

CENSUS OF PHARMACEUTICAL RESEARCH, 1928.

BY H. V. ARNY.*

This Census of 1928 is the fourth of the series, those of 1925, 1926, and 1927 appearing in THIS JOURNAL (May 1925, page 434; August 1926, page 690; and August 1927, page 680). The fourth Census, like its predecessors, manifests the representative character of the workers engaged in research in the field of medicinal substances. A notable feature of the four Census reports is the gradually increasing number of persons reporting research in progress. The 1925 Census contained 239 names; the 1926 Census listed 297 persons; the 1927 Census reported 401 research workers, while the present Census indicates no less than 488 individuals engaged in investigations in the wide field of pharmacy.

There are a few reporting on pharmacological work and on educational work and personnel studies. One group is studying drug store merchandizing problems, another is doing coöperative assay work, a third group represents the 15 workers on pharmaceutical lines at the Mellon Institute, but a large majority of the work reported is research along chemical, botanical and pharmaceutical lines.

As mentioned in preceding reports, the list changes year by year, 113 names that were listed in the Census of 1927 not appearing in this Census. Of these we have personal knowledge of two removed by death, these two being Messrs. G. M. Beringer and W. A. Hall, two of the few retail pharmacists who found the time to carry on original research. Their loss is deeply felt by those of us who appreciate the fine type and the eminently practical character of investigations carried on by them.

Most of the others now omitted are former students of our colleges or employees of our manufacturing plants who have transferred their activities into non-pharmaceutical fields. It is with regret that we have to note that at least 30 of the names are missing because of failure to receive Census returns for 4 or 5 directors of research who reported in the 1927 Census but who failed to respond to the letters sent out this year.

The 488 research workers of 1928 may be classified as follows:

Hospital pharmacists.....	2
Retail pharmacists.....	10
Wholesale druggists.....	5
Pharmacists engaged in medical school work.....	12
Governmental scientists doing drug research.....	22
Practicing chemists and research institutions.....	26
Non-pharmaceutical teachers and their students (chemists, botanists and pharmacologists).....	52
Manufacturing pharmacists.....	155
Pharmaceutical teachers and their students.....	204
Total.....	488

An itemized list follows on the next page.

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CENSUS OF PHARMACEUTICAL RESEARCH.

Index numbers intended to indicate coöperative work.

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
1	Alstadt, B. S.	Brooklyn College Pharmacy	Brooklyn	U. S. P. methods of analysis	See No. 301
2	Amrhein, F. J.	Mass. College Pharmacy	Boston, Mass.	Glucoside of <i>Viburnum cassinoides</i> . Chemistry of the aconites	See No. 244
3	Anderson, J. P.	E. R. Squibb & Sons	New Brunswick, N. J.	Antitoxins, sera and vaccine for scarlet fever, measles, etc.	See Nos. 32, 154, 196, 215, 275, 314, 351 and 397
4	Anderson, Oliver	School of Pharmacy, State College	Brookings, S. D.	Alkaloidal indicators	See No. 410
5	Andrew, R. H.	Armour & Co.	Chicago, Ill.	Isoelectric precipitation of pepsin	See No. 135
6	Applebaum, P. M.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Perfume ethers	See No. 39
7	Array, H. V.	College Pharmacy, Columbia Univ.	New York, N. Y.	Syrup of ferrous iodide, lactic acid tests	See Nos. 107 and 232
8	Arzooonian, S.	E. R. Squibb & Sons	Brooklyn, N. Y.	Ephedrine studies	See No. 93
9	Bacon, F. J.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Digitalis. The genus <i>Mentha</i>	
10	Baillargeon, Jeannette	Robt. McNeil	Philadelphia, Pa.	Assay methods for ampuls	See No. 457
11	Baker, W. J.	College Pharmacy, State College	Corvallis, Oregon	Tannin content of <i>Lithocarpus densiflora</i>	See No. 158
12	Ballard, C. W.	College Pharmacy, Columbia Univ.	New York, N. Y.	Psyllium seed	See No. 291
13	Balotin, Joel	Philadelphia College Pharmacy and Science	Philadelphia, Pa.	Lactic acid tests	See No. 268
14	Barbella, N. G.	U. S. Dept. Agriculture	Washington, D. C.	General pharmacology	
15	Barnett, J. O.	Massachusetts College Pharmacy	Boston, Mass.	Standards for tinctures and fluidextracts	See No. 47
16	Barol, A.	H. K. Mulford Co.	Philadelphia, Pa.	Insulin	See No. 363
17	Barone, T.	Eli Lilly & Co.	Indianapolis, Ind.	Excipients for compressed tablets	See No. 30
18	Bartlett, J. H.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Action of Coolidge rays on organics	See No. 39
19	Bartlow, E.	Pitman, Moore Co.	Indianapolis, Ind.	Tablet variation	See No. 144
20	Bass, S.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Thyroxine studies	See No. 236
21	Beaber, N. J.	Mellon Institute	Pittsburgh, Pa.	Phenols	See No. 22
22	Beal, G. D.	Mellon Institute	Pittsburgh, Pa.	General chemical research	See Nos. 21, 57, 92, 109, 128, 199, 260, 386 and 474
23	Beatty, J. C.	Philadelphia College Pharmacy and Science	Philadelphia, Pa.	Study of water coagulants	See No. 268
24	Bebie, Jules	Monsanto Chem. Works	St. Louis, Mo.	U. S. P. revision problems. Synthetic pharmaceuticals	See No. 65
25	Belzer, Lucile	School Pharmacy, Univ. Wis.	Madison, Wis.	Ombungalula bark	See No. 467
26	Becker, I. A.	Michael Reese Hospital	Chicago, Ill.	Recipe Book problems. Effect of light on chemicals	
27	Benedict, L. C.	W. S. Merrell Co.	Cincinnati, Ohio	Sodium ricinoleate	See No. 59
28	Bengert, Geo.	Norwich Pharmacal Co.	Norwich, N. Y.	Study of pharmaceuticals	See No. 419
29	Bergy, G. A.	School Pharmacy, Univ. W. Va.	Morgantown, W. Va.	Elixir of terpin hydrate	
30	Bibbins, F. E.	Eli Lilly & Co.	Indianapolis, Ind.	General pharmaceutical research	See Nos. 17, 61, 223, 403 and 436

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
31	Bienfang, R. D.	College Pharmacy, Univ. Wisconsin	Madison, Wis.	<i>Polygala Senega</i>	See No. 366
32	Black, Archie	E. R. Squibb & Sons	New Brunswick, N. J.	Vitamin assay methods	See No. 3
33	Blake, E. S.	College Pharmacy, Univ. Michigan	Ann Arbor, Mich.	Social anaesthetics of the pyrrole series	See No. 36
34	Blake, L. S.	Dept. Pharmacy, State College	Auburn, Ala.	General pharmaceutical research	See Nos. 191, 230 and 323
35	Blanco, S.	College Pharmacy, Univ. Wisconsin	Madison, Wis.	<i>Pitiosporum resiniferum</i>	See No. 257
36	Blicke, F. F.	College Pharmacy, Univ. Michigan	Ann Arbor, Mich.	Synthetic medicinals	See Nos. 33, 261, 328, 352, 414 and 473
37	Bliss, A. R.	Medical College, Univ. Tenn.	Memphis, Tenn.	Pharmacological and chemical studies	See Nos. 53, 311, 346, 353, 379 and 466
38	Block, A.	College Pharmacy, Univ. Buffalo	Buffalo, N. Y.	Chemotherapeutic prob- lems	See No. 206
39	Bogert, M. T.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Synthesis of medicinal chemicals	See Nos. 6, 18, 168, 205, 228, 262, 292, 295, 309, 319, 359, 402 and 448
40	Bohr, J. E.	Philadelphia College Pharmacy and Science	Philadelphia, Pa.	Potassium bicarbonate in Fowler's solution	See No. 268
41	Boughton, L. L.	School Pharmacy, Univ. Kansas	Lawrence, Kan.	Soaps	See No. 203
42	Bourne, J. R.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of aconite on cer- tain crustaceæ	See No. 97
43	Bowers, H. R.	College Pharmacy, Univ. Southern California	Los Angeles, Cal.	Solution of magnesium citrate	
44	Bowser, T.	E. L. Patch Co.	Boston, Mass.	Vitamin content of cod- liver oil	
45	Boyd, F. M.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Reaction of animals to vitamins	See No. 97
46	Brackman, C. G.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Stains for cellulose and lignocellulose	See No. 97
47	Bradley, T. J.	Massachusetts Col- lege Pharmacy	Boston, Mass.	Physical processes in pharmaceutical work	See Nos. 15, 287, 337 and 427
48	Braford, Caty	College Pharmacy, Univ. Wash.	Seattle, Wash.	Syrup of calcium iodide	See No. 263
49	Braun, H. A.	College Pharmacy, Univ. Wis.	Madison, Wis.	Non-volatile constituents of peppermint	See No. 257
50	Briggs, W. P.	School Pharmacy, Geo. Washington Univ.	Washington, D. C.	Action of citric acid in treatment of acidosis. Preservation of syrup of wild cherry	See No. 468
51	Brimston, Marion	College Pharmacy, Univ. Wash.	Seattle, Wash.	Action of nitrosyl chlo- ride on ether	See No. 288
52	Brown, H. A.	College Pharmacy, Univ. Minn.	Minneapolis, Minn.	Hydrosulphides of the alkaline earths	See No. 373
53	Brown, M. R.	Medical College, Univ. Tenn.	Memphis, Tenn.	Anesthesia after mag- nesium sulphate injec- tion	See No. 37
54	Brown, R. E.	Dept. Chemistry, Iowa State College	Ames, Iowa	Hypnotics, antipyretics and anaesthetics	See No. 159
55	Bugbee, E. P.	Parke, Davis & Co.	Detroit, Mich.	Active principle of pos- terior lobe of the pit- uitary	See No. 410
56	Burlage, H. N.	Dept. Pharmacy, State Agric. Col- lege	Corvallis, Oregon	<i>Artemesia heterophylla</i> . Oil of micromeria	See Nos. 249, 315, 324 and 398
57	Burnett, W. B.	Mellon Inst.	Pittsburgh, Pa.	Rosin and turpentine	See No. 22
58	Butz, L. W.	H. K. Mulford Co.	Glenolden, Pa.	Snake venoms and anti- venoms. Diphtheria antitoxins and toxoids	See No. 160

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
59	Bye, Mortimer	W. S. Merrell Co.	Cincinnati, Ohio	Biochemical research	See Nos. 27, 111, 155, 186, and 348
60	Cain, Russell	College Pharmacy, Univ. Wash.	Seattle, Wash.	Decomposition of hypochlorite solutions	See No. 263
61	Caldwell, A. L.	Eli Lilly & Co.	Indianapolis, Ind.	Barbituric acid derivatives. Hypodermic and intravenous solutions. pH studies of fluidextracts	See. No 30
62	Canis, O. F. A.	College Pharmacy, Fordham Univ.	New York, N. Y.	U. S. P. revision problems	See No. 86
63	Card, P. Q.	Philadelphia College Pharmacy and Science	Philadelphia, Pa.	Mercury assays	See No. 268
64	Carr, C. J.	Sharp & Dohme	Baltimore, Md.	Bolton's solution	See No. 256
65	Carswell, T. S.	Monsanto Chem. Works	St. Louis, Mo.	Synthetic medicinal products	See No. 24
66	Carter, E. B.	Swan-Myers Co.	Indianapolis, Ind.	Biological research	
67	Caspe, Sol.	H. A. Metz & Co.	New York, N. Y.	Chemistry of cod-liver oil	See No. 114
68	Cawley, Ellen	Philadelphia College Pharmacy and Science	Philadelphia, Pa.	Digitalis pigments and seed oil	See No. 460
69	Chamberlin, N.	College Pharmacy, Western Reserve Univ.	Cleveland, Ohio	Coöperative drug assay work	See No. 470
70	Chao, S. S.	College Pharmacy, Univ. Wis.	Madison, Wis.	Chinese cassia	See No. 257
71	Chappell, F. C.	E. R. Squibb & Sons	Brooklyn, N. Y.	Vitamins A and D	See No. 73
72	Cheplin, H. A.	H. K. Mulford Co.	Glenolden, Pa.	<i>Acidophyllus bacillus</i>	See No. 363
73	Christiansen, W. G.	E. R. Squibb & Sons	Brooklyn, N. Y.	General pharmaceutical research	See Nos. 8, 71, 235, 237, 242, 267, 282, 415, and 458
74	Christensen, B. V.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Solubility methods. Menthol content of <i>Mentha arvensis</i> . Ouabain production	See No. 475
75	Clark, A. H.	College Pharmacy, Univ. Ill.	Chicago, Ill.	Alkaloids of <i>Ceanothus Americanus</i>	
76	Clark, R. W.	College Pharmacy, Univ. Wis.	Madison, Wis.	Fatty oil of datura seed	See No. 257
77	Clay, C. L.	Chemical Laboratory	New Orleans, La.	Coöperative drug assay work	See No. 470
78	Clevenger, J. E.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Analytic drug chemistry	
79	Cole, Miss V.	Upjohn Co.	Kalamazoo, Mich.	Calcium metabolism	See No. 208
80	Coleman, H. R.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of alkaloids on small crustaceæ	See No. 97
81	Colin, G. G.	North Pacific College	Portland, Oregon	Respiration tests and metabolism	See No. 392
82	Cook, E. F.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Fixed oils of U. S. P. X	See Nos. 150, 283, 362 and 393
83	Cooper, H. H., Jr.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Mercuric iodide assays	See No. 268
84	Copley, D. M.	Norwich Pharmacy Co.	Norwich, N. Y.	Assay methods	See No. 419
85	Corbitt, H. B.	H. A. Metz & Co.	New York, N. Y.	Sulphur compounds as antidotes to metallic poisons	
86	Corcoran, J. J.	College Pharmacy, Fordham Univ.	New York, N. Y.	Pharmaceuticals of U. S. P. X	See No. 62
87	Corkle, D. E.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of digitalis on small crustaceæ	See No. 97
88	Corsa, Miss M. A.	H. K. Mulford Co.	Philadelphia, Pa.	Production of bacterial derivatives	See No. 363
89	Cortland, George	Upjohn Co.	Kalamazoo, Mich.	Ovarian constituents	See No. 208
90	Cowles, Russell A.	Digestive Ferments Co.	Detroit, Mich.	Ovarian hormones	

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
91	Cox, C. L.	College Pharmacy, Valparaiso, Univ.	Valparaiso, Ind.	Fluidextract of <i>avena sativa</i>	
92	Cox, H. L.	Mellon Inst.	Pittsburgh, Pa.	Surgical supplies	See No. 22
93	Crandall, J. V.	College Pharmacy, Detroit Inst. Tech- nology	Detroit, Mich.	U. S. P. color standards and nomenclature	
94	Crockett, W. G.	Medical College of Virginia	Richmond, Va.	Specific gravities of offi- cial syrups	
95	Culley, John	Retail Pharmacy	Ogden, Utah	U. S. P. revision prob- lems	
96	Culter, S. H.	College Pharmacy, Univ. Wis.	Madison, Wis.	Echinacea	
97	Darbaker, L. K.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Plant pathology. Plant growth. Plant matu- ration	See Nos. 42, 45, 46, 80, 87, 142, 187, 294, 333, 387, 433 and 484
98	Daughenbaugh, P. J.	Dept. Bacteriol., Rutgers Univ.	New Brunswick, N. J.	Bacterial problems	See No. 101
99	Davis, D. W.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Organic lead compounds	See No. 296
100	Davis, Miss M.	N. J. College Phar- macy	Newark, N. J.	Nutrition problems	See No. 368
101	Davison, F. R.	Dept. Bacteriol., Rutgers Univ.	New Brunswick, N. J.	Bacterial problems. Phosphorus compounds of the muscle	See No. 98
102	Davy, E. D.	College Pharmacy, Western Reserve Univ.	Cleveland, Ohio	Colloidal mercurial oint- ment. Pepo. Oint- ment bases	See No. 431
103	Dechter, Alice	College Pharmacy, Univ. Minn.	Minneapolis, Minn.	<i>Extradum ferri poma- tum</i>	See No. 373
104	DeKeyser, Michel	North Pacific Col- lege	Portland, Oregon	Use of ozone in respira- tory diseases	See No. 392
105	Dessementet, E.	Lehn & Fink	Bloomfield, N. J.	Methemoglobin	See No. 251
106	Dickey, J. B.	Iowa State College	Ames, Iowa	Antiseptics, antipyretics and anæsthetics	See No. 159
107	Dimler, Marguerite	College Pharmacy, Columbia Univ.	New York, N. Y.	Lactic acid and other U. S. P. tests	See No. 7
108	Diner, Jacob	College Pharmacy, Fordham Univ.	New York, N. Y.	U. S. P. revision prob- lems	
109	Dodds, Mary L.	Mellon Inst.	Pittsburgh, Pa.	Surgical supplies	See No. 22
110	Dohme, A. R. L.	Sharp & Dohme	Baltimore, Md.	U. S. P. revision problems	
111	Downey, R.	Wm. S. Merrell Co.	Cincinnati, Ohio	Blood clotting material	See No. 59
112	Dox, A. W.	Parke, Davis & Co.	Detroit, Mich.	Synthetic hypnotics	
113	Draize, J. H.	College Pharmacy, Univ. Wisconsin	Madison, Wis.	U. S. P. and N. F. petro- leum products	See No. 257
114	Dubin, H. E.	H. A. Metz & Co.	New York, N. Y.	Active principles of cod- liver oil	See No. 67
115	DuMez, A. G.	College Pharmacy, Univ. Md.	Baltimore, Md.	U. S. P. revision prob- lems	
116	Dunn, M. S.	Phila. College Phar- macy and Science	Philadelphia, Pa.	Micro-analysis. Bella- donna	See No. 46
117	Dunning, F.	Hynson, Westcott & Dunning	Baltimore, Md.	Organic mercurials. Heparin	See No. 118
118	Dunning, H. A. B.	Hynson, Westcott & Dunning	Baltimore, Md.	Synthetic organic medi- caments. Endocrines	See Nos. 117, 190, 430 and 454
119	Dunstan, J. O.	Dept. Chemistry, Univ. N. C.	Chapel Hill, N. C.	Deodorizing of menhaden oil	See No. 461
120	Dworkin, S. S.	Retail pharmacy	New York, N. Y.	Distribution of biolog- icals. Russian folk medicine	
121	Eaton, E. O.	U. S. Appraisers Lab- oratory	San Francisco, Cal.	Evaluation of emodin drugs	
122	Eidsmoe, Clark	Div. Pharmacy, State College	Brookings, S. D.	<i>Digitalis ambigua</i> and <i>D. purpurea</i>	See No. 401
123	Eldred, F. H.	Reed & Carnrick	Jersey City, N. J.	Endocrine products	
124	Elgin, W. F.	H. K. Mulford Co.	Glenolden, Pa.	<i>Neurovaccines</i> . Com- plement fixation tests	See No. 363

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
125	Emery, W. O.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Halogenated antipyridines. Assays of organic mixtures	
126	Emmert, H. C.	College Pharmacy, Detroit Inst. Technology	Detroit, Mich.	U. S. P. color standards and nomenclature	
127	Engels, D. R.	Merck & Co.	Philadelphia, Pa.	Organic synthesis	See No. 375
128	Enright, J. J.	Mellon Inst.	Pittsburgh, Pa.	Dental caries	See No. 22
129	Enz, W. W. F.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Stabilization of pharmaceuticals	See No. 225
130	Evans, Clementine	College Pharmacy, Univ. Wash.	Seattle, Wash.	Alkaloidal content of belladonna	See No. 171
131	Evans, G. B.	Gibson-Snow Co.	Albany, N. Y.	Research in the field of distribution	See No. 321
132	Éwe, G. E.	Tailby-Nason Co.	Boston, Mass.	Manufacture and analysis of pharmaceuticals	
133	Farber, Jason	College Pharmacy, Univ. Buffalo	Buffalo, N. Y.	Chemotherapy	See No. 266
134	Farwell, O. A.	Parke, Davis & Co.	Detroit, Mich.	Pharmacognosy and systematic botany	
135	Fenger, F.	Armour & Co.	Chicago, Ill.	Isoelectric precipitation of pepsin	See Nos. 5 and 356
136	Fenwick, H. B.	Mass. College Pharmacy	Boston, Mass.	pH of tincture of digitalis. Testing emulsions for germicidal activity	See No. 286
137	Fiero, G. W.	College Pharmacy, Univ. So. California	Los Angeles, Cal.	Rancidity of ointments	
138	Findlay, D. M.	H. K. Mulford Co.	Philadelphia, Pa.	Production and purification of insulin	See No. 363
139	Finneran, J. F.	Retail pharmacy	Boston, Mass.	Research in the field of distribution	See No. 321
140	Fischelis, R. P.	Consulting pharmacist	Trenton, N. J.	Manufacture and standardization of digitalis preparations. Educational statistics. Creosote compounds	
141	Fischer, E. B.	College Pharmacy, Univ. Minnesota	Minneapolis, Minn.	Toxin of <i>Rhizopus nigricans</i>	
142	Fishburn, Geo.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Location of iodine in plant cells	See No. 97
143	Fisher, L.	College Pharmacy, Univ. Washington	Seattle, Wash.	Licorice fern	See No. 171
144	Fisk, F. B.	Pittmann Moore Co.	Indianapolis, Ind.	General pharmaceutical research	See Nos. 19, 306 and 411
145	Flynn, Laura	Dept. Chemistry, State College	Ames, Iowa	Organo-lead compounds	See No. 159
146	Fonda, L. D.	N. J. College Pharmacy	Newark, N. J.	pH of certain bacteriological media	
147	Foote, P. A.	College Pharmacy, Univ. Wis.	Madison, Wis.	Volatile oil of <i>Kaempferia galanga</i> . Jeffrey pine oil	See No. 257
148	Forbes, J. C.	Dept. Pharmacy, Medical College Va.	Richmond, Va.	Effect of neutral salts on pH of solutions	
149	Freedman, Louis	H. A. Metz & Co.	New York, N. Y.	Neoarsphenamine. Epinephrin derivatives. Local anesthetics	
150	Freeman, L. G.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Hypodermic solution of digitalis	See No. 82
151	Gallagher, M. C.	Dept. Chemistry, Univ. Okla.	Norman, Okla.	Seed of <i>Euphorbia marginata</i>	See No. 192
152	Gardner, J. H.	Dept. Chemistry, Johns Hopkins Univ.	Baltimore, Md.	Synthesis of aloe-emodin	

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
153	Gathercoal, E. N.	College Pharmacy, Univ. Illinois	Chicago, Ill.	Californian and Sicilian oil of lemon. Alcoholic extractive of vegetable drugs. Color terminology and colorimetric methods of U. S. P. X and N. F. V	
154	Gerlough, T. D.	E. R. Squibb & Sons	New Brunswick, N. J.	Insulin. Pituitary preparations	See No. 3
155	Gerwey, E. G.	Wm. S. Merrell Co.	Cincinnati, Ohio	Blood-clotting material	See No. 59
156	Gibson, N.	Sterling Chemistry Lab., Yale, Univ.	New Haven, Conn.	Local anæsthetics	See No. 210
157	Giesy, P. M.	N. J. College Pharmacy	Newark, N. J.	Colloidal lead preparations	
158	Gilfillan, F. A.	Dept. Pharmacy, State College	Corvallis, Oregon	Tannin content of <i>Lithiocarpus densiflora</i>	See No. 11
159	Gilman, Henry	Dept. Chemistry, Iowa State College	Ames, Iowa	Local anæsthetics. Antiseptics	See Nos. 54, 106, 145, 207, 370 and 469
160	Githens, T. S.	H. K. Mulford Co.	Phila., Pa.	Snake venoms. Diphtheria toxins and antitoxins	See Nos. 58, 318 and 424
161	Gittinger, Miss G. S.	F. I. D. Admin., U. S. Dept. Agric.	Washington, D. C.	Bio-assays of ergot. Aconitine	
162	Glenn, John	H. K. Mulford Co.	Philadelphia, Pa.	Growth of <i>B. tuberculosis</i> and purifications of its metabolism products	See No. 363
163	Glover, C. C.	College Pharmacy, Univ. Mich.	Ann Arbor, Mich.	Coöperative drug assay work	
164	Glycart, C. K.	U. S. Food & Drug Lab.	Chicago, Ill.	Microchemical alkaloidal methods	See No. 338
165	Goeckel, H. J.	Private Lab.	Cranford, N. J.	Chemico - pathological and biological research	
166	Goeckel, Leah G.	Private Lab.	Cranford, N. J.	Chemico - pathological and biological research	
167	Goeller, G. M.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Calcium phosphate assays	See No. 268
168	Goldstein, I.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Carvacrol derivatives	See No. 39
169	Goldwag, J. S.	Brooklyn College Pharmacy	Brooklyn, N. Y.	Physical chemistry of U. S. P. X	See No. 310
170	Goodman, H.	Mt. Sinai Hospital	New York, N. Y.	Pharmacologic evaluation of action of ultraviolet rays upon drugs	See No. 476
171	Goodrich, F. J.	College Pharmacy, Univ. Wash.	Seattle, Wash.	A study of <i>oenanthe sarmentosa</i>	See Nos. 130 and 143
172	Gordon, S. M.	A. M. A. Laboratory	Chicago, Ill.	Non-volatile constituents of <i>Mentha citrata</i>	
173	Goulden, H.	N. J. College Pharmacy	Newark, N. J.	Nutrition	See No. 368
174	Graber, H. T.	Digestive Ferments Co.	Detroit, Mich.	Endocrines liver principles	See No. 423
175	Graham, Katharine	Dept. Chemistry, Univ. Oklahoma	Norman, Okla.	Seed pod of <i>Euphorbia marginata</i>	See No. 192
176	Grant, E. H.	U. S. Food & Drug Lab.	Baltimore, Md.	Coöperative drug assays	See No. 470
177	Grantham, R. I.	Sharp & Dohme	Baltimore, Md.	Standardization of ergot preparations	See Nos. 179, 331 and 359
178	Gray, William	Presbyterian Hospital	Chicago, Ill.	Recipe Book problems	
179	Greenwood, R. L.	Sharp & Dohme	Baltimore, Md.	U. S. P. drug assays	See No. 177
180	Griffith, Ivor	Stetson Hospital	Philadelphia, Pa.	Recipe Book problems	
181	Grill, F.	School Pharmacy, North Pacific College	Portland, Ore.	Colloidal iodine	

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
182	Groot, J. T.	Research Hospital, Univ. Illinois	Chicago, Ill.	Pharmacology of <i>Ceano- thus Americanus</i>	See No. 446
183	Grote, I. W.	Parke, Davis & Co.	Detroit, Mich.	Pituitrin	
184	Haase, W. F.	S. B. Penick & Co.	New York, N. Y.	Assay methods for botan- icals	
185	Hafer, G.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Chaulmoogra oil studies	See No. 234
186	Hagiwara, S.	Wm. S. Merrell Co.	Cincinnati, Ohio	Blood-clotting material	See No. 59
187	Hainer, M. F.	Pittsburgh College Pharmacy	Pittsburgh, Pa.	Assay of stramonium hybrids	See No. 97
188	Handy, J. A.	Larkin Co., Inc.	Buffalo, N. Y.	Diethyl phthalate and other phthalates. So- dium ricinoleate	See No. 221
189	Hansen, N. A.	Abbott Laboratories	North Chicago, Ill.	Synthetic organics	See No. 464
190	Harden, W. C.	Hynson, Westcott & Dunning	Baltimore, Md.	Ovarian products. Col- loids	See No. 118
191	Hargreaves, A. W.	Dept. Pharmacy, State College	Auburn, Ala.	Constituents of senecio	See No. 34
192	Harris, L. E.	Dept. Chemistry, Univ. Oklahoma	Norman, Okla.	Chemistry of <i>Gleditsia triacanthus</i>	See Nos. 151 and 175
193	Harrisson, J. W. E.	Phila. College Phar- macy and Science	Philadelphia, Pa.	Hydrogen dioxide as a preservative for soda water	See No. 268
194	Hart, Fanchon	College Pharmacy, Columbia Univ.	New York, N. Y.	Histology of ephedra. Official and unofficial mannas	
195	Hart, F. L.	U. S. Food & Drug Lab.	Chicago, Ill.	Thymol assays	See No. 338
196	Hart, G. W.	E. R. Squibb & Sons	New Brunswick, N. J.	Myrtolom in diabetes	See No. 3
197	Hart, M. C.	Upjohn Co.	Kalamazoo, Mich.	Ovarian constituents	See No. 208
198	Hartung, Walter	Sharp & Dohme	Baltimore, Md.	Anæsthetics. Germicidal soap relationships	See No. 358
199	Harvey, A. W.	Mellon Inst.	Pittsburgh, Pa.	Synthetic pharmaceuti- cals	See No. 22
200	Harwood, A. A.	College Pharmacy, Univ. Wis.	Madison, Wis.	Monarda problems	See No. 251
201	Haskell, C. C.	Med. College of Vir- ginia	Richmond, Va.	Pharmacology of digitalis, caffeine and morphine	
202	Haun, R. M.	Mellon Inst.	Pittsburgh, Pa.	General pharmacology	See No. 396
203	Havenhill, L. D.	College Pharmacy, Univ. Kansas	Lawrance, Kan.	Kansas podophyllum	See Nos. 41, 377, 422 and 429
204	Herbst, P. M.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Ephedrine studies	See No. 234
205	Hess, F. G.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles	See No. 39
206	Hewitt, H. G.	College Pharmacy, Univ. Buffalo	Buffalo, N. Y.	Chemistry of <i>Monarda punctata</i> . Chemo- therapeutic problems	See Nos. 38 and 133
207	Hewlett, A. P.	Dept. Chemistry, State College	Ames, Iowa	Antipyretics and anæ- sthetics	See No. 159
208	Heyl, F. W.	Upjohn Co.	Kalamazoo, Mich.	Ovarian constituents	See Nos. 79, 89, 197 and 421
209	Hilbert, G. E.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Germicides	See No. 234
210	Hill, A. J.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Local anæsthetics, hyp- notics, etc.	See Nos. 166, 345, 371 and 416
211	Hilton, S. L.	Retail Pharmacy	Washington, D. C.	N. F. revision problems	
212	Hirose, Miss R. S.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Chemistry of <i>Hydrastis canadensis</i>	See No. 263
213	Hjort, A. M.	Parke, Davis & Co.	Detroit, Mich.	Parathyroid glands and calcium metabolism	
214	Hogstad, A.	St. Louis College Pharmacy	St. Louis, Mo.	Photomicrographic study of distribution and na- ture of volatile oils. Drug plant cultiva- tion	

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
215	Holiday, H. A.	E. R. Squibb & Sons	New Brunswick, N. J.	Vitamins	See No. 3
216	Hollander, S.	Maryland Pharm. Co.	Baltimore, Md.	Research in the field of distribution	See No. 321
217	Holmes, A. D.	E. L. Patch Co.	Boston, Mass.	Vitamines and nutritional diseases	
218	Hoskins, J. D.	Zemmer Co.	Pittsburgh, Pa.	Coöperative drug assay work	See No. 470
219	Houseman, P. A.	MacAndrews and Forbes Co.	Camden, N. J.	Constituents of licorice root and extract	
220	Howard, J. W.	Dept. Chemistry, Univ. Montana	Missoula, Montana	Alcohols containing the tribrom-methyl group	
221	Hoyt, L. F.	Larkin Co., Inc.	Buffalo, N. Y.	Diethyl phthalate and other phthalates	See No. 188
222	Hsueh, C. M.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Optically active hypnotics	See No. 296
223	Hughes, E. J.	Eli Lilly & Co.	Indianapolis, Ind.	Pharmaceutical products	See No. 30
224	Hunsberger, A.	Retail pharmacy	Philadelphia, Pa.	Research in the field of distribution	See No. 321
225	Huntoon, F. M.	H. K. Mulford Co.	Glenolden, Pa.	Bacterial antibodies. Scarlet fever antitoxin	See No. 363
226	Husa, W. J.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Study of the rancidity of ointments. Disintegration of tablets	See Nos. 129 and 227
227	Husa, Lydia M.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Study of the rancidity of ointments	See No. 226
228	Husted, H. G.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles Selenazoles	See No. 39
229	Hutchinson, W. J.	College Pharmacy, Detroit Inst. Technology	Detroit, Mich.	Assay of sulphur in ointments	
230	Ingrum, J. L.	Dept. Pharmacy, State Coll.	Auburn, Ala.	Assay method for phosphorated oils	See No. 34
231	Ireland, E. J.	School Pharmacy, Univ. Wisconsin	Madison, Wis.	History of pharmacy in Wisconsin. Echinacea	See No. 257
232	Jayne, Leslie	College Pharmacy, Columbia Univ.	New York, N. Y.	Syrup of ferrous iodide	See No. 7
233	Johnson, C. W.	College Pharmacy, Univ. Wash.	Seattle, Wash.	U. S. P. revision problems	
234	Johnson, Treat B.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Germicidal principles. Synthesis of alkaloids of the ephedrine type. Tuberculosis problems	See Nos. 20, 185, 204, 209 and 284
235	Jones, W. S.	E. R. Squibb & Sons	Brooklyn, N. Y.	Vitamins A and D	See No. 273
236	Jordan, C. B.	College Pharmacy, Purdue Univ.	Lafayette, Ind.	Emulsions. <i>Verbena hastata</i>	See No. 488
237	Jurist, A. E.	E. R. Squibb & Sons	Brooklyn, N. Y.	Synthesis of antisiphilitic chemicals	See No. 73
238	Kamm, Oliver	Parke, Davis & Co.	Detroit, Mich.	Chemical study of pituitrin. Diuretics	
239	Kamm, W. F.	Parke, Davis & Co.	Detroit, Mich.	Ephedrine. Synthetic antiseptics	
240	Kapp, J. F.	Dept. Pharmacy, No. Pacific College	Portland, Oregon	Action of "Moripithel"	See No. 392
241	Keach, DeW. T.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Hypnotics and barbituric acid derivatives	
242	Keelan, H. S.	E. R. Squibb & Sons	Brooklyn, N. Y.	Colloidal metals as germicides	See No. 73
243	Keenan, G. L.	F. I. D. Admin., U. S. Dept. Agric.	Washington, D. C.	Optical crystallographic properties of ephedrine and other alkaloids	
244	Kelley, R. S.	Mass. College Pharmacy	Boston, Mass.	Colorimetric assay of morphine in paregoric	See No. 2
245	Kelly, E. F.	A. P. H. A. Offices	Baltimore, Md.	U. S. P. revision problems	
246	Kelsey, E. B.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Amino benzyl alcohol and its derivatives	

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
247	Kester, E. B.	Sharp & Dohme	Baltimore, Md.	Blood pressors. Anti-spasmodics	See No. 358
248	Kilmer, F. B.	Johnson & Johnson	New Brunswick, N. J.	The mydriatic solanums	
249	Kimmel, J. C.	Dept. Pharmacy, State College	Corvallis, Oregon	Determination of santonin in mixtures	See No. 56
250	Kinsey, G. W.	G. F. Harvey Co.	Saratoga Springs, N. Y.	Coöperative drug assay work	See No. 470
251	Klarmann, E.	Lehn & Fink, Inc.	Bloomfield, N. J.	Relationship between constitution and anti-septic action	See Nos. 105 and 455
252	Knapp, John	College Pharmacy, Univ. Wis.	Madison, Wis.	Indicators for alkaloidal titrations	See No. 467
253	Kober, P. A.	G. D. Searle & Co.	Chicago, Ill.	Arsenicals. Epinephrin	See Nos. 255, 384 and 391
254	Koch, J. A.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	General pharmaceutical problems	
255	Korn, Theodore	G. D. Searle & Co.	Chicago, Ill.	Arsenicals	See No. 253
256	Krantz, J. C.	Sharp & Dohme	Baltimore, Md.	Electrometric evaluation of vegetable drugs. Influence on pH on emulsification. Effect of light on certain galenicals. Effect of insulin on seedlings of <i>Lupinus albus</i>	See No. 64
257	Kremers, Edward	College Pharmacy, Univ. Wis.	Madison, Wis.	Phytochemical and bibliographical research	See Nos. 35, 49, 70, 76, 96, 113, 147, 200, 231, 298, 420 and 485
258	Kunke, W. F.	U. S. Food & Drug Lab.	Chicago, Ill.	Assay methods for chloroform and carbon tetrachloride	See No. 338
259	Kyser, E. V.	College Pharmacy, Univ. N. C.	Chapel Hill, N. C.	Cultivation of <i>Mentha</i> species. Menhaden fish oil. Behavior of certain eutectics in oil solution	See No. 305
260	Lacey, H. T.	Mellon Inst.	Pittsburgh, Pa.	Licorice	See No. 22
261	Lakey, R. T.	College Pharmacy, Univ. Mich.	Ann Arbor, Mich.	Local anesthetics in the pyrrole series	See No. 36
262	Lange, N. A.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Quinazolines	See No. 39
263	Langenhan, H. A.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Goulard's extract. Assay for compound solution of hydrastine	See Nos. 48, 60, 212, 272 and 417
264	Lanwermyer, C. F.	Abbott Laboratories	No. Chicago, Ill.	Pharmaceutical investigations	See No. 464
265	Larson, Frances	College Pharmacy, Univ. Minn.	Minneapolis, Minn.	Educational Research	See No. 480
266	Lascoff, J. L.	Retail Pharmacy	New York, N. Y.	Recipe Book problems. Prescription incompatibilities	
267	Lauter, W. M.	E. R. Squibb & Sons	Brooklyn, N. Y.	Synthesis of glycerides. Synthesis of anti-syphilitic chemicals	See No. 73
268	LaWall, C. H.	Phila. College Pharmacy and Science	Philadelphia, Pa.	U. S. P. and N. F. revision problems	See Nos. 13, 23, 40, 63, 83, 167, 193, 279, 304, 310, 332, 339, 383, 385, 390, 472 and 482
269	LeBlanc, F.	Div. Pharmacy, State College	Brookings, S. D.	Culture and chemistry of South Dakota belladonna	
270	Lee, C. O.	College Pharmacy, Purdue Univ.	Lafayette, Ind.	Enteric coating for capsules	See No. 463

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
271	Lee, Frank	College Pharmacy, Univ. Wash.	Seattle, Wash.	Manufacture of medicinal nitrates	See No. 288
272	Lehman, Arnold	College Pharmacy, Univ. Wash.	Seattle, Wash.	Oils of the northwestern pines. Magma of magnesia	See No. 263
273	Leigh, T. R.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	The terpenes	
274	Lemon, A. B.	College Pharmacy, Univ. Buffalo	Buffalo, N. Y.	Personnel work with pharmacy students	
275	Leonard, G. F.	E. R. Squibb & Sons	New Brunswick, N. J.	Testing of disinfectants and biologicals	See No. 3
276	Lewis, J. B.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Digitalis testing	See No. 460
277	Lichthardt, G. H. P.	Chemical Lab.	Sacramento, Cal.	Phosphorus content of seed oils. Solution of magnesium citrate	
278	Lloyd, J. U.	Lloyd Bros.	Cincinnati, Ohio	Phytochemical problems. Absorption problems in pharmacy	
279	Lo, Doris	Phila. College Pharmacy and Science	Philadelphia, Pa.	International extract of belladonna leaves	See No. 268
280	Loewe, G.	College of City of Detroit	Detroit, Mich.	Preservation of solution of magnesium citrate	
281	Lofgren, F. V.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Local anæsthetics of the alkyl aminobenzoates	See No. 288
282	Lott, W. A.	E. R. Squibb & Sons	Brooklyn, N. Y.	Low temperature distillation	See No. 73
283	Lovell, H. W.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Bioassay of digitalis	See No. 82
284	Low, G. H.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Germicides	See No. 234
285	Lowary, Carl	Frederick Stearns & Co.	Detroit, Mich.	Benzyl compounds. Insulin	
286	Luce, E. L.	Mass. College Pharmacy	Boston, Mass.	Testing emulsions for germicidal activity	See No. 136
287	Lund, T. R.	Mass. College Pharmacy	Boston, Mass.	Lactic acid tests	See No. 47
288	Lynn, E. V.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Reactions of nitrosyl chloride on organic compounds. Chemistry of northwestern plants	See Nos. 15, 210, 281, 361, 365 and 369
289	Lyons, Edward	Parke, Davis & Co.	Detroit, Mich.	Organic mercurials. Organic bismuth compounds	
290	Macht, D. I.	Hynson, Westcott & Dunning	Baltimore, Md.	General pharmacological research	
291	MacSata, W. J.	College Pharmacy, Columbia Univ.	New York, N. Y.	Ash determinations	See No. 12
292	MacTavish, W. C.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles	See No. 39
293	Mansfield, R. J.	Davies, Rose & Co.	Boston, Mass.	Radiopaque diagnostic preparations	
294	Marcovitz, E. B.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Bioassay of digitalis hybrids	See No. 97
295	Marion, S. J.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Volatile oils	See No. 39
296	Marvel, C. S.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Anæsthetics. Organic lead compounds. Hypnotics	See Nos. 99, 222, 308, 404 and 377
297	Masucci, P.	H. K. Mulford Co.	Glenolden, Pa.	Chemistry of diphtheria antitoxin	See No. 363
298	Matlack, M. B.	College Pharmacy,	Madison, Wis.	Pigments of orange peel	See No. 257
299	Mathews, A. O.	Parke, Davis & Co.	Detroit, Mich.	Stability of ampulled products. Pharmacopœial assays	
300	Mayer, A. K.	Kiefer-Stewart Co.	Indianapolis, Ind.	Research in the field of distribution	See No. 321

Index

<i>No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
301	Mayer, J. L.	Liggett Lab.	New York, N. Y.	Problems in the analytical chemistry of the U. S. P.	See Nos. 1, 169 and 382
302	McAlpine, K. L.	H. K. Mulford Co.	Philadelphia, Pa.	Bacterial derivatives. Pollen extracts	See No. 363
303	McCausland, H.	Abbott Laboratories	No. Chicago, Ill.	Pharmaceutical investigations and assays	See No. 464
304	McCormick, Elizabeth	Phila. College Pharmacy and Science	Philadelphia, Pa.	Mercuric iodide assays	See No. 268
305	McLaughlin, J. M.	College Pharmacy, Univ. N. C.	Chapel Hill, N. C.	Soaps. Aromatic waters. Tincture of digitalis. Density of tinctures and fluidextracts	See No. 259
306	McMeans, E.	Pitman Moore Co.	Indianapolis, Ind.	U. S. P. galenicals. Absorption products	See No. 144
307	McRoberts, L. H.	State Food and Drug Lab.	Bismarck, N. D.	Alcohol assays	
308	Merchant, R.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Beta-vinyl piperidine	See No. 296
309	Mikeska, V. J.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Oxazoles and phenyl ethers	See No. 39
310	Miller, Ruth E.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Lactic acid as a preservative	See No. 268
311	Moede, Rube B.	College Medicine, Univ. Tenn.	Memphis, Tenn.	Influence of fluorides on the calcium balance	See No. 37
312	Mollett, C. E. F.	College Pharmacy, Univ. Montana	Missoula, Mont.	Chemistry of gold thread	
313	Moraw, H. C.	Swan-Myers Co.	Indianapolis, Ind.	Ephedrine assays. Morphine assays	
314	Morrell, J. A.	E. R. Squibb & Sons	New Brunswick, N. J.	Manufacture of insulin. Myrtomel in diabetes	See No. 3
315	Moss, L. J.	Dept. Pharmacy, State College	Corvallis, Oregon	Assay of trional mixtures	See No. 56
316	Murphy, F. J.	Mellon Inst.	Pittsburgh, Pa.	General chemical problems	See No. 396
317	Murray, A. G.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Analytical drug chemistry	
318	Nadler, J. E.	H. K. Mulford Co.	Glenolden, Pa.	Diphtheria toxin and antitoxin	See No. 160
319	Naiman, B.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles	See No. 39
320	Needham, G. H.	E. R. Squibb & Sons	Brooklyn, N. Y.	Alkaloidal assays, colloidal solutions and colloidal particles	
321	Newcomb, E. L.	National Wholesale Druggists Asscn.	New York, N. Y.	Research in the field of distribution. Standards for vegetable drugs	See Nos. 131, 139, 216, 224, 300, 325, 329, 340 and 474
322	Nichols, A. B.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Density of fluidextracts. Fluidextract of ipecac	
323	Nickel, A. F.	Dept. Pharmacy, State College	Auburn, Ala.	Assay for compound solution of sodium phosphate	See No. 34
324	Nielsen, F. A.	Dept. Pharmacy, State College	Corvallis, Oregon	Oil of California laurel	See No. 56
325	Noel, H. S.	Eli Lilly & Co.	Indianapolis, Ind.	Research in the field of distribution	See No. 321
326	North, H. B.	Parke, Davis & Co.	Detroit, Mich.	Parathyroid glands and calcium metabolism	
327	Nyiri, W.	New Jersey College Pharmacy	Newark, N. J.	Germicides	See No. 368
328	Oakdale, U. O.	College Pharmacy, Univ. Mich.	Ann Arbor, Mich.	Bismuth tartrates	See No. 36
329	Olsen, P. C.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Research in the field of distribution	See No. 321
330	Olson, Nina	Div. Pharmacy, State College	Brookings, S. D.	Para-dichlorobenzene as insecticide	See No. 401

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
331	Orrison, J. H.	Sharp & Dohme	Baltimore, Md.	Determination of moisture in U.S.P. products	See No. 177
332	Osol, Arthur	Phila. College Pharmacy and Science	Philadelphia, Pa.	Fractional precipitation of fatty acids with oxalic acid	See No. 268
333	Osterwise, H. L.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of veratrum on small crustaceæ	See No. 97
334	Palen, Henry	Frederick Stearns & Co.	Detroit, Mich.	Digestive ferments	
335	Palkin, S.	Bureau of Chemistry	Washington, D. C.	Analytic drug chemistry	
336	Papper, T. F.	U. S. Food & Drug Lab.	Baltimore, Md.	Coöperative drug assay work	See No. 470
337	Parechan, K. A.	Mass. College Pharmacy	Boston, Mass.	Effect of acids on extraction of nux vomica	See No. 47
338	Paul, A. E.	U. S. Food & Drug Lab.	Chicago, Ill.	Drug identifications and assays	See Nos. 164, 195, 258, 372 and 441
339	Paul, C. H.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Mercuric iodide assays	See No. 268
340	Pauley, A. W.	St. Louis College Pharmacy	St. Louis, Mo.	Survey of drug store conditions	See No. 321
341	Paxson, W. H.	H. K. Mulford Co.	Glenolden, Pa.	Bacterial toxins	See No. 363
342	Payne, W.	H. K. Mulford Co.	Glenolden, Pa.	Testing germicides. Germicidal value of mercurophen	See No. 363
343	Peacock, Bertha L. DeG.	Private Lab.	Philadelphia, Pa.	Tannin of <i>Geranium maculatum</i>	See No. 344
344	Peacock, J. C.	Private Lab.	Philadelphia, Pa.	Potassium chlorate—tincture of iron prescriptions	See No. 343
345	Pfund, Marion	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Iodine compounds	See No. 210
346	Phillips, I. E.	College Medicine, Univ. Tenn.	Memphis, Tenn.	Acetone elimination in a fasting man	See No. 37
347	Pittenger, P. S.	Sharp & Dohme	Baltimore, Md.	Biological assay problems	
348	Pittenger, W. H.	W. S. Merrell Co.	Cincinnati, Ohio	Radiation. Ricinoleic acid	See No. 59
349	Pitz, Walter	Frederick Stearns & Co.	Detroit, Mich.	Insulin. Bio-assays	
350	Plitt, C. C.	College Pharmacy, Univ. Maryland	Baltimore, Md.	Lichens on official barks. Official abbreviations	
351	Powers, H. H.	E. R. Squibb & Sons	New Brunswick, N. J.	Ovarian hormones	See No. 3
352	Powers, J. L.	Dept. Pharmacy, Univ. Michigan	Ann Arbor, Mich.	Chemistry of pyrrole	See No. 36
353	Prather, E. O., Jr.	College Medicine, Univ. Tenn.	Memphis, Tenn.	Lactic acid content of muscle	See No. 37
354	Price, D.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Acetophenone	See No. 39
355	Quici, A.	H. K. Mulford Co.	Philadelphia, Pa.	Rate of deterioration of digitalis preparations	See No. 363
356	Ralston, A. W.	Armour & Co.	Chicago, Ill.	Isoelectric precipitation of pepsin	See No. 135
357	Raubenheimer, Otto	Retail pharmacy	Brooklyn, N. Y.	Prescription problems. Historical pharmacy	
358	Read, R. R.	Sharp & Dohme	Baltimore, Md.	Respiratory and intestinal bacteriostats. Effect of phenol structure on germicidal activity. Petroleum hydrocarbon derivatives	See Nos. 198 and 247
359	Reddick, G. A.	Sharp & Dohme	Baltimore, Md.	Stability of cod-liver oil vitamins to certain reagents	See No. 177
360	Reed, H. L.	Massachusetts College Pharmacy	Boston, Mass.	<i>Viburnum nudum</i> , var. <i>angustifolium</i>	See No. 483

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
361	Reekie, R. D.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Extracts of salal in hyperglycemia	See No. 288
362	Rees, Edward	Phila. College Pharmacy and Science	Philadelphia, Pa.	Solution of magnesium citrate	See No. 82
363	Reichel, John	H. K. Mulford Co.	Glenolden, Pa.	Research in biologicals and in phytochemistry. Rabies immunization	See Nos. 16, 72, 88, 124, 162, 225, 297, 302, 341, 342, 355, 374 and 452
364	Rhodehamel, H. W.	Eli Lilly & Co.	Indianapolis, Ind.	Chemical, biological and pharmacological research	
365	Richards, L.	College Pharmacy, Univ. Washington	Seattle, Wash.	Volatile oil of <i>Ceanothus velutinus</i>	See No. 288
366	Richtmann, W. O.	School Pharmacy, Univ. Wisconsin	Madison, Wis.	Pharmacographia Americana	See No. 31
367	Rider, T. H.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Local anaesthetics	
368	Riggs, L. K.	New Jersey College Pharmacy	Newark, N. J.	Studies of anaesthesia	See Nos. 100, 173 and 327
369	Rising, L. W.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Interferences in toxicological investigations	See No. 288
370	Robinson, J. D.	Dept. Chemistry, State College	Ames, Iowa	Organo-lead compounds	See No. 159
371	Robinson, Paul	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Local anaesthetics of the naphthalene series	See No. 210
372	Roe, R. S.	U. S. Food & Drug Lab.	Chicago, Ill.	Assay of mercury compounds	See No. 338
373	Rogers, C. H.	College Pharmacy, Univ. Minnesota	Minneapolis, Minn.	Action of ethylene on glucosidal and alkaloidal plants	See Nos. 52 and 103
374	Roos, C.	H. K. Mulford Co.	Glenolden, Pa.	Activity of pollen extracts	See No. 363
375	Rosin, Joseph	Powers-Weightman-Rosengarten Co.	Philadelphia, Pa.	Standardization of medicinal and reagent chemicals	See No. 127
376	Ross, V.	Bureau of Lab., Dept. Health	New York, N. Y.	Immunization (<i>per os</i>) to pneumonia	
377	Rottluff, K. M.	College Pharmacy, Univ. Kansas	Lawrence, Kan.	Defatted digitalis	See No. 203
378	Rowe, L. W.	Parke, Davis & Co.	Detroit, Mich.	Bio-assay methods	
379	Ruckel, C. A.	Medical College, Univ. Tenn.	Memphis, Tenn.	Kava-Kava	See No. 37
380	Rudd, W. F.	Medical College, Virginia	Richmond, Va.	Educational research	
381	Rusby, H. H.	College Pharmacy, Columbia Univ.	New York, N. Y.	Medical flora of South America	
382	Russell, G. P.	Brooklyn College Pharmacy	Brooklyn, N. Y.	Physical chemistry of U. S. P. X	See No. 301
383	Saburo, Kitamura	Phila. College Pharmacy and Science	Philadelphia, Pa.	Assay of ferric chloride solution	See No. 268
384	Safford, Bigelow	G. D. Searle & Co.	Chicago, Ill.	Epinephrin	See No. 253
385	Sahagian, Paul	Phila. College Pharmacy and Science	Philadelphia, Pa.	Assay of molybdenum ore	See No. 268
386	Salzberg, H. K.	Mellon Inst.	Pittsburgh, Pa.	Rosin and turpentine	See No. 22
387	Saxer, R. A.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of belladonna upon certain crustaceæ	See No. 97
388	Schaefer, H. H.	College Pharmacy, Columbia Univ.	New York, N. Y.	Stability of spirit of nitrous ether	
389	Schaeffer, H. J.	Private Laboratory	New Brunswick, N. J.	Cytolytic effect of soap	
390	Schmiege, J. H., Jr.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Fractional precipitation of fatty acids in a fixed oil	See No. 268
391	Schmitt, Philip	G. D. Searle & Co.	Chicago, Ill.	Analytic methods	See No. 253
392	Schneider, Albert	School Pharmacy, North Pacific College	Portland, Ore.	Therapeutic action of drugs. Bio-assay methods	See Nos. 81, 104, 240 and 426

Index

<i>No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
393	Schuellbach, W.	Phila. College Pharmacy and Science	Philadelphia, Pa.	U. S. P. solubilities	See No. 82
394	Schoetzow, R. E.	E. R. Squibb & Sons	Brooklyn, N. Y.	Analysis of pharmaceuticals	
395	Schurch, C. F.	Tailby-Nason Co.	Boston, Mass.	Vitamins of cod-liver oil	
396	Schwartz, E. W.	Mellon Inst.	Pittsburgh, Pa.	General pharmacological research	See Nos. 202 and 316
397	Schwoch, G.	E. R. Squibb & Sons	New Brunswick, N. J.	Myrtomel in diabetes	See No. 3
398	Schwoob, F. R.	Dept. Pharmacy, State College	Corvallis, Oregon	Assays of emulsions	See No. 56
399	Scoville, W. L.	Parke, Davis & Co.	Detroit, Mich.	U. S. P. and N. F. revision problems	
400	Selzer, L. A.	Retail Pharmacy	Detroit, Mich.	U. S. P. and N. F. revision problems	
401	Serles, E. R.	School Pharmacy, State College	Brookings, S. D.	Anthelmintic properties of certain hybrids of chenopodium	See Nos. 4, 122, 269 and 380
402	Sevag, M. G.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles	See No. 39
403	Seybert, J. E.	Eli Lilly & Co.	Indianapolis, Ind.	Pharmaceutical manufacturing problems	See No. 30
404	Shelton, R. S.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Local anaesthetics	See No. 296
405	Shinahara, K.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Digitalis. Glucosides.	See No. 460
406	Shippin, L. P.	Norwich Pharmacy Co.	Norwich, N. Y.	Antiseptics and germicides	See No. 419
407	Shkolnik, S.	College Pharmacy, Univ. Illinois	Chicago, Ill.	Standardization of <i>Liquor Antisepticus</i> and <i>Liquor Antisepticus Alkalinus</i>	
408	Shonle, H. A.	Eli Lilly & Co.	Indianapolis, Ind.	Local anaesthetics	
409	Shull, H. H.	Robert McNeil	Philadelphia, Pa.	Assay methods for ampuls	See No. 457
410	Simond, A. E.	Parke, Davis & Co.	Detroit, Mich.	Ovarian hormones. Active principles of the pituitary	See No. 55
411	Slater, H. P.	Pitman, Moore Co.	Indianapolis, Ind.	Liver extract. Higher phenols	See No. 144
412	Slothower, G. A.	H. K. Mulford Co.	Glenolden, Pa.	Stabilization of tincture of digitalis. Ephedrine	
413	Smith, Carl	College of City of Detroit	Detroit, Mich.	Mercury and lanolin	
414	Smith, F. D.	College Pharmacy, Univ. Michigan	Ann Arbor, Mich.	Arseno-organics	See No. 36
415	Smith, R. B.	E. R. Squibb & Sons	Brooklyn, N. Y.	Stability of tinctures and fluidextracts	See No. 73
416	Smith, W. W.	Sterling Chem. Lab., Yale Univ.	New Haven, Conn.	Local anaesthetics	See No. 210
417	Snidow, Harriet V.	College Pharmacy, Univ. Wash.	Seattle, Wash.	Pharmaceutical study of acetyl salicylic acid	See No. 263
418	Snow, C. M.	College Pharmacy, Univ. Illinois	Chicago, Ill.	Spirits and solutions of the N. F.	See No. 450
419	Snyder, J. P.	Norwich Pharmacal Co.	Norwich, N. Y.	Analytic standards for tablets	See Nos. 28, 84 and 406
420	Sondern, C. W.	College Pharmacy, Univ. Wis.	Madison, Wis.	Non-heptane constituents of Jeffrey pine oil. Methoxycinnamic acid derivatives	See No. 257
421	Speer, John	Upjohn Co.	Kalamazoo, Mich.	Calcium metabolism	See No. 208
422	Spencer, R. B.	School Pharmacy, Univ. Kansas	Lawrence, Kan.	Extract of stramonium	See No. 203
423	Spevakow, N.	Digestive Ferments Co.	Detroit, Mich.	Pituitary hormone	See No. 174
424	Stadelman, R. E.	H. K. Mulford Co.	Glenolden, Pa.	Snake venoms and anti-venoms	See No. 160

Index

No.	Name.	Laboratory.	Town.	Subject.	Remarks.
425	Stanislaus, I. V. S.	Brooklyn College Pharmacy	Brooklyn, N. Y.	Synthesis of perfume chemicals	
426	Stanley, L. L.	Medical School, No. Pacific College	Portland, Oregon	Action of "novipithel"	See No. 392
427	St. Clair, R. W.	Mass. College Pharmacy	Boston, Mass.	Investigation of an undetermined species of <i>Picramnia</i>	See No. 47
428	Steele, F. J.	Retail Pharmacy	Meadville, Pa.	Microchemical detection of cocaine	
429	Sterling, C. M.	College Pharmacy, Univ. Kansas	Lawrence, Kan.	Anatomy of Tonga	See No. 203
430	Stickel, A. E.	Hynson, Westcott & Dunning	Baltimore, Md.	Ovarian products. Organo-mercurials	See No. 118
431	Stockhaus, R. P. G.	College Pharmacy, Western Reserve Univ.	Cleveland, Ohio	Colloidal mercurial ointment	See No. 102
432	Stocking, C. H.	College Pharmacy, Univ. Michigan	Ann Arbor, Mich.	Coöperative drug assay work	
433	Stokes, S. A.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Polariscopic study of crystals in belladonna	See No. 97
434	Stoneback, W. J.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Digitalis. Micro-chemistry	See No. 460
435	Stout, E. P.	College Pharmacy, Detroit Inst. Technology	Detroit, Mich.	Color assays and standards; assay methods	
436	Stuart, E. H.	Eli Lilly & Co.	Indianapolis, Ind.	Vitamins. Ephedrine compounds	See No. 30
437	Stubblefield, H. I.	Swan-Myers Co.	Indianapolis, Ind.	Pollen extracts. Biologicals	
438	Stuhr, E. T.	Dept. Pharmacy, State College	Corvallis, Oregon	Medicinal plants of the Pacific coast	
439	Sultzberger, J. A.	Parke, Davis & Co.	Detroit, Mich.	Stability of fluidextracts	
440	Sylvester, J. L.	College of City of Detroit	Detroit, Mich.	Preservation of solution of magnesium citrate	
441	Synkovitch, F. C.	U. S. Food & Drug Lab.	Chicago, Ill.	Sabadilla assays	See No. 338
442	Tabern, D. L.	Abbott Laboratories	North Chicago, Ill.	Synthesis of medicinal chemicals	See No. 464
443	Taub, Abraham	College Pharmacy, Columbia Univ.	New York, N. Y.	Spectrophotometric studies of light-sensitive chemicals	
444	Taub, Harry	College Pharmacy, Columbia Univ.	New York, N. Y.	Quantitative microscopic methods	
445	Taylor, F. O.	Parke, Davis & Co.	Detroit, Mich.	Biological, chemical and pharmaceutical research	
446	Taylor, G. C.	Flint, Eaton & Co.	Decatur, Ill.	<i>Ceanothus Americanus</i> . Blood coagulability determinatives	See No. 182
447	Taylor, Wm.	Schiffelin & Co.	New York, N. Y.	Coöperative drug assay work	See No. 470
448	Taylor, W. S.	Dept. Chemistry, Columbia Univ.	New York, N. Y.	Thiazoles	See No. 39
449	Tendick, F. H.	Parke, Davis & Co.	Detroit, Mich.	Ovarian hormones	
450	Terry, R. E.	College Pharmacy, Univ. Illinois	Chicago, Ill.	Spirits of N. F. V	See No. 418
451	Thompson, M.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Cardiacal stimulants and depressants. Strophanthin studies. Bioassays drug determinatives	
452	Torrey, E. W.	H. K. Mulford Co.	Philadelphia, Pa.	Study of fractions of pancreas extract	See No. 363
453	Totten, H. R.	College Pharmacy, Univ. N. C.	Chapel Hill, N. C.	Cultivation of bergamot mint in North Carolina	

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
454	Twiss, D.	Hynson, Westcott & Dunning	Baltimore, Md.	Organic antiseptics	See No. 118
455	Ulrich, J. L.	Lehn & Fink	Bloomfield, N. J.	Pharmacology of potassium chlorate	See No. 251
456	Utech, P. H.	Retail Pharmacy	Meadville, Pa.	N. F. revision problems	
457	Vanderkleed, C. E.	Robert McNeil	Philadelphia, Pa.	Pharmaceutical manufacturing problems. Coöperative drug assay work	See Nos. 10 and 409
458	VanWinkle, R.	E. R. Squibb & Sons	Brooklyn, N. Y.	Peroxides in ether	See No. 73
459	Vernon, C. C.	Dept. Chemistry, Iowa State College	Ames, Iowa	Stanno-organics	
460	Viehoever, Arno	Phila. College Pharmacy and Science	Philadelphia, Pa.	Micro-analysis. Digitalis. Drug Engineering	See Nos. 68, 116, 276, 405 and 434
461	Vilbrandt, F. C.	College Pharmacy, Univ. N. C.	Chapel Hill, N. C.	Refining menhaden oil	See No. 119
462	Vliet, E. B.	Abbott Laboratories	North Chicago, Ill.	Synthesis of medicinal chemicals	See No. 464
463	Voight, J. L.	School Pharmacy, Purdue Univ.	Lafayette, Ind.	Extraction of cantharides	See No. 270
464	Volweiler, E. H.	Abbott Laboratories	North Chicago, Ill.	Problems in synthetic chemical medicaments	See Nos. 189, 264, 303, 442 and 462
465	Voorhies, P. L.	School Pharmacy, Geo. Washington Univ.	Washington, D. C.	Citric acid in acidosis. Preservation of syrup of wild cherry. Emulsion of cod liver oil	See No. 50
466	Waddell, Pearl	Medical College, Univ. Tenn.	Memphis, Tenn.	Phytolacca. Kava-Kava	See No. 37
467	Wakeman, Nellie	School Pharmacy, Univ. Wis.	Madison, Wis.	Phytochemical problems. Classification of alkaloids	See Nos. 25 and 252
468	Wales, H.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Analytic drug chemistry	
469	Wall, W. L.	Dept. Chemistry, State College	Ames, Iowa	Stanno-organic compounds	See No. 159
470	Warren, L. E.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Coöperative drug assay work	See Nos. 69, 77, 176, 218, 249, 336 and 447
471	Watkins, H. R.	F. D. I. Admin., U. S. Dept. Agric.	Washington, D. C.	Analytic drug chemistry	
472	Weeks, J. D.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Manufacture of fluidextract of cinchona U. S. P. IV to X inclusive	See No. 268
473	Weinkauff, O. J.	College Pharmacy, Univ. Mich.	Ann Arbor, Mich.	Laxatives in the phenolphthalein series	See No. 36
474	Wenzel, R. N.	Mellon Inst.	Pittsburgh, Pa.	Fatty acids	See No. 22
475	Werner, H. W.	College Pharmacy, Univ. Fla.	Gainesville, Fla.	Some Florida mints	See No. 74
476	Wimmer, C. P.	College Pharmacy, Columbia Univ.	New York, N. Y.	Use of ultra-violet rays in medical, chemical and pharmaceutical practice	See No. 170
477	Windus, W.	Dept. Chemistry, Univ. Illinois	Urbana, Ill.	Piperidine derivatives	See No. 296
478	Wirth, E. H.	College Pharmacy, Univ. Illinois	Chicago, Ill.	Pharmacognosy of <i>Ceanothus Americanus</i>	
479	Woodside, J. T.	Western Co.	Chicago, Ill.	Research in the field of distribution	See No. 321
480	Wulling, F. J.	College Pharmacy, Univ. Minnesota	Minneapolis, Minn.	Educational research problems	See No. 265
481	Wurdack, J. H.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Fluidextracts of N. F. V	
482	Young, V. T.	Phila. College Pharmacy and Science	Philadelphia, Pa.	Use of various oxidizing agents in methanol tests	See No. 268

<i>Index No.</i>	<i>Name.</i>	<i>Laboratory.</i>	<i>Town.</i>	<i>Subject.</i>	<i>Remarks.</i>
483	Youngken, H. W.	Massachusetts College Pharmacy	Boston, Mass.	Morphology of Aconite species. <i>Viburnum nudum</i> . U. S. P. revision problems	See No. 360
484	Yavorski, M. A.	College Pharmacy, Univ. Pittsburgh	Pittsburgh, Pa.	Action of nux vomica on small crustaceæ	See No. 97
485	Zeiger, S. L.	College Pharmacy, Univ. Wis.	Madison, Wis.	Non-volatile constituents of <i>Monarda fistulosa</i> . Thymoquinone derivatives	See No. 257
486	Zeigler, W. H.	Pharmacy Dept., Medical College, South Carolina	Charleston, S. C.	Pharmacology of iodine ointments	
487	Zindler, F. L.	College of City of Detroit	Detroit, Mich.	Decomposition factors of protein and iron	
488	Zufall, C. J.	College Pharmacy, Purdue Univ.	Lafayette, Ind.	Constituents of <i>Verbena hastata</i>	See No. 236

COLLAPSIBLE ALUMINUM TUBES.

In a letter from Aluminium-Beratungsstelle to *Der Parfumeur*, through *Seifensiederztg.* 55, 50 (1928), No. 20, through *The Squibb Abstract Bulletin*, June 20, 1928, the statements of J. Augustin in an earlier issue of the *Seifensiederztg.*, in which he gives an unfavorable report on tin-lined lead or aluminum tubes, are refuted. Strauss has subsequently corrected this erroneous report in regard to the lead tubes. The Aluminium-Beratungsstelle now adds their further corrections of the statements referred to. They state that the Fenag-tube has been meanwhile produced just as soft as the pure tin tubes. Furthermore, the protective coating afforded by a neutral artificial resin is chemically changed during the "burning-in" process in such a way that solution of the inner coating (which Augustin assumes) becomes an impossibility. Heat and bending likewise do not chip off the inner coating. Consequently, preparations in such aluminum tubes do not suffer in the least as regards aroma, color and consistency. Such aluminum tubes with an inner lining are thus completely equivalent to the pure tin tubes.

NEWTON, MASS., REFUSES FOOD LICENSE TO DRUG STORES.

The City Board of Newton recently approved of the report of the Franchises and Licenses Committee refusing to grant common victualler's licenses to the Liggett Drug Stores at Newton Corner and West Newton. Recently drug stores in this city have started to

serve food at the soda fountains, and the Liggett Company, apparently desiring to conform with the law, sought legal right to pursue this practice. It is evident that the aldermen do not believe that a combination drug store and lunch room is to be desired.

INTERNATIONAL PHARMACEUTICAL FEDERATION.

The sessions of the International Pharmaceutical Federation were held during the Jubilee meeting of the National Association of Pharmaceutical Syndicates of France, July 10-12. The program provided for the President's address and reports of other officers and committees and discussion of a number of papers. Report on formulas of international importance was made by Messrs. Herissey, Greenish and Begium. That on melting and boiling points was made by Prof. Dr. Eder and Prof. Dr. Schoorl. Prof. Dr. Tiffeneau reported on biologic standards for digitalis preparations, and Prof. Dr. Wasicky on standards for drugs of lesser activities.

Much important business was transacted and despite the excessively high temperature the social functions were carried out and the visitors expressed appreciation of the efficiency and excellence of the hospitality and arrangements for the meetings.

Our honorary member, J. J. Hofman, expressed the greetings and interest of the AMERICAN PHARMACEUTICAL ASSOCIATION. Further report of the meeting will be made. Stockholm was chosen for the 1930 meeting.