LEWIS, RICHARD W. (Assigned to BURDELT, LTD.) Dry Cell of the HgO-KOH-Zn System. U.S. Patent 2,542,004, Feb. 20, 1951.
- RICHMOND, J. K. See items 3186, 8632.

6536. RICHMOND, J. K., AND FURNO, A. L. The Production and Measurement of Surge-Ignition Sparks. *Rev. Sci. Instr.*, vol. 24, No. 12, 1953, pp. 1107-1112.
6537. RICHMOND, J. K., DONALDSON, W. F., BURGESS, D. S., AND GRUMER, J. Evidence for the Wrinkled Continuous Laminar Wave Concept of Turbulent Burning. *Jet Propulsion*, vol. 28, 1958, pp. 393-399.
6538. RICHMOND, J. K., GRUMER, J., AND BURGESS, D. S. Turbulent Flame Propagation by Large-Scale Wrinkling of a Laminar Flame Front. 7th Symposium (Internat.) on Combustion, London, September 1958, pp. 615-620.
6540. RICHMOND, J. KENNETH, SINGER, JOSEPH M., COOK, EDWIN B., OXENDINE, JAMES R., GRUMER, JOSEPH AND BURGESS, DAVID S. Turbulent Burning Velocities of Natural Gas-Air Flames With Pipe-Flow Turbulence. 6th Symposium (Internat.) on Combustion, Reinhold Publishing Corporation, New York, 1957, pp. 303-311.
6541. RICKER, SPANGLER. Warlike Mineral Industry of California. *California Jour. Mines and Geol.*, vol. 41, January 1945, pp. 37-44.
— See items 4051, 8307, 8372.
6542. RIDDELL, W. C. Analysis of Magnesite. *Min. and Sci. Press*, vol. 120, 1920, pp. 943-944.
6543. —. Determination of Manganese; A Modification of Volhard's Method. *Min. and Sci. Press*, vol. 118, 1919, pp. 537-538.
6544. RIDDELL, W. C., AND KITTREDGE, E. Determination of Chromite Oxide in Chromite. *Min. and Sci. Press*, vol. 117, 1918, pp. 558-559.
6545. RIDGWAY, R. H. Ferroalloy Metals. *Eng. Min. Jour.*, vol. 153, No. 2, February 1952, p. 99.
6546. —. Chromite as a Chemical Raw Material. *Chem. Ind.*, vol. 42, 1938, pp. 17-22.
6547. —. Ferro-Alloying Materials in 1937. *Min. Cong. Jour.*, vol. 24, February 1938, pp. 41-44.
6548. —. New Jersey's Iron-Ore Production Displays Upward Trend. *Eng. Min. Jour.*, vol. 139, May 1938, pp. 46-47.
6549. —. The Source of Gold Supply. *Min. Cong. Jour.*, vol. 15, December 1929, p. 958.
6550. —. The Sources of Sulphur. *The Compass of Sigma Gamma Epsilon*, vol. 12, January 1932, pp. 75-79.
6551. —. Sulfur in 1939. *Min. Cong. Jour.*, vol. 26, February 1940, pp. 42-43.
6552. —. Sulfur Output Declines 13 Percent. *Min. Cong. Jour.*, vol. 25, February 1939, pp. 43-44.
- RIESZ, C. H. See item 7088.
6553. RIGGS, C. H. Atlantic Field, Arkansas, Begins Second Decade of Production. *Oil Gas Jour.*, vol. 47, No. 41, Feb. 10, 1949, pp. 86-87, 89, 91-92, 94, 96.
— See item 4073.
6554. RIGGS, C. H., AND SMITH, WILLIAM C. Water Flooding of Oil Sands in Washington County, Okla. *Oil Gas Jour.*, vol. 50, No. 4, May 31, 1951, pp. 117-118; No. 5, June 7, 1951, pp. 88-89; No. 6, June 14, 1951, pp. 103-104; No. 8, June 28, 1951, pp. 78-79; No. 9, July 5, 1951, pp. 78-79.
6555. RIGGS, C. H., AND WEY, J. E. Healdton Has Big Water-Flood Potential. *World Oil*, vol. 137, No. 1, July 1953, pp. 190, 192, 194, 196.
6556. —. Millions of Barrels More Oil for Healdton (Okla.) Field. *Oil Gas Jour.*, vol. 52, No. 6, June 15, 1953, pp. 96-100, 131-132, 134, 137, 140.
6557. RIGGS, C. H., WATKINS, J. W., DUNNING, H. N., EAKIN, J. L., JOHNSTON, K. H., POWELL, J. P., TALLAFERRO, D. B., AND FOWLER, H. C. The Effects of Improved Oil-Recovery Technology in Oklahoma. *Oil and Gas Compact Bull.*, vol. 16, December 1957, pp. 39-51; *Producers' Monthly*, vol. 23, January-February 1959.
RILEY, H. L. See items 2811, 2812.
RINEHART, W. H. See item 1929.
6558. RINKENBACH, W. H. Analysis of Mixtures of Aliphatic Nitrates by Means of the Refractometer. *Ind. Eng. Chem.*, vol. 19, No. 11, November 1927, pp. 1201-1202.
6559. —. Glycol Dinirate in Dynamite Manufacture. *Chem. Met. Eng.*, vol. 34, No. 5, May 1927, pp. 200-208.
6560. —. Preparation and Properties of Diethylene-glycol Dinirate. *Ind. Eng. Chem.*, vol. 19, No. 8, August 1927, pp. 924-925.
6561. —. Properties of Diethylene Glycol. *Ind. Eng. Chem.*, vol. 19, No. 4, April 1927, pp. 474-476.
6562. —. The Properties of Glycol Dinirate. *Ind. Eng. Chem.*, vol. 18, No. 11, November 1926, pp. 1195-1197.
— See items 7599-7613.
6563. RINKENBACH, W. H., AND HALL, R. E. The Heats of Fusion of Trinitrobenzene, Tetryl and Picric Acid. *Jour. Am. Chem. Soc.*, vol. 46, December, 1924, pp. 2037-2039.
6566. RINKENBACH, W. H., AND TAYLOR, C. A. Solubility of Tetranitroniline in Organic Solvents. *Jour. Am. Chem. Soc.*, vol. 45, 1923, pp. 1218-1220.
6568. RIOTT, J. P. Determining Metallic Iron in Iron Oxides and Alloys. *Ind. Eng. Chem.*, anal. ed., vol. 13, 1941, pp. 546-549.
— See items 986, 997, 6620, 6621.
6569. RIOTT, JOHN P., ROGERS, B. A. AND WENTZEL, K. A New Method for the Rapid Determination of Carbon in Plain Carbon Open-hearth Steel Samples. *Trans. Am. Soc. Metals*, vol. 27, 1939, pp. 175-187.
- RIITTENBERG, D. See items 6671, 6674.
6570. RITTMAN, W. F. Gas Manufacture From the Point of View of Physical Chemistry. *Ind. Eng. Chem.*, vol. 6, 1914, pp. 1027-1030.
6571. —. Utilization of Aromatic Hydrocarbons Derived From Cracking Petroleum. *Chem. Eng.*, vol. 22, 1915, pp. 256-261; *Ind. Eng. Chem.*, vol. 7, 1915, pp. 1014-1019.
6572. RITTMAN, W. F., AND DEAN, E. W. Analytical Distillation of Petroleum. *Ind. Eng. Chem.*, vol. 7, 1915, pp. 185-195, 754-760.
6573. RITTMAN, W. F., AND EGLOFF, G. Physical Constants of Gas Oils and Derived Tars. *Ind. Eng. Chem.*, vol. 7, 1915, pp. 481-484.
6574. —. Relations Among the Physical Constants of Petroleum Distillates. *Ind. Eng. Chem.*, vol. 7, 1915, pp. 578-582.
6575. —. Thermal Reactions in the Vapor Phase of Various Coal-Tar Oils and Distillates. *Met. Chem. Eng.*, vol. 14, 1910, pp. 15-18.
6577. RITTMAN, W. F., AND TWOMEY, T. J. Equilibrium Relations Among Aromatic Hydrocarbons Produced by Cracking Petroleum. *Ind. Eng. Chem.*, vol. 8, 1916, pp. 20-22.
6578. RITTMAN, W. F., HYRON, O., AND EGLOFF, G. Thermal Reactions of Petroleum Hydrocarbons in the Vapor Phase. *Ind. Eng. Chem.*, vol. 7, 1915, pp. 946-953, 1019-1024.
6579. RITTMAN, W. F., DEAN, E. W., AND DUTTON, C. B. Manufacture of Gasoline and Benzenetoluene From Petroleum and Other Hydrocarbons. *Ind. Eng. Chem.*, vol. 8, 1916, pp. 351-361.

6580. RITTMAN, W. F., JACOBS, W. A., AND DEAN, E. W. Government Tests of Gasolines. Physical and Chemical Properties of Many Varieties Sold Throughout the United States During 1915. *Chem. Eng.*, vol. 26, 1917, pp. 42-54.
6581. RITTMAN, W. F., TWOMEY, T. J., AND EGLOFF, G. Estimation Aromatic Hydrocarbons in Cracked Petroleum Mixtures. *Met. Chem. Eng.*, vol. 13, 1915, pp. 682-686.
- ROADSTRUM, W. H. See item 3959.
- ROBB, J. A. See item 3260.
6582. ROBERSON, A. H. Articles on Metallography. Metallography of Zirconium and Zirconium Alloys. *Metal Prog.*, vol. 56, 1949, pp. 602-603.
6584. ———. Rock Creek Radioactive Mineral Placer Area, Blaine County, Idaho. AEC, Oak Ridge, Tenn., Tech. Inf. Service Extension, 1955, 25 pp.
6585. ———. Thorium Arc Melting. Progress in Nuclear Energy. Series 5, vol. 2, Metallurgy and Fuels, Pergamon Press, 1959, pp. 56-62.
6586. ———. Titanium and Zirconium Casting Developments by U.S. Bureau of Mines. *Jour. Inst. Metals (London)*, vol. 80, September 1957, pp. 1-6.
6587. ———. Zirconium Arc Melting. Progress in Nuclear Energy. Series 5, vol. 2, Metallurgy and Fuels, Pergamon Press, 1959, pp. 121-130.
6588. ———. Zirconium, Atomic Power Metal. *Min. World*, vol. 15, No. 8, July 1953, pp. 54-56.
- . See items 497, 501, 1782, 1785, 3483, 3485, 3486, 3488-3493, 4848.
6589. ROBERSON, A. H., AND BANNING, L. H. Preparation and Chlorination of Titaniferous Slags From Idaho Ilmenites. *Jour. Metals*, vol. 7, No. 12, December 1955, pp. 1335-1342.
6590. ROBERSON, A. H., AND BEALL, R. A. Consumable Electrode Arc Melting of Thorium. The Metal Thorium. *Am. Soc. Metals*, 1958, chap. 8, pp. 114-123.
6591. ROBERSON, A. H., AND STEPHENS, W. W. Zirconium, Once a Rare Metal, Now Ready for Commercial Use. *Mod. Metals*, vol. 6, No. 8, September 1950, pp. 36-38.
6592. ROBERSON, A. H., HAYES, E. T., AND DONALDSON, V. V. Zirconium and Zirconium Alloys. A Symposium. *Am. Soc. Metals*, 1953, pp. 283-291.
- ROBERTS, L. D. See item 4812.
- ROBERTSON, A. F. See items 7512, 7522.
6594. ROBERTSON, ALMON F., AND STORCH, H. H. Camp Creek Radioactive Mineral Placer Area, Blaine and Camas Counties, Idaho. U.S. AEC, RMF-3136, 1955, 25 pp.
- ROBERTSON, A. K. See item 7711.
- ROBERTSON, I. W. See items 83, 1038-1048.
- ROBERTSON, R. H. See item 3493.
- ROBINSON, C. F. See item 7157.
6604. ROBINSON, C. F., AND SHARKEY, A. G., JR. (Assigned to Consolidated Electrodynamics Corp.) Ithium as an Electron Emitter in Mass Spectrometry. *Rev. Sci. Instr.*, vol. 29, 1958, pp. 250-251.
6605. ROBINSON, W. E., CUMMINS, J. J., AND STANFIELD, K. E. Constitution of Organic Acids Prepared From Colorado Oil Shale Based Upon Their n-Butyl Esters. *Ind. Eng. Chem.*, vol. 48, 1956, pp. 1134-1138.
6606. ROBINSON, W. E., HEADY, H. H., AND HUBBARD, A. B. Alkaline Permanganate Oxidation of Oil-Shale Kerogen. *Ind. Eng. Chem.*, vol. 45, 1953, pp. 788-791.
6607. ROBINSON, J. T. Comparative Cracking and Chipping of Wet and Dry Process Cast Iron Enamels. *Jour. Am. Ceram. Soc.*, vol. 7, July 1924, pp. 563-566.
6608. ROBINSON, J. T., AND WITHROW, J. R. The Dead Burning of Dolomite. *Jour. Am. Ceram. Soc.*, vol. 7, January 1924, I, pp. 61-73; II, February 1924, pp. 141-150; III, March 1924, pp. 207-221; IV, April 1924, pp. 302-311; V, May 1924, pp. 307-410.
- ROCKENBACK, L. P. See item 7538.
6609. RODRIGUEZ, E. R. Safety in Small Mines. *Electrical Hazards. Pay Dirt*, No. 138, Dec. 16, 1949, pp. 9-10.
6610. ———. Safety in Small Mines; Roof Bolting as a Possible Solution to Roof-Control Problems. *Pay Dirt*, No. 156, June 20, 1951, p. 11.
6611. ———. Safety in Small Mines. The Need for Adequate Mine Ventilation. II. *Pay Dirt*, No. 167, May 16, 1952, p. 11; No. 108, June 20, 1952, p. 11.
6612. ROGERS, B. A. Speeding Up Steel Refining. *Min. and Met.*, vol. 17, No. 358, October 1936, pp. 478-480.
6613. ———. Dis. of "The Cobalt-Molybdenum System" by W. P. Sykes and Howard F. Graff. *Trans. Am. Soc. Metals*, vol. 23, March 1935, p. 284.
6614. ———. Dis. of "A New Instrument for Magnetic Determination of Carbon in a Steel Bath," by H. K. Work and H. T. Clark. *Trans. AIME, Iron and Steel Div.*, vol. 140, 1940, pp. 480-487.
6615. ———. Rev. of "Heat Treatment of Metals," by J. Winning. *Chem. Eng. News*, vol. 22, Feb. 10, 1944, p. 200.
- . See item 6569.
6616. ROGERS, B. A., AND STAMM, K. O. An Apparatus for Determining Thermomagnetic Behavior of Slags, and Some Preliminary Results Obtained With It. *AIME, Tech. Pub. 1133, Metals Technol.*, vol. 6, No. 8, December 1939, 11 pp.
6617. ———. A Magnetic Determination of the Transformation Point in Iron. *AIME, Tech. Pub. 1388, Trans. AIME, Iron and Steel Div.*, vol. 150, 1942, pp. 131-141; disc., pp. 144-146; *Metals Technol.*, vol. 8, No. 7, 1941, pp. 1-11.
6618. ———. The Magnetic Properties of a Series of Basic Open-Hearth Slag Samples. *Trans. Am. Soc. Metals*, vol. 25, No. 2, 1937, pp. 420-434.
6619. ROGERS, B. A., KROLL, W. J., AND HOLMES, H. P. Production of Fused Silica. *Trans. Electrochem. Soc.*, vol. 92, pp. 345-350; prepr. 92-20.
6620. ROGERS, B. A., WENTZEL, KARL, AND RIOTT, J. P. Magnetic Methods for Determining Carbon in Steel. *Trans. Am. Soc. Metals*, vol. 29, 1941, pp. 909-983.
6621. ———. A New Method for the Rapid Determination of Carbon in Samples of Plain-Carbon Open-Hearth Steel. *Trans. Am. Soc. Metals*, vol. 27, 1939, pp. 175-190.
6622. ROGERS, H. O. Exit the Mule. *Coal Age*, vol. 32, August 1927, pp. 84-88.
6623. ———. Why Coal Production Fluctuates and How It Affects Business Activities. *Steam Coal Buyer*, vol. 10, Sept. 1928, pp. 15-16.
- . See items 7873-7875, 7881.
6624. ROGERS, H. O., AND TRYON, F. G. Fitting Product to Consumer's Needs. How Bituminous Coal Met the Issue in 1927. *Coal Age*, vol. 34, Jan. 1929, pp. 30-32.
6625. ———. Mechanical Cleaning of Bituminous Coal Establishes New Tonnage Record; Wet and Pneumatic Processes. *Coal Age*, vol. 35, September 1930, pp. 519-520.
6626. ———. Nation-Wide Increase in Use of Screening Equipment Shows Progress in Bituminous Preparation. *Coal Age*, vol. 34, August 1929, pp. 475-478.

- ROGOFF, N. E. See Item 581.
6627. ROGOFF, M. H. An Aromatic Intermediate in the Bacterial Oxidation of Quinic Acid. *Jour. Gen. Microbiology*, vol. 19, 1958, pp. 330-339.
6628. ———. Bacterial Oxidation of Polycyclic Hydrocarbons. Soc. Am. Bacteriology, Bacteriological Proc. 57th Gen. Meeting, Detroit, Mich., April 28-May 2, 1957, p. 133.
6629. ROGOFF, M., AND REID, J. J. Bacterial Decomposition of 2,4-Dichlorophenoxyacetic Acid. *Jour. Bacteriology*, vol. 71, 1956, pp. 303-307.
6630. ROGOFF, M. H., AND WENDER, I. The Microbiology of Coal. I. Bacterial Oxidation of Phenanthracene. *Jour. Bacteriology*, vol. 73, 1957, pp. 264-268.
6631. ———. Methylsulphathiazole Oxidations by Pseudomonads. *Jour. Bacteriology*, vol. 77, No. 6, June 1959, pp. 783-788.
6632. ———. 3-Hydroxy-2-Naphthoic Acid as an Intermediate in Bacterial Dissimilation of Anthracene. *Jour. Bacteriology*, vol. 74, No. 1, July 1957, pp. 108-109.
6633. ROGOFF, MARTIN H., GOLDEN, PAUL L., AND ROSA, CARL. Inexpensive, Space-Saving Laboratory Shaker. *Rev. Sci. Instr.*, vol. 27, No. 6, June 1956, p. 413.
6634. ROLLER, P. S. An Accurate Air Separator for Fine Powders. *Ind. Eng. Chem., anal. ed.*, vol. 3, Apr. 15, 1931, p. 212.
6635. ———. The Bulking Properties of Microscopic Powders. *Ind. Eng. Chem.*, vol. 22, 1930, p. 1206-1208.
6636. ———. Chemical Activity and Particle Size. The Rate of Solution of Anhydrite Below 70 Microns. *Jour. Phys. Chem.*, vol. 35, April 1931, pp. 1133-1142.
6637. ———. Chemical Activity and Particle Size. The Rate of Solution at Slow Stirring of Anhydrite and Gypsum. *Jour. Phys. Chem.*, vol. 36, April 1932, pp. 1202-1231.
6638. ———. A Classification of Methods of Mechanical Analysis of Particulate Materials. *Proc. ASTM*, vol. 37, pt. 2, 1937, pp. 675-683.
6639. ———. Colorimetric Determination of Aluminum With Anhydricarboxylic. *Jour. Am. Chem. Soc.*, vol. 55, June 1933, pp. 2437-2438.
6640. ———. Construction of an Accurate Air Separator. *Ind. Eng. Chem., anal. ed.*, vol. 4, July 15, 1932, p. 341.
6641. ———. Law of Size Distribution and Statistical Description of Particulate Materials. *Jour. Franklin Inst.*, vol. 223, May 1937, pp. 609-633; errata, p. 800.
6642. ———. Measurement of Particle Size With an Accurate Air Analyzer: I. The Fineness and Particle-Size Distribution of Portland Cement. *Proc., ASTM, Meet.*, vol. 32, pt. 2, 1932, p. 607.
6643. ———. Measuring Plasticity and Workability of Cement Mortars. *Concrete*, vol. 50, November 1942, pp. 35-36.
6644. ———. Particle-Size Distribution of Pigments. *Nat. Paint Bull.*, vol. 1, October 1937, pp. 20-21; November 1937, pp. 14-15, 17.
6645. ———. The Physical and Chemical Relations in Fluid-Phase Heterogeneous Reaction. *Jour. Phys. Chem.*, vol. 39, February 1935, pp. 221-237.
6646. ———. Plastic Flow of Dispersions and A New Approach to the Study of Plasticity. *Jour. Phys. Chem.*, vol. 43, April 1939, pp. 457-489.
6647. ———. The Plastic Flow of Soft Amorphous Substances. *Jour. Washington Acad. Sci.*, vol. 28, 1939, p. 384.
6648. ———. Seasoning of Portland Cement at Elevated Temperature. *Ind. Eng. Chem.*, vol. 28, March 1936, pp. 362-369.
6649. ———. The Setting of Portland Cement. Chemical Reactions and the Role of Calcium Sulphate. *Ind. Eng. Chem.*, vol. 26, June 1934, pp. 669-677.
6650. ———. The Setting of Portland Cement. Chemical Reactions of Seasoning, Reversion, and Restoration. *Ind. Eng. Chem.*, vol. 26, October 1934, pp. 1077-1083.
6651. ———. Size Distribution of Ceramic Powders as Determined by a Particle-Size Air Analyzer. *Jour. Am. Ceram. Soc.*, vol. 20, May 1937, pp. 167-174.
6652. ———. Statistical Analysis of Size Distribution of Particulate Materials, With Special Reference to Bimodal and Frequency Distributions. Correlation of Quartile With Statistical Values. *Jour. Phys. Chem.*, vol. 45, February 1941, pp. 241-281.
6653. ———. Theory and Measurement of Plasticity and Workability of Mortar. *Proc. ASTM, Prepr.* 50, 1942, 11 pp.
6654. ———. Theory of the Error of Acid-Base Titration. *Jour. Am. Chem. Soc.*, vol. 54, Sept. 5, 1932, p. 8485.
6655. ———. Theory of the Error of Acid-Base Titration. *Jour. Am. Chem. Soc.*, vol. 57, January 1935, pp. 98-100.
6656. ———. Disc. of "Broken Coal. Part II. The Relation Between Size Distribution and Breakage Process," by J. G. Burnett. *Proc. South Wales Inst. Eng.*, Sept. 17, 1941, pp. 138-147.
6657. ———. Disc. of "A Hydrometer Method for Determining the Fineness of Portland-Puzzolan Cements," by S. B. Biddle and Alexander Klein. *Ind. Eng. Chem.*, vol. 28, 1936, pp. 362-369; *Proc. ASTM*, vol. 36, pt. 2, 1936, pp. 329-330.
6658. ———. Disc. of "The Importance and the Determination of Particle Sizes of Hydraulic-Fill Dam Materials," by H. H. Hatch. *Proc. ASTM*, vol. 34, pt. 2, 1934, pp. 748-749.
6659. ———. Disc. of "Measurement of Particle-Size Distribution by Optical Methods" by R. N. Traxler and L. A. H. Baum. *Proc. ASTM*, vol. 35, pt. 2, 1935, p. 468.
6660. ———. Disc. of "Measuring Surface Area in Grinding," by Fred. C. Bond. *AIME, Tech. Pub.* 1412, *Min. Technol.*, November 1941, 5 pp.
6661. ———. Disc. of "Oil-Air Separation of Nonsulfide and Nonmetallic Minerals," by Arthur F. Taggart, G. R. M. del Giudice, A. M. Sadler, and M. Hassalis. *Trans. AIME, Rocky Mt. Fund. on Milling Methods*, vol. 134, 1938, pp. 204-205.
6662. ———. Disc. of "Specific Surface and Particle-Size Distribution of Finely Divided Materials," by M. N. States. *Proc. ASTM*, vol. 39, 1939, pp. 808-809.
6663. ———. Disc. of "A Study of Adsorption as a Method for the Determination of the Surface of Pulverized Coal," by R. A. Sherman, C. E. Irion and J. E. Rogers. *Proc. ASTM*, vol. 33, pt. 2, 1933, pp. 739-740.
6664. ———. Disc. of "Study of Cement Composition in Relation to Strength, Length Changes, Resistance to Sulphate Waters and to Freezing and Thawing of Mortars and Concrete," by H. F. Gonnemann. *Proc. ASTM*, vol. 34, pt. 2, 1934, pp. 299-300.
6665. ———. Disc. of "A Study of the Grindability of Coal and the Fineness of Pulverized Coal When Using the Lea-Nurse Air-Permeability Method for Evaluating the Subsize Fractions," by J. B. Romer. *Proc. ASTM*, vol. 41, 1941, p. 1167.
6666. ———. Disc. of "Studies of the Operation of the Wagner Turbidimeter," by H. S. Ponzer and D. R. MacPherson. *Proc. ASTM*, vol. 38, 1938, Part II, p. 458.

6667. ROLLER, P. S. Disc. of "A Suspension Turbidimeter for Determination of Specific Surface of Granular Materials," by Alexander Klein. *Proc. ASTM*, vol. 34, pt. 2, 1934, pp. 315-316.
— See item 582.
6668. ROLLER, PAUL S., AND ERVIN, GUY, JR. Determining Carbon Dioxide. A Rapid Turbidimetric Method. *Ind. Eng. Chem., anal. ed.*, vol. 11, 1939, pp. 150-153.
6669. —. The System Calcium-Oxide-Silica-Water at 30°. The Association of Silicate Ion in Dilute Alkaline Solution. *Jour. Am. Chem. Soc.*, vol. 62, 1940, pp. 461-471.
6670. ROLLER, P. S., AND HALWER, MURRAY. Relative Value of Gypsum and Anhydrite as Additions to Portland Cement. *Concrete and Quarry*, vol. 10, December 1937, pp. 14-18.
6671. ROLLER, P. S., AND RITTENBERG, D. Impervious Crucibles of Magnesium Oxide. *Ind. Eng. Chem.*, vol. 24, April 1932, pp. 430-440.
6672. ROLLER, PAUL S., AND ROUNDY, P. V., JR. Surface Area of Portland Cement. *ASTM, Symp. on New Methods for Particle-Size Determination in Subsieve Range*, 1941, pp. 36-49.
6673. ROLLER, PAUL S., AND STODDARD, C. KERBY. Viscosity and Rigidity of Structural Suspensions. *Jour. Phys. Chem.*, vol. 48, 1944, pp. 410-425.
6674. ROLLER, P. S., RITTENBERG, D., AND GABRIEL, ALTON. Preparation of Laboratory Refractory Crucibles. *Ind. Eng. Chem., anal. ed.*, vol. 8, Nov. 15, 1936, p. 486.
6675. ROMAN, IRWIN. Observation Method to Overcome Zero Drift Error in Field Instruments. *Geophysics*, vol. 11, No. 4, October 1946, pp. 466-490.
6676. —. The Resolving Power of Magnetic Observations. *AIIME Tech. Pub.* 2007, November 1940, 18 pp.; *Trans. AIIME*, vol. 181, 1949, pp. 33-50.
ROMANS, P. A. See items 5428, 5429.
- ROOT, D. C. See item 1786.
- ROSA, CARL. See item 6633.
- ROSE, A. H. See item 4980.
- ROSE, C. K. See item 2002.
6677. ROSE H. J., AND SELVIO, W. A. Report of the Technical Committee on Coal Classification. *Proc. ASTM*, vol. 34, pt. 1, 1934, pp. 478-480.
6678. —. Report of the Technical Committee on Scientific Classification. *Proc. ASTM*, vol. 34, pt. 1, 1934, pp. 469-474.
ROSE, H. L. See item 984.
- ROSEN, B. H. See item 8633.
- ROSENBAUM, J. B. See items 1238, 1244, 4832, 4835, 4836, 6685a.
- 6678a. ROSENBAUM, J. B., AND CLEMMER, J. B. Liquid-Solids Separations. *Uranium Ore Processing*, by Clegg and Foley. *Atoms for Peace*, Addison-Wesley Publishing Co., Inc., Reading, Mass., September 1958, pp. 172-190.
6679. —. Metallurgical Applications of Solvent Extraction. *Mines Mag.*, August 1957, pp. 21-24.
6680. —. Solvent Extraction Separation of Uranium from Acid Leach Liquor and Pulp. *Min. Rev.*, vol. 1, No. 4, April 1956, pp. 6-9.
6681. ROSENBAUM, J. B., AND SCHACK, C. H. Recent Improvements in Flotation of Oxide Manganese Ores. *Mines Mag.*, March 1953, pp. 67-70.
6682. ROSENBAUM, J. B., BORROWMAN, S. R., AND CLEMMER, J. B. Solvent Extraction for Recovering Uranium and Vanadium From Salt-Roast-Process Solutions. *Proc. 2d United Nations Internat. Conf. on Peaceful Uses of Atomic Energy*, 1958, vol. 3, pp. 505-509.
6683. ROSENBAUM, J. B., LENNEMAN, W. L., AND CLEMMER, J. B. Innovations in Processing Uranium Ore. *Min. Eng.*, vol. 9, No. 9, September 1957, pp. 970-981.
6684. ROSENBAUM, J. B., MERRILL, C. C., AND NIXON, C. A. Comparison of Chemical Grade Chromites. *Mines Mag.*, vol. 41, September 1951, pp. 13-16.
ROSENBERY, LEON P. See item 5083a.
6685. ROSS, A. E., AND LONG, A. E. Oriented Diamond Bits Cut Drilling Costs. *Min. Cong. Jour.*, vol. 30, August 1953, pp. 71-73.
ROSS, C. S. See items 787, 5218.
- ROSS, J. R. See item 1244.
- 6685a. ROSS, J. R., ROSENBAUM, J. B., AND CLEMMER, J. B. Solvent Extraction Separation of Uranium From Acid Leach Liquors and Pulp. *AEC, AECU-3181*, 1950, 18 pp.
6686. ROSS, J. S. Deep Sand Development in the Cotton Valley Field, Webster Parish, Louisiana. *Bull. Am. Assoc. Petrol. Geol.*, vol. 14, No. 8, August 1930, pp. 983-995.
6687. —. Preliminary Report on Petroleum Engineering in the Tonkawa Oil Field, Kay and Noble Counties, Okla. Distributed by the Bartlesville, Okla. Chamber of Commerce, 1923, 27 pp.
— See item 7043.
- ROTH, WALTER. See item 6093.
6688. ROTH, WALTER, GUEST, PAUL G., VON ELBE, GUENTHER, AND LEWIS, BERNARD. Heat Generation By Electric Sparks and Rate of Heat Loss to the Spark Electrodes. *Jour. Chem. Phys.*, vol. 19, No. 12, December 1951, pp. 1530-1535.
6689. ROTHROCK, HOWARD E., JOHNSON, C. H., AND HAHN, A. D. Fluorspar Resources of New Mexico. *New Mexico Bur. Mines and Min. Res. Bull.* 21, 1940, 245 pp.
- ROUGH, ROBERT L. See item 3057.
- ROUNDY, P. V., JR. See item 6672.
- ROWE, VALERIA R. See items 3178-3180.
6690. ROWLAND, JAMES A. High-Damping Structural Alloys. *Steel*, vol. 134, No. 22, May 31, 1954, p. 89.
— See items 2775, 4035, 6131.
6691. ROWLAND, JAMES A., AND JENSEN, JAMES W. Manganese-Copper Alloys Put Damper on Noise. *Steel*, vol. 135, No. 11, September 13, 1954, p. 127.
6692. ROWLAND, JAMES A., ARMANTROUT, CLO E., AND WALSH, DAVID F. Magnesium-Rich Corner of the Magnesium-Lithium-Aluminum System. *Jour. Metals*, vol. 7, *Trans. AIIME*, vol. 203, February 1955, pp. 355-359.
- ROYER, M. B. See items 680, 991-993, 996, 4492, 4493, 7196.
6693. ROYER, MILES B., AND BUEHL, RUSSELL C. Production of High Manganese Slags by Selective Oxidation of Spiegeleisen. *Jour. Metals*, vol. 4, No. 12, 1952, pp. 1295-1300.
6694. ROYSTER, P. H. Production of Ferro-Manganese in the Blast-Furnace. *Trans. AIIME*, vol. 62, 1918-19, pp. 18-27.
— See items 2182, 4169, 6354.
6696. ROYSTER, P. H., AND JOSEPH, T. L. Effect of Coke Combustibility on Stock Descent in Blast Furnaces. *Trans. AIIME*, vol. 70, 1924, pp. 224-233; disc., pp. 233-238. *Min. and Met.*, vol. 5, April 1924, pp. 196-197.
6697. —. Pyrometry in Blast-Furnace Work. *Trans. AIIME*, Pyrometry number, 1920, pp. 544-500.
6698. —. Study Stock Flow in Furnaces. *Iron Trades Rev.*, vol. 74, Mar. 13, 1924, pp. 738-740.

6699. ROYSTER, P. H., JOSEPH, T. L., AND KINNEY, S. P. Heat Balance of Bureau of Mines Experimental Blast Furnace. *Blast Fur. and St. Plant*, vol. 12, April 1924, pp. 200-204.
6700. ———. Influence of Ore Size on Reduction. *Blast Fur. and St. Plant*, vol. 12, June 1924, pp. 274-280.
6701. ———. Reduction of Iron in the Blast Furnace. *Blast Fur. and St. Plant*, vol. 12, January-June 1924, pp. 35-37, 98-100, 154-158, 200-204, 240-250, 274-280.
6702. ———. Significance of the Hearth. Part II of Experimental Furnace Investigation. *Blast Fur. and St. Plant*, vol. 12, March 1924, pp. 154-158.
6703. ———. Time Element in Iron Ore Reduction. *Blast Fur. and St. Plant*, vol. 12, May 1924, pp. 240-250.
- RUARK, J. R. See items 5215, 5225.
6704. RUE, H. P. Some Effects of Fractionation on the Chemical Treatment of Gasoline. *Oil Gas Jour.*, vol. 26, Apr. 26, 1928, pp. 142-143; *Nat. Petrol. News*, vol. 20, Apr. 25, 1928, pp. 48-50; *Refiner and Nat. Gasoline Mfr.*, vol. 7, May 1928, pp. 90, 98.
6705. ———. Work of the Petroleum and Natural-Gas Division of the Bureau of Mines. *Proc. 17th Ann. Conv. Wyoming Eng. Soc.*, 1936, p. 11.
———. See item 2134.
6706. RUE, H. P., AND ESPACH, R. H. Gum Problems in Motor Fuels. *Oil Gas Jour.*, Mar. 6, 1930, p. 186.
6707. RUEHRWEIN, ROBERT A., AND HUFFMAN, HUGH M. Thermal Data. XIX. The Heat Capacity, Entropy, and Free Energy of Urea. *Jour. Am. Chem. Soc.*, vol. 68, 1946, pp. 1759-1761.
- 6707a. RUHLMAN, E. R. Phosphate Rock. Sec. in *Metal, Mineral and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 31.
- 6707b. ———. Potash. Sec. in *Metal, Mineral and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 32.
6708. RUNKE, S. M., AND O'MEARA, R. G. Beneficiation of Arkansas Bauxite. *AIME, Tech. Pub.* 1698, Min. Technol., May 1944, 9 pp.; *Trans. AIME, Reduc. and Refin. Nonfer. Metals*, vol. 159, 1944, pp. 218-226; *Chem. Met. Eng.*, vol. 51, 1944, pp. 205-208.
6709. RUNNER, D. G. Nonmetallies in 1948. *Eng. Min. Jour.*, vol. 150, February 1949, pp. 93-95.
- Sachs, A. See item 3464.
6722. ST. CLAIR, H. W. Agglomeration of Smoke, Fog, and Dust Particles by Sonic Waves. *Ind. Eng. Chem.*, vol. 41, 1949, pp. 2434-2438.
6723. ———. Agglomeration of Smoke, Fog, or Dust Particles by Sonic Waves. *Ind. and Eng. Chem.*, vol. 41, November 1949, pp. 2434-2438.
6724. ———. Distillation of Metals Under Reduced Pressures. Chap. in *Vacuum Metallurgy*, Reinhold Pub. Corp., New York, N.Y., 1958, pp. 295-305.
6725. ———. Electromagnetic Sound Generator for Producing Intense High-Frequency Sound. *Rev. Sci. Instr.*, vol. 12, 1941, pp. 250-256.
6726. ———. Electrostatic Precipitation and Sonic Flocculation. *Am. Ind. Hyg. Assoc. Quart.*, vol. 11, March 1950, p. 1.
6727. ———. Flocculation of Aerosols by High-Frequency Sound. Bureau of Mines Met Div. Conf. Met. Res., Salt Lake City, Utah, May 1940, pp. 99-109.
6728. ———. Theory and Basic Principles of the Sonic Smoke Flocculator. *Air Pollution, Proc. U.S. Tech. Conf. on Air Pollution*, McGraw-Hill, 1952, pp. 382-388.
- RUOF, C. H. See item 7553.
6710. RUOF, C. H., ENTEL, J., AND HOWARD, H. C. Nature of the Intermediate Acids Formed in the Oxidation of Carbon Black to Mellic Acid. *Fuel*, vol. 35, October 1956, pp. 409-414.
- RUFFERT, JOHN A. See item 1376.
6711. RUSSELL, A. E. Clinical and Statistical Aspects of Silicosis. *Trans. Nat. Safety Council*, 1932, pp. 57-61.
———. See item 7265.
- RUSSELL, H. W. See item 2003.
6712. RUSSELL, P. L. Testing Round Carbon Drill Steel. *Min. Eng.*, vol. 4, No. 1, January 1952, pp. 42-43.
———. See item 67.
6713. RUTLEDGE, J. J. Demonstration Coal Mine. *Trans. AIME*, vol. 63, 1919-1920, pp. 945-952.
6714. ———. Observation Experience in Mine Inspection Work. *Proc. Mine Inspectors Inst. America*, 1915, pp. 83-95.
6715. ———. What Constitutes Efficiency in Mine Inspection. *Proc. Mine Inspectors Inst. America*, 1916, pp. 103-107.
6716. ———. Suggestions in Regard to Coal Mine Inspection. *Proc. Mine Inspectors Inst. America*, 1912, pp. 35-52.
6717. RUTLEDGE, J. J., AND HALL, C. Blasting by Electricity in Mines. *Utah System, Bull. 10*, Min. and Eng. World, vol. 30, 1912, pp. 1143-1144.
6718. RYAN, J. P. Gold. Sec. in *Metal, Mineral and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 21; *Eng. Min. Jour.*, vol. 160, No. 2, February 1959, p. 113.
6719. ———. Platinum. *Eng. Min. Jour.*, vol. 160, No. 2, February 1959, p. 95.
6720. ———. Platinum Group Metals. Sec. in *Metal, Mineral and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 32.
6721. ———. Silver. Sec. in *Metal, Mineral and Mineral Fuel Review for 1958*, State Geologists Jour., vol. 11, No. 2, October 1959, p. 34; *Eng. Min. Jour.*, vol. 160, No. 2, February 1959, p. 120.
- RYNIKER, CHARLES. See item 5598.
6729. ———. The Use of Sound and Ultrasound Waves in Metallurgy. *Min. and Met.*, vol. 18, 1937, p. 244.
6730. ———. Rev. of "Aluminum From Mine to Sky." by June Metcalf. *Chem. Eng. News*, vol. 26, No. 28, July 12, 1948, p. 2090.
———. See items 2135, 3038.
6731. ST. CLAIR, HILLARY W., AND SPENDLOVE, MAX J. Rate of Evaporation of Zinc at Low Pressures. *Trans. AIME*, vol. 191, December 1951, pp. 1102-1107; *Jour. Metals*, vol. 3, No. 12, December 1951, pp. 1192-1197.
6732. ST. CLAIR, H. W., RAVITZ, S. F., AND SWEET, A. T. Alumina From Clay. *Chem. Met. Eng.*, vol. 51, April 1944, pp. 181-183.
6733. ST. CLAIR, H. W., RAVITZ, S. F., SWEET, A. T., AND PLUMMER, O. E. The Ammonium Sulfate Process for Production of Aluminum From Western Clays. *Trans. AIME, Reduc. and Refin. Nonfer. Metals*, vol. 159, 1955, pp. 255-266.
- SAHAMA, T. G. See item 7798.
6734. SAHAMA, T. G., AND TOROSON, D. R. Some Examples of the Application of Thermochemistry to Petrology. *Jour. Geol.*, vol. 57, 1949, p. 255.

- SALMON, J. R. See items 6070, 6071.
 SALSBURY, M. H. See item 5208.
 SALTER, L. L. See items 2491, 2492.
 SAND, L. B. See items 116, 8191.
6735. SAND, L. B., AND BAUR, GRETTA S. Genesis of Kaolinite in Cretaceous Shales of Central Colorado. Proc. 6th Nat. Conf. Clays, Clay Minerals, 1958, pp. 188-195, Pergamon Press, New York.
6738. SANDAKER, J. H., DRESSLER, R. G., AND MARKOVITS, J. A. Recent Developments and Results at the Gas-Synthesis Demonstration Plant, Louisiana, Mo. ASME, Tech. Paper 53-F-27, September 1952, 13 pp; Mech. Eng., vol. 74, No. 11, November 1952, p. 928.
6737. SANDAKER, J. H., MARKOVITS, J. A., AND BRETSCHNEIDER, K. B. High-Pressure (10,300-p.s.i.), Piping, Flanged Joints, Fittings, and Valves for Coal-Hydrogenation Service. Trans. ASME, vol. 72, No. 4, May 1950, pp. 363-372.
- SANDS, A. E. See items 453, 2022, 8118.
6738. SANDS, A. E., AND SCHMIDT, L. D. Recovery of Sulfur From Synthesis Gas. Ind. Eng. Chem., vol. 42, No. 11, November 1950, pp. 2277-2287.
6739. SANDS, A. E., WAINWRIGHT, H. W., AND EGLESON, G. C. Organic Sulfur in Synthesis Gas: Occurrence, Determination, and Removal. Proc. Am. Gas. Assoc., 1950, pp. 504-502.
6740. SANDS, A. E., WAINWRIGHT, H. W., AND SCHMIDT, L. D. The Purification of Synthesis Gas Produced From Pulverized Coal; Specifications, Purification Processes, and Analytical Methods. Ind. Eng. Chem., vol. 40, No. 4, April 1948, pp. 607-620.
- SANFORD, J. H. See item 7711.
6742. SANNER, W. S., AND ECKERD, J. W. Laboratory-Scale Experiments in the Production of an Agglomerated Anthracite Metallurgical Fuel. Proc., 5th Bienn. Briquetting Conf., Internat. Briquetting Assoc., 1957, pp. 53-75.
6743. SANTMYERS, R. M. Lead. Min. Ind., vol. 39, 1930, pp. 356-384; vol. 40, 1931, pp. 321-350; vol. 38, 1929, pp. 381-411; vol. 37, 1928, pp. 360-388; vol. 36, 1927, pp. 340-366; vol. 35, 1926, pp. 305-433; vol. 34, 1925, pp. 427-453.
6745. SAVICH, T. R., PELIPETZ, M. G., BUDY, W. A., CLARK, E. L., AND STORCH, H. H. Stripping of Coal-Hydrogenation Heavy-Oil Slurry by Superheated Steam. Ind. Eng. Chem., vol. 41, May 1949, pp. 908-971.
- SAWYER, C. H. See item 7142.
- SAXE, J. A. See item 2987.
6746. SAYERS, R. R. Absenteeism—A Coal-Industry Problem; British and American Conditions. Min. Cong. Jour., vol. 29, May 1943, pp. 23-27.
6747. ———. Air from Mines Analyzed to Detect Formation of Gases Deleterious to Health of Workmen. U.S. Daily, Oct. 29, 1927.
6748. ———. All-Time Record Made in Coal-Mine Safety, 1941. Coal Age, vol. 47, February 1942, pp. 81-82.
6749. ———. Anthraco-Silicosis of Anthracite Miners. Jour. Ind. Hygiene and Toxicol., vol. 21, October 1939, pp. 193-194.
6750. ———. Boulder City Manganese Pilot Plant of the U.S. Bureau of Mines. Min. Cong. Jour., vol. 27, October 1941, p. 65.
6751. ———. The Bureau of Mines and National Defense. Proc. Coal Min. Inst. America, 1941, pp. 74-85.
6752. ———. Bureau of Mines Develops Instruments to Aid in Reclaiming Zinc, Lead Ores. Steel, vol. 111, July 27, 1942, p. 38.
6753. ———. Bureau of Mines Explores Country's Resources. Blast Fur. and St. Plant, vol. 29, 1941, pp. 1231-1232.
6754. ———. Bureau of Mines War Program. Min. Cong. Jour., vol. 29, January 1943, pp. 24-27.
6755. ———. Carbon-Monoxide Poisoning and Its Diagnosis. Atlantic Medical Jour., Nov. 1925, pp. 50-62.
6756. ———. Carbon Monoxide Poisoning in Homes and Industries. Nat. Safety News, vol. 10, Sept. 1924, p. 32.
6757. ———. Coal and War in 1943; Federal Inspection. Coal Age, vol. 49, February 1944, pp. 79-82.
6758. ———. Coal Dust and Pulmonary Ailments. Canadian Min. Jour., vol. 61, 1940, pp. 821-822.
6759. ———. Coal Dust; It Causes Explosions and Pre-disposes Workmen to Disease. Min. and Met., vol. 24, 1943, pp. 5-8.
6760. ———. Coal in State of Washington Yields Blast-Furnace Coke. Blast Fur. and St. Plant, vol. 29, 1941, p. 1004.
6761. ———. Conditions Affecting Health of Miners Studied and Causes of Occupational Ailments Eliminated. U.S. Daily, Oct. 28, 1927.
6762. ———. Domestic Output of Manganese Will be Increased. Blast Fur. and St. Plant, vol. 29, 1941, p. 1136.
6763. ———. Dust and Gases Found in Coal Mines. West Virginia Med. Jour., vol. 37, 1941, pp. 503-507.
6764. ———. Effect of Dust on the Lungs. Am. Jour. Pub. Health, April 1930.
6765. ———. The Effects of Silica Dust Upon the Lungs. Am. Jour. Pub. Health, vol. 17, 1927, pp. 208-214.
6766. ———. Factors to be Considered in the Choice of Equipment. Coal-Heat, vol. 49, No. 3, March 1946, pp. 66, 68.
6767. ———. Federal Inspection Starts to Move in Promoting Safety. Coal Age, vol. 48, February 1943, pp. 107-109.
6768. ———. First Aid and Its Value. Safety Eng., vol. 52, November 1926, pp. 219-220.
6769. ———. First-Aid Dressing Stations Underground. Proc. Nat. Safety Council, 1921.
6770. ———. First Aid and Resuscitation. 1st Ann. Northwest Fire School, Minneapolis, August 15, 1928.
6771. ———. Fundamental Requirements of the Workers in Wartime. Safety, vol. 30, May 1943, pp. 130, 142, 145; June 1943, pp. 153-154, 163-164, 166.
6772. ———. Health Conditions in Mines of Foreign Countries. Min. and Met., vol. 6, Jan. 1925, pp. 28-29.
6773. ———. Health Hazards in the Mining Industry. Arizona Min. Jour., vol. 8, Mar. 15, 1925, pp. 7, 8, 44-47.
6774. ———. Health and Safety in Coal Mining. What Has Been Done and What May be Done in the Future. Proc. West Virginia Safety Conf., 1945, pp. 35-45.
6775. ———. Health of Workers in Mines Promoted By Federal Service. U.S. Daily, Nov. 22, 1929, p. 8.
6776. ———. History of the Health and Safety Branch of the Bureau of Mines. Min. Cong. Jour., vol. 14, Apr. 1928, pp. 233-234, 236.
6777. ———. Improved Health of Workers Reduces Accidents. Concrete, Cement Mill Sec., vol. 50, November 1942, pp. 271-272.
6778. ———. Increase Production Through Cooperation. Proc. West Virginia Safety Conf., 1944, pp. 20-35.

6779. SAYERS, R. R. Industrial Fatigue. Clinics, vol. 2, October 1943, pp. 615-630.
6780. ———. Industrial Health Activities of the United States Bureau of Mines. Clinics, vol. 2, October 1943, pp. 762-770.
6781. ———. Methods for Judging First-Aid Contests. Nat. Safety News, vol. 3, No. 1, 1921, p. 13.
6782. ———. Mine Production of Silver in the United States, 1940. Mines Mag. (Colorado), vol. 31, 1941, p. 60.
6783. ———. Mine Safety Records Hard Hit by Bituminous Disasters: Anthracite Fatality Rate Decreased in 1940. Coal Age, vol. 46, February 1941, pp. 69-70.
6784. ———. Minnesota Iron-Ore Survey. Blast Fur. and St. Plant, vol. 34, October 1946, p. 1297.
6785. ———. Morbidity Studies as an Aid in Preventing Illness Among Miners. Coal Age, vol. 23, 1923, pp. 524-526.
6786. ———. National Fuel Conservation and Smoke Abatement. Solid Fuel Eng., vol. 5, No. 5, February 1946, pp. 6-8; Mechanization, vol. 9, No. 12, December 1945, pp. 133, 135.
6787. ———. Permissible Limits of Toxic and Noxious Gases in Mine and Tunnel Ventilation. Trans. AIME, vol. 74, 1926, pp. 352-362.
6788. ———. Physical Examination Would Reduce Accidents. Coal Age, vol. 36, November 1931, pp. 573-574.
6789. ———. Physiological Factors of Mine Ventilation. Coal Min., vol. 6, Dec. 1929, pp. 597-600, 603-607.
6790. ———. Physiological Factors in Mine Ventilation in 1931. Min. and Met., vol. 13, Jan. 1932, p. 12.
6791. ———. Pilot Plants for Producing Sponge Iron Planned by Bureau of Mines. Steel, vol. 111, July 13, 1942, p. 60; Science, vol. 96, July 17, 1942.
6792. ———. Pitch Black. Safety Eng., vol. 83, February 1942, pp. 17-18.
6793. ———. Prevention of Illness Among Miners. Min. and Met., vol. 186, 1922, pp. 31-33.
6794. ———. Progress in Combatting Silicosis: A Summary of the Recent Geneva Conference. Min. and Met., vol. 20, 1939, pp. 251-253.
6795. ———. Relation Between Fatigue and Industrial Accidents. Concrete, Cement Mill Sec., vol. 51, February 1943, pp. 129-130.
6796. ———. Relation of Illness to Safety in Mining. Trans. Nat. Safety Council, vol. 2, 1931, pp. 170-183.
6797. ———. The Relationship of the Bureau of Mines to the Coal-Mining Industry. Proc. Coal Min. Inst. America, 1940, pp. 103-114.
6798. ———. Report of Committee on Pneumoconiosis of the American Public Health Association. Am. Pub. Health Assoc., Yearbook, 1941-42, pp. 117-124.
6799. ———. Report of Committee on Pneumoconiosis. Am. Jour. Pub. Health, vol. 33, 1943, pp. 849-853.
6800. ———. Report of Committee on Status of Silicosis. Ind. Hyg. Sec., Am. Pub. Health Assoc., Chicago, Oct. 16, 1928.
6801. ———. Silicosis. Safety Eng., vol. 64, Dec. 1932, pp. 271-272.
6802. ———. Smoke Prevention and Fuel Conservation. Proc. Smoke Prevention Association, 1944, pp. 2-5; Heat., Pip., and Air Cond., vol. 16, 1944, p. 399.
6803. ———. Some Aspects of Health and Safety in the Gas Industry. Proc. Am. Gas Assoc., 1941, pp. 25-29.
6804. ———. Statement at Investigation of Mine Explosion at Centralia, Ill., Before Special Subcommittee of Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess. April 1947, pp. 414-427.
6805. ———. Statement before National Resources Economic Subcommittee, Committee on Public Lands, U.S. Senate, 80th Cong., 1st sess. May 15, 1947, pp. 17-60.
6806. ———. Status of Silicosis. Am. Jour. Pub. Health, June 1929, pp. 635-640.
6807. ———. Stopping Industrial Fatigue Before It Starts. Concrete, Cement Mill Sec., vol. 50, December 1942, pp. 286-287.
6808. ———. Strategic Metals From Low-Grade and Complex Domestic Ores. Chem. Ind., vol. 51, 1942, pp. 842-846.
6809. ———. Study of Fatigue. Chem. Eng. News, vol. 20, 1942, p. 457.
6810. ———. Summary of Results of Tunnel Investigations. Jour. Am. Soc. Heat. and Vent. Eng., vol. 32, April 1926, pp. 251-253.
6811. ———. Synthetic Liquid Fuels. Statements Before War Minerals Subcommittee, Committee on Public Lands and Surveys, U.S. Senate, 78th Cong., 1st sess. on S1243, Washington, D.C., Aug. 3, 1943, pp. 17-27; Pittsburgh, Pa., Aug. 6, 1943, pp. 180-184; Salt Lake City, Utah, Aug. 9, 1943, pp. 282-283; Sheridan, Wyo., Aug. 11, 1943, pp. 414-420.
6812. ———. Then and Now. Min. and Met. Soc. America, Bull. 259, January 1941, pp. 7-17.
6813. ———. Transportation of the Injured. Proc. Nat. Safety Council, 1921.
6814. ———. Work of the Health and Safety Branch of the U.S. Bureau of Mines. Report of Director of Personnel Research Federation, vol. 8, no. 4, December 1929, pp. 271-272.
6815. ———. Disc. of "Comfort With Summer Air Conditioning." Trans. ASHVE, vol. 48, 1942, pp. 110-120.
6816. ———. Disc. of "Physiological Influence of Atmospheric Humidity," a Report of the American Society of Heating and Ventilating Engineers Research Technical Advisory Committee on Physiological Reactions. Heat., Pip., and Air Cond., vol. 14, April 1942, p. 269.
6817. ———. Rev. of "The History of Miners' Diseases: A Medical and Social Interpretation," by George Rosen. Min. and Met., vol. 25, July 1944, pp. 344-345.
6818. ———. Rev. of "Manual of Industrial Hygiene and Medical Service in War Industries," by William M. Gaffner, ed. Min. and Met., vol. 24, August 1943, pp. 369-370.
6819. ———. Rev. of "Occupational Diseases," by Rutherford T. Johnston. Min. and Met., vol. 23, June 1942, pp. 339-340.
- . See items 1188, 1929, 1936, 2159, 2466, 2487, 2478, 2639, 3656, 4141, 5372, 8031, 8202, 8510, 6937, 6939, 6940, 8543, 8553, 8554.
6820. SAYERS, R. R., AND ADAMS, W. W. Statistical Studies of the Health and Safety Branch, Bureau of Mines. U.S. Daily, Jan. 2, 1931.
6821. SAYERS, R. R., AND DAVENPORT, S. J. Review of Literature on the Physiological Effects of Abnormal Temperatures and Humidities. Pub. Health Repts., Reprint 1150, 1927, 63 pp.
6822. ———. Carbon-Monoxide Literature. Pub. Health Service Bull. 150, 1925, 54 pp.
6823. ———. Review of Carbon Monoxide Poisoning. Pub. Health Service Bull. 195, 1930, 97 pp.

6824. SAYERS, R. R., AND HARRINGTON, D. Physiological Effects of High Temperatures and Humidities With and Without Air Movement. Pub. Health Repts., Reprint 854, 1923, 23 p.
6825. ———. Preliminary Study of Physiological Effects of High Temperatures and High Humidities in Metal Mines. Pub. Health Repts., 1921, 16 pp.
6826. SAYERS, R. R., AND LANZA, A. J. Report on the Committee on Pneumoconiosis of the American Public Health Assoc. Am. Pub. Health Assoc., Year Book, vol. 23, 1933, pp. 100-102.
6827. SAYERS, R. R., AND McCONNELL, W. J. A Psychrometric Chamber and Its Use. Nation's Health, vol. 5, no. 4, 1923, pp. 237-239.
6828. SAYERS, R. R., AND MERIWETHER, F. V. Military Lung Disease Due to Unknown Cause. Pub. Health Service Repts., Reprint No. 1431. No. 49, Dec. 5, 1930; Am. Jour. of Roentgenology and Radium Therapy, vol. 27, No. 3, March 1932, pp. 337-351; Archiv für Gewerbepathologie und Gewerbehygiene (Berlin), vol. 3, No. 3, 1932, pp. 354-361.
6829. ———. Silicosis. Jour. Oklahoma State Med. Assoc., vol. 24, Oct. 1931, pp. 301-324.
6830. SAYERS, R. R., AND O'BRIEN, H. R. Treatment of Carbon Monoxide Poisoning. Pub. Health Repts., Reprint 728, 1922, 5 pp.
6831. SAYERS, R. R., AND YANT, W. P. Elimination of Carbon Monoxide From Blood by Treatment With Air, With Oxygen and With a Mixture of Carbon Dioxide and Oxygen. Pub. Health Repts., Reprint 865, 1923, 24 pp.
6832. ———. Helium-Oxygen for Compressed Air Work. Eng. News, vol. 95, 1925, p. 586.
6833. ———. Physiological Response Attending Exposure to Vapors of Methyl Chlorides and Bromides. Opera Collecta Congressus V. Internationalis Medicorum Pro Artificibus Calumnitate Afflictis Aegrotisque, edited by the Praesidium Congressus, 1920, pp. 500-505.
6834. ———. The Value of Helium-Oxygen Atmosphere in Diving and Caisson Operations. Anes. and Analges., vol. 5, June 1926.
6835. SAYERS, R. R., CHOIRNYAK, JOHN, AND YANT, W. P. Neuropathology Attending Asphyxia From Carbon Monoxide and Atmospheres Deficient in Oxygen. Jour. AMA, vol. 102, 1934, p. 1800.
6836. SAYERS, R. R., DALLAVALLE, J. M., AND YANT, W. P. Industrial Hygiene and Sanitation Surveys in Chemical Establishments. Ind. Eng. Chem., vol. 26, no. 12, December 1934, pp. 1251-1255.
6837. SAYERS, R. R., HAYHURST, E. R., AND LANZA, A. J. Effect of Dust on the Lungs. Am. Jour. Pub. Health, vol. 20, 1930, pp. 308-378.
6838. ———. Status of Silicosis. Am. Jour. Pub. Health, vol. 19, 1929, pp. 635-640.
6839. SAYERS, R. R., MERIWETHER, F. V., AND YANT, W. P. Physiological Effects of Exposure to Low Concentrations of Carbon Monoxide. Pub. Health Repts., Reprint 748, 1922, 16 pp.
6840. ———. Ventilation of Vehicular Tunnels in Experimental Mine. Appendix J. Physiological Tests Under Controlled Conditions. Jour. Am. Soc. Heat. and Vent. Eng., vol. 32, 1926, pp. 825-832.
6841. SAYERS, R. R., MILLER, J. W., AND YANT, W. P. Response of the Peritoneal Tissue to Dusts Introduced as Foreign Bodies. Am. Jour. Pub. Health, vol. 25, no. 4, April 1935, pp. 452-456.
6842. SAYERS, R. R., SCHRENK, H. H., AND PATTY, F. A. Acute Response of Guinea Pigs to Vapors of Some New Commercial Organic Compounds. XII. Normal Butyl Acetate. U.S. Pub. Health Repts., vol. 51, Sept. 4, 1936, pp. 1220-1236.
6843. SAYERS, R. R., YANT, W. P., AND JONES, G. W. The Pyro-Tannic Acid Method for the Quantitative Determination of Carbon Monoxide in Blood and Air. Pub. Health Repts., Reprint 872, 1923, 12 p.
6844. SAYERS, R. R., YANT, W. P., AND LEITCH, R. D. A General Review of the Bureau of Mines Stream Pollution Investigation. Trans. AIME, Coal Div., 1931, pp. 137-150.
6845. SAYERS, R. R., YANT, W. P., AND MERIWETHER, F. V. Physiological Effects of Exposure to Low Concentration of Carbon Monoxide. Pub. Health Repts., vol. 37, 1922.
6846. SAYERS, R. R., FIELDNER, A. C., YANT, W. P., AND THOMAS, B. G. II. Experimental Studies on the Effect of Ethyl Gasoline and Its Combustion Products. Report of the Bureau of Mines to the General Motors Research Corporation and the Ethyl Gasoline Corporation, 1927, 447 pp.
6847. SAYERS, R. R., LEVY, E., YANT, W. P., AND FULTON, W. B. Effect of Repeated Daily Exposure of Several Hours to Small Amounts of Automobile Exhaust Gas. Pub. Health Service Bull. 186, 1929, 58 pp.
6848. SAYERS, R. R., O'BRIEN, H. R., JONES, G. W., AND YANT, W. P. Collection and Preservation of Blood Samples for Determination of Carbon Monoxide. Pub. Health Repts., Reprint 863, 1923, 8 pp.
6849. SAYERS, R. R., O'BRIEN, H. R., MERIWETHER, F. V., AND YANT, W. P. Ventilation of Vehicular Tunnels. Part IV. Details of Tests in Vehicular Tunnels in Experimental Mine. Appendix H. Physiological data. Jour. Am. Soc. Heat. and Vent. Eng., vol. 32, 1926, pp. 757-766.
6850. SAYERS, R. R., YANT, W. P., THOMAS, B. G. II., AND BERGER, L. B. Physiological Response Attending Exposure to Vapors of Methyl Bromide, Methyl Chloride, Ethyl Bromide and Ethyl Chloride. Pub. Health Service Bull. 185, 1929, 56 pp.
6851. SAYERS, R. R., YANT, W. P., WAITE, C. P., AND PATTY, F. A. Acute Response of Guinea Pigs to Vapors of Some New Commercial Organic Compounds: 1. Ethylene Dichloride. Pub. Health Repts., Reprint 1349, 1930, 16 pp.
6852. SAYERS, R. R., YANT, W. P., SCHRENK, H. H., CHOIRNYAK, JOHN, PEARCE, S. J., PATTY, F. A., AND LINN, J. G. Methanol Poisoning. II. Exposure of Dogs for Brief Periods Eight Times Daily to High Concentrations of Methanol Vapor in Air. Jour. Ind. Hygiene and Toxicol., vol. 20, October 1944, pp. 255-259.
6853. SAYERS, R. R., AND OTHERS. American Standard Allowable Concentration of Benzene. Am. Standards Assoc. Z 37, No. 4, 1941, 7 pp.
6854. ———. American Standard Allowable Concentration of Carbon Disulfide. Am. Standards Assoc. Z 37, No. 3, 1941, 7 pp.
6855. ———. American Standard Allowable Concentration of Carbon Monoxide. Am. Standards Assoc. Z 37, No. 1, 1941, 7 pp.
6856. ———. American Standard Allowable Concentration of Hydrogen Sulfide. Am. Standards Assoc. Z 37, No. 2, 1941, 7 pp.
6857. SAYRE, ALLYN T., JR., AND WERTMAN, WM. T. Effects of Water Flooding on Reservoir Temperatures and Wax Precipitation in the Bradford, Pa., Oil Field Secondary Recovery. Producers Monthly, vol. 16, No. 3, January 1952, pp. 10-24; No. 4, February 1952, pp. 11-21.
- 6857a. SAYRE, A. T., JR., AND YUSTER, S. T. A Study of the Effects of Connate Water Saturation on Water Flooding. Producers Monthly, 1949, pp. 19-23.