1948-49 Committees

MORE committee appointments for the coming year are announced by C. P. Long, president of the Society, who is with Procter and Gamble Company, Cincinnati. These supplement the lists published in the July issue and will be followed in the September issue with more appointments. All will be published again in the forthcoming 1948 edition of the membership directory.

Advertising

Norman A. Ruston, chairman, Emery Industries inc., Cincinnati, O.
H. C. Bennett, Los Angeles Soap Company, Los Angeles, Calif.
E. H. Chapin, Foster Wheeler Corporation, New York City
H. C. Dormitzer, Wilson and Company, Chicago, Ill.
A. G. Hovey, General Mills inc., Minneapolis
W. Doss Lumpkin, Filtrol Corporation, Los Angeles, Calif.
H. H. Mueller, Lever Brothers Company, Cambridge, Mass.
Henry Odeen, Bennett-Clark Company, Nacogdoches, Tex.
Ralph H. Potts, Armour and Company, Chicago, Ill.
P. E. Ronzone, C. F. Simonin's Sons inc., Philadelphia, Pa.
Procter Thomson, Procter and Gamble Company, Cincinnati, O.

Bleaching Methods

R. A. Marmor, chairman, A. E. Staley Manufacturing Company, Decatur, Ill.
R. W. Bartlett, Barrow-Agee Laboratories, Memphis, Tenn.
E. B. Freyer, Spencer Kellogg and Sons inc., Buffalo, N. Y.
Duncan Macmillan, Northern Regional Research Laboratory, Peoria, Ill.
A. D. Rich, Filtrol Corporation, Los Angeles, Calif.
T. C. Smith, Central Soya Company inc., Decatur, Ind.

Journal

R. T. Milner, chairman, Northern Regional Research Laboratory, Peoria, Ill.
A. E. Bailey, Girdler Corporation, Louisville, Ky.
A. R. Baldwin, Corn Products Refining Company, Argo, Ill.
E. R. Barrow, Barrow-Agee Laboratories, Memphis, Tenn.
B. W. Beadle, George W. Gooch Laboratories, Los Angeles, Calif.
H. C. Dormitzer, Wilson and Company, Chicago, Ill.
N. C. Hamner, Southwestern Laboratories, Dallas, Tex.
Edward Handschumaker, Lever Brothers Company, Cambridge, Mass.
T. L. Rettger, Buckeye Cotton Oil Company, Memphis, Tenn.
J. J. Vollertsen, 1414 Norwood street, Chicago, Ill.

Refining

H. S. Mitchell, chairman, Swift and Company, Chicago, Ill.
E. M. James, vice chairman, Lever Brothers Company, Cambridge, Mass.
G. A. Crapple, Wilson and Company, Chicago, Ill.
M. M. Durkee, A. E. Staley Manufacturing Company, Decatur, Ill.
O. J. Fiala, Durkee Famous Foods, Chicago, Ill.
E. B. Freyer, Spencer Kellogg and Sons inc., Buffalo, N. Y.
D. L. Henry, Law and Company, Atlanta, Ga.
G. W. Holman, Procter and Gamble Company, Cincinnati, O.
A. A. Kiess, Armour Laboratories, Chicago, Ill.
R. R. King, Mrs. Tucker's Foods inc., Sherman, Tex.
N. F. Kruse, Central Soya Company inc., Decatur, Ind.
J. R. Mays, Jr., Barrow-Agee Laboratories, Memphis, Tenn.
R. T. Milner, Northern Regional Research Laboratory, Peoria, Ill.
H. E. Moore, Capital City Products Company, Columbus, O.
S. O. Sorensen, Archer-Daniels-Midland Company, Minneapolis, Minn.
E. H. Tenent, Woodson-Tenent Laboratories, Memphis, Tenn.

Seed and Meal Analysis

T. H. Hopper, chairman, Southern Regional Research Laboratories, New Orleans, La.
E. C. Ainslie, Buckeye Cotton Oil Company, Atlanta, Ga.
R. E. Anderson, Archer-Daniels-Midland Company, Minneapolis, Minn.
L. R. Brown, A. E. Staley Manufacturing Company, Decatur, Ill.

F. I. Collins, U. S. Regional Soybean Laboratory, Urbana, Ill.
C. H. Cox, Barrow-Agee Laboratories, Memphis, Tenn.
E. B. Freyer, Spencer Kellogg and Sons inc., Buffalo, N. Y.
T. C. Law, Law and Company, Atlanta, Ga.
R. S. McKinney, U. S. Tung Oil Laboratory, Gainesville, Fla.
V. C. Mehlenbacher, Swift and Company, Chicago, Ill.
T. J. Potts, Ralston Purina Company, St. Louis, Mo.
T. L. Rettger, Buckeye Cotton Oil Company, Memphis, Tenn.
T. C. Smith, Central Soya Company inc., Decatur, Ind.

Subcommittees

Screen Test for Soyflour

L. R. Brown, chairman
R. E. Anderson
M. W. Dippold
F. R. Earle
E. B. Freyer
W. F. Geddes
J. K. Gunther

Crude Fiber in Soyflour

R. E. Anderson, chairman
L. R. Brown
W. F. Geddes
J. K. Gunther
V. C. Mehlenbacher
T. J. Potts

Water Absorption of Soyflour

V. C. Mehlenbacher, chairman
L. R. Brown
J. K. Gunther
M. L. Laing

Lecithin in Soyflour

F. I. Collins, chairman
F. R. Earle
W. D. Pohle
T. J. Potts

Sampling Soyflour

M. W. Dippold, chairman
L. R. Brown
Leonard Gerhart
T. C. Smith

Analysis of Copra Meal

R. E. Anderson, chairman
W. J. Goodrum
C. A. Lathrap
D. F. Maskey

Analysis of Tung Fruit and Meal

R. S. McKinney, chairman
G. W. Agee
G. F. Bailey
B. L. Caldwell
C. R. Campbell
G. C. Henry

Soap Analysis (joint with A.S.T.M.)

L. K. Whyte, chairman, Colgate-Palmolive-Peet Company, Kansas City, Kan.
W. D. Barry, Good Housekeeping, New York City
*C. H. Bayley, National Research Council of Canada, Ottawa
H. C. Bennett, Los Angeles Soap Company, Los Angeles, Calif.
Rubin Bernstein, Industrial Test Laboratory, Philadelphia, Pa.
E. W. Blank, Colgate-Palmolive-Peet Company, Jersey City, N. J.
J. N. Borglin, Hercules Powder Company, Wilmington, Del.
*H. W. Dippel, Stillwell and Gladding, New York City
M. L. Fierke, Sears, Roebuck and Company, Chicago, Ill.
*H. Fleisher, Bureau of Ships, Washington, D. C.
C. P. Long, Procter and Gamble Company, Cincinnati, O.
L. B. Persons, Lever Brothers Company, Cambridge, Mass.
Edward Randa, Armour 31st Street Auxiliaries, Chicago, Ill.
B. N. Rockwood, Swift and Company, Chicago, Ill.
J. E. Simpson, Office of Quartermaster General, Washington, D. C.
*F. W. Smith, National Bureau of Standards, Washington, D. C.
F. D. Snell, Foster D. Snell inc., New York City
V. C. Mehlenbacher, Swift and Company, Chicago, Ill.

*A.S.T.M.

Cellulose

L. N. Rogers, chairman, Buckeye Cotton Oil Company, Memphis, Tenn.
E. C. Ainslie, Buckeye Cotton Oil Company, Atlanta, Ga.
M. G. Boulware, Southern Cotton Oil Company, Memphis, Tenn.
C. H. Cox, Barrow-Agee Laboratories, Memphis, Tenn.
W. S. Hude, Southern Chemical Cotton Company, Chattanooga, Tenn.
E. H. Tenent, Woodson-Tenent Laboratories, Memphis, Tenn.

Glycerine Analysis

J. T. R. Andrews, chairman, Procter and Gamble Company, Cincinnati, O.
H. C. Bennett, Los Angeles Soap Company, Los Angeles, Calif.
E. L. Boley, Armour and Company, Chicago, Ill.
W. C. Clark, Emery Industries inc., St. Bernard, O.
E. R. Luckow, Allen B. Wrisley Company, Chicago, Ill.
L. B. Parsons, Lever Brothers Company, Cambridge, Mass.
W. D. Pohle, Swift and Company, Chicago, Ill.
J. B. Segur, Miner Laboratories, Chicago, Ill.
L. K. Whyte, Colgate-Palmolive-Peet Company, Kansas City, Kan.

Literature Review

M. M. Piskur, chairman, Swift and Company, Chicago, Ill.
E. W. Blank, Colgate-Palmolive-Peet Company, Jersey City, N. J.
J. B. Brown, Ohio State University, Columbus, O.
W. H. Goss, Pillsbury Mills, Minneapolis, Minn.

Vitamin

N. D. Embree, chairman, Distillation Products inc., Rochester, N. Y.
H. N. Brocklesby, Borden Company, New York City
Edward Handschumaker, Lever Brothers Company, Cambridge, Mass.
R. W. Harrison, Halibut Liver Oil Producers, Seattle, Wash.
B. L. Oser, Food Research Laboratories inc., Long Island City, N. Y.
H. J. Deuel, Jr., University of Southern California, Los Angeles
J. A. Raynolds, Nopco Chemical Company, Richmond, Calif.
E. E. Rice, Swift and Company, Chicago, Ill.
Alan C. Richardson, California Packing Corporation, Emeryville
T. D. Sanford, F. E. Booth Company inc., San Francisco, Calif.
H. C. Schaefer, Ralston Purina Company, St. Louis, Mo.

HEYDEN CHEMICAL CORPORATION announced the election of Arthur B. Broadman as assistant vice president in charge of engineering for the entire corporation.

News of Other Organizations

Eighteen world famous speakers are to address the NATIONAL INDUSTRIAL CHEMICAL CONFERENCE at the Chicago Coliseum on October 12-16, 1948, according to Charles L. Thomas, chairman of the Chicago section of the American Chemical Society, sponsor of the conference and the concurrent National Chemical exposition. General subjects are chemical markets, chemistry in general industry, hazards from chemicals, management of research, frontiers of chemistry, and pilot plant use by the chemical industry.

The newly created technical bureau at the exposition will be a personal information service available to all in attendance, in charge of Ward V. Evans, retired chairman of the chemistry department of Northwestern university and now professor of chemistry at Loyola university, Chicago.

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N. R. Whitney of the Procter and Gamble Company, Cincinnati, addressed the Ninth Annual Cotton Research Congress in Dallas, Tex., on July 22 on the topic "Domestic Markets for Cottonseed and Cottonseed Products." Indicating that the first step forward for cottonseed oil was the demonstration of its usefulness for edible purposes, not for illumination, he said that another important step was the discovery of the hydrogenation process which made cottonseed oil shortening competitive with lard. A third was to show its superior quality in the manufacture of margarine, almost completely displacing coconut oil on the eve of the great expansion of the margarine industry.

"In 1947, for the first time," he said, "margarine afforded the biggest single outlet for cottonseed oil. The whole cotton and cottonseed industry has a very real stake in the battle, almost won this year, to free margarine from the discrimination which has prevailed for many years."

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September is the month set aside for the centennial meeting of the American Association for the Advancement of Science in Washington, with "One World of Science" as the theme. Dates are September 13-17. Reservations should be made through the Housing Bureau, 204 Evening Star building, Washington 4, D. C.

Among the topics of interest to chemists is the one entitled "High Polymers," for which the speakers will be Hubert M. James, Purdue university. R. M. Fuoss, Yale university, and B. J. W. Debye, Cornell university. Presiding officer will be E. J. Cohn, Harvard university.

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Some 52 new tentative specifications and tests were approved and 70 existing tentatives were to be adopted as standard, subject to letter ballot during the summer, as a result of the proceedings of the 51st annual meeting of the American Society for Testing Materials in Detroit, June 21-25, 1948.

The 1949 meeting will be held in Atlantic City, N. J., June 27 to July 1. Earlier the committee week and spring meeting will be held in Chicago, February 27 to March 4.

New Books

ACTION OF ALKALI UPON CELLULOSE, by Dr. Albert Schaeffer (Hobart Publishing Company inc., Washington 15, D. C. 94 pp., 8½ x 11 in.). This is a formal research report rather than a book in the usual sense of the word. It was prepared in the Textile Application Laboratory, I. G. Farben, Hoechst, and was translated at the request of the "Textile Team" of the Development and Research Branch, Office of the Quartermaster General. The original document was obtained during field investigation conducted under the direction of Headquarters, Theater Service Forces, European Theater (Main) Office of the Theater Chief Quartermaster (FWD), Technical Intelligence Branch. It was released for public information by the Office of the Publications Board, U. S. Department of Commerce.

This paper reports the results of an investigation of the effects of aqueous solutions of alkalies on cellulose fibers under conditions pertinent to textile processing and laundering operations.

Raw cotton fiber and three commercial types of regenerated cellulose fibers were subjected to repeated boilings in solutions of sodium hydroxide, sodium carbonate, sodium metasilicate, sodium disilicate, sodium trisilicate, and technical grade water glass. The extent of damage was measured by means of chemical analysis of the solutions, physical tests on the fibers, and microscopic examination of the fibers. The alkalies were rated in the following order of decreasing severity of attack: sodium hydroxide, sodium metasilicate, sodium carbonate, sodium disilicate, sodium trisilicate, and technical water glass. The use of sodium trisilicate and technical water glass resulted in the retention of significant quantities of silica in the fibers as shown by chemical analysis of the fiber ash. It was found that the degradation of the cellulose could be inhibited to a considerable degree by incorporating small amounts of magnesium silicates in the alkali solutions.

Some discrepancies in the results led to an investigation of the effects of oxygen on degradation of the cellulose by boiling alkali solutions. Boiling under continuous aeration resulted in considerably greater damage than when the boiling was conducted in an atmosphere of nitrogen. Also, the damage was more severe when the fibers were periodically removed, rinsed, and dried than under continuous boiling. It was attempted to detect hydrogen peroxide by chemical means during the operations since it was thought to be involved in the accelerated degradation which occurred in the presence of air. However, the tests were inconclusive. Degradation due to oxygen was most evident in the case of cuprammonium viscose fiber which contained traces of copper which presumably acted as an oxygen carrier. It was found that the damage attributable to the oxygen could be eliminated through the use of reducing agents in the baths.

In an investigation of the damage incurred in drying the fibers at temperatures up to 120°C. it was found that incomplete removal of the alkalies by rinsing increased the deterioration considerably. A theory of the mechanism of the degradation of cellulose in the presence of oxygen and alkalies is presented.

The subject matter is presented in a straightforward and lucid manner, and in general, the translation is excellent although a few awkward usages

of a minor nature are evident. This paper should be of particular interest to those working in the fields of textiles or detergents.

THOMAS H. VAUGHN.

Report of the Membership Committee—1947-48

IT is very difficult to separate sharply the results of the Membership Committee and its predecessor since some time is required for the ballots on membership applications to pass through the committee, and since applications come in continuously. The first tabulation shows membership data from April 1, 1947 to April 1, 1948.

Membership Statement

April 1, 1947 to April 1, 1948

	Honorary	Active	Individual	Corporation	Total
Membership 3/31/47	3	1264	34	94	1395
New 4/47 to 3/31/48	2	249	14	15	280
	5	1513	48	109	1675
Resignations, drops, and deaths	1	100	3	6	110
Membership as of 3/31/48	4	1413	45	103	1565
Elected as of 4/26/48		24		1	
Balloting 4/26/48		14		1	
On hand, not balloted	—	5	1	1	—
Possible total to date	4	1466	46	105	1621

In the December, 1946, Oil and Soap a map of the United States, prepared by Dr. Milner, then membership chairman, showed the distribution by states. The areas of the black circles were proportional to the number of members in the state.

The list on the map was approximately that of the 1946 directory. The following tabulation shows the new members for United States and Canada since the 1946 directory. The numbers are very nearly in the same ratios as the circle areas of 1946.

Alabama	4	Missouri	8
Arkansas	1	Nebraska	3
California	23	New Jersey	21
Connecticut	4	New York	33
Delaware	3	North Carolina	2
Florida	4	Ohio	39
Georgia	6	Oklahoma	4
Illinois	57	Oregon	1
Indiana	4	Pennsylvania	11
Kansas	1	Rhode Island	1
Kentucky	3	South Carolina	1
Louisiana	7	Texas	31
Maryland	3	Virginia	2
Massachusetts	14	Washington	1
Michigan	6	Wisconsin	3
Minnesota	12	Washington, D. C.	2
Mississippi	2	Canada	8

The next tabulation shows the increase in foreign members by country. Since this was tabulated, several additional foreign applications have been received, Australia and Venezuela representing countries not listed.

New Foreign Members Since November, 1946

Argentina	1	Malaya	1
Brazil	9	Mexico	3
Chile	1	New Zealand	1
China	4	Norway	1
Colombia	2	Palestine	2
Denmark	1	Philippines	1
England	9	Poland	1
Ecuador	2	Puerto Rico	1
France	1	San Salvador	1
Holland	1	South Africa	2
Honduras	1	Sweden	1
Iceland	1	Uruguay	1
India	9		

Total—25 Countries
58 Members

The next tabulation shows the distribution by firms or organizations of the U. S. and Canadian members. The list includes colleges, consultants, and commercial laboratories.

Number of Companies	Members for Company	Number of Companies	Members for Company
1	81	1	13
1	77	1	11
1	62	2	10
1	48	3	9
1	41	4	8
1	29	6	7
1	22	2	6
1	20	12	5
1	19	12	4
3	16	26	3
1	14	79	2
2	21	434	1
		Total 597	1409