



George Karnofsky



Leo C. Brown

Sets 175 New Limit for 1949 Short Course

BECAUSE applications for enrolment in the 1949 short course had already reached a total of 131 as of May 26, the number to be accepted has been increased from 150 to 175, according to J. P. Harris, chairman of the Education Committee, which is planning a program of lectures on the production and processing of edible fats in cooperation with the University of Illinois for August 15-19 at Urbana. Registration fee for the course is \$20, payable in advance to the national office of the American Oil Chemists' Society, Chicago. Hotel reservations should be made direct with one of the following: Inman hotel, Champaign; Urbana-Lincoln, Urbana; or Men's Residence halls at the University of Illinois, in care of R. K. Newton, 205 Arcade building, Champaign, Ill.



B. F. Daubert

The final program for the week is announced by the Education Committee, which comprises, besides Mr. Harris, A. R. Baldwin, R. R. King, H. R. Kraybill, and K. F. Mattil for the Society; T. S. Hamilton and Mr. Newton for the university:

Monday, August 15

- 8:00 a. m.—Registration in Gregory hall (air conditioned)
- 8:45 a. m.—Welcome by Dean R. B. Browne
- 9:00 a. m.—Economics of the Industry (university speaker)
- 10:00 a. m.—Chemistry of Edible Fats by B. F. Daubert, University of Pittsburgh
- 11:00 a. m.—Composition by Daubert
- 1:30 p. m.—Tour of the South Farms of the University
- 7:30 p. m.—Get-acquainted hour, with refreshments

Tuesday, August 16

- 8:00 a. m.—Hydraulic and Screw Pressing by R. P. Hutchins, French Oil Mill Machinery Company
- 9:00 a. m.—Theory of Solvent Extraction by George Karnofsky, Blaw-Knox Company

- 10:00 a. m.—Mechanics of Solvent Extraction by Karnofsky
- 11:00 a. m.—Rendering by F. C. Vibrans, American Meat Institute
- 1:30 p. m.—Refining symposium with L. B. Howard, University of Illinois, leader
 - Batch and Continuous Refining by B. H. Thurman, consultant
 - Solvent Refining and Fractionation by W. H. Goss, Pillsbury Mills
- 7:30 p. m.—Symposium on Nutritive Value by T. S. Hamilton, University of Illinois

Wednesday, August 17

- 8:00 a. m.—Theory of Hydrogenation by A. E. Bailey, Girdler Corporation
- 9:00 a. m.—Mechanics of Hydrogenation by Bailey
- 10:00 a. m.—Fundamentals of Deodorization by R. W. Bates, Armour and Company
- 11:00 a. m.—Mechanics of Deodorization by C. E. Morris, Armour and Company
- 1:30 p. m.—Color symposium with J. C. Cowan, Northern Regional Research Laboratory, leader
 - Decolorizing by A. R. Baldwin, Corn Products Refining Company
 - Color Evaluation by Duncan Macmillan, NRRL
- 6:00 p. m.—Banquet: Future Planning for the Industry by Morris

Thursday, August 18

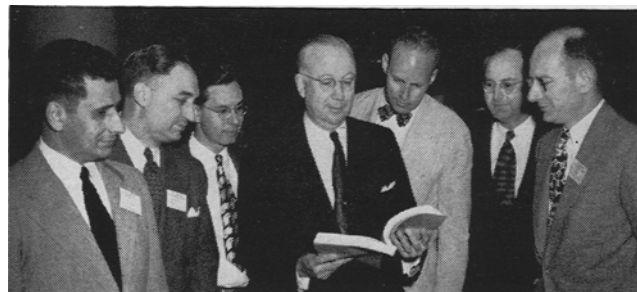
- 8:00 a. m.—Stabilization and Antioxidants by H. T. Spannuth, Wilson and Company
- 9:00 a. m.—Plasticising and Tempering by J. E. Slaughter, Girdler Corporation
- 10:00 a. m.—Shortening by G. A. Crapple, Wilson and Company
- 11:00 a. m.—Emulsion Products by Leo C. Brown, Swift and Company
- Afternoon—Trip to Allerton Estate for picnic and fish fry

Friday, August 19

- All day—Trips to Peoria and Oil Producing Centers

According to present plans, papers presented at the 1949 short course will be published as a supplement to the October 1949 issue of the Journal, and speakers have been given a deadline of July 15 for the submitting of their manuscripts to Mr. Harris.

For the information of students and speakers in the 1948 short course the proceedings were published in April, and copies of the book are being sent out to them by the University of Illinois. The Chicago office of the Society is filling orders from others at \$4 a volume, postpaid.



J. P. Harris, chairman of the Education Committee, examines the long-awaited transcript of the 1948 short course lectures, flanked (left to right) by J. J. Spadaro, G. A. Crapple, A. R. Baldwin, A. E. Bailey, H. T. Spannuth, and H. C. Black at the New Orleans meeting in May

The appointment of MAX H. THORNTON as chairman of the Chemical Research Division at Midwest Research Institute, Kansas City, Mo., has been announced by George E. Ziegler, director.

Baldwin Named Editor

A. RICHARD BALDWIN, who has been a member of the Journal Committee since 1946 and assistant chairman of the committee since January 1949, was appointed chairman of the committee and editor of the Journal of the American Oil Chemists' Society by the Governing Board at the May 12, 1949 meeting in New Orleans, at which the incoming president, V. C. Mehlenbacher, presided. He succeeds R. T. Milner, who had served since May 1948 on an interim basis, in both capacities.



A. R. Baldwin

With the Corn Products Refining Company, Argo, Ill., since 1944, Dr. Baldwin has been active in Society committee work: Membership, 1946-47; Education, 1947-; and Fat Analysis, 1947-; and Chicago fall meeting, for several years. He was given the Ph.D. degree in 1943 from the University of Pittsburgh and later did a

year of post-doctorate research in biochemistry. He is married and lives in Berwyn, Ill.

Under the 1948 revised by-laws the Journal Committee has a rotating membership, with new appointments to be made each year. The retiring members in 1949 are N. C. Hammer, Edward Handschumaker, and J. J. Vollertsen.

Treasurer's Report

Net worth on April 1, 1948:		
American Oil Chemists' Society accts.	\$19,694.51	
Journal of American Oil Chemists' Society acct.	24,860.35	\$44,554.86
<hr/>		
Excess of Income over Expenses during the period April 1, 1948 to December 31, 1948.	12,247.39	
Remittance by the Canal Bank & Trust Co., New Orleans, La. (in liquidation)	30.95	
Reinstatement of sum advanced for New York Convention expenses in January, 1948	20.42	
Increase in net worth during the period	12,298.77	
<hr/>		
Net worth of the Society December 31, 1948		\$56,853.63

Complying with the new constitution, the fiscal year was changed to a calendar year basis, and this summary of changes in the Society's net worth covers a period from April 1, 1948 to December 31, 1948. In conjunction with this change to a calendar year basis it was considered advisable to have the 1948 dues statements cover a 19-month period ending on December 31, 1949. As a consequence of this procedure income from dues in the 9-month period ending December 31, 1948 and the increase in net worth during the same period is over-stated by the amount of pre-paid dues. Such prepayments total slightly more than \$6,000, and the Society's true income for the 9-month

period is closer to \$6,000 than the \$12,247 figure mentioned previously.

At the end of the year cash on hand and in banks amounted to \$10,329.96; accounts receivable \$2,648.50; investments \$35,771.80, all of which consist of United States securities except for one small item which we carry on our books at \$150; the remainder of our assets totalling \$10,309.44 represents our inventory of Methods, supplies, furniture and equipment, and a small frozen bank deposit in the Hibernia Bank and Trust Company.

We are, of course, finding that our costs of operation have been rising, and there are some indications that advertising revenues from the Journal may be moderately lower in 1949. Consequently we anticipate some reduction in net income for the year ending December 31, 1949.

Your attention is called to the fact that on December 31, 1948, we had quick assets consisting of cash in banks with guaranteed deposits and United States Government securities totalling \$46,101.76. It should also be mentioned that our inventory of Methods valued at \$4,564.30 is based upon actual costs and that its real value, therefore, is understated. The financial position of the Society appears to be sound and conservative.

J. J. VOLLERTSEN.

Report of Journal Committee 1948-49

"MORE OF EVERYTHING" could well summarize the report of the Journal of the American Oil Chemists' Society for the past year. More editorial matter has been published, more backlog of manuscripts remain to be published, more advertising has been sold, more revenue received, and likewise publishing has been more expensive. This past year, without the experienced guidance of H. L. Roschen, has seen an increased load placed on Mrs. Lucy

Hawkins as associate editor, and the disadvantage of having an editor outside of Chicago has become evident.

Although there has been a steady increase in the editorial content of the Journal, amounting to 170% from 1943 to 1948, the backlog of unpublished manuscripts has grown steadily. This is a most sincere compliment to the increased emphasis on research and technical papers published in the Journal. However, it places an increased burden on our finances and, before increasing further the pages



R. T. Milner

of editorial content, consideration should be given to improving the standards of those manuscripts accepted. This, in turn, raises the question of the type of paper desired by our members. The Journal is the organ of the Society and, as such, it should publish information of value and assistance to members of

the Society. The editor needs guidance from the Governing Board on this matter of policy.

During the past two years the appearance of the Journal has been markedly improved. Many compliments have been received from members and others. The vigorous advertising support has permitted this improvement and a more well-rounded coverage of both news and scientific information. With the continued efforts of our advertising manager and capable staff of the Journal additional progress should be made in the future.

The associate editor is now preparing a style sheet for the guidance of contributors, reviewers, and editorial staff. When completed, this should be of material assistance in our Journal program.

After years of effort a complete set of bound volumes of the Journal has been obtained, starting with the first volume in May 1917, of the Chemists' Section, Cotton Oil Press, and extending through the Journal of Oil and Fat Industries and Oil and Soap up to our present Journal of the American Oil Chemists' Society.

Statistics for the Journal follow:

	1944-45	1945-46	1946-47	1947-48	1948-49
Advertising pages.....	120	158	215	304	328½
Editorial pages.....	370	344	400	426	472*
Circulation.....	1,833	2,138	2,816†	3,244†	3,655†
Subscription Revenue.....	\$2,297	3,672	5,894	6,181	6,416
Advertising Revenue.....	\$9,898	13,374	19,458	27,853	34,005
Net Profit.....	\$2,503	6,034	8,185	5,792	7,295

* Calendar year basis.

† Figure for 3/31 of each year.

R. T. MILNER, chairman.



Exclusively government laboratory is this table of merry-makers at the May 11 banquet: (left to right) Mrs. E. L. Skau, H. P. Newton, Mrs. Kyle Ward, J. T. Scanlan, J. A. Kime, Dr. Ward, Mrs. Scanlan, Dr. Skau, and Mrs. Newton. All are from New Orleans save the Scanlans of Philadelphia

Effective immediately, the Chemical Research and Development Department of ARMOUR AND COMPANY, Chicago, Ill., directed by Victor Conquest, will report directly to the president, F. W. Specht. Mr. Conquest will be in charge of all scientific research and developmental activities for all divisions of Armour and Company. This includes Armour Fertilizer Works, Armour Leather Company, and all subsidiaries and affiliates, both domestic and foreign. This represents a fundamental change in company organization, and chemical research and development are expected to play a larger part in company planning and policies.

Mr. Conquest was an assistant in the Research Department from 1926 to 1931, when he became director of research.

Technical Products Co. offers

Immediate Delivery of the New Oils Model 6-B Jr. Spectrophotometer for:—

Vegetable Oils Color Analyses

(Tentative A. O. C. S. Method — June 1949)

Requires no filters — produces any color instantly at turn of one knob. This instrument now improved to completely comply with A. O. C. S. requirements adopting SPECTROPHOTOMETRY as an approved method for oils Color Analyses.

SIMPLE RAPID PRECISE

Popular Prices . . . Order from Memphis

(Center of the Cotton Industry)

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COLEMAN 6-B

SPECTROPHOTOMETER

PLUGS INTO 110 V. A.C.

TECHNICAL PRODUCTS CO.

DESIGNERS Complete Laboratory Equipment WHOLESALE

MEMPHIS, TENN.

LABORATORY
TEPCO
Instruments
Glassware

Report of the Advertising Committee 1948-1949

FROM May 1948 up to April 1949 a total of 65 advertisers used display space in the Journal. Of this number 43 are currently using space on a regular basis. The decrease in number of advertisers was principally due to some companies only using a 1- or 2-time insertion during the year, apparently as an experiment. Fifteen new advertisers were added during the year.

It is extremely interesting to note the growth of advertising space and dollar volume over the past few years. For the calendar year 1948, a total space of 323 pages was used and a total dollar revenue of \$32,961.21 was received. Compared to the calendar year 1947, this is a 9½% increase in space and a 20% increase in dollar volume. If we compare 1948 use of advertising space and dollar volume with 1944 we see that during 1944 only 102½ pages of space were sold with a revenue of \$8,067.98. This represents an increase of over 300% advertising space with a dollar volume of over 400% increase. The significant figure here, however, is the increase growth in advertising space rather than the dollar volume as all advertising dollar volumes have greatly increased during the past few years due to higher costs, etc. It is the opinion of the advertising committee that this growth over the past five years has been phenomenal.

During the calendar year of 1948, our advertising agency sent out 12 different mailings to at least 250 prospects. A great portion of these mailings were of promotional literature, indicating to the prospects why they should advertise in the Journal of the American Oil Chemists' Society. Some of these mailings, however, were general mailings and were sent to all advertisers as well as prospects and covered such important items as membership brochure, a history of the society as reprinted by Cenco News Chat, a letter regarding the first short course at the University of Illinois, program information regarding the New York meeting, and an announcement regarding the revised A.B.C. occupational classifications.

At the fall meeting in New York your advertising committee met with the advertising agency and set up a new form for the classification of occupational designations, this to be used for the Audit Bureau of Circulations. New forms have been circulated to our entire membership and undoubtedly each and everyone of you has received a copy. If you have not filled

out your copy and returned it, please do so at once as this is extremely important for classifying our membership. You will note that the various headings on these classification forms have been minimized for the sake of clarity.

I am sure that every member of the American Oil Chemists' Society will agree that during the past five or six years there has been a steady improvement, not only in the form, but in the copy of the Journal. The Journal today, without doubt, is the official technical paper in the fats and oil industry and is read by over 3,300 subscribers, who, of course, include our present membership of 1,800. As our membership circulation of the Journal increases, our advertising naturally should increase. There certainly are a great many companies who have materials to sell and a story to tell that are not using space in the Journal.

No one will deny that we are now in the midst of the greatest competitive period which we have encountered since prewar days. An advertisement in the Journal is one of the easiest ways to reach a prospective buyer and is one of the greatest selling tools that any salesman can have. The next time that you get a copy of the Journal, make it a special point to read every advertisement from cover to cover, and you will see the great diversity of companies and products which are mentioned. To those members in the audience whose companies are not now advertising in the Journal, I urge you to talk to your advertising department as well as your sales department and mention the value that can be obtained by placing an advertisement in the Journal. The rates are extremely low for this type of publication, and when you consider that the Journal covers practically 100% of all oils and fat industries, you can readily see that your advertisement will be read and considered by practically every prospective buyer in our industry.

As I mentioned in my report at the last annual meeting, your advertising committee realizes that it is a tremendous job to have our advertising agency contact every possible prospect in the United States so all members should consider themselves as part of the advertising committee and urge their own companies as well as their suppliers to use space in this valuable publication.

In conclusion, on behalf of the advertising committee, I wish to extend to Mr. Harley Ward, head of our advertising agency, and Mrs. Lucy Hawkins, our executive secretary, our sincere thanks and appreciation for the splendid job which they have been doing. Their efforts have been largely responsible for the success and the growth of the Journal.

N. A. RUSTON.

OFFICIAL LABORATORY REFINING AND BLEACHING APPARATUS CONFORMS WITH A. O. C. S. SPECIFICATIONS

Built only on order, but deliveries can now be made with reasonable promptness depending on prior orders.

The following types are standard:

Refining Machines of 24, 18, 12, and 6 cup capacities.
Combination 12-cup Refining and 6-cup Bleaching Machine.
Bleaching (only) Machine of 6-cup capacity.

Prices reasonable and quoted on application.

G. WORTHEN AGEE

BARROW-AGEE LABORATORIES, INC.

P. O. BOX 156

MEMPHIS, TENNESSEE

As many as 50,000 pieces per hour can be produced on the oil-hydraulic Multipress by automatic feeding of strip stock to punching dies with the new Harmonic Stock Feed accessory just announced by THE DENISON ENGINEERING COMPANY, 1160 Dublin road, Columbus 16, O. The accessory is available in several models, each providing wide, stepless variations in speed and feed characteristics within limits of the equipment. Up to approximately 838 cycles per minute are possible with the high-speed unit and as few as 66 cycles per minute at low speeds.

L. M. Tolman Dies

LUCIUS M. TOLMAN, 74, retired director of research of Wilson and Company inc., died April 29, 1949. After graduation from Pomona College in 1896 and the University of California in 1898, he entered government service and by 1907 was chief of the food inspection laboratory of the U. S. Department of Agriculture. In 1914 he became chief of the department's central inspection district. He came to Wilson and Company as chief chemist in 1918. In 1922 he was elected vice president of the United Chemical and Organic Products Company and in 1925 president of the Central Chemical Company, now divisions of Wilson and Company inc. He was made general manager of Wilson's research and technical department in 1928 and headed that department until his retirement in 1947.



L. M. Tolman

In 1910 he was president of the Washington section of the A. C. S. and in 1917 of the Chicago section. He served as chairman of the A. O. A. C. commission on standardization of alcohol tables and as chairman of the joint A. C. S. - A. O. C. S. committee on the unification of methods of analysis of fats and oils. He was president of the American Oil Chemists' Society in 1922 and chairman of the committee on scientific research of the American Meat Institute. In addition to the A. C. S. and A. O. C. S., he was a member of the American Society for Testing Materials, American Leather Chemists Association, American Institute of Chemical Engineers, Institute of Food Technologists, New York Chemists' Club, and Chicago Chemists' Club. His published work includes papers on the effect of age on the composition of whiskeys, the composition of brewery products, the composition of different varieties of red peppers, the history of food inspection in the United States, and the chemistry of fats and oils.



G. G. Fox, vice president in charge of the Refineries division, Armour and Company, Chicago, Ill., died May 11, 1949, at Chattanooga, Tenn., where he had gone for the opening of a new margarine plant and had been taken ill about two months ago. Mr. Fox had been with Armour since 1901.

Although he had not been a member for several years, Mr. Fox was president of the American Oil Chemists' Society in 1915-16.

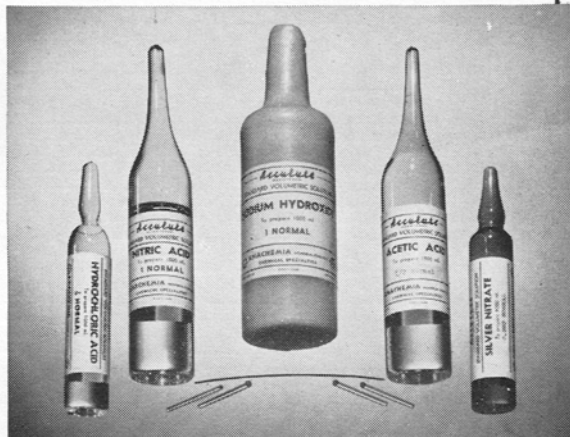


Angus Beresford Kennedy, consulting engineer with the Vulcan Copper and Supply Company, Cincinnati, O., died March 18, 1949. Mr. Kennedy was well known in the oil extraction field of the chemical industry, and the last 12 years of his life were devoted to developing, perfecting, and extending applications of the Kennedy Extractor.

ACCULUTE

... for rapid, accurate preparation of Volumetric Solutions.

... Laboratories requiring speed and accuracy are using Acculute with excellent results.



ACCULUTE SAVES TIME—Open the ampoule—transfer the contents to a volumetric flask—dilute to volume (1000 ml)—your volumetric solution is prepared.

ACCULUTE IS RELIABLE—Close control of the special manufacturing processes insures uniformity of the product. Acculute does not vary in chemical content—you can depend on it.

ACCULUTE IS ACCURATE—Each ampoule contains the precise concentrated equivalent of the normality stated on the label. There is no need for subsequent standardization.

Caustic solutions are supplied in wax ampoules, others in chemically resistant glass.

Complete instructions for preparing Acculute solutions are furnished with each unit.

A special bulletin, listing Acculute concentrates with prices and discounts will be sent on request.

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pH TEST PAPERS

Simple

Rapid

Accurate



Accutint is simple to use—just place a strip of the paper in contact with the substance to be tested and compare the color of the exposed portion with the master colors on the vial.

Accutint is rapid—it gives immediate results—no calculations are necessary—visual color comparison indicates the pH value.

Accutint is accurate—to 1 pH in the wide range paper and to 0.3 pH in the fractional range. Wide range papers are recommended where the pH value is not known to be within the limits of a fractional range paper. Fractional range papers are used for greater accuracy after the range has been determined.

S-65277 ACCUTINT TEST PAPERS. Packed in glass vials, each vial contains five pads or 100 strips. Color chart and instructions are included with each vial. Per Vial.....\$0.65
Per 72 Vials.....10% Discount

S-65278 MASTER COLOR CHART. Illustrates color standards and readings for every pH value in each of the twenty-three wide and fractional ranges. Chart helps in the selection of the most suitable ranges or papers for a specific purpose. Each.....\$1.00

SARGENT

SCIENTIFIC LABORATORY EQUIPMENT AND CHEMICALS
E. H. SARGENT & COMPANY, 155-165 EAST SUPERIOR ST., CHICAGO 11, ILL.
MICHIGAN DIVISION 1959 EAST JEFFERSON DETROIT 7, MICHIGAN
SOUTHWESTERN DIVISION 5915 PEELER ST. DALLAS 9, TEXAS

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Chemist 25-30 required for position in South Seas. Must be experienced in neutralizing, deodorizing, and hydrogenating vegetable oils. All particulars and salary expected to B. C. Vegetable Oils Ltd., Foot Dunlevy Avenue, Vancouver, Canada.

The Chemical division of KOPPERS COMPANY inc., Pittsburgh, Pa., has issued a 27-page technical bulletin describing the physical and chemical properties and listing important industrial uses of the highly fluorescent compound, beta-Methyl Umbelliferone.

FILTER BASE HEADQUARTERS

• Make Sperry *your* head-quarters for high quality filter bases. We furnish a complete line—all types and sizes—for a wide range of industrial applications, and our experienced engineers can recommend the right type for your needs. Sperry filter bases are available now for prompt delivery.

D. R. SPERRY & CO.
BATAVIA, ILLINOIS
Filtration engineers for over 50 years

A TYPE FOR EVERY NEED

- Cotton
- Wool
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- Nylon
- Vinyon
- Glass
- Asbestos
- Rubber
- Woven Metals
- and special types for special needs.

SPERRY
FILTER BASES



Referee Application

APPLICATION FOR REFEREE CERTIFICATE. (*First Notice.*) J. W. Armstrong, Food Technology, Inc., Chicago, Illinois, has applied for Referee Certificate on crude vegetable oils. Information from any member of the American Oil Chemists' Society on the qualifications of this applicant will be gladly received by the Referee Board and may be addressed to A. S. Richardson, M. A. & R. Bldg., Ivorydale 17, Ohio.

APPLICATION FOR REFEREE CERTIFICATE. (*First Notice.*) J. M. Doty, Doty Technical Laboratories, Kansas City, Missouri, has applied for Referee Certificate on cottonseed, on oil-cake and meal and on fatty oils. Information from any member of the American Oil Chemists' Society on the qualifications of this applicant will be gladly received by the Referee Board and may be addressed to A. S. Richardson, M. A. & R. Bldg., Ivorydale 17, Ohio.

APPLICATION FOR REFEREE CERTIFICATE. (*First Notice.*) Martin L. Hartwig, Battle Laboratory, Montgomery, Alabama, has applied for Referee Certificate on cottonseed, on oil-cake and meal, and on fatty oils. Information from any member of the American Oil Chemists' Society on the qualifications of this applicant will be gladly received by the Referee Board and may be addressed to A. S. Richardson, M. A. & R. Bldg., Ivorydale 17, Ohio.

APPLICATION FOR REFEREE CERTIFICATE. (*First Notice.*) John G. Campbell, Corpus Christi, Texas, has applied for Referee Certificate on oil-cake and meal. Information from any member of the American Oil Chemists' Society on the qualifications of this applicant will be gladly received by the Referee Board and may be addressed to A. S. Richardson, M. A. & R. Bldg., Ivorydale 17, Ohio.

New Members

Ronald G. Dunning, project analyst, Merck and Company inc., Rahway, N. J.
 Foster Wheeler Corporation, Wilson J. Pais, representative, Houston, Tex.
 Lauro Gutierrez Vela, graduate assistant, A and M College of Texas, College Station, Tex.
 Emmet S. Matthew, refinery, Swift and Company, Los Angeles, Calif.
 Albert A. Shurkus, engineer, Bausch and Lomb Optical Company, Rochester, N. Y.
 Frank Edmund Sullivan, consulting chemist, Staten Island, N. Y.
 Charles D. Thurmond, technical sales, Monsanto Chemical Company, San Francisco, Calif.
 Truman Lee Ward, physicist, Southern Regional Research Laboratory, New Orleans, La.
 Erling F. Week, president, Collett-Week-Nibecker inc., Burlingame, Calif.

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for the Applicant

SCRUPULOUS SCREENING
for the Employer

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