

## AUTHORS' INDEX

- ALBIN, T. C. Comparison of methanol and other anti freeze agents... \*526  
 Alfriend, J. V., Jr. Make your plant safer for workers... \*532  
 Anable, Anthony. What becomes of the college graduate? ... 83  
 Anderson, Evald. Effect of tube diameter in cyclonic dust collectors... \*525  
 Anderson, G. W. Power plant losses must be curbed... \*579
- BAKER, JOHN H. Serving the Northwest with alkalis... \*177  
 Barrett, William Felton. Chemical Engineering's role in group achievement... \*626  
 Bartholomew, F. J. Sludge conversion process improves refinery acid recovery... \*642  
 Basore, C. A. Producing glass from furnace slag... 309  
 Bates, H. C. Heat transfer in an industrial glass heat exchanger... \*512  
 Beckwith, T. D., and P. F. Bovard. Bacteria destroy pipe line in California... 530  
 Belding, L. A. What's ahead in the transportation of chemicals... 26  
 Bergmann, R. F. Transporting and handling bulk chemicals... \*474  
 Birch, A. E., and H. M. Weir. Preventing fog entrainment in continuous distillation... \*366  
 Bovard, P. F., and T. D. Beckwith. Bacteria destroy pipe line in California... 530  
 Boyd, T. A. Process industries as purveyors to the motor car... 15  
 Brand, Charles J. Influence of agricultural prospects on chemical industry (charts)... 18  
 Brown, Hylton R., and R. L. Hanson. Venting dust explosions... \*116  
 Burdick, C. L. Recent developments in nitrogen fertilizers... \*638  
 Burton, Laurence V. Breaking into the food industries... 29
- CADENHEAD, A. F. G. Canada's most important synthetic organic chemical industry... \*184  
 Caldwell, O. H. Electronics—new hybrid of chemistry and electricity... 29  
 Carpenter, E. L., and W. R. Woolrich. Problems in processing of cottonseed meats... \*291  
 Church, Leonard. Process cycle control a boon to rubber industry... \*536  
 Rubber coatings for abrasion and corrosion resistance... \*467  
 Clendinning, W. R. Improving automatic control by recorder chart interpretation (charts)... 123  
 Concannon, C. C., and A. H. Swift. Chemical industry resists the depression... 459  
 Cox, John L. What steel to use at high pressures and temperatures... 405
- DAVIS, DALES S. Correcting weir flow calculations for velocity of approach (P. N.)... \*542  
 Nomographic solution of sludge washing (P. N.)... 94  
 Derby, H. L. How chemical industry looks at N.R.A. ... 582  
 Dutton, H. P. Control accounting under the code... 594
- EASTERWOOD, HENRY W. Making phosphoric acid in the blast furnace... \*283
- FAIN, J. MITCHELL and A. W. HIXSON. Emulsified asphalt industry ignores the depression... \*180  
 Fairlie, Andrew M. Recent technical aspects of sulphuric acid... 33  
 Ferguson, H. K. Is your plant ready for recovery? ... \*575  
 Furnas, C. C., and R. H. Newton. Design of grid packed cooling towers... \*301
- GARDNER, WM. HOWLETT. How spirit varnishes may be standardized... 144  
 Grant, Pat. Formulae curio—letters patent (c)... 205
- HANSON, RICHARD L., and H. R. BROWN. Venting dust explosions... \*116  
 Hartford, Fred D. Chemical plant examines its maintenance policy... \*64  
 Chemical industry and the five-day week... 122  
 Correcting bad practice in chimney construction (P. N.)... \*487
- Hints for designers of process equipment (P. N.)... \*542  
 Hemenway, S. H. Turbines to fit the plant... \*189  
 Hixson, Arthur W., and J. M. Fain. Emulsified asphalt industry ignores the depression... \*180
- ISENBURGER, HERBERT R. Making radiographic inspections of chemical equipment... \*130
- JONES, CHAS. L. Carbon dioxide in industry... 76  
 Jones, H. W., and A. G. Peterkin. Cost accounting and the chemical engineer... 86, 133
- KALLAM, F. L. Emergency remote control for gas engines in compressor plants (P. N.)... \*599  
 Kayser, Theodor. New inorganic heat carrier for super temperature heating... 353  
 Keyes, D. B. Cooperative research in chemical engineering... \*402  
 Kirger, F. S., and A. Vaksdal. Preventive maintenance—a necessary step in the recovery program... \*592  
 Kirkpatrick, Sidney D. Building an integrated industry in times of depression... \*236  
 Kleinschmidt, R. V. Handling high pressures in chemical synthesis... \*361  
 Kobe, Kenneth A. Chemical warfare in mob and crime control... \*60  
 Kramer, Bernard. Comment and rejoinder on tank heads (L.)... 91  
 Curing a difficult expansion problem in a low-pressure gas scrubber (P. N.)... \*377  
 Staying heat exchanger heads—simple and leakproof (c.)... \*205
- LADOO, RAYMOND B. Case for rosin-wax sizes... 89  
 Candolt, P. E. Cement industry looks toward byproduct potash industry... \*345  
 Langmuir, A. C. Dilution of shellac varnish (c.)... 314  
 Lincoln, S. B. What's ahead for air conditioning in chemical industries? 28  
 Logan, K. H. Protecting underground pipe lines against soil action... 514
- MANNING, PAUL D. V. How process industries face 1933 in the far west (L.)... 45  
 Mantell, C. L. March of electrochemistry... \*120  
 Matagrin, A. French chemical industries use cast iron to resist corrosion... \*480  
 McBride, R. S. Making sulphur in city gas a profitable byproduct... \*398  
 Petroleum refinery gas for city supply... \*508  
 Wood chemicals respond to changing markets trend... 40  
 Mohlman, F. W. Chemical engineering trends in sewage treatment... 29  
 Morrison, George O., and T. P. G. Shaw. Vinyl plastics from carbide... \*293  
 Morrison, L. H., and M. J. Reed. Avoiding pitfalls in pump suction systems (charts)... 142  
 Morrow, L. C. Management now faces new responsibilities... 573  
 Murdock, Harold R. Champion Fibre adapts itself to changing conditions... \*244
- NEALY, J. B. Gas fuel improves the lime kiln efficiency... \*356  
 Neitzke, O. F. Using process temperatures in concentration determination (P. N.)... \*658  
 Newton, R. H., and C. C. Furnas. Design of grid packed cooling towers... \*301
- O'DONNELL, LAWRENCE. Mining sulphur under water in Louisiana... \*454  
 Olive, T. R. Are you paying for new equipment you never get? ... \*584  
 Coordinated effort solves Dow's control problems... \*520  
 Craftsmanship in chemical stoneware... \*369  
 Olsen, J. C. Unit processes or operations? (c.)... 204  
 Orr, Stephen T. Byproduct CO<sub>2</sub> builds a new refrigerant business... \*250  
 Othmer, Donald F. Dehydrating aqueous solutions of acetic acid... \*631  
 Research yielding important advances in distillation practice... \*254
- PATTEE, ELLIS C. Rice: a raw material for process industries... 365  
 Patton, Temple C. Nomographic chart for determining heating unit design (P. N.)... 150
- Perley, George A. Measurement and control of hydrogen ion concentration... \*417  
 Peterkin, A. G., and H. W. Jones. Cost accounting and the chemical engineer... 86, 133  
 Pierce, David E. From laboratory to plant via "the Half-Way House"... 424  
 Powell, Sheppard T. Profits from trade wastes... 359
- REED, M. J., and L. H. MORRISON. Avoiding pitfalls in pump suction systems (charts)... 142  
 Reich, Gustav T. Distilling beverage from grain... \*618  
 Fighting depression with increased expenditures... 252  
 Rich, P. C. Rhodes marsh yields its sodium sulphate... \*304  
 Rohrman, P. A. Resisting HCl corrosion with metals... \*646  
 Rommel, George M. Georgia pines for sulphite pulp and newsprint... \*197  
 Rother, Willard H. Utilizing cast iron in chemical equipment... \*350
- SANDSTROM, C. O. Bolts and flanges for tanks and heat exchangers... 67, (c) 315  
 Designing heads for tanks and heat exchangers (L.)... 91  
 More heads for tanks and heat exchangers... \*138  
 Staying heat exchanger heads (c)... \*314  
 Santmyers, George S. Simplifying dilution calculation in plant operation (P. N.)... \*657  
 Schmitt, F. E. Construction challenges chemical engineering talents... 23  
 Schwarz, Robert. Brewing-fertile but difficult field for chemical cultivation... 27  
 Seavoy, G. E. Semi plant condenser of standard fittings (P. N.)... \*430  
 Selheimer, Charles W., Jr. Booster compressor conquers a low temperature problem (P. N.)... \*543  
 Seyler, H. W. Coal washing benefits coke oven operation... \*470  
 Shaw, T. P. G., and G. O. Morrison. Vinyl plastics from carbide... \*293  
 Smith, J. F. Process control—its place in modernization... 588  
 Straight, H. R. Use of de-airing for clays and other plastic products... \*410  
 Swift, A. H., and G. C. Concannon. Chemical industry resists the depression... 459
- THUM, ERNEST E. What is the outlook for iron and steel (charts)... \*10  
 Truesdell, Paul. New distillation unit increases yield of lubricating oils... \*517  
 Trump, Edward N. Looking back at 50 years in ammonia-soda alkali industry... \*126  
 Tyler, Chaplin. Economic aspects of chemical process development... 625  
 Unexpected developments in 1932 nitrogen production... 36
- VAKSDAL, A., and F. S. KRIGER. Preventive maintenance—a necessary step in the recovery program... \*592  
 Veazey, W. R. Objectives of a course in chemical engineering... \*193
- WARD, C. A. Building a potash industry in New Mexico... \*172  
 Warner, Edward P. Aviation had real need for chemical developments... 27  
 Weber, William C. Making phosphate fertilizers at Trail, B. C.... \*72  
 Wechsler, Ralph. Research creates new markets for sulphated oils... \*241  
 Weir, H. M., and A. E. Birch. Preventing fog entrainment in continuous distillation... \*366  
 Wells, Sidney D. De-inking and reprocessing paper accomplished by new method... \*634  
 Wertheim, F. E. Should cast iron pipe flanges be specified? (c)... 314  
 Wickstand, Norman M. Alignment chart for plant dilution problems (P. N.)... \*487  
 Woolf, Douglas G. Whither textiles?... \*7  
 Woolrich, W. R., and E. L. Carpenter. Problems in processing of cottonseed meats... \*291  
 Work, Lincoln T. Materials of construction trends... 628  
 Simplify your process by combining drying and grinding operations... \*306
- Plant Notebook; (S) Synopsis or abstract.

NOTES—(c) Comment; (ed) Editorial; (E. N.) Equipment News; \*illustrated; (P. N.) Plant Notebook; (S) Synopsis or abstract.