

AUTHOR INDEX

THE JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY VOLUME V, 1913

<p>ABRAHAM, H. Classification of Bituminous and Resinous Substances..... 11 Natural Rock Asphalts and Bitumens, by Danby (Book Review) 1032</p> <p>ADAMS, M. AND A. HOLMES. Pine Nut Oil..... 285</p> <p>AGETON, C. N. AND P. L. GILE. Lime-Magnesia Ratio in Soil Analyses..... 33, 564</p> <p>ALLEN, I. C. AND A. S. CROSSFIELD. U. S. Bureau of Mines Flash Point Testers..... 908</p> <p>ALSBERG, C. L. Biochemistry. Chairman's Address at 48th Meeting A. C. S., Rochester..... 1019</p> <p>ASTON, J. AND C. F. BURGESS. Influence of Various Elements on Corrosion of Iron..... 458</p> <p>AXTELL, F. C. Sakai Celluloid Co. Plant in Japan..... 38</p> <p>AYRES, W. S. Technical Problems of Coal Preparation..... 68</p> <p>BAEKELAND, L. H. Chemical Constitution of Resinous Phenolic Condensation Products. Address of Acceptance. Willard Gibbs Medal Award..... 506 Investigation of U. S. Patent Office..... 417 Protection of Intellectual Property..... 51 U. S. Patent Office Index to Chemical Literature (Ed.)..... 534</p> <p>BAILLEY, E. G. Coal, and the Prevention of Explosions and Fires in Mines, by Harger (Book Review)..... 707 Coal, its Composition, Analysis, Utilization and Valuation, by Somermeier (Book Review)..... 620</p> <p>BAILEY, E. H. S. AND G. O. PETERSON. Hickory Nuts and Their Oil 739</p> <p>BAILEY, L. H. Improved Gooch Crucible Holder..... 756</p> <p>BANCROFT, W. D. AND T. R. BRIGGS. Blue Gelatine Copper..... 9</p> <p>BARDWELL, C., B. A. BERRYMAN, T. B. BRIGHTON AND K. D. KUHR. Hydrocarbons of Utah..... 973</p> <p>BARKER, P. Heat Distribution in Operation of Steam Boilers..... 670 Sulfur in Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee..... 524</p> <p>BARNES, G. W. Use of Natural Gas in Steam Boilers..... 486</p> <p>BARTOW, E. Treating Turbid Waters with Calcium Hypochlorite.. 18</p> <p>BASKERVILLE, C. American Oil Shales..... 73 AND H. S. RIEDERER. Chlorine Substitution Products of Methane from Natural Gas..... 5 AND W. A. HAMOR. Chemistry of Anaesthetics, V: Ethyl Chloride..... 828</p> <p>BECKER, J. AND L. B. ROBERTSON. Production and Industrial Application of By-product Coke Oven Gases..... 491</p> <p>BELDEN, A. W. Beehive Coke Oven Industry of the U. S..... 71</p> <p>BENNER, R. C. AND J. J. O'CONNOR, JR. The Smoke Nuisance... 587</p> <p>BENSON, H. K. Laboratory Column Still..... 1018 AND M. DARRIN. Experimental Wood Distillation Plant..... 935</p> <p>BEROLZHEIMER, D. D. New Publications..... 87, 175, 263, 352, 439, 529, 622, 708, 788, 877, 962, 1033 Science of Hygiene, by Pakes (Book Review)..... 262</p> <p>BERRY, F. AND L. H. VAN BUSKIRK. Modified Bank of Ammonia Stills..... 941</p> <p>BERRYMAN, B. A., C. BARDWELL, T. B. BRIGHTON AND K. D. KUHR. Hydrocarbons of Utah..... 973</p> <p>BILLINGS, H. E. AND A. SMITH. Fertilization of Citrus Soils..... 415</p> <p>BIRCHBY, J. A. AND E. S. MERRIAM. Testing Natural Gas for Gasoline Production..... 824</p> <p>BIRD, M. Interesting Soil Water Question in British Guiana... 1012</p> <p>BISHOP, E. S. AND W. D. BONNER. Rate of Reaction of Nitrous Acid and Urea in Dilute Solutions..... 134</p> <p>BIZZELL, J. A. AND T. L. LYON. Influence of Preceding Crop on Nitrication in Soil..... 136 Lime Requirement of Soils..... 1011</p> <p>BJERREGAARD, A. P. Apparatus for Determining Melting Points of Substances of Indefinite Melting Point..... 938</p> <p>BLEININGER, A. V. Natural History of Clay, by Searle (Book Review)..... 707 Refractories and Furnaces, by F. T. Havard (Book Review)... 262 Transactions of the American Ceramic Society, Vol. XIV (Book Review)..... 260</p> <p>BOGERT, M. T. The Chemical Industries and the Universities.... 757</p> <p>BONNER, W. D. AND E. S. BISHOP. Rate of Reaction of Nitrous Acid and Urea in Dilute Solutions..... 134</p> <p>BOOTH, W. M. The Chemical Engineer and Industrial Efficiency... 237 Water Supply for the Manufacturer..... 604</p> <p>BORN, S. What's the Matter with the American Chemist? Note.. 785</p>	<p>BOSWORTH, A. W. AND O. FOLIN. Application of Folin's Method for the Determination of Ammonia to Fertilizers..... 485</p> <p>BOUGHTON, E. W. Effect of Pigments on Linseed Oil, and Manganese Content of Raw Linseed Oil..... 282</p> <p>BRACKETT, R. N. Decrease of Available Phosphoric Acid in Mixed Fertilizers Containing Acid Phosphate and Calcium Cyanamid 933</p> <p>BRADY, W. Methods of Iron and Steel Analyses Used in American Rolling Mill Co. Laboratories (Book Review)..... 620</p> <p>BRAGG, C. T. American Alcohol Insoluble Test for Shellac..... 435</p> <p>BRECKENRIDGE, J. E. Committee on Potash. Fertilizer Division, A. C. S., 47th Meeting, Milwaukee..... 431 Division of Fertilizer Chemistry, A. C. S., Milwaukee Meeting 431 Fertilizer Chemistry. Division Report, 48th Meeting A. C. S., Rochester..... 956</p> <p>BRIGGS, C. H. Pure Food and Drug Law Alcohol Requirement and Assay..... 29</p> <p>BRIGGS, T. R. AND W. D. BANCROFT. Blue Gelatine Copper..... 9</p> <p>BRIGHTON, T. B., B. A. BERRYMAN, C. BARDWELL AND K. D. KUHR. Hydrocarbons of Utah..... 973</p> <p>BROCK, F. P., L. V. REDMAN AND A. J. WEITH. Bromination of Phenol for Quantitative Determinations..... 389 Drying Rates of Raw Paint Oils..... 630 Rapid Volumetric Method for Cresols, Thymol and Phenol... 831</p> <p>BROKAW, A. D. Precipitation of Gold by Manganous Salts..... 560</p> <p>BROOKS, A. W. AND C. A. PETERS. Microorganisms in Commercial Lime-Sulfur..... 1013</p> <p>BRYAN, A. H. Use of Light Filter Cell in Polarizing High Grade Sugars..... 167</p> <p>BRYSON, L. T. Electric Heater for Laboratory Distillations..... 49</p> <p>BUCK, D. M. Copper in Steel—Influence on Corrosion..... 447</p> <p>BUCKMINSTER, P. D. AND S. H. KATZ. Calcium Thioarsenate Spray 663</p> <p>BUNDY, L. A. AND H. V. TARTAR. Soluble Arsenic in Lead Arsenate and Soap Mixtures..... 561</p> <p>BURGESS, C. F. AND J. ASTON. Influence of Various Elements on Corrosion of Iron..... 458</p> <p>BURRELL, G. A. Methods of Gas Analysis (German) by Hempel (Book Review)..... 787 Notes on Mine Gas Problems..... 181 AND F. M. SEIBERT. Condensation of Gasoline from Natural Gas..... 895</p> <p>BUSWELL, A. M. Ozone (Ed.)..... 882</p> <p>CAIN, J. R. AND F. H. TUCKER. Phosphorus in Steels Containing Vanadium..... 647</p> <p>CALLBREATH, J. F. Needs of the Mining Industry..... 236</p> <p>CAMERON, F. K. Calcium Cyanamid, by Pranke (Book Review)... 961</p> <p>CAMP, J. M. Note on New Form of Orsat Apparatus..... 84</p> <p>CAMPBELL, E. D. Constitution of Portland Cement Clinker..... 627 Convenient Device for Analytical Ignitions..... 675</p> <p>CAMPBELL, W. Iron and Steel by Hudson and Bengough (Book Review)..... 874</p> <p>CARPENTER, F. B. Fertilizer Legislation Committee Report. Fertilizer Division, 48th Meeting A. C. S., Rochester..... 957 Phosphate Rock Committee Report. Fertilizer Division, 48th Meeting A. C. S., Rochester..... 957 Soil Conditions and Plant Growth, by E. J. Russell (Book Review)..... 86 Soil Fertility and Fertilizers, by J. E. Halligan (Book Review)... 174 Standard Sample of Phosphate Rock. Fertilizer Division, A. C. S..... 344</p> <p>CATHCART, W. R. AND F. J. FALDING. High Form of Sulfuric Acid Chamber..... 223</p> <p>CHAMBERLAIN, G. D. Developments of Iron and Steel Industry (Ed.)..... 357</p> <p>CHANDLER, C. F. Presentation Address. Perkin Medal Award... 241</p> <p>CHURCH, S. R. Testing Tars, Oils and Pitches..... 195</p> <p>CLEMENT, J. K. AND L. V. WALKER. Electrolytic Prevention of Iron and Steel Corrosion..... 361</p> <p>COMEY, A. M. Explosives, by Brünswig, Munroe-Kebler (Translation) (Book Review)..... 1032</p> <p>CONNER, A. B. Sulfur in Pyrites Cinders..... 399</p> <p>COOK, F. C. Analyses of Bouillon Cubes..... 989</p> <p>COWLES, A. H. Alumina and Aluminum from Mineral Silicates... 331</p> <p>CRAWFORD, S. L. Detection of Adulteration of Cider Vinegar with Distilled..... 845</p>
--	--

CROSSFIELD, A. S. AND I. C. ALLEN. U. S. Bureau of Mines Flash Point Testers.....	908	GEPHART, F. C. Burette for Use in Nitrogen Work, Etc.....	490
CROWN, H. A. AND C. E. G. PORST. Polarimetric Method for Starch in Paper.....	304	GILE, P. L. AND C. N. AGETON. Lime-Magnesia Ratio in Soil Analyses.....	33, 564
CURTIS, C. C. U. S. Forestry Service Investigations (Ed.).....	626	GILLET, H. W. The Chemist and Scientific Management.....	593
CUSHMAN, A. S. Electric Furnace in Iron and Steel Oxygen Determinations. A Criticism.....	349	GOODNOW, E. H. AND L. M. TOLMAN. Cider Vinegars Made by Generator Process.....	928
AND E. B. WETTENGEL. Electrolytic Method for Tin in Canned Foods.....	217	GORTNER, R. A. AND A. J. HARRIS. Relation between Weight of Sugar Beet and Composition of its Juice.....	192
DARRIN, M. AND H. K. BENSON. Experimental Wood Distillation Plant.....	935	GRIFFIN, M. L. Government's Interests in the Pulp and Paper Industry.....	500
DAVIDSON, D. Metallic Pigments.....	83	Note on Rosin in Paper.....	960
DAVOLL, D. L., JR. Technical and Chemical Control in Sugar Manufacture.....	231, 313	GROSH, D. M. "What's the Matter with the American Chemist?".....	692
DEAN, A. L. AND C. R. DOWNS. Antiseptic Tests of Wood Preserving Oils.....	126	GROSVENOR, W. M. Relation of Manufacturer to Our Patent System.....	685
DEGUÉRE, J. A. Disinfection and Disinfectants, by Christian (Book Review).....	876	Some Peculiar Functions of the Retained Expert.....	772
DEMOREST, D. J. Analysis of Alloys of Lead, Tin, Antimony and Copper.....	842	GUDEMAN, E. Analyses of Confectioners' Glucose.....	665
Chromium and Vanadium in Steel. A Correction.....	84	HABER, F. AND R. LE ROSSIGNOL. Synthetic Ammonia.....	328
Determination of Zinc in Ores.....	302	HALE, F. E. AND T. W. MELIA. Winkler's Method for Oxygen in Water; Effect of Nitrite and its Prevention.....	976
Electrolytic Method for Copper in Ores Containing Arsenic, Antimony or Bismuth.....	216	HALVERSON, J. O. Comparison of Modified Babcock and Roese-Gottlieb Methods for Fat in Ice Cream.....	480
Sulfocyanate Permanganate Method for Copper in Ores.....	215	Modified Babcock for Fat in Ice Cream.....	403
DEWEY, F. P. Gay-Lussac Method of Silver Determination.....	209	Sampling Ice Cream.....	409
DICKINSON, H. C. Calorific Power of Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee.....	525	HAMOR, W. A. Chemical Industries of Belgium, Netherlands, Norway and Sweden, by Norton (Book Review).....	528
DOLE, R. B. Composition of Salines, Silver Peak Marsh, Nev.....	196	Control of Public Utilities (Ed.).....	967
DOWNS, C. R. AND A. L. DEAN. Antiseptic Tests of Wood Preserving Oils.....	126	Current Industrial News.....	74, 161, 251, 337, 423, 511, 605, 695, 774, 861, 950, 1024
DUBOIS, N. A. Protection of Steel and Iron by Paint Films.....	968	New and Non-Official Remedies, 1911, by American Med. Assoc. Press (Book Review).....	707
DURAND, H. Determination of Saccharin in Foods.....	987	Obituary—F. H. Daniels.....	871
DUTCHER, R. A. Determination of Lime in Cow Feces.....	37	Obituary—Jules Ogier.....	1030
Correction.....	260	Present Status of Window Glass Industry.....	80
EARLE, R. B. AND A. H. FISKE. Destructive Distillation of Sewage Sludge.....	186	Utilization of Atmospheric Nitrogen, by T. H. Norton (Book Review).....	437
ELLIOT, A. H. American Gas Institute Proceedings, 6th Annual Meeting, St. Louis (Book Review).....	437	AND C. BASKERVILLE. Chemistry of Anaesthetics, V: Ethyl Chloride.....	828
ELLIS, C. Chemistry of the Oil Industries, by Southcombe (Book Review).....	1031	HANDY, J. O. Copper Covered Steel.....	884
Hydrogenation of Oils.....	95	HARDER, O. E. Note on Standard Vanillin Solution for Folin Colorimetric Determination of Vanillin.....	619
ELMS, J. W. AND S. J. HAUSER. Ortho-Tolidine as Reagent for Colorimetric Estimation of Small Quantities of Free Chlorine..	915	HARDING, E. P. AND E. JOHNSON. Hydrogen Sulfide in Illuminating Gas.....	836
Correction.....	1030	AND G. PARKIN. Milk-Fat in Evaporated Milk and Milk Powders.....	131
ERICSON, E. J. Technical Method of Spelter Analysis.....	401	Fat in Ice Creams, Cereals and Chocolate.....	843
FALDING, F. J. AND W. R. CATHCART. High Form of Sulfuric Acid Chamber.....	223	HARE, C. L. Effects of Feeds on Lards, II.....	410
FARAGHER, W. F. A Standard Viscosimeter and Standard Methods for Determining Viscosities—Why Not? A Note.....	167	HARRIS, J. A. AND R. A. GORTNER. Relation between Weight of Sugar Beet and Composition of Its Juice.....	192
FARNHAM, G. Phosphoric Acid Committee Report. Fertilizer Division, 48th Meeting A. C. S., Rochester.....	956	HART, E. Dr. Gayley's Interest in Education. Address. Perkin Medal Award.....	247
FIELDNER, A. C. Accuracy and Limitations of Coal Analysis.....	270	HARTZELL, J. C. What's the Matter with the American Chemist? Note.....	871
Preparation of Laboratory Samples of Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee.....	518	HAUSER, S. J. AND J. W. ELLMS. Ortho-Tolidine as Reagent for Colorimetric Estimation of Small Amounts of Free Chlorine..	915
FINK, C. G. Applications of Ductile Tungsten.....	8	Correction.....	1030
FINKBNER, N. M. AND W. VAN WINKLE. Water of Crater Lake, Ore.....	198	HAWLEY, L. F. Efficiency Studies in Hardwood Distillation.....	445
FISKE, A. H. AND R. B. EARLE. Destructive Distillation of Sewage Sludge.....	186	HAYNES, E. Alloys of Cobalt with Chromium, Etc.....	189
FOLIN, O. AND A. W. BOSWORTH. Application of Folin's Method for the Determination of Ammonia to Fertilizers.....	485	HEALY, L. J. D. Electric Desiccator for Analysis of India Rubber and Other Organic Compounds.....	489
FORBES, E. B. AND J. E. MENSCHING. Improved Crude Fiber Estimation.....	258	HÉROULT, P. L. V. Recent Developments in Electric Steel Furnace..	47
FOX, C. P. Adapted Wiley Extractor for Rubber.....	417	HERTY, C. H. Naval Stores Industry.....	65
Improved Laboratory Burner.....	1019	HESSE, B. C. Coöperation among Chemists and Manufacturers... Patent Expert and Chemical Manufacturer.....	854
Syrian Autoburning Limestone.....	1029	Problem of International Congresses of Applied Chemistry.....	321
Wild Lettuce Rubber.....	477	Secretary's Report of 8th International Congress of Applied Chemistry.....	344
FOX, P. J. Titration of Calcium and Magnesium in Same Solution..	910	Suggestions as to Programs of Sectional Meetings of the A. C. S..	1020
FRANKLIN, F. H. Fusion Method for Sulfur in Iron and Steel.....	839	HIBBARD, P. L. Study of Pemberton-Kilgore Determination of Phosphoric Acid.....	998
FRAPS, G. S. Effect of Ignition on Solubility of Soil Phosphates....	416	HICKS, W. B. Rapid Modified Chloroplatinate Method for Potassium	650
FRARY, F. C. AND M. G. MASTIN. Zinc in Treated Ties.....	738	HILLEBRAND, W. F. Moisture in Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee.....	521
FRY, W. H. Analysis of Soils, Mineralogical.....	30	HINMAN, J. J., JR. Total Formaldehyde in Fumigators and Commercial Solutions.....	752
Condition of Soil Phosphoric Acid Insoluble in Hydrochloric Acid.....	664	HOFFMAN, C. AND W. E. TOTTINGHAM. Action of Fermenting Manure on Reënforcing Phosphates.....	199
AND J. G. SMITH. Composition of Sediments from Potomac and Shenandoah Rivers.....	1009	HOLMES, A. AND M. ADAMS. Pine Nut Oil.....	285
GAINES, R. H. Corrosion of Lead.....	766	HORNE, W. D. Handbook of Sugar Analysis, by Browne (Book Review).....	172
GAITHER, E. W. Comparison of Some Qualitative and Quantitative Methods for Carbonates in Soils.....	138	World's Cane Sugar Industry, by Geerligs (Book Review).....	85
GARRATT, F. Colorimetric Method for Chromium in Steel.....	298	HOTTEL, H. C. Sterilization of Water Supply at Trenton.....	319
GAYLEY, J. Address of Acceptance. Perkin Medal Award.....	241	HOWE, H. E. Some Projection Experiments with Spectra.....	578
		HOWE, H. M. The Value of Expert Opinions. Address. Perkin Medal Award.....	246

HUBBARD, P. AND C. S. REEVE. Effect of Exposure on Bitumens... Correction.....	15 260	MASON, G. F. Agricultural and Food Chemistry Division Report. 48th Meeting A. C. S., Rochester.....	956
HULBERT, E. C. Improved Apparatus for Testing Jelly-Strength of Glues.....	235	MASTIN, M. G. AND F. C. FRARY. Zinc in Treated Ties.....	738
JACKMAN, W. F. Obituary—Alfred Bellamy Aubert.....	171	MATHEWSON, W. E. Separation of Mixtures of Acid Coal Tar Dyes	26
JACKSON, D. D. Water, its Purification and Use in the Industries, by Christie (Book Review).....	351	MATOS, L. J. General Efficiency in Dyehouses and Bleach Works..	693
JAMES, J. H. Acetylene Solvents.....	115	MATTHEWS, J. M. The Hydrosulfite (German), by Jellinek (Book Review).....	174
Textbook of Chemical Technology and Metallurgy, edited by Newmann (Book Review).....	173	What's the Matter with the American Chemist? (Ed.).....	626
JAMESON, GEO. S. Phosphates in Surface Waters.....	301	MAY, C. E. AND E. W. LONG. Properties of Watered Milk.....	573
JESSE, R. H., JR. Gases Formed in Anaerobic Sewage Decomposi- tion.....	636	MCBRIDE, R. S. AND E. R. WEAVER. Sulfur in Illuminating Gas... Sulfate in Ammonium Sulfate Solution. Testing Illuminating Gas.....	474 469
JOHNSON, C. M. Oxygen in Tungsten Powder and Steel.....	295	Correction.....	619
Phosphorus in Ferro-tungsten, Tungsten Powder and Oxide and Tungstic Acid by Direct Solution.....	297	MCCABE, C. R. Titanium in Iron and Steel.....	735
Tapered Clay Inlet and Outlet to Eliminate Rubber Stoppers from Vitrified Clay Combustion Tube.....	581	Note.....	872
Vitrified Clay Combustion Tube with Tapered Outlet for the Determination of Carbon in Steels, Ferro Alloys and Graphite..	488	Vanadium in Steel by the Hydrogen Peroxide Color Method....	736
JOHNSON, E. AND E. P. HARDING. Hydrogen Sulfide in Illuminating Gas.....	836	MCCAUGHEY, W. J. Mineralogical Soil Analysis.....	562
JOYCE, C. M. AND H. LA TOURETTE. Nitrogen Determined by the Nitrometer.....	1017	MCCHARLES, C. H. An Automatic Pipette.....	755
KAHLENBERG, L. Obituary—W. W. Daniells.....	80	MCILHINNEY, P. C. Analysis of Paint and Varnish Products, by Holley. (Book Review).....	174
KATZ, S. H. AND P. D. BUCKMINSTER. Calcium Thioarsenate Spray	663	McMILLEN, R. H. Electric Resistance Furnace for Oxygen in Iron and Steel.....	123
KEBLER, L. F. Tincture of Iodine.....	484	McMURTRIE, D. C. Bibliography of Scientific Writings by William McMurtrie.....	617
KITA, G. Some Properties of Koji-Diastase.....	220	McMURTRIE, W. Disposal of Sewage with Recovery of Elements of Plant Food for Use in Agriculture.....	156
KRESS, O. Chloride of Lime in Sanitation, by Hooker (Book Re- view).....	350	MEADE, R. K. Action of Various Substances on Concrete..... Depreciation and Obsolescence. Address.....	723 762
Materials Used in Sizing, by Ermen (Book Review).....	787	Manual of Cement Testing, by Richards and North (Book Re- view).....	707
KUHRE, K. D., C. BARDWELL, B. A. BERRYMAN AND T. B. BRIGHTON. Hydrocarbons of Utah.....	973	MEADER, J. W. AND F. A. MILLER. Assay of Individual Plants of Various Species of <i>Datura</i> , Etc.....	1014
KUNBERGER, A. F. Efficiency of Oxides for Gas Purification.....	580	MELIA, T. W. AND F. E. HALE. Winkler's Method for Oxygen in Water; Effect of Nitrite and its Prevention.....	976
KUNZ, G. F. Prof. Paul Walden. Biographical Sketch with Bibli- ography.....	611	MENSCHING, J. E. AND E. B. FORBES. Improved Crude Fiber Esti- mation.....	258
LANGMUIR, A. C. Note on Analysis of Crude Glycerine.....	871	MERRIAM, E. S. AND J. A. BIRCHBY. Testing Natural Gas for Gas- oline Production.....	824
LA TOURETTE, H. AND C. M. JOYCE. Nitrogen Determined by the Nitrometer.....	1017	MERZ, A. R. AND J. R. LINDEMUTH. Leaching Potash from Freshly Cut Kelp.....	729
LATSHAW, W. L. AND P. RUDNICK. Neutral Ammonium Citrate....	998	METZGER, F. J. AND L. E. MARRS. Volumetric Determination of Manganese in Rock, Slags, Ores and Spiegels.....	125
LAW, L. M. Empirical Requirements in Asphalt Specifications. Address.....	1021	MILFORD, L. R. Recent Analyses of Saratoga Mineral Waters, II, III.....	24 557
LE ROSSIGNOL, R. AND F. HABER. Synthetic Ammonia.....	328	MILLAR, C. E. Parr Total Carbon Apparatus Modified.....	234
LEVIN, I. H. Synthesis of Precious Stones.....	495	MILLER, F. A. AND J. W. MEADER. Assay of Individual Plants of Various Species of <i>Datura</i> , Etc.....	1014
LEWIS, R. H. AND C. S. REEVE. Dimethyl Sulfate Test for Small Amounts of Petroleum or Asphalt Products in Tars.....	293	MITCHELL, L. C. AND L. M. TOLMAN. Composition of Different Varieties of Red Peppers.....	747
LICHTENBERG, H. F. Rapid Method for Fat in Ice Cream.....	786	MUCKENFUSS, A. M. Practical Accelerated Test for Paints and Varnishes.....	535
LIEBER, H. Gas and Oil Combustion Co. Formed. Note.....	84	MUNROE, C. E. Centenary of Gas Industry. A. C. S. Committee Report.....	81
LINDEMUTH, J. R. AND A. R. MERZ. Leaching Potash from Freshly Cut Kelp.....	729	MURPHY, R. K. Chemical Works, their Design, Erection and Equip- ment, by Dyson and Clarkson (Book Review).....	786
AND E. G. PARKER. Analyses of Fish Scrap.....	388	Henley's 20th Century Book of Recipes, Formulas and Processes (Book Review).....	86
Analyses of Pacific Coast Kelps.....	287	AND M. C. WHITAKER. Chemical Engineering and the New Laboratories at Columbia University.....	304
LIPMAN, C. B. AND H. F. PRESSEY. Nitrogen in Humus Determina- tions.....	143	MURRAY, B. L. Determination of Small Amounts of Caffeine.....	668
LITTLE, A. D. Industrial Research in America. Presidential Ad- dress, 48th Meeting A. C. S., Rochester.....	793	NELSON, J. M. Allen's Commercial Organic Analysis, VII (Book Review).....	1032
LOEW, O. Influence of Lime-Magnesia Ratio upon Plant Growth. Note.....	257 959	NOWAK, C. A. Influence of Ozone on Yeast and Bacteria.....	668
LOHR, J. M. Metallic Alloys, by Gulliver (Book Review).....	874	Training of the Fermentologist.....	502
LONG, E. W. AND C. E. MAY. Properties of Watered Milk.....	573	NOYES, W. A. Preliminary Report for the Committee on Coal Analysis of the Am. Soc. for Testing Materials and the A. C. S.	517
LUCAS, H. J. Determination of Nitrobenzol in Peanut Oil.....	576	O'CONNOR, J. J., JR. AND R. C. BENNER. Smoke Nuisance.....	587
LUCKE, C. E. Comparative Fuel Values of Gasoline and Denatured Alcohol in Internal Combustion Engines, by Strong and Stone (Book Review).....	173	O'LOUGHLIN, C. C. Mineral Aggregate in Bitumen Pavements....	320
Design of Surface Combustion Appliances.....	801	OLSON, G. A. Quantitative Estimation of Gliadin in Flour and Gluten.....	917
Correction.....	960	PARKER, C. L. Recent Inventions.....88, 176, 264, 353, 440, 531, 623, 709, 789, 878, 963, 1034	
LYON, T. L. AND J. A. BIZZELL. Influence of Preceding Crop on Nitrification in Soil.....	136	PARKER, E. G. AND J. R. LINDEMUTH. Analyses of Fish Scrap.....	388
Lime Requirement of Soils.....	1011	Analyses of Pacific Coast Kelps.....	287
LYTHGOE, H. C. Massachusetts Milk Supply—Inspection by State Board of Health.....	922	PARKER, T. J. Dr. Friedrich W. C. Schniewind. Obituary.....	432
MABERY, C. F. Lubrication with Oils and with Colloidal Graphite	717	Treatise on General and Industrial Inorganic Chemistry, by Molinari (third edition) (Book Review).....	438
MACNIDER, G. M. Modified Extraction Apparatus.....	150	PARKIN, G. AND E. P. HARDING. Milk-Fat in Evaporated Milk and Milk Powders.....	131
MAHR, H. W. Melting Point of Greases by Means of N. Y. Testing Laboratory Viscosimeter.....	674	Fat in Ice Creams, Cereals and Chocolate.....	843
MANNHARDT, H. Oxygen Absorption Test for Linseed Oil.....	129		
MARRS, L. E. American Fertilizer Handbook, 1913 (Book Review)	961		
General Index to Chemical News, Vols. 1 to 100 (Book Review)..	961		
AND F. J. METZGER. Volumetric Determination of Manganese in Rock, Slags, Ores and Spiegels.....	125		
MARTI, W. C. AND A. J. PATTEN. Neutral Ammonium Citrate Solu- tion.....	567		

PARR, S. W. Ash in Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee.....	523	SEIBERT, F. M. AND G. A. BURRELL. Condensation of Gasoline from Natural Gas.....	895
Volatile Matter in Coal. Preliminary Report by Am. Soc. T. M. and A. C. S. Committee.....	522	SEIDENBERG, A. Detection of Gelatin in Sour Cream.....	927
PARSONS, C. L. American Chemical Society—Rochester Meeting Announcement.....	701	SELM, L. Report of Another Platinum Robbery.....	528
Our Radium Resources. Address.....	943	SHARPLES, P. P. Distillation of Tar.....	466
Uranium and Radium Situation (Ed.).....	356	SHERMAN, H. C. Fatty Foods, Their Practical Examination, by Bolton and Revis (Book Review).....	787
PATTEN, A. J. AND W. C. MARTI. Neutral Ammonium Citrate Solution.....	567	Industrial and Manufacturing Chemistry, by Martin (Book Review).....	1030
PATTERSON, A. M. On Criticism of Chemical Abstracts.....	783	SHERWOOD, N. P. AND C. C. YOUNG. Deterioration of Soda Water Due to Microorganisms.....	577
PEGRAM, G. B. Liquid Air—Oxygen—Nitrogen, by Claude (Book Review).....	876	SHINOSAKI, Y. On Japanese Peppermint Oil.....	658
Correction.....	1033	Peppermint Oil Industry in Japan.....	656
PENCE, C. M. Potassium Permanganate in the Quantitative Estimation of Some Organic Compounds.....	218	SIDENER, C. F. AND P. M. SKARTVEDT. Method for Phosphorus in Vanadium Steel and Ferrovandium.....	838
PERKIN, W. H. Permanent Fireproofing of Cotton Goods.....	57	SKARTVEDT, P. M. AND C. F. SIDENER. Method for Phosphorus in Vanadium Steel and Ferrovandium.....	838
PERKINS, A. E. New Form of Laboratory Extraction Apparatus.....	148	SMALLEY, F. N. Total Fatty Acids in Cottonseed Fats.....	402
PERRY, R. P. Tar Distillation in the U. S.....	151	SMITH, A. Service Chemistry, by Lewis and Brame (Book Review).....	875
PETERS, C. A. AND A. W. BROOKS. Microorganisms in Commercial Lime-Sulfur.....	1013	SMITH, A. AND H. E. BILLINGS. Fertilization of Citrus Soils.....	415
PETERSON, G. O. AND E. H. S. BAILEY. Hickory Nuts and Their Oil.....	739	SMITH, H. E. Gas Bubble and Washing Tube for Combustion Apparatus.....	150
PILKINGTON, B. AND H. V. TARTAR. Comparative Study of Composition of Hops Grown in Different Parts of the World.....	478	SMITH, H. G. Precipitation of Barium Sulfate.....	416
POETSCHKE, P. Determination of Sodium Borate in Soap.....	645	SMITH, J. G. Sponges as a Fertilizer.....	850
Sulfur Dioxide in Gelatin.....	980	AND W. H. FRY. Composition of Sediments from Potomac and Shenandoah Rivers.....	1009
PORST, C. E. G. AND H. A. CROWN. Polarimetric Method for Starch in Paper.....	304	SMITH, N. Valve for Desiccator.....	235
PORTER, H. C. AND G. B. TAYLOR. Specific Heat of Coal and its Relation to Combined Water.....	289	SMITH, O. C. Modification of Official Determination of Humus.....	35
PRANKE, E. J. Manufacture and Uses of Cyanamid.....	159	SNELL, J. F. The Analysis of Maple Products, I. An Electrical Conductivity Test for Purity of Maple Syrup.....	740
PRESSEY, H. F. AND C. B. LIPMAN. Nitrogen in Humus Determinations.....	143	AND J. M. SCOTT. Analysis of Maple Products, II. Comparative Study of Delicacy of Methods.....	993
R ATHER, J. B. Humus in Hawaiian Soils by the Ammonium Carbonate Method.....	222	SOPER, G. A. Utilization of Sewage. Address.....	860
RAY, E. A. On Methods of Analysis of Crude Glycerin.....	784	SQUIBB, E. R. AND SONS. Combination Apparatus Stand.....	490
RAYMOND, R. W. The New Age. Address. Perkin Medal Award.....	249	STEWART, J. Plasticity of Clay.....	421
REDMAN, L. V., A. J. WEITH AND F. P. BROCK. Bromination of Phenol for Quantitative Determinations.....	389	STIEGLITZ, J. Chairman's Address. Willard Gibbs Medal Award.....	504
Drying Rates of Raw Paint Oils.....	630	STONE, G. C. Preparation and Uses of White Zinc Paints, by Fleury (Book Review).....	261
Rapid Volumetric Method for Cresols, Thymol and Phenol.....	831	STRONG, W. W. Theory of Removal of Suspended Matter from Gases.....	858
REEVE, C. S. AND P. HUBBARD. Effect of Exposure on Bitumens.....	15	STUART, A. T. Corrosion of Metals by Water.....	905
AND R. H. LEWIS. Dimethyl Sulfate Test for Small Amounts of Petroleum or Asphalt Products in Tars.....	293	SURFACE, H. E. List of U. S. Public Documents on Pulp and Paper.....	614
REMINGTON, J. P. 9th Revision U. S. Pharmacopoeia.....	429	T ARTAR, H. V. AND B. PILKINGTON. Composition of Hops Grown in Different Parts of the World.....	478
RÉVERDIN, F. Analysis of Organic Dyestuffs. Sub-Commission. Note.....	259	AND L. A. BUNDY. Soluble Arsenic in Lead Arsenate and Soap Mixtures.....	561
RICHARDS, J. W. Serpek Process for Aluminum Nitride.....	335	TASSIN, W. Microstructure of Steel Castings.....	713
RICHARDSON, C. Native Bitumens and their Residuals.....	462	TAYLOR, F. O. Interpretation of U. S. P. Assay Processes.....	601
RICHARDSON, W. D. Presentation Address. Willard Gibbs Medal Award.....	505	TAYLOR, G. B. AND H. C. PORTER. Specific Heat of Coal and Its Relation to Combined Water.....	289
RIEDERER, H. S. AND C. BASKERVILLE. Chlorine Substitution Products of Methane from Natural Gas.....	5	TEEPLE, J. E. Utilizing Wood Waste. Address.....	680
RIGG, G. Deterioration of Firebricks during Service.....	549	THACHER, S. P. Arkosite.....	83
ROBERTSON, L. B. AND J. BECKER. By-Products Coke Oven Gases.....	491	THOMAS, A. W. Food Inspection and Analysis, by Leach (Book Review).....	621
ROBISON, F. W. Food Standards and their Effect upon Food Law Enforcement.....	949	THOMAS, J. B. AND E. A. SANDMAN. Hypochlorite Disinfection of Baltimore City Water Supply.....	476
RONALD, J. T. Expert Testimony. Address.....	582	THOMPSON, A. R. Kukui (Candlenut) Oil.....	644
ROSS, W. H. Decomposition of Feldspar and its Use in the Fixation of Atmospheric Nitrogen.....	725	THOMPSON, G. W. Chemical Analysis of Lead and Its Compounds, by Schaeffer (Book Review).....	351
RUDER, W. E. Intergranular Cement in Metals.....	452	Opacity and Hiding Power of Pigments. Tests.....	120
RUDNICK, P. Fertilizer Chemistry—A Report of Progress. Chairman's Address. 48th Meeting A. C. S., Rochester.....	948	THWING, C. B. Device for Controlling Small Electric Furnaces.....	149
AND W. L. LATSHAW. Neutral Ammonium Citrate.....	998	TOCH, M. Lead Poisoning. A Note.....	434
RUTH, W. E. The Lime Sulfur-Lead Arsenate Spray Mixture.....	847	Paint as an Engineering Material.....	366
S ADTLER, S. P. Petroleum Analytical Methods.....	393	Paints for Indicating the Uses of Pipes.....	784
SALISBURY, S. H., JR. Division of Industrial Chemists and Chemical Engineers, A. C. S., 47th Meeting, Milwaukee.....	430	TOLMAN, L. M. AND E. H. GOODNOW. Study of Cider Vinegars Made by Generator Process.....	928
Industrial Chemists and Chemical Engineers' Division Report. 48th Meeting A. C. S., Rochester.....	956	AND L. C. MITCHELL. Composition of Different Varieties of Red Peppers.....	747
New Descriptive Directory of Division of Industrial Chemists and Chemical Engineers of A. C. S. Note.....	616	TOTTINGHAM, W. E. AND C. HOFFMAN. Action of Fermenting Manure on Reinforcing Phosphates.....	199
SAMMET, C. F. Quantitative Determination of Rosin in Paper.....	732	TRESCOT, T. C. Comparison of Kjeldahl-Gunning-Arnold with Official Kjeldahl and Official Gunning Methods for Nitrogen.....	914
SANDMAN, E. A. AND J. B. THOMAS. Hypochlorite Disinfection of Baltimore City Water Supply.....	476	TROY, H. C. Note on Calculating Fat-Free Residue of Milk.....	872
SCHAEFFER, J. A. Chemical Laboratory of the Picher Lead Co.....	850	Note on Fat in Ice Cream.....	960
Manufacture and Properties of Sublimed White Lead.....	144	TUCKER, F. H. AND J. R. CAIN. Phosphorus in Vanadium Steels.....	647
SCHORGER, A. W. Oleoresins of Jeffrey and Singleleaf Pines.....	971	TUCKER, S. A. Electro-Plating and Analysis of Solutions, by Reama (Book Review).....	961
SCHULTE, W. B. Influence of Cinders on Corrosion of Iron Imbedded in Clay.....	554	Electro-Plating, by Barclay and Hainsworth (Book Review).....	620
SCHWARZ, R. Use of Immersion Refractometer in Examining American Beers.....	660	Principles of Applied Electrochemistry, by Allmand (Book Review).....	529
SCOTT, J. M. AND J. F. SNELL. Analysis of Maple Products, II. Comparative Study of Delicacy of Methods.....	993	Production of Alumina and Fixation of Nitrogen.....	191
		TURRENTINE, J. W. Brines from the Ocean and Salt Lakes.....	19
		The Menhaden Industry.....	378
		TUTTLE, J. B. Sampling of Rubber Goods.....	618

TWINING, R. H. Accurate and Practical Viscosimeter.....	349	WEISS, H. F. Tests of Commercial Value of Wood Preservatives....	372
AND G. F. WHITE. Fluidity of Butter Fat and Its Substitutes...	568	WEISS, J. M. Coal Tar Light Oil in the U. S.....	61
U TT, C. A. A. Analysis of Unsweetened Evaporated Milk.....	168	WEITH, A. J., L. V. REDMAN AND F. P. BROCK. Bromination of Phenol for Quantitative Determinations.....	389
V AIL, J. G. Note on Producer Gas Analysis.....	756	Drying Rates of Raw Paint Oils.....	630
VAN BUSKIRK, L. H. AND F. BERRY. Modified Bank of Ammonia Stills.....	941	Rapid Volumetric Method for Cresols, Thymol and Phenol.....	831
VAN HISE, C. R. Relation of Big Business to Industrial Prosperity with Special Reference to Mining. Address.....	946	WELD, F. C. Determination of "Volatile" in Coal.....	169
VAN WINKLE, W. Water Analysis—Breitenbush Hot Springs, Ore..	300	Correction.....	260
AND N. M. FINKBINER. Water of Crater Lake, Ore.....	198	WELLS, S. D. Paper Pulp from Longleaf Pine by Soda and Sulfate Processes.....	906
VOORHEES, S. S. AND P. H. WALKER. Tests of Paints for Steel Ex- posed Alternately to Air and Fresh Water.....	899	WESSON, L. G. Direct Determination of Rubber.....	398
W AGGAMAN, W. W. A Possible Commercial Utilization of Nel- sonite.....	730	WETTENGEL, E. B. AND A. S. CUSHMAN. Electrolytic Method for Tin in Canned Foods.....	217
WAGNER, T. B. Efficiency in Chemical Industries—The Corn Prod- ucts Industry.....	677	WHIPPLE, D. Rubber Chemistry Section Report, 48th Meeting A. C. S., Rochester.....	956
WAHL, R. Some Distinctions between Pepsin and Peptase.....	752	WHITAKER, M. C. Dictionary of Applied Chemistry, by Thorpe. Vol. III (Book Review).....	620
WALKER, A. L. Hydro-Metallurgy of Copper, by Greenwalt (Book Review).....	86	AND R. K. MURPHY. Chemical Engineering and the New Labora- tories at Columbia University.....	304
WALKER, L. V. AND J. K. CLEMENT. Electrolytic Prevention of Cor- rosion of Iron and Steel.....	361	WHITE, G. F. AND R. H. TWINING. Fluidity of Butter Fat and Its Substitutes.....	568
WALKER, W. H. Corrosion of Iron and Steel.....	444	WHITE, H. L. Influence of Bran-Extracts on Baking Qualities of Flour.....	990
WALKER, P. H. AND S. S. VOORHEES. Tests of Paints for Steel Ex- posed to Air and Fresh Water Alternately.....	899	WHITNEY, W. R. Research Fund, Am. Electrochem. Soc. Note....	432
WARE, E. E. Control of Initial Setting of Portland Cement.....	369	WHITTELEY, T. Synthesis of Rubber (German), by Ditmar (Book Review).....	174
WATERS, C. E. Evaporation Test for Mineral Lubricating and Transformer Oils.....	394	WILEY, H. W. William McMurtrie. Obituary.....	616
Gasoline Generator for Sulfur Determinations.....	853	WILEY, S. W. Reflux Condenser.....	151
WATKINS, W. H. What's the Matter with the American Chemist? Note.....	785	WILLIAMS, K. I. Chemical Composition of Cooked Vegetable Foods. Part III.....	653
WEAVER, E. R. AND R. S. MCBRIDE. Sulfate in Ammonium Sulfate Solution. Testing of Illuminating Gas.....	469	Correction.....	786
Correction.....	619	WITHROW, J. R. Transactions of American Institute of Chemical Engineers, Vol. IV (Book Review).....	84
Sulfur in Illuminating Gas.....	474	WRIGHT, A. M. Chemistry in Relation to Frozen Meat Industry of New Zealand.....	673
WEBER, H. C. P. Modified Form of Stability Test for Explosives...	641	WYSOR, R. J. Letter Concerning Platinum Thief.....	82,
WEINTRAUB, E. Boron: Properties and Preparation.....	106	Life of Platinum Crucibles Lengthened by Use of Méker Burner..	705
		Y OUNG, C. C. AND N. P. SHERWOOD. Deterioration of Soda Water Due to Microorganisms.....	577