

Announce 85 Papers for Minneapolis Meeting

SUPPLEMENTING the guest editorial by J. C. Konen, general chairman, on page 4 of this issue, the publicity chairman of the 28th annual fall meeting of the American Oil Chemists' Society, R. F. Paschke, has sent in more photographs, a "very, very tentative" program, and various items of interest to the many members and friends of the Society who expect to be in Minneapolis for the Paul Bunyan meeting on October 11-13 at the Radisson hotel — and to take a Minnesota vacation before or after the meeting.

The meeting will have the usual trimmings: social events, women's entertainment, conferences by committees and the Governing Board, a business session, and two field trips. Space has been arranged for 32 exhibits by George N. Walker, of the Minnesota Linseed Oil Company, with a price range of \$135 to \$175. Two awards will be given for the two best papers presented in the technical sessions.

The tentative program, as arranged by Harold Wittcoff of General Mills, is as follows, with concurrent sessions indicated in order to get in the approximately 90 papers:

Monday Morning, October 11

Session A — General

1. Opening Remarks
2. Solid Nonionic Surface-Active Agents, by G. E. Barker and H. J. Ranauto, Atlas Powder Company, Wilmington, Del.
3. Synthetic Detergents from Animal Fats. IV. Sodium 9, 10-Dichlorooctadecyl Sulfates, by J. K. Weil, A. J. Stinton, and E. W. Maurer, Eastern Regional Research Laboratory, Philadelphia, Pa.
4. Adsorption of Synthetic Detergents Affects Use and Waste Disposal, by L. H. Flett, L. F. Hoyt, and J. E. Walter, National Aniline Division, Buffalo, N.Y.
5. Evaluation of Hand-dishwashing Formulations, by W. G. Mizuno, F. T. Lanners, and J. L. Wilson, Economics Laboratory, Saint Paul, Minn.
6. A Detergency Test Method Using Radioactive Carbon Black Soil, by J. W. Hensley, M. G. Kramer, R. D. Ring, and

H. R. Suter, Wyandotte Chemicals Company, Wyandotte, Mich.

7. Soybean Protein Fractions and Their Electrophoretic Patterns, by A. K. Smith, E. N. Schubert, and P. A. Belter, Northern Regional Research Laboratory, Peoria, Ill.
8. Measurement of Urease Activity in Soybean Oil Meal, by C. B. Croston, A. K. Smith, and J. C. Cowan, Northern Regional Research Laboratory, Peoria, Ill.

Session B — General

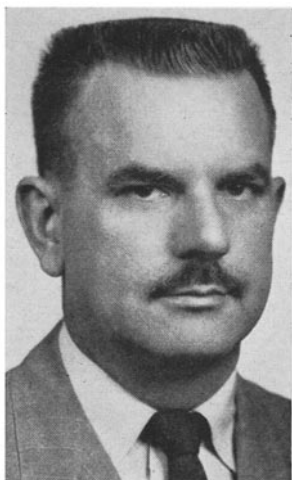
9. Thermal Decomposition of Peroxides from Autoxidized Linoleate and Oleate, by O. S. Privett, C. Nickell, and W. O. Lundberg, Hormel Institute, Austin, Minn.
10. The Lipoxidase-Catalyzed Oxidation of Sodium Linoleate, by O. S. Privett, C. Nickell, P. D. Boyer, and W. O. Lundberg, Hormel Institute, Austin, Minn.
11. The Reaction of Methyl Stearate, Methyl Oleate, and Methyl Linoleate with Benzoyl Peroxide, by S. A. Harrison and D. H. Wheeler, General Mills Inc., Minneapolis, Minn.
12. The Reaction of Methyl Oleate and Methyl Stearate with Di-*t*-butyl Peroxide, by S. A. Harrison, K. E. McCaleb, and D. H. Wheeler, General Mills Inc., Minneapolis, Minn.
13. Reactions of Fatty Materials with Oxygen. XVII. Some Observations on the Secondary Products of Autoxidation of Methyl Oleate, by J. E. Coleman, H. B. Knight, and Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.
14. Reactions of Fatty Materials with Oxygen. XVIII. Catalytic Hydrogenation of Autoxidized Methyl Oleate and Oleic Acid. Preparation of Monohydroxystearic Acids, by J. E. Coleman and Daniel Swern, Eastern Regional Research Laboratory, Philadelphia, Pa.
15. Determination of Oxirane Oxygen in Epoxidized Fatty Materials, by J. N. Shaw and W. F. McKusick, Archer-Daniels-Midland Company, Minneapolis, Minn.

Monday Afternoon, October 11

Session A — Drying Oils, M. W. Formo, chairman

16. Interrelationship of Supply, Price, and Use of Fats and Oils for Protective Coatings, by S. O. Sorensen, Archer-Daniels-Midland Company, Minneapolis, Minn.
17. The Isolation and Characterization of the Polymers Formed During the Autoxidation of Ethyl Linolenate, by L. A. Witting, S. S. Chang, and F. A. Kummerow, University of Illinois, Urbana
18. Polarographic Studies of Fat Oxidation, by S. S. Kalbag, K. A. Narayan, S. S. Chang, and F. A. Kummerow, University of Illinois, Urbana

19. Glyceride Structure of Vegetable Oils by Countercurrent Distribution. I. Linseed Oil, by H. J. Dutton and J. A. Cannon, Northern Regional Research Laboratory, Peoria, Ill.
20. Epoxidation and Hydroxylation of Linseed Oil, by Wouter Bosch, E. A. Rueve, and H. M. Hauge, North Dakota Agricultural College, Fargo, N.D.
21. The Use of Acetone in Solvent Segregation of Vegetable Oils, by C. G. Youngs and H. R. Sallans, Prairie Regional Laboratory, N.R.C., Saskatoon, Sask.



R. J. Ellison

22. Production of Polyvinyl Esters by Ester Interchange, by E. W. Eekey, R. O. Alderson, and R. J. Woestman, Eekey Research Laboratory, Cincinnati, O.
23. Selective Acidolysis, a New Method for the Segregation of Drying and Semidrying Oils, by H. J. Lanson, General Electric Company, Schenectady, N.Y.

Session B — Waste Disposal, A. W. Wahlroos, chairman

24. Waste Treatment Methods, by R. J. Ellison, St. Paul consultant
25. The Flotation of Particles, by C. C. DeWitt, Michigan State College, East Lansing
26. Clean Water and What It Means to the Public and to Industry, by L. H. Smith, Minnesota Department of Health

27. Air Pollution, by A. T. Stresen-Reuter, F. K. Stresen-Reuter Company, Chicago, Ill.

Tuesday Morning, October 12

Session A — Drying Oils cont., M. W. Formo, chairman

28. Evaluation of "Hysoy" in Exterior Paints, by A. J. Lewis, H. M. Teeter, W. T. Walton, and R. S. Haines, Northern Regional Research Laboratory, Peoria, Ill.
29. Oleoresinous Varnishes from Epoxy Resins and Drying Oils, by R. W. Tess, Shell Development Company, Emeryville, Calif.
30. Panel Discussion: Major Problems in the Drying Oil Industry
Keynote — Research, the Key to Future Markets for Drying Oils, by O. Wilhelmy Jr. and H. W. Barr, Battelle Memorial Institute, Columbus, O.
31. Autoxidation and Oxidative Polymerization, by W. O. Lundberg, Hormel Institute, Austin, Minn.
32. Modification of Drying Oils, by R. L. Terrill, Spencer Kellogg and Sons Inc., Buffalo, N.Y.
33. Unsolved Problems in the Utilization of Drying Oils in Protective Coatings, by E. B. Fitzgerald, E. I. du Pont de Nemours, Philadelphia, Pa.

Session B — Utilization of Surfactants, A. M. Schwartz, chairman

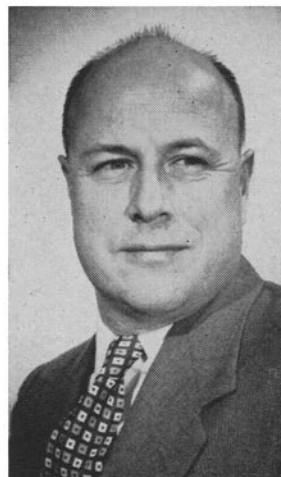
34. Introduction, by A. M. Schwartz, Harris Research Laboratories, Washington, D.C.
35. The Suppression of Soil Redeposition, by John Ross and P. T. Vitale, Colgate-Palmolive Company, and A. M. Schwartz
36. Surfactants in Textile Processing, by C. Pacifico and Serge Giers, American Alcolac Corporation, Baltimore, Md.
37. Surfactants in Hard-Surface Cleaning, by V. Dvorkowitz, Diversey Corporation, Chicago, Ill.

Tuesday Afternoon, October 12

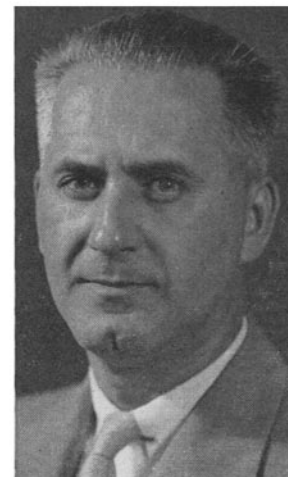
Session A — General

38. Cyclic End Groups in Polyamide Resins, by D. E. Peerman, Wesley Tolberg, and Harold Wittecoff, General Mills Inc., Minneapolis, Minn.

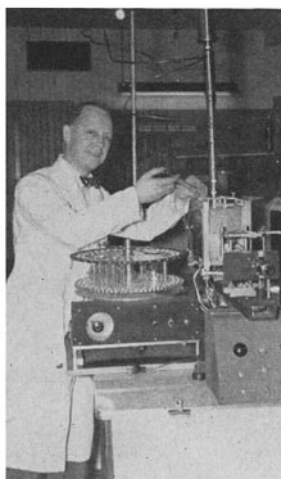
Analytical Symposium



D. S. Bolley



S. F. Herb



R. T. Holman



R. T. O'Connor

39. Recovery of Glycerine from Soap Kettle Lyes, by A. F. Kapecki, Wurster and Sanger Inc., Chicago, Ill.
40. Some Physical Properties of Binary Mixtures of Fatty Acid Esters. I. Refractive Index and Vapor Pressure. II. Density and Viscosity, by Bernard Ackerman, I. Sollin, P. M. Althouse, J. W. Shigley, and H. O. Triebold, Eastern Regional Research Laboratory, Philadelphia, Pa.
41. Isomerization During Hydrogenation. II. Linoleic Acid, by R. R. Allen and A. A. Kiess, Armour and Company, Chicago, Ill.
42. Direct Esterification of Phenols with Higher Fatty Acids, by David Aelony, General Mills Inc., Minneapolis, Minn.
43. Isomerization of Linoleate and Linolenate by Sodamide, by R. T. Holman and A. M. Abu-Nasr, Hormel Institute, Austin, Minn.
44. Solubility of Monoglycerides in Oil and Its Relation to the Production of Global Spread, by N. N. Hellman and H. F. Zobel, Northern Regional Research Laboratory, Peoria, Ill.
45. Polymorphism of Tristearin, by V. Mahadevan and W. O. Lundberg, Hormel Institute, Austin, Minn.
46. Dilatometric Investigations on Methyl Esters, by B. M. Craig, National Research Council, Saskatoon, Canada
47. Consistency of Mixtures of Cottonseed and Palm Kernel Oils, by Werner Landmann and R. O. Feuge, Southern Regional Research Laboratory, New Orleans, La.

Session B—Utilization of Surfactants cont., A. M. Schwartz, chairman

48. Surface-Active Agents in Agricultural Emulsions, by G. L. Brown and G. C. Riley, Rohm and Haas Company, Philadelphia, Pa.



B. M. Craig
General Session



R. W. Tess
Drying Oils

Waste Disposal



L. H. Smith



C. C. DeWitt

49. The Role of Surfactants in Emulsion Polymerization, by M. Morton, University of Akron, Akron, O.
50. Biological Action and Medical Uses of Surfactants, by E. I. Valko, Onyx Oil and Chemical Company
51. Micelle Formation and Solubilization in Nonaqueous Systems, by C. R. Singlettery, Naval Research Laboratory

Wednesday Morning, October 13

Session A — New Analytical Methods for Fats and Oils, D. H. Wheeler, chairman

52. Introduction, by D. H. Wheeler, General Mills Inc., Minneapolis, Minn.
53. Chemical Determination of Unsaturation of Fats and Derivatives, by D. S. Bolley, Baker Castor Oil Company, Bayonne, N.J.
54. Application of Ultraviolet Spectroscopy to the Analysis of Fats and Derivatives, by S. F. Herb, Eastern Regional Research Laboratory, Philadelphia, Pa.
55. Application of Infrared Spectroscopy to the Analysis of Fats and Derivatives, by R. T. O'Connor, Southern Regional Research Laboratory, New Orleans, La.
56. Application of Chromatography to the Analysis of Fats and Derivatives, by R. T. Holman, Hormel Institute, Austin, Minn.

Session B—General

57. Refining Cottonseed Oil at High Rates of Shear, by R. O. Feuge, E. J. Vicknair, and N. V. Lovegren, Southern Regional Research Laboratory, New Orleans, La.

58. High Frequency Cavitation in the Processing of Vegetable Oils, by J. H. Gass and B. F. Teasdale, Canada Linseed Oil Mills Company Ltd., Montreal, Quebec
59. Continuous Purification and Acidulation of Vegetable Oil Soapstock, by F. W. Keith Jr., V. G. Bell, and F. H. Smith, Sharples Corporation, Philadelphia, Pa.
60. Solvent-Extraction of Fish Offal, by L. K. Arnold and H. C. Arvidson Jr., Iowa State College, Ames, Ia.
61. Alcoholic Extraction of Vegetable Oils, by R. K. Rao, M. G. Krishna, and L. K. Arnold, Iowa State College, Ames, Ia.
62. Solution Holdup as a Factor in Extractor Design, by C. T. Smith and J. D. Keane, Wurster and Sanger Inc., Chicago, Ill.
63. Investigations on the Bitter and Beany Components of Soybeans, by H. M. Teeter, L. E. Gast, E. W. Bell, W. J. Schneider, and J. C. Cowan, Northern Regional Research Laboratory, Peoria, Ill.
64. The Application of Solvent Segregation to the Drying Oil Field, by A. L. Stubbs, Marine Oil Refiners of Africa Ltd.
65. A Study of the Flavor Stability and Autoxidation of Beef Fats, by S. S. Chang and F. A. Kummerow, University of Illinois, Urbana

Wednesday Afternoon, October 13

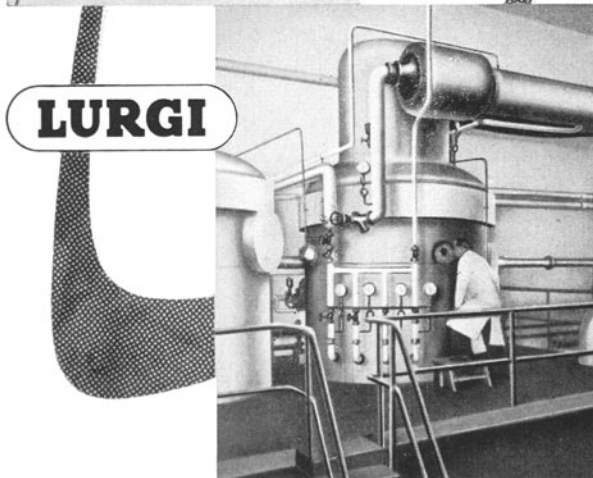
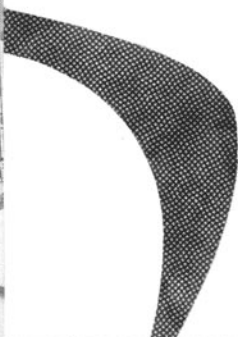
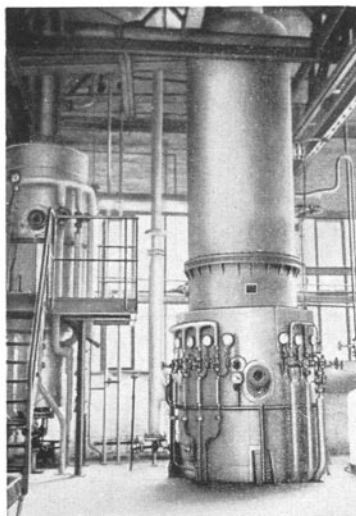
Session A — General

66. Problems in the Control of Oxidative Rancidity in Frozen Fish, by H. L. A. Tarr, Pacific Fisheries Experimental Station, Vancouver, B. C.
67. A Comparison of Commercially Used Phenolic Antioxidants in Edible Animal Fats, by W. M. Gearhart and B. N. Stuckey, Eastman Chemicals Inc., Kingsport, Tenn.
68. The Effect of Various Antioxidants on the Keeping Quality of Yellow Grease, by W. M. Gearhart and B. N. Stuckey, Eastman Chemicals Inc., Kingsport, Tenn.
69. An Instrumental Method for Measuring the Degree of Reversion and Rancidity in Edible Oils, by S. S. Chang and F. A. Kummerow, University of Illinois, Urbana
70. Chemical Estimation of Rancidity in Edible Oils, by A. S. Henick, H. J. Togashi, and J. H. Mitchell Jr., Quartermaster Food and Container Institute for the Armed Forces, Chicago, Ill.
71. Determination of the Stability of Tocopherol in Autoxidizing Methyl Oleate, by H. J. Lips, National Research Council, Ottawa, Ontario
72. Phosphoric Acid and Derivatives as Metal Inactivators in Edible Oils, by C. D. Evans, A. W. Schwab, P. M. Cooney, and J. C. Cowan, Northern Regional Research Laboratory, Peoria, Ill.
73. The Biological Utilization of Various Esters of Linoleic Acid by Aerodynamic Rats, by T. Sakuragi, H. M. Hickman, and F. A. Kummerow, University of Illinois, Urbana
74. The Nutritional Value of Polymerized Fats, by F. A. Kummerow, T. Nishida, and L. A. Witting, University of Illinois, Urbana
75. Preparation of Phosphatidyl Ethanolamine from Soybean Phosphatides, by C. R. Scholfield and H. J. Dutton, Northern Regional Research Laboratory, Peoria, Ill.
76. Fluorescence as a Measure of Brown Substances in Soybean "Lecithin," by C. R. Scholfield and H. J. Dutton, Northern Regional Research Laboratory, Peoria, Ill.
77. Epoxy Fatty Acid Ester Plasticizers, Preparation, and Properties, by F. P. Greenspan and R. J. Gall, Buffalo Electro-Chemical Inc., Buffalo, N.Y.
78. 2-Monoglycerides, by G. Y. Brokaw, E. S. Perry, and W. C. Lyman, Distillation Products Industries, Rochester, N.Y.

Session B — General

79. The Determination of Low Levels of Lipase Activity, by W. W. Luchsinger, L. S. Cuendet, P. D. Boyer, and W. F. Geddes, University of Minnesota, Saint Paul, Minn.
80. Some Effects of Semolina Lipoxidase Activity on Macaroni Quality, by G. N. Irvine, Grain Research Laboratory, Winnipeg, Man.
81. Cyclization of Methyl Eleostearate, by R. F. Paschke and D. H. Wheeler, General Mills Inc., Minneapolis, Minn.
82. Synthesis of Some Very Long Chain *n*-Aliphatic Acids. VII. Solidification Point Curves of the Binary Mixtures

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HUNTING—If your boy likes hunting, plan a pheasant hunting trip to Minnesota or a neighboring state in conjunction with your attendance at the fall meeting of your A.O.C.S. in Minneapolis Oct. 11-13.

C-36 to C-42, by V. P. Kucski and H. A. Schuette, University of Wisconsin, Madison

83. Unsaturated Fatty Acids Obtained from Beef Testicular Tissues. I. Low Temperature Urea Complexes, by W. Jordan Jr., M. E. Freeman, Joseph McLaughlin Jr., and O. E. McElroy, Walter Reed Army Medical Center, Washington, D.C.
84. Thermal Polymerization of Normal Linolenate, Alpha- and Beta-Eleostearates, by R. F. Paschke and D. H. Wheeler, General Mills Inc., Minneapolis, Minn.
85. A New Chromatographic System and Its Application to the Study of Fats, by W. D. Lewis, Wisconsin Alumni Research Foundation, Madison
86. The delta-17 through delta-2, Isomeric C-18 Monethenoid Acids: a Study in Halogen Absorption, by H. A. Schuette and R. J. Meyer, University of Wisconsin, Madison

Most of the papers to be presented at the Minneapolis meeting will be published in full in future issues of the Journal of the American Oil Chemists' Society.

❖
*Lodge of Nokomis
Land of the Sky Blue Waters
Moon of the Northwest Wind*

Brothers of the A.O.C.S.:

The loon wings his eerie way homeward, the deer drinks silently at the shore, the bat stirs restlessly above. It is dusk. The coolness creeps from the forest, the walleye feed in the shallows, the wolf wails from afar. It is night.

But all is not serene in the village. At the moment your regular correspondent has gone to obtain word from Grandma Nokomis. We wish success to his pipes and feathers of peace. But Grandma's future, scientific and otherwise, is seriously in jeopardy.

It all happened so suddenly a few moments ago. After months of inactivity the Chief decided to do some moonlight pike fishing. It was the B₁₂ that Grandma prescribed this morning that stirred the urge, no doubt. Well, before any who knew could distract him, he shoved his canoe off the rocks, stepped in, and sat down.

The horrible shriek that pierced the tranquil twilight told the story of human flesh seared with pain and of a soul stunned by the unfamiliar.

Grandma knew immediately what had occurred. She took off up the trail like a startled doe. It was now that her three



WHITETAIL DOE—The Minnesota deer herd is now larger than when the Chippewa and the Sioux nations roamed and warred over the wilderness. Suppression of predatory animals and the adaptability of the whitetail to civilization have been responsible for this increase. An annual harvest is now necessary in many areas to prevent over-population, over-grazing, and starvation during the winter.

years in the varsity backfield at Smith really paid off. The Chief made two mistakes after dragging his dripping form from the drink. One was in pausing for his war club, and the second was in stepping on the kid's tricycle. His holey moccasins didn't help much on that rocky path either. Anyway, Grandma reached the asylum of the Bunyan brothers' cabin. Now the Chief, medicine man Naynub, and the Naynub renegades are a-hootin' and a-hollerin' in the surrounding brush—but at a plenty safe distance, you may be sure.

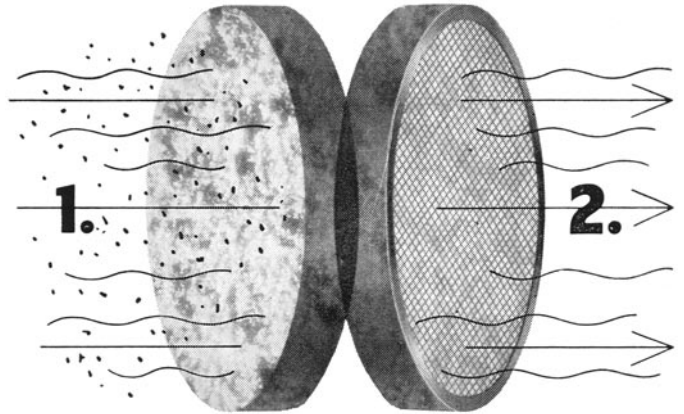
One of Grandma's last scientific feats before the siege was to complete the Nokomis translation of the Kensington Rune-stone. This, she says, proves conclusively that Paul Bunyan is a native-born Minnesotan. And Babe, the Blue Ox, certainly never tread the sands of Texas. No mere longhorn was she. It's an accepted fact, said Grandma, that the hoofprints of Babe are the wondrous 10,000 stars that sparkle in this Northland. Natives of the Lone Star are known to exaggerate, she continued. Documentary evidence of this can be found on page 22 of the March issue of the Journal. A picture caption describes a keystone of the Governor's palace in San Antonio with the date 1479. This, said Grandma, is 13 years before Columbus. Paul's Viking forebears were firmly established at that time, but the only Texans around were four-legged. However, she concluded, we must give these folks credit for marvelous imaginations.

Grandma recently suggested that those planning to attend the October convention get together in groups for a special car or plane and thus effectively increase the time available for bull sessions. She said, too, that Jim Konen and his crew are really worried. They fear that after this record-breaking PAUL BUNYAN MEETING, the A.O.C.S. will want to hold all its meetings in Minneapolis. She also recommended that hotel reservations be made promptly.

And bring the wife, she said, and if you're not married, there's still time.

Grandma's present predicament is most unfortunate. She had looked forward to that trip to Minneapolis, but now those tom-toms tell of a siege for many moons. The zeal of Nokomis caused her downfall. In her devotion to the duties of an author she let nothing delay the mailing of her completed manuscript to the Journal editor. That last page of birch bark was formerly an 8½" × 11 in. section of the Chief's favorite canoe. The cool, clear waters of the Northland dampened his enthusiasm and chilled his layman soul.

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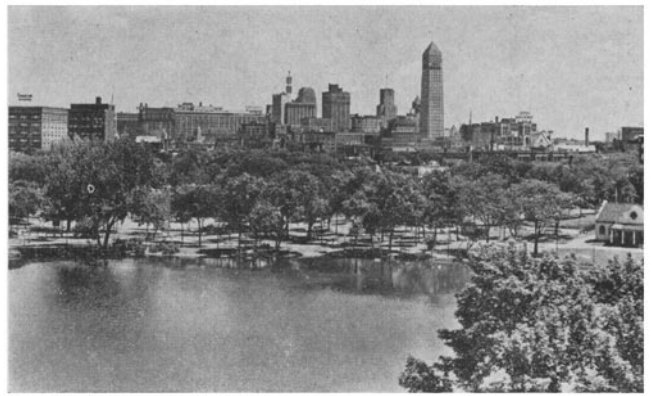
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SKYLINE—This view of Minneapolis is seen from Loring lake, one of the city's 22 lakes and lakelets.

As Nokomis crested that last hill and began poco a poco piu moto the last sprint to the pine lodge of the Bunyans, she seemed to say "This is the Indians' year. And watch Feller take the Giants twice!"

"And for the greatest convention in A.O.C.S. history, it's the PAUL BUNYAN MEETING in October."

Your humb. ob. serv.

Min



FLASH!

The spring of 1954 is said to have been the most favorable to wildlife in many years. The pheasant hatch, for example, is three times that of 1953. The true sportsman will come early and stay late to make the most of the great Paul Bunyan meeting of the A.O.C.S., October 11, 12, and 13 in Minneapolis.

FELLOW A.O.C.S. MEMBERS:

In order to assist your Convention Committee in planning an enjoyable, smooth-running Fall Meeting and to save yourself time and petty annoyances at the meeting, we ask that you take advantage of this advance registration coupon — clip it out — fill it out — mail it in.

The convention hotel is the Radisson. It will not be able to accommodate all registrants so indicate your second choice. The alternate hotels are excellent and are only a short walk from the meetings.

Radisson	<input type="checkbox"/>	Curtis	<input type="checkbox"/>	Leamington	<input type="checkbox"/>
Single Room	<input type="checkbox"/>				
Double Room	<input type="checkbox"/>	Twin Beds	<input type="checkbox"/>	Double Beds	<input type="checkbox"/>

Time and date of arrival.....

Please signify which convention entertainment events you will attend.

Men		Ladies	
		Sunday	
Buffet Supper	<input type="checkbox"/>	Buffet Supper	<input type="checkbox"/>
		Monday	
Smorgasbord Dinner	<input type="checkbox"/>	Smorgasbord Dinner	<input type="checkbox"/>
		Tour, Brunch, and Tea	<input type="checkbox"/>
		Tuesday	
MMM Laboratory Tour	<input type="checkbox"/>	Tour, Luncheon	<input type="checkbox"/>
Banquet and Dance	<input type="checkbox"/>	Banquet and Dance	<input type="checkbox"/>
		Wednesday	
Minnesota Linseed Tour	<input type="checkbox"/>		

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New Literature

A new method for using hydrogen peroxide in the epoxidation of unsaturated fats, oils, and derivatives has been published by the Du Pont Company. Copies of Bulletin No. P 61-454 may be obtained from the Electro-chemicals Department, Du Pont Company, Wilmington, Del.

An informational bulletin, No. 28X 8155, on steam-water cycle deposits has been issued by Allis-Chalmers Manufacturing Company, 1157 S. 70th street, Milwaukee, Wis. Included is a tabulation giving the mineral name, chemical formula, usual areas in which the deposits are found, the normal causes, and some suggested preventive measures.

The fourth edition of the Phillips 66 Hydrocarbons Catalog is now available. The 100-page catalog lists paraffins, cycloparaffins, olefins, cycloolefins, diolefins, aromatics, and special purpose hydrocarbons. Requests for copies should be addressed to Phillips Petroleum Company, Special Products Division, Bartlesville, Okla.

Emery Industries Inc. recently issued a revised edition of their booklet *Plastolein Plasticizers*, containing complete descriptions of Emery's line of monomeric and polymeric plasticizers. Copies can be obtained from Emery Industries Inc., Dept. 5, Carew Tower, Cincinnati 2, O.

The new issue of *The Laboratory*, Fisher Scientific Company's publication, contains information about a variety of developments in laboratory instrumentation and technique, including a new paper-electrophoresis apparatus, a time-saving automatic attachment for use in titrations, and a new sound film on "Techniques of Gravimetric Analysis." Copies of *The Laboratory*, Vol. 23, No. 5, are available without charge from Fisher Scientific, 717 Forbes street, Pittsburgh 19, Pa.

A booklet on Octylphenol and Nonylphenol has been issued by the Rohm and Haas Company, Special Products Department, Washington Square, Philadelphia 5, Pa. Physical properties, uses and chemical reactions are included.

The services of their engineering division are described in a new 12-page booklet issued by Foster D. Snell Inc., consulting chemists and engineers, 29 W. 15th street, New York 11, N. Y.

Free copies of the newly released Sperry Filter Press Catalog and Specification Book are available from D. R. Sperry and Company, Dept. JAOC, Batavia, Ill. The new edition contains sections on the plate filter type press, construction features of various leakproof, wood, and special type plates, and specifications of all standard Sperry filter presses.

The Perkin-Elmer Corporation, Norwalk, Conn., has issued a new, six-page folder describing its Model 112 infrared spectrometer.

The Industrial Filter and Pump Manufacturing Company, 5900 Ogden avenue, Chicago 50, Ill., has issued a 16-page catalog on equipment for the chemical process industries. The catalog illustrates the line of pressure filters, ion exchangers, centrifugal pumps, heat exchangers, and rubber lining service.

A 2-page folder describing an automatic proportioning unit for use with the Fischer and Porter chlorinator is available on request from the Fischer and Porter Company, 160 Jacksonville road, Hatboro, Pa.

Details of a new paper-electrophoresis system, including all instrumentation for a standardized operating procedure, are described in a folder, Form 4R-554, issued by the Specialized Instruments Corporation, 669 O'Neill avenue, Belmont, Calif.

The Frank B. Ross Company, 6 Ash street, Jersey City 4, N. J., has issued a 22-page catalog giving descriptions and physical data of the various waxes offered by the company.