

CONTENTS AND INDEX

NEW SERIES. VOL. CI—JANUARY TO JUNE, 1945

THE NAMES OF CONTRIBUTORS ARE PRINTED IN SMALL CAPITALS

- ABBOT, C. G., Coincidence of Errors, 144; Radiometer, 244; Sun's Radiation, 483
Abscission of Apple Fruits, H. B. TUKEY and C. L. HAMNER, 253; L. P. BATJER and P. C. MARTH, 363
Academies: *Science*, New Hampshire, 33; Texas, 33; Washington, 195, 296; Pennsylvania, 402; National, 453; Kansas, 555; Wisconsin Junior, 555; Texas, 578; Virginia, 579; U.S.S.R., 603; *Arts and Sciences*, American, 503; *Medicine*, Soviet, 401
Acids: Amino, C. H. TAFT, 144; R. G. KESEL *et al.*, 230; Synthesis, J. L. STOKES and M. GUNNESS, 43; Folic, and Cancers, R. LEUCHTENBERGER *et al.*, 46; Butyric, H. EAGLE, 69; Nicotinic, Deficiency, W. A. KREHL *et al.*, 283; Ascorbic, Values, and Foods, M. C. SMITH and E. CALDWELL, 308; Nicotinic and Tryptophane, W. A. KREHL *et al.*, 489; Ascorbic and α -Amino, T. KOPPANYI *et al.*, 541; Glucuronic, and Penicillin, D. PERLSTEIN *et al.*, 562; Ascorbic, M. KLEIN, 587; Para-Aminobenzoic, and Spotted Fever, L. ANIGSTEIN and M. N. BADER, 591; Soil Minerals, P. G. NUTTING, 619; 2,4-Dichlorophenoxyacetic, E. C. STEVENSON and J. W. MITCHELL, 642; Uronic, W. E. BAIER *et al.*, 670
Agriculture: Research, J. H. MACGILLIVRAY *et al.*, 143; Biology, R. F. GRIGGS, 235; National Research Council, 296; and Microbial Metabolism, R. E. BUCHANAN, 341; Food and Organization in India, 553
ALBANESE, A. A., on Tryptophane Deficient Diet, 619
ALDERTON, G. *et al.*, Lysozyme, Biotin and Avidin, 151
ALEXANDER, B. and G. LANDWEHR, Human Nutrition, 229
ALEXANDER, H. L. *et al.*, Precipitin Test, 547
ALEXANDER, J. and A. W. STERN, Pure Science, 37
ALEXANDER-JACKSON, E., Leprosy, 563
Algae, Marine, of California, G. M. SMITH, 188
ALLARD, H. A., Botanists as Military Tacticians, 678
Alloxan, Microbiological and Fluorometric Test, V. DU VIGNEAUD *et al.*, 647
American Association for the Advancement of Science: SCIENCE, F. R. MOULTON, 8; C. F. Kettering, Z. JEFFRIES, 8; Officers, 10; Sam Woodley, B. E. LIVINGSTON, 551
ANDERSON, T. F., Bacterial Virus and Host, 565
ANDERSON, T. G., Urease Test for Proteus, 470
ANIGSTEIN, L. and M. N. BADER, Spotted Fever, 591
Animal and Plant Stocks, W. LANDAUER, 497
Antibacterial Action of 2-Methyl-1,4-Naphthoquinone, C. A. COLWELL and M. McCALL, 592
Antibiotics, I. N. ASHESHOV and F. STRELITZ, 621
Antibodies, W. E. EHREICH and T. N. HARRIS, 28
Antigen-Antibody Reaction in Infectious Mononucleosis, P. LEVINE and E. L. GILMORE, 411
Ants, Caste Differentiation, S. E. FLANDERS, 245
Apparatus: Lyophilization, A. F. POMES and G. W. IRVING, JR., 22; Manometric, W. A. ROBBIE and P. J. LEINFELDER, 48; Magnetic Stirrer, M. WINOKUR, 49; Electrode, R. W. WEST and E. S. AMIS, 71; Gage Recorder, H. GRUNDFEST *et al.*, 255; Light Box, M. C. RICHARDS, 312; Microorganism, R. W. LEWIS and E. H. LUCAS, 364; Grapevine Injection, W. O. WILLIAMS, 416; Voltmeter, W. F. SIMPSON, 443; Plugs for Tubes, O. K. STARK, 521; Filtration Adapter, N. APPLEZWEIG, 548
APPLEZWEIG, N., Filtration Adapter, 548
ARMSTRONG, P. B., Peripheral Nerve Terminations, 327
Arsenic Trioxide, J. C. FINERTY and J. D. GRACE, 359
Arthritis, Rheumatoïd, H. A. FREUND *et al.*, 202
ASHESHOV, I. N. and F. STRELITZ, Mycobacterium-Tuberculosis, 119; Antibiotics, 621
Awards, Prizes and Medals: Mathematical Society, Cole Prize, 13; Bernays Radio Award, 59; Mineralogical Society, Roebling Medal, 111; Aeronautical Sciences Awards, 138; American Institute Chemists, Gold Medal, 139; Geological Society, London, 193; American Institute of Mining and Metallurgical Engineers, Awards, 218; John Wesley Hyatt Award, 266; Washington Academy of Sciences, Awards, 296; American Chemical Society, 321; Franklin Institute Medals, 322, 349; Passano Award, 374; Design Awards Luncheon, 426
Bacterial: Dissociation, W. BRAUN, 182; Growth and Disinfection, F. H. JOHNSON and I. LEWIN, 281
Bacteriology, Concept of a Strain, G. H. CHAPMAN, 429
Bacteriophage and Light Microscope, A. W. HOFER and O. W. RICHARDS, 466
BAIER, W. E. *et al.*, Uronic Acids in Animal Bodies, 670
BAKER, J. R. *et al.*, Society for Freedom in Science, 273; Threat to Pure Science, 300
BALL, E. G. *et al.*, Malaria Parasite in Vitro, 542
BARAC, G., Plea for Publications, 586
BARTLETT, J. C., Jr., Spots Producing Terrestrial Magnetic Phenomena, 327
BATJER, L. P. and P. C. MARTH, Fruit Abscission, 363
BEACH, F. A., "Angry" Mosquitoes, 610
BEARD, J. W. *et al.*, Swine Influenza Virus, 544
BERNARD, R. and P. GENEST, Sulfonamides and Egg-Shell Formation, 617
BERNHHEIM, F. and M. L. C., Inactivation of Marfanil, 547
BERRY, E. W., Age of Punjab Salt Series, 87
BEYER, K. H. and W. M. GOVIER, Deamination of "Marfanil," 150
Biological: Abstracts, 216; Extrapolation to the Social, R. W. GERARD and A. E. EMERSON, 582
Biologists, Booklets for Latin-American, 167
Biology: and Integrative Levels, A. B. NOVIKOFF, 209; and Agriculture, R. F. GRIGGS, 235; Experimental, 578
Biometric Bulletin, 633
BIRCH, H. G., Psychological Race Differences, 173
Birds, Heart Rate, E. P. ODUM, 153
BITTNER, J. J. *et al.*, Mammary Tumor Milk Agent, 95
BLAKE, C. H., Orthography of Names, 174
Blancan as a Time Term, M. K. ELIAS *et al.*, 270
Blood: Proteins, Therapeutic Value, E. J. COHN, 51; Rh Types, Nomenclature, L. H. SNYDER, 62
Bone Formation and Spinach, R. E. REMINGTON and C. L. SMITH, 271
Botanical: Cinchona Missions, W. C. STEERE, 177; L. R. HOLDRIDGE, 638; *Gardens*: New York, 82; Fiftieth Anniversary, 479; U. S. M. VAN REMALAR, 678
Botanists as Military Tacticians, H. A. ALLARD, 678
Botany, Wood's Class-book, C. J. LYON, 484
BRANDWEIN, P. F., "Science" Talent Search, 117
BRAUN, W., Bacterial Dissociation, 182
BRONFENBRENNER, J. and C. B. FAOUR, Penicillin, 673
BROOKS, M., Bird Flight and Migration, 329
BROWN, C. E., A and B Scales on Slide Rules, 522
Brucellosis, Bovine, I. F. HUDDLESON *et al.*, 358
BRUES, C. T. and R. C. DUNN, Penicillin and Sulfa Drugs, 336
BUCHANAN, R. E., Microbial Metabolism, 341
BURINGTON, R. S., New Frontiers, 313
Butanediol-Glycerol, 2,3-, Fermentation, A. C. NEISH *et al.*, 245
CAMPBELL, B., Motor Neurons, 412
CAMPBELL, L., Outburst of Nova (T) Pyxidis, 429

- Cancer: Nutrition, V. R. POTTER, 103; Pilot Courses, 425; Exercise and Food, H. P. MORRIS, 457; of Urinary Tract, G. N. PAPANICOLAOU and V. F. MARSHALL, 519; Enzyme-Virus V. R. POTTER, 609; Grants, 662
- CANTAROW, A. *et al.*, Inactivation of Estrogens, 558
- Carbohydrates, Translocation, W. E. LOOMIS, 398
- CARMICHAEL, P. A., Improbability and Impossibility, 16
- Chaos, Encystment and Excystment, E. J. WENSTRUP, 407
- CHAPMAN, G. H., Concept of a Strain in Bacteriology, 429
- CHARNEY, J. *et al.*, Urinary Excretion of Penicillin, 251
- Chemists, "Starring" in "American Men of Science," R. J. WILLIAMS, 222; Income of Professional, 240
- CHESLER, A. and R. TISLOWITZ, Diabetes, 468
- CHILD, GEORGE P., Protection of Pancreatic Lipase, 311
- Choline, Microbiological Determinations, L. SIEGEL, 674
- CHOW, B. F. and C. M. MCKEE, Penicillin and Plasma, 67
- Chromatolysis and Antidromic Potential of Motor Neurons, B. CAMPBELL, 412
- Cinema and Body Temperature, M. KLEITMAN, 507
- CLARK, G. L. and F. W. CAGLE, JR., Structure of DDT, 465
- CLARK, H. F., Experiments in Social Sciences, 393
- Clavacin Isomer, Synthesis, B. PUETZER *et al.*, 307
- Clostridium Chauvei, Susceptibility of Hamsters, J. F. RYFF and A. M. LEE, 361
- COCKERELL, T. D. A., Biological Research and Publication, 377; Employment After the War, 639
- Coeloplana on American Shores, F. G. W. SMITH, 17
- COHN, A. E., Disease of the Heart, 471; 499
- COHN, E. J., Blood Proteins, Therapeutic Value, 51
- Colchicine, Aerosol Method, J. W. MCKAY *et al.*, 154
- Coleoptile Curvature Measurement, W. P. JUDKINS, 568
- Colorimetric Method for Micro-determination, H. A. STIFF, JR., and J. C. CASTILLO, 440
- COLWELL, C. A. and M. McCALL, Antibacterial Action of 2-Methyl-1,4-Naphthoquinone, 592
- COMMISSION ON ACUTE RESPIRATORY DISEASES, Fibrinolysin-Antifibrinolysin Reaction, 120
- COMPTON, A. H., Science and the Nation's Future, 207
- COMPTON, K. T., Board for National Security, 226
- Consanguinity, C. STERN and D. R. CHARLES, 305
- Continental Drift, Fictitious, W. D. LAMBERT, 558
- COPISAROW, M., Marine Fouling and Its Prevention, 406
- COPLEY, A. L., Placental Thromboplastin, 436
- Corn Embryos in Vitro, A. J. HAAGEN-SMIT *et al.*, 234
- Corneal Vascularization and Diet, A. A. ALBANESE, 619
- Corrosion Research Laboratory, 452
- COWDRY, E. V., Shall They Survive?, 625
- COWLES, R. B., Sterility and Evolution, 221
- CRAFTS, A. S., New Herbicide, 417
- CRAM, E. B. *et al.*, Host of Schistosoma Mansoni, 302
- CRONE, G. R., Sponsors of World Exploration, 379
- CRUZ-COKE, E. *et al.*, Purification of Penicillin, 340
- CUNNINGHAM, E. R., Gaps in Files of Periodicals, 62
- Cyclic Hydrocarbons, Strain Energies, K. S. PITZER, 672
- Cystine Peptides, Degradation of, by Tissues, F. M. LEUTHARDT and J. P. GREENSTEIN, 19
- DADOURIAN, H. M., Pressure from Knowledge, 611
- DALE, H., Address of President of Royal Society, 23
- DANIELS, L. B., Peach Mosaic Disease, 87
- DAY, H. G. and E. LEVIN, Sunflower Seed Meal, 438
- DDT: Poisoning and Calcium, Z. VAZ *et al.*, 434; Insecticidal Activity, E. A. PRILL *et al.*, 464; Crystal Structure, G. L. CLARK and F. W. CAGLE, JR., 465
- DE LAUBENFELS, M. W., Sponge Names, 354
- Demographic Dilemma, K. SAX, 325
- DERRICK, W. A. and R. B. HOULIHAN, Myxomatosis in Malnourished Rabbits, 364
- DE TERRA, H., Rainfall, Malaria and Agriculture, 629
- Diabetes, A. CHESLER and R. TISLOWITZ, 468
- Dicumarol, Antibacterial Properties, A. GOTTH, 383
- Diet, Effect of Oxalates in, E. F. KOHMAN, 610
- Dietary Allowances, R. M. WILDER, 285
- Dinosaurs, Quarry for, W. L. STOKES, 115
- Disease, Peach Mosaic, L. B. DANIELS, 87
- DODGE, S. D., Education for Social Science Students, 419
- DRABKIN, D. L., Hemoglobin, Glucose and Water, 445
- Drosophila and Insect Wings, R. B. GOLDSCHMIDT, 389
- DUNN, L. C., Scientific Interchange of U. S. and Russia, 200
- DU VIGNEAUD, V. *et al.*, Test for Alloxan, 647
- Dwarfs, White, W. J. LUYTEN, 79
- EAGLE, H., New Trypanocidal Agent, 69
- Earthworms, Phosphorescent, C. N. RAY, 271
- Echolocation, the Word, M. W. JOHNSON, 302
- EDGERTON, H. A. and S. H. BRITT, Science Talent in American Youth, 247
- Education: in Geology, C. R. LONGWELL, 1; in Argentina, J. A. SHELLENBERGER, 64; Engineering, 110; Medical, 194; Social Science, S. D. DODGE, 419
- Eggs, Atmospheric Pressure and Hatchability, R. M. FRAPS, 339; Dirty, Germicidal Subsance, V. J. PENNISTON and L. R. HEDRICK, 362; Activation, B. T. SCHEER, 645
- EHRENFHAFT, F., Rotating Action on Matter in Light, 676
- EHRICH, W. E. and T. N. HARRIS, Antibodies, 28
- EHRMAN, F. C. *et al.*, Plasmodium Vivax Chesson, 377
- ELIAS, M. K. *et al.*, Blanean as a Time Term, 270
- ELIAS, W. F. and J. DURSO, Blood, Fecal Streptomycin in *E. typhosa*, 589
- Embryonic Tissues Transplanted, H. S. N. GREENE, 644
- Embryos, Chick, Oxydase Reaction, H. A. FELDMAN, 646
- Employment, Full, Post-War: J. MAYER, 367; R. J. WILLIAMS, 537; 679; T. D. A. COCKERELL, 639
- Endamoeba Histolytica, Radiation, A. M. STOLL *et al.*, 463
- Endocarditis, Verrucous, W. J. MACNEAL *et al.*, 415
- ENGELBERT, V. E., Fat Content of Guinea-pig Milk, 459
- Engineering, Education and the War, 110; Mechanical, California Institute, 451
- Engineers, Radio, Program of Institute, 331; Chemical, Peruvian Institute, 578
- Errors, Coincidence of, C. G. ABBOT, 144
- Erythrocyte, Hemoglobin, Glucose, Oxygen and Water, D. L. DRABKIN, 445
- Estrogens, Hepatic Inactivation, A. CANTAROW *et al.*, 558
- EVERSON, G. J. and A. H. SMITH, Thiamine, Riboflavin and Niacin in Deep Fat Cooking, 338
- Evolution and Sterility, R. B. COWLES, 221
- Exploration, Sponsors of World, G. R. CRONE, 379
- Exudates, Inflammatory, V. MENKIN, 422
- Facies, Cenozoic, F. B. VAN HOUTEN, 430
- FEINSTEIN, L., Test for Flour Enrichment, 675
- FELDMAN, H. A., Oxydase Reaction in Embryos, 646
- Fellowships: E. I. du Pont de Nemours, 194; National Research Council, Natural Sciences, 322
- Fibrinolysin-Antifibrinolysin Reaction, COMMISSION ON ACUTE RESPIRATORY DISEASES, 120
- FINERTY, J. C. and J. D. GRACE, Arsenic Trioxide, 359
- FISHMAN, W. H. and W. M. GOVIER, Kidney Cocarboxylase, 277
- FISK, R. T. *et al.*, Prolongation of Penicillin Activity, 124
- FLANDERS, S. E., Caste Differentiation in Ants, 245
- Flour, Test for Enrichment, L. FEINSTEIN, 675
- Food: Agricultural Organization in India, 553; Standards, Food and Drug Administration, 553
- Fossil Discovery in California, F. M. STANGER, 559
- FOSTER, J. W., Acid Formation from Penicillin, 205
- FOSTER, R. W., Stars in "American Men of Science," 639
- Foundations: Sugar Research, 34; Ella Sachs Plotz, Grants, 84; Sugar Research, Grants, 110; 426; Nutrition, 241; 402; for Industrial Research, 295; Infantile Paralysis, 374; Passano Award, 374; Rockefeller, 452; Worcester, Experimental Biology, 578
- FRANK, L. K., Research After the War, 433
- FRAPS, R. M., Hatchability of Eggs, 339
- FREUND, H. A. *et al.*, Rheumatoid Arthritis, 202
- FREUND, J. and K. J. THOMSON, Penicillin, 468
- FRIED, J. and O. WINTERSTEINER, Streptothricin and Streptomycin, 613
- FRIEDEN, E. H., Diffusion Constant of Penicillin, 21

- Frontiers, New, R. S. BURLINGTON, 313
Fund, Commonwealth, Annual Report, 83
Fusaria, Nutritive Value, L. J. VINSON *et al.*, 388
- GARBER, R. J., Plant Breeding and Human Nutrition, 288
GARRETT, H. E., Race Differences, 16; 404
Gases in a Closed System, J. B. SENN, 392
Gene Action in Micro-Organisms, Conference, 241
Geological Department of Mysore, 295
Geologists, Mortality among, W. H. HOBBS, 145
Geology, Education in, C. R. LONGWELL, 1
Geophysical Union, American, 633
GERARD, R. W. and A. E. EMERSON, Extrapolation from the Biological to Social, 582
GERBER, I. E. and M. GROSS, Inhibition of Growth of Mycobacterium Tuberculosis, 616
GERICKE, W. F., Hydroponics, 142
Germplasm, Temperature Tolerance, W. V. SMITH, 460
Glaciation, Boundary, in Canada, W. H. HOBBS, 549
Glycosuria and Adrenocorticotrophic Hormone, D. J. INGLE *et al.*, 671
GODDARD, D. R., Respiration or Fermentation, 352
GOLDSCHMIDT, R. B., Drosophila and Insect Wings, 389
GONZALEZ, F., Quinones and Penicillin Notatum, 494
GOETH, A., Antibacterial Properties of Dicumarol, 383
GRANADOS, H. and H. DAM, Vitamin E-Deficient Rats, 250
GRANICK, S. and H. GILDER, Porphyrins, 540
Grants: Sugar Research, 34; 110; Medical Association, 83; Ella Sachs Plotz, 84; Advisory Cancer Council, 662
Great Britain: Therapeutic Trials Committee, 348
GREENE, H. S. N., Transplanted Embryonic Tissues, 644
GREGG, A., Research for Social Progress, 257
GREULACH, V. A., "Photoperiodism," 353
GRIGGS, R. F., Postwar Biology and Agriculture, 235
Growth Inhibition by Hexenolactone, T. HAUSCHKA *et al.*, 383; Stimulator, Colchicine, E. H. NEWCOMER, 677
GRUNDFEST, H. *et al.*, Strain Gage Recorder, 255; Science and the Draft, 486
Guinea-pig Milk, Fat Content, V. E. ENGELBERT, 459
- HAAGEN-SMIT, A. J. *et al.*, Corn Embryos in Vitro, 234
HALSTEAD, W. C., Anoxia and Impairment of Vision, 615
HAMOR, W. A., War Research at Mellon Institute, 510
HANNA, D. L., Inorganic Bouncing Putty, 407
HARTLEY, P., World Standard Penicillin, 637
HAUSCHKA, T. *et al.*, Growth Inhibition, 383
Heart, Disease of, A. E. COHN, 471; 499
HEGRE, E. S., Intracardiac Transplantation, 469; and R. F. BLOUNT, Chin Adjustment for Microscope, 126
Herbaria, Russian and Others, E. D. MERRILL, 355
Hericide, New, A. S. CRAFTS, 417
HERSKOVITS, M. J., Racial Differences, 200
HETHERTON, D. C., Mold Preventive for Books, 223
HICKNEY, R. J., Sterility Test for Penicillin, 232; Regeneration of Active Penicillin Esters, 462
HICKMAN, J. B., Transliteration of Russian, 460
HOAK, R. D., Abatement of Stream Pollution, 523
HOBBS, W. H., Mortality among Geologists, 145; Boundary Glaciation in Canada, 549
HOCKING, G. M., Quinine from Remijia Bark, 484
HOFER, A. W. and O. W. RICHARDS, Bacteriophage and Light Microscope, 466
HOLBRIDGE, L. R., Cinchona Mission, 638
Hormonal Influence, F. W. SMITH, 279
Hormones, Meta-, Estrogenic, A. LIPSCHÜTZ *et al.*, 410
HORWITT, M. K., Trypsin and Chymotrypsin, 376
HOWE, H. H., Azimuthal Equidistant Map, 638
HUDDLESON, I. F. *et al.*, Bovine Brucellosis, 358
HULL, A. W., Industrial Research, 157
HULL, G. F., Rotating Action in a Beam of Light, 220
Hydrolysis of Choline Esters by Liver, C. H. SAWYER, 385
Hydroponics, W. F. GERICKE, 142
- Improbability and Impossibility, P. A. CARMICHAEL, 16
INGLE, D. J. *et al.*, Glycosuria and Adrenocorticotrophic Hormone, 671
Insect Physiology, C. M. WILLIAMS, 622
- Insects, Sperm in Eggs, J. T. PATTERSON, 156
Internationalism, Concept of, E. B. KRUMBHAAR, 73
Iron in Enriched Bread, W. R. RUEGAMER and C. A. ELVEHJEM, 206
Isonipecaine, Anesthetic Properties, E. L. WAY, 566
- JACKSON, DUGALD C., In Honor of, 267
JEFFRIES, Z., C. F. Kettering, 8
JOHNSON, F. H. and I. LEWIN, Bacterial Growth and Disinfection, 281
JOHNSON, M. W., the Word Echolocation, 302
JONES, D. *et al.*, Virus-Inactivating Substances, 665
JUDKINS, W. P., Measuring Coleoptile Curvature, 568
- KAHN, M. C. *et al.*, Sounds of Mosquitoes, 335
KASS, E. H., Serum Gamma-Globulin in Human Lymphocytes, 337
KEITH, R. W., Growing Rubber, 508
KESEL, R. G. *et al.*, Amino Acids, 230
Kidney Cocarboxylase, W. H. FISHMAN and W. M. GOVIER, 277
- KLEIN, M., Virucidal Action Ascorbic Acid, 587
KLEITMAN, N., Cinema and Body Temperature, 507
KLOPSTEG, P. E., Productivity of Research, 569
KNIGHT, C. A., PR8 Influenza Virus, 231
KNUDSEN, L. F., Penicillin Assay, 46
KOEHMAN, E. F., Effect of Oxalates in Diet, 610
KOPPANYI, T. *et al.*, Ascorbic Acid and α -Amino, 541
KOSOLAPOFF, G. M., Scientific Terminology and Classification, 89; Transliteration of Russian Words, 175
KRANTZ, J. C., JR. *et al.*, Oral Penicillin, 618
KREHL, W. A. *et al.*, Nicotinic Acid Deficiency, 283; Growth-retarding Nicotinic Acid and Tryptophane, 489
KREIDER, H. R., Vitamin A and Super-Filtrol, 377
KRUMBHAAR, E. B., Concept of Internationalism, 73
KUNITZ, M., Trypsin Inhibitor from Soybean, 668
- LAMBERT, W. D., Fictitious Continental Drift, 558
LANDAUER, W., Plant and Animal Stocks, 497
LAZIER, W. A., Southern Research Institute, 249
LEISE, J. M. and L. H. JAMES, Pathogenicity and pH Tolerance Microorganisms, 437
- LEON-BLANCÓ, F. and A. OTEIZER, Pinta, 309
Leprosy, E. ALEXANDER-JACKSON, 563
Leptospira, Slide Agglutination, H. P. MINETTE, 256
LEUCHTBENBERG, R. *et al.*, Folic Acid and Cancers, 46
LEUTHARDT, F. M. and J. P. GREENSTEIN, Degradation of Cystine Peptides by Tissues, 19
LEVINE, P. and E. L. GILMORE, Antigen-Antibody Reaction in Infectious Mononucleosis, 411
LEWIS, R. W. and E. H. LUCAS, Microorganisms on a Flowing Medium, 364
LIBBY, R. L., Oral Administration of Penicillin, 178
Library, Carnegie, Pittsburgh, 479
Light Beam, Rotating Action, G. F. HULL, 220; F. EHRENHAFT, 676
Lipase, Protection of Pancreatic, G. P. CHILD, 311
LIPSCHÜTZ, A. *et al.*, Estrogenic Metahormones, 410
Liver: Mitosis, A. MARSHAK and A. C. WALKER, 94; Estrogenic Metahormones in, A. LIPSCHÜTZ *et al.*, 410; Allooxan in, J. A. RUBEN and R. S. TIPSON, 536
LIVINGSTON, B. E., Sam Woodley, 551
LONGWELL, C. R., Education in Geology, 1
LOOMIS, W. E., Translocation of Carbohydrates, 398
LORENZ, A. J., Scurvy in Parry Expedition of 1819, 36
LOWMAN, A., Vitamin A, 183
LUYTEN, W. J., White Dwarfs, 79
Lymphocyte Content, Depression of, W. O. REINHARDT and C. H. LI, 360
LYON, C. J., Centennial of Wood's Class Book, 484
Lysozyme, Biotin and Avidin, G. ALDERTON *et al.*, 151
- MCDERMOTT, W. *et al.*, Oral Penicillin, 228
MACGILLIVRAY, J. H. *et al.*, Vital Research of Agriculture, 143
MCKAY, J. W., *et al.*, Applying Colchicine, 154
MACKEE, G. M. *et al.*, Sale of Sulfonamide Drugs, 409
MC LAUGHLIN, D. B., Stellar Variation, 535

- MAC NEAL, W. J *et al.*, Verrucous Endocarditis, 415
 MCQUARRIE, E. B. and A. T. VENOSA, Protein Intake and Xanthine Oxidase Activity, 493
 Magnetic Phenomena, Spots, J. C. BARTLETT, JR., 327
 Malaria Parasite, In Vitro, E. G. BALL *et al.*, 542; Rainfall and Agriculture, H. DE TERRA, 629
 Mammals, Handler for Small, L. J. THOMAS, 496
 Mammary Tumor Milk Agent, J. J. BITTNER *et al.*, 95
 Man, Needs of, K. F. MATHER, 198
 Manpower, Technological, 488
 Map, Tectonic, of the United States, 577; Azimuthal Equidistant, H. H. HOWE, 638
 "Marfanil" Deamination, K. H. BEYER and W. M. GOVIER, 150; Inactivation, F. and M. L. C. BERNHEIM, 547
 Marine Fouling and its Prevention, M. COPISAROW, 406
 MARSHAK, A. and A. C. WALKER, Mitosis in Liver, 94
 MASON, J. A., Languages of South America, 259
 Mathematicians, Portraits, G. A. MILLER, 223
 MATHER, K. F., "Needs of Man," 198
 MAYER, J., Postwar Employment, 367
 MENKIN, V., Inflammatory Exudates, 422
 MERRILL, E. D., Russia and European Herbaria, 355
 Merthiolate and Precipitation Reactions, D. PRESSMAN and A. L. GROSSBERG, 254
 Micro-drill, W. R. WAGNER, 127
 Microorganisms, Pathogenicity and pH Tolerance, J. M. LEISE and L. H. JAMES, 437
 Microscope, Chin Focus Adjustment, E. S. HEGRE and R. F. BLOUNT, 126
 Microscopy, Indices in Polarized Light, P. W. WEST, 283
 Microviscometer, E. R. WEYER, 521
 Migration, Bird Flight and, M. BROOKS, 329
 MILBRATH, J. A. and S. M. ZELLER, Viruses in Stone Fruits, 114
 MILHORAT, A. T. and W. E. BARTELS, Tocopherol and Muscular Dystrophy, 93
 MILLER, G. A., Portraits of Mathematicians, 223
 MINETTE, H. P., Leptospira, Slide Agglutination, 256
 Mold Preventive for Books, D. C. HETHERINGTON, 223
 MOORE, J. S., Threat to Pure Science, 62
 MORRIS, H. P., Exercise, Food and Cancer, 457
 Mosquitoes, Recording of Sounds Produced by, M. C. KAHN *et al.*, 335; "Angry," F. A. BEACH, 610
 MOULTON, F. R., Editing of SCIENCE, 8; American Society of Parasitologists, 39
 MUIR, R. D. and G. VALLEY, Penicillin Sterility Test, 390
 Muscle, Regeneration, I. A. POGOGEFF and M. R. MURRAY, 174
 Muscular Dystrophy, A. T. MILHORAT and W. E. BARTELS, 93
 Museum, Natural History, American, 168
 MYERS, W. G. and H. J. HANSON, Penicillium Notatum, 357
 Myxomatosis, R. B. HOULIHAN and W. A. DERRICH, 364
 National: Security, Research Board, K. T. COMPTON, 226; Research Council, Agricultural Board, 296; Fellowships in the Natural Sciences, 322; Foundation for Infantile Paralysis, 374; Security, Science Education for, 461; Grants Advisory Cancer Council, 662
 NEEDHAM, J., Dr. Novikoff's Article, 582
 NEGHME, A., Penicillin Sodium Treatment of Trypanosomiasis, 115
 NEISH, A. C. *et al.*, 2,3-Butanediol-Glycerol Fermentation, 245
 Nova, (T) Pyxidis, Outburst, L. CAMPBELL, 429
 NOVIKOFF, A. B., Integrative Levels and Biology, 209
 Novikoff's Article, J. NEEDHAM, 582
 Nerve Terminations, P. B. ARMSTRONG, 327
 NEURATH, H. *et al.*, Serological Diagnosis of Syphilis, 68
 NEWCOMER, E. H., Colchicine a Growth Stimulator, 677
 Nutrient Berries and Epsom Salts, W. L. POWERS, 301
 Nutrition: Institute, 12; in Cancer Prevention, V. R. POTTER, 105; Human, B. ALEXANDER and G. LANDWEHR, 229; Foundation, 241; 402; Plant Breeding and Human, R. J. GARBER, 288; and Tuberculosis, 531
 NUTTING, P. G., Solution of Soil Minerals in Acids, 619
 Obituaries: Bean, Robert Bennett, W. B. BEAN, 346; Botanists, Russian, V. C. ASMOUS, 166; Dewey, Lyster Hoxie, H. T. EDWARDS, 11; Eddington, A., H. N. RUSSELL, 215; Elmer, A. D. E., A. W. C. T. HERRE, 477; Gibson, Charles Le Roy, J. D. CLARK, 31; Holgate, Thomas Franklin, E. J. MOULTON, 528; Howell, William Henry, J. ERLANGER, 575; Ives, S. A., J. R. SAMPEY, JR., 240; Jones, Lewis Ralph, G. W. KEITT, 658; Poindexter, Oscar Floyd, H. M. MARTIN, 264; Record, Samuel J., P. C. STANLEY, 293; Slocum, Frederick, C. L. STEARNS, 136; Spaulding, Milo Herrick, C. A. TRYON, JR., 602; Sperling, Edward O., L. J. BRIGGS, 576; Trelease, William, J. T. BUCHHOLZ, 192; Waite, Merton B., A. F. WOODS, 632
 Observatory, Harvard College, 304
 ODUM, E. P., Heart Rate of Birds, 153
 Organisms in Cyanide, Activity, W. ROBBIE, 649
 OSWALD, E. J. and W. A. RANDALL, Penicillin, 99
 PAPANICOLAU, G. N. and V. F. MARSHALL, Cancer, 519
 Parenteral, Therapy, Intravenous, B. ZIMMERMANN, 567
 PARKINS, W. F. *et al.*, Blood Level of Penicillin, 203
 PATTERSON, J. T., Sperm Eggs of Insects, 156
 Penicillin: Diffusion Constant, E. H. FRIEDEN, 21; Recommendations, 42; Assay, L. F. KNUDSEN, 46; and Plasma Proteins, B. F. CHOW and C. M. MCKEE, 67; Plate Assay, E. J. OSWALD and W. A. RANDALL, 99; Treatment of Trypanosomiasis, A. NEGHME, 115; Activity, R. T. FISK *et al.*, 124; Oral, R. L. LIBBY, 178; W. McDermott *et al.*, 228; J. C. KRANTZ, JR., *et al.*, 618; Blood Level, W. F. PARKINS *et al.*, 203; Acid from, J. W. FOSTER, 205; Sterility Test, R. J. HICKNEY, 232; R. D. MUIR and G. VALLEY, 390; Excretion, J. CHARNEY *et al.*, 251; Gram-Negative Bacilli to, G. SCHWARTZMAN, 276; and Intracellular Bacteroids, C. T. BRUES and R. C. DUNN, 336; Purification, E. CRUZ-COKE *et al.*, 340; in Body Fluids, W. A. RANDALL *et al.*, 365; Esters, Regeneration, R. J. HICKNEY, 462; Water-in-Oil Emulsions, J. FREUND and K. J. THOMSON, 468; Absorption, D. PERLSTEIN *et al.*, 562; World Standard, P. HARTLEY, 637; Blood Concentrations, J. BRONFENBRENNER and C. B. FAVOUR, 673
 Penicillium Notatum: New Strains, W. G. MYERS and H. J. HANSON, 357; Quinones and, F. GONZALEZ, 494
 PENNISTON, V. J. and L. R. HEDRICK, Dirty Eggs, Germicidal Efficiency of Emulsept and of Choline, 362
 PERLSTEIN, D. *et al.*, Absorption of Penicillin, 562
 Photoperiodicity, Simulation of, F. W. WENT, 97
 "Photoperiodism," V. A. GREULACH, 353
 Pigeons, Homing, C. S. PLATT and R. S. DARE, 439
 Pigment and Biochrome, F. B. SUMNER, 114
 Pinta, Transmission, F. LEON-BLANCO and A. OTEIZA, 309
 PRITZER, K. S., Strain Energies of Cyclic Hydrocarbons, 672
 Plant and Animal Stocks, W. LANDAUER, 497
 Plasma: 67; Filtration, L. RANE and D. M. BALDWIN, 494
 Plasmodium Vivax Chesson Strain, F. C. EHREMAN *et al.*, 377
 PLATT, C. S. and R. S. DARE, Homing in Pigeons, 439
 POGOGEFF, I. A. and M. R. MURRAY, Regeneration of Muscle in Vitro, 174
 Poison Ivy, Inactivation, I. W. SIZER and C. E. PROKESCH, 517
 Pollution Abatement of Streams, R. D. HOAK, 523
 POMES, A. F. and G. W. IRVING, JR., Lyophilization, 22
 Porphyrins, S. GRANICK and H. GILDER, 540
 POTTER, V. R., Nutrition in Cancer Prevention, 105; Enzyme-Virus Theory of Cancer, 609
 POWERS, P. N., Shortage of Scientific Personnel, 612
 POWERS, W. L., Nutrient Value of Berries, 301
 Precipitin Test, Quantitating, H. L. ALEXANDER *et al.*, 547
 PRESSMAN, D. and A. L. GROSSBERG, Merthiolate and Precipitation Reactions, 254

- PRICE, W. C., Bean Mosaic Virus, 515
 PRILL, E. A. *et al.*, Insecticidal Activity of DDT, 464
 Protein Intake and Xanthine Oxidase Activity, E. B. MCQUARRIE and A. T. VENOSA, 493
 Proteins, Drying from Frozen State, W. H. SEEGERS, 284
 Psychology, Human, Rats and, E. C. TOLMAN, 160
 Publications, Plea for, G. BARAC, 586
 PUETZER, B. *et al.*, Synthesis of Clavacin Isomer, 307
 Putty, An Inorganic Bouncing, D. L. HANNA, 407
- Quinine from Remijia Bark, G. M. HOCKING, 484
- Race Differences, H. E. GARRETT, 16, 404; H. G. BIRCH, 173; M. J. HERSKOVITS, 200
 Radiometer and Sir Isaac Newton, C. G. ABBOT, 244
 RANDALL, W. A. *et al.*, Penicillin in Body Fluids, 365
 RANE, L. and D. M. BALDWIN, Citrated Plasma, 494
 Ranunculaceae, Antibiotic Activity of Extracts, B. C. SEEGAL and M. HOLDEN, 413
 Rat Kidney Cocarboxylase, Changes in, W. H. FISHMAN and W. M. GOVIER, 277
 RAY, C. N., Phosphorescent Earthworms, 271
 Rehabilitation of Physically Handicapped, 502
 REINHARDT, W. O. and C. H. LI, Depression of Lymphocyte Content, 360
 REMINGTON, R. E. and C. L. SMITH, Spinach and Bone Formation, 271
 Research: Sugar Foundation Grants, 34; 110; 426; Grants, American Medical Association, 83; Publication Policy, P. WEISS, 101; Agriculture, J. H. MACGILLIVRAY *et al.*, 143; Students, Industrial, A. W. HULL, 157; Board for National Security, K. T. COMPTON, 226; in India, 240; Institute, W. A. LAZIER, 249; for Social Progress, A. GREGG, 257; Languages of South America, J. A. MASON, 259; Council, National, Fellowships in Natural Sciences, 322; Biological, and Publication, T. D. A. COCKERELL, 377; After the War, L. K. FRANK, 433; Corrosion, 452; Welfare Conference, 478; War, at Mellon Institute, W. A. HAMOR, 510; Productivity, P. E. KLOPSTEG, 569; General Electric, 632; Great Lakes Institute, 660
 Respiration, Anaerobic, or Fermentation, W. SEIFRIZ, 88; D. R. GODDARD, 352; G. T. SCOTT, 585
 Reviews: 17, 18, 39, 41, 64, 65, 90, 92, 117, 118, 145, 146, 147, 175, 176, 201, 202, 224, 225, 248, 249, 273, 275, 302, 303, 330, 356, 357, 378, 408, 431, 432, 460, 461, 487, 509, 538, 561, 586, 587, 622, 623, 650, 652, 679
 Rheumatic Fever, D. D. RUTSTEIN *et al.*, 669
 RICHARDS, M. C., Light Box for Taking Photographs, 312
 River, Tertiary, K. VER STEEG, 329
 ROBBIE, W., Activity of Organisms in Cyanide, 649
 ROBBIE, W. A. and P. J. LEINFELDER, Manometric Apparatus for Respiratory Studies of Small Animals, 48
 ROLLER, D., International Language for Sciences, 299
 Rooting Greenwood Cuttings, V. T. STOUTMYER *et al.*, 546
 Rubber, Growing, R. W. KEITH, 508
 RUBEN, J. A. and R. S. TIPSON, Alloxan in Livers, 536
 RUBINSTEIN, H. S., Sleep-Electro-Shock Therapy, 430
 RUEGAMER, W. R. and C. A. ELVEHJEM, Iron Enriched Bread, 206
 Russian: Transliteration, G. M. KOSOLAPOFF, 175; J. B. HICKMAN, 460
 RUTSTEIN, D. D. *et al.*, Rheumatic Fever, 669
 RYFF, J. F. and A. M. LEE, Susceptibility of Hamsters to Clostridium Chauvei, 361
- SABIN, A. B. and R. W. SCHLESINGER, Immunity of Dengue with Virus, 640
 SALK, J. E., Influenza Virus, 122
 Salt Series, Punjab Age, E. W. BERRY, 87
 SAWYER, C. H., Hydrolysis of Choline Esters, 385
 SAX, K., Demographic Dilemma, 325
 SCHEER, B. T., Activation of Marine Eggs, 645
 Schistosoma Mansoni, Host, E. B. CRAM *et al.*, 302
 SCIENCE, Editing of, F. R. MOULTON, 8
 Science: Pure, J. ALEXANDER and A. W. STERN, 37; J. S. MOORE, 62; J. R. BAKER, 300; Talent Search, P. F. BRANDWEIN, 117; 266; Staffing Departments, M. H. TRYTTEN, 172; Nation's Future, A. H. COMPTON, 207; after the War, H. E. SIGERIST, 246; Talent in Youth, H. A. EDGERTON and S. H. BRITT, 247; Society for Freedom in, J. R. BAKER *et al.*, 273; International Auxiliary Language, D. ROLLER, 299; Fellowships of the Natural, National Research Council, 322; Memorial Loan Fund for Students, 348; Experiments in Social, H. F. CLARK, 393; Bureau at Manila, 401; Social Education for, S. D. DODGE, 419; and the Draft, H. GRUNDFEST, 486
 Scientific: Periodicals, E. R. CUNNINGHAM, 62; Terminology and Classification, G. M. KOSOLAPOFF, 89; Names, Orthography, C. H. BLAKE, 174; Interchange of U. S. and Russia, L. C. DUNN, 200; Research in India, 240; Knowledge, H. M. DADOURIAN, 611; Personnel Shortage, P. N. POWERS, 612; Men, French, 662
 SCOTT, G. T., Anaerobic Respiration vs. Fermentation, 585
 SCRIMSHAW, N. S., Volumetric Flasks and Foam, 156
 Scurvy in Parry Expedition of 1819, A. J. LORENZ, 36
 Seaweed Colloids, Terminology, C. K. TSENG, 597
 SEEGAL, B. C. and M. HOLDEN, Antibiotic Activity of Extracts Ranunculaceae, 413
 SEEGERS, W. H., Drying Proteins from the Frozen State, 284; *et al.*, Thrombin and Fibrin, 520
 SEIFRIZ, W., Anaerobic Respiration, 88
 SENN, J. B., Gases in a Closed System, 393
 Serum, Gamma-Globulin in Human Lymphocytes, E. H. KASS, 337
 SHELLENBERGER, J. A., Education in Argentina, 64
 SHWARTZMAN, G., Penicillin, 276
 SIEGEL, L., Microbiological Determinations of Choline, 674
 SIGERIST, H. E., Science Departments, Postwar, 246
 SIMPSON, G. G., Scientific Strength of Universities, 506
 SIMPSON, W. F., Simple Volumeter, 443
 SINGHER, H. O. and L. MARINELLI, Radioactive Sulfur, 414
 Sino-American Friendship, E. H. WALKER, 38
 SIZER, I. W., and C. E. PROKESCH, Inactivation of Poison Ivy, 517
 Sleep-Electro-Shock Therapy, H. S. RUBINSTEIN, 430
 Slide Rules, A and B Scales, C. E. BROWN, 522
 SMITH, F. G. W., Coleoplane on American Shores, 17
 SMITH, F. W., Hormonal Influence, 279
 SMITH, G. M., Marine Algae of California, 188
 SMITH, M. C. and E. CALDWELL, Ascorbic Acid Values and Foods, 308
 SMITH, W. V., Temperature Tolerance of Germplasm, 460
 Smithsonian Institution, Board of Regents, 84
 SNYDER, L. H., Rh Blood Types, Nomenclature, 62
 Societies and Associations: Mathematical, American, Cole Prize, 13; Physical, American, 13; Royal, Address of the President, H. DALE, 23; Parasitologists, American, F. R. MOULTON, 39; Entomologists, 58; National Malaria, 58; American Phytopathological, E. N. CORY, 58; Mineralogical Award, 111; American Institute, Electrical Engineers, Officers, 138; Zoological, N. Y., 147; Rancho Grande Station, 195; Geographic, National, 216; Meteorological, American, 217; Geological, Economic, 295; Pittsburgh, 530; Chemical, American, 321, 503; Physics, 349; Royal, 372; Shell, Research Club and Sigma Xi, 373; Philosophical, American, 453; Sigma Alpha and Alpha Epsilon Delta, 531; Sigma Xi, 604; Geophysical Union, 633; Astronomical, American, 634; Chemical, American, 661
 SOMERS, G. F. and M. H. COOLIDGE, Thiamin and Riboflavin in Wheat Grains, 98
 Spirochetes, Staining, C. L. WISSEMAN, JR., 392
 Sponge Names, M. W. DE LAUBENFELS, 354
 STANGER, F. M., Fossil Discovery in California, 559
 STANLEY, W. M., Conquest of Virus Diseases, 185; Influenza Virus, Vaccine and Calcium Phosphate, 332
 STARK, O. K., Cotton Plugs for Culture Tubes, 521
 Starred Men in "American Men of Science," S. S. Visher, 272; R. W. FOSTER, 639
 STEERE, W. C., Botanical Work of Cinchona Missions, 177

- Stellar, Pulsation Theory, D. B. McLAUGHLIN, 535
 STEERN, C. and D. R. CHARLES, Consanguinity, 305
 STEVENSON, E. C. and J. W. MITCHELL, Bacteriostatic and Bactericidal Properties of 2,4-Dichlorophenoxyacetic Acid, 642
 STIFF, H. A., JR. and J. C. CASTILLO, Micro-determination of 2, bis(P-Chlorophenyl) 1,1 Trichlorethane (DDT), 440
 STOHLER, R. and A. G. COOLING, Toads in the Marianas, 678
 STOKES, J. L. and M. GUNNESS, Pyridoxamine and Synthesis of Amino Acid by Lactobacilli, 43
 STOKES, W. L., Quarry for Dinosaurs, 115
 STOLL, A. M. *et al.*, Ultraviolet Radiation on Cysts of Endamoeba Histolytica, 463
 STOUTEMAYER, V. T. *et al.*, Rooting Cuttings, 546
 Streptothricin and Streptomycin, J. FRIED and O. WINTERSTEINER, 613
 STRONG, L. C., Author of the Voynich Manuscript, 608
 Sulfonamide Drugs, Sale of, G. M. MACKER *et al.*, 409
 Sulfonamides and Egg-Shell Formation, R. BERNARD and P. GENEST, 617
 Sulfur, Distribution of Radioactive, H. O. SINGHER and L. MARINELLI, 414
 SULKIN, S. E., Encephalomyelitis Virus, 381
 SUMNER, F. B., Pigment and Biochrome, 114
 Sunflower Seed Meal, H. G. DAY and E. LEVIN, 438
 Sun's Wave Radiation, Periodicity, C. G. ABBOT, 483
 Survive!, Shall They, E. V. COWDRY, 625
 Syphilis, Serological Diagnosis, H. NEURATH *et al.*, 68
 TAFT, C. H., Amino Acids, 144
 TANNER, F. W. *et al.*, Riboflavin Production, 180
 Telephone Laboratories at Murray Hill, N. J., 554
 Temperature Observation, Petri Dish, R. WICHTERMAN, 184
 Termite Repellant, Phenol, G. N. WOLCOTT, 444
 Thiamine and Dropping Mercury Electrode, A. WOLLENBERGER, 386
 THOMAS, L. J., Handler for Small Mammals, 496
 Thrombin and Fibrin, W. H. SEEVERS *et al.*, 520
 Thromboplastin, Placental, A. L. COPLEY, 436
 Toads in the Marianas, R. STOHLER and A. G. COOLING, 678
 TOLMAN, E. C., The Rat and Human Psychology, 160
 Transplantation, Intracardiac, E. S. HEGRE, 469
 Trypsin, and Chymotrypsin versus Heparin, M. K. HORWITT, 376; Inhibitor from Soybean, M. KUNITZ, 668
 TRYTTEN, M. H., Staffing Science Departments, 172
 TSENG, C. K., Terminology of Seaweed Colloids, 597
 Tuberculosis: Mycobacterium, I. N. ASHESHOV and F. STRELITZ, 119; I. E. GERBER and M. GROSS, 616; and Nutrition, 531
 TUKEY, H. B. and C. L. HAMNER, Fruits Abscission, 253
 Typhosa, E., W. F. ELIAS and J. DURSO, 589
 Typhus Commission of the U. S. A., 110
 Universities and Colleges: Michigan State, Institute of Nutrition, 12; Cambridge, Gift of Scientific Instruments and Books, 32, Endowment of Chemical Engineering, 266; Columbia, Computing Laboratory, 168, Honorary Degrees, 634; Yale, 169; Harvard Observatory, 304; Loans for Students, 348; Strength in Scientists, S. S. VISHNER, 272; G. G. SIMPSON, 506; Wichita, Industrial Research, 295; Imperial, Science and Technology, 478; Virginia, Optical Library, 530; Syracuse Fluid Mechanics Laboratory, 603, Industrial Electronics at, 661
 Urea, Urethane and other Carbamates and Bacterial Growth, L. WEINSTEIN and A. McDONALD, 44
 Urease Test for Proteus, T. G. ANDERSON 470
 VAN HOUTEN, F. B., Early Cenozoic Facies, 430
 VAN REMLAR, M., U. S. Botanical Garden, 678
 VAZ, Z. *et al.*, Calcium and DDT Poisoning, 434
 VER STEEG, K., A Tertiary River, 329
 VINSON, L. J. *et al.*, Nutritive Value Fusaria, 388
 Virus: Influenza, J. E. SALK, 122; PR8, C. A. KNIGHT, 231; Influenza, Vaccine and Calcium Phosphate, W. M. STANLEY, 332; Encephalomyelitis, S. E. SULKIN, 381; Poliomyelitis, R. WARD *et al.*, 491; Bean Mosaic, W. C. PRICE, 515; Swine Influenza, J. W. BEARD *et al.*, 544; Bacterial, T. F. ANDERSON, 565; Electron Shadow, R. C. WILLIAMS and R. W. G. WYCKOFF, 594; Enzyme, Theory of Cancer, V. R. POTTER, 609; Immunity of Dengue, A. B. SABIN and R. W. SCHLESINGER, 640; Inactivating Substances, D. JONES *et al.*, 665
 Viruses in Stone Fruits, J. A. MILBRAH and S. M. ZELLER, 114; Biophysical Problems, R. W. G. WYCKOFF, 129; Diseases, Conquest, W. M. STANLEY, 185
 VISHNER, S. S., "American Men of Science," 272
 Vision, Impairment and Anoxia, W. C. HALSTEAD, 615; Human, and the Spectrum, G. WALD, 653
 Vital Statistics of Australia, 57
 Vitamins: Riboflavin, Thiamin, G. F. SOMERS and M. H. COOLIDGE, 98; Production, F. W. TANNER *et al.*, 180; Thiamine and Niacin in Deep Fat Cooking, G. J. EVERSON and A. H. SMITH, 338; A. A. LOWMAN, 183; Reaction with Super-Filtrol, H. R. KREIDER, 377; on Acid Earths, Coloration, L. ZECHMEISTER and A. SANDOVAL, 585; E-Deficient Rats, H. GRANADOS and H. DAM, 250
 Volcano, Paricutin, 137, 530
 Volumetric Flasks and Foam, N. S. SCRIMSHAW, 156
 Voynich Manuscript, Author of, L. C. STRONG, 608
 WAGNER, W. R., Micro-drill, 127
 WALD, G., Human Vision and the Spectrum, 653
 WALKER, E. H., Sino-American Friendship, 38
 War: II, Medical History, 12; and Engineering Education, 110; Research, W. A. HAMOR, 510; Post: L. K. FRANK, 433; R. J. WILLIAMS, 537; 679; T. D. A. COCKERELL, 639; Science Departments, M. H. TRYTTEN, 172; H. E. SIGERIST, 246; Biology and Agriculture, R. F. GRIGGS, 235; International Language for Science, D. ROLLER, 299; Employment, J. MAYER, 367
 WARD, R. *et al.*, Poliomelitis Virus in Food, 491
 WAY, E. L., Anesthetic Properties of Isonipecaine, 566
 WEINSTEIN, L. and A. McDONALD, Effect of Urea, Urethane and other Carbamates on Bacterial Growth, 44
 WEISS, P., Research Publication Policy, 101
 WENSTRUP, E. J., Encystment and Excystment in Chaos, 407
 WENT, F. W., Photoperiodicity by Thermoperiodicity, 97
 WEST, P. W., Indices in Polarized Light Microscopy, 283; and E. S. AMIS, Microcalomel Electrode for Polarographic Measurements, 71
 WEYER, E. R., Microviscometer, 521
 WICHTERMAN, R., Temperature Observation, 184
 WILDER, R. M., Dietary Allowances, 285
 Wildlife Conservation in Missouri, 321
 WILLIAMS, C. M., Insect Physiology, 622
 WILLIAMS, R. C. and R. W. G. WYCKOFF, Electron Shadow of Micrography Virus, 594
 WILLIAMS, R. J., Chemists, "Starring" in "American Men of Science," 222; Employment, 537; 679
 WILLIAMS, W. O., Grapevine Injection Apparatus, 416
 WINOKUR, M., Stirrer for Gas-Flow Apparatus, 49
 WISSEMAN, C. L., JR., Staining Spirochetes, 392
 WOLCOTT, G. N., Phenol as a Termite Repellent, 444
 WOLLENBERGER, A., Thiamine and Dropping Mercury Electrode, 386
 WYCKOFF, R. W. G., Biophysical Problems of Viruses, 129
 ZECHMEISTER, L. and A. SANDOVAL, Coloration by Vitamin A on Acid Earths, 585
 ZIMMERMAN, B., Intravenous Parenteral Therapy, 657
 Zoological Nomenclature, International Commission, 602