

SECRETARY-TREASURER ANNUAL REPORT

May 1st, 1935 Through April 30th, 1936

FINANCIAL STATEMENT

RECEIPTS

<i>Office of the Secretary-Treasurer.</i>	
Cash Balances May 1st, 1935—	
In Petty Cash Drawer.....	\$.11
In Checking Account, Nat'l Bk. of Commerce in N. O. (Liquid)....	100.26
In Savings Account, Nat'l Bk. of Commerce in N. O. (Liquid)....	254.65
In Savings Account, Hibernia Nat'l Bk. in N. O. (Liquid).....	52.44
In Checking Account, Whitney Nat'l Bk. in N. O. (Liquid).....	623.74
In Savings Account, Whitney Nat'l Bk. in N. O. (Liquid).....	1,050.35
	<u>\$2,081.55</u>
(Frozen Accounts):	
In Savings Account, Hibernia Bk. & Trust Co. in Liquidation.....	281.42
In Savings Account, Canal Bk. & Trust Co. in Liquidation.....	772.67
In Checking Account, Canal Bk. & Trust Co. in Liquidation.....	344.23
	<u>1,398.32</u>
	<u>3,479.87</u>
<i>Received During Year From—</i>	
Interest on Cash in Savings Accounts in Banks	35.68
Interest from Bonds, National Union Mortgage Co.	48.00
	<u>83.68</u>
	<u>\$3,563.55</u>
<i>Dues and Journal "Oil & Soap"—</i>	
Dues—Active 1935-1936 (\$3.50 each)	1,130.50
Dues—Individual Associate 1935-36 (\$3.50 each)	21.00
Dues—Corporation Associate 1935-36 (\$7.50 each)	172.50
Dues—Active 1936-37 (\$3.50 each).	38.50
Dues—Individual Associate 1936-37 (\$3.50 each)	10.50
Dues—Corporation Associate 1936-37 (\$7.50 each)	7.50
	<u>1,380.50</u>
<i>Members' Subscriptions to Journal "Oil & Soap"—</i>	
From Payments for year 1935-36....	882.50
From Payments for year 1936-37....	37.50
	<u>920.00</u>
	<u>\$2,300.50</u>
<i>Fullers Earth and Kieselguhr (Filtercel)—</i>	
Sales of Fullers Earth.....	323.00
Sales of Kieselguhr or Filtercel....	15.00
Collected for Postage and Express charges, etc., advanced on sales shipments	103.95
	<u>441.95</u>
<i>Standard Salts—</i>	
Sales of Ammonium Sulphate.....	36.00
Sales of Sodium Carbonate.....	38.00
Collected for Postage advanced on sales shipments	10.05
	<u>84.05</u>
Amounts Forward	<u>\$6,390.05</u>
<i>Aluminum Moisture Dishes—</i>	
Sales of Dishes	34.00
Collected for Postage advanced on sales shipments	3.22
	<u>37.22</u>
<i>Colorless Clear Glasses—</i>	
Sales of Glasses.....	8.00
Collected for Postage advanced on sales shipments21
	<u>8.21</u>

<i>Methods of Analysis—</i>	
For Binders sold	103.00
For Sets of Methods complete in- cluding 1934 Revisions.....	42.00
For 1934 Revisions only	11.38
For 1935 Revisions only.....	46.02
For Methods complete including 1935 Revision	166.11
Collected for Postage advanced on sales shipments	19.15
	<u>387.66</u>
<i>Conventions and Meetings—</i>	
Receipts at Annual Spring Meeting, Memphis, Tenn., May 23rd and 24th, 1935	443.00
Cash in hands of Chicago, Local Committee, May 1st, 1935.....	121.73
Receipts at 9th Fall Meeting, Cincin- nati, Ohio, October 17th and 18th, 1935	849.05
	<u>1,413.78</u>
<i>Smalley Foundation—</i>	
For Check Meal Samples 1935-1936 Series	885.00
	<u>885.00</u>
<i>Referee Examining Board and Referee Chemists—</i>	
Fees for Referee Chemists' Certifi- cation for year 1935-36.....	160.00
	<u>160.00</u>
<i>Collaborative Analytical Work on Cottonseed and Oil—</i>	
Fund received from National Cotton- seed Products Association: Amount credited to Collabora- tive Laboratories	\$410.00
Balance of Fund to be held and used for various ex- penses, if needed.....	75.36
	<u>485.36</u>
Received from Collaborative Labora- tories 1935-36, additional.....	153.50
	<u>638.86</u>
GRAND TOTAL CASH RECEIPTS.....	\$9,920.78

PAYMENTS

<i>Office of the Secretary and Treasurer—</i>	
Salary of Secretary and Treasurer..	\$ 442.50
Salary of Clerical Help, Stenograph- er, etc.	442.50
Postage	48.93
Stationery, etc.	49.58
Office Supplies and Equipment.....	4.20
Sundries Expenses, Rent of Safe De- posit Box, Bond of Secretary- Treasurer, etc.	11.75
President's Contingent Fund, Exp- enses	19.45
Exchange on checks deposited, Bank handling charges, etc.	23.85
	<u>\$1,042.76</u>
<i>Dues and Journal "Oil & Soap"—</i>	
Advertisements in Journal "Oil & Soap"	420.00
Sundries Expenses, Postage, Ex- pressage, Telegrams, etc.....	11.96
Printing, Stationery, etc.....	12.35
Publisher's Bills for Journal "Oil & Soap"	550.50
Journal, "Oil & Soap" Committee's Expenses (W. H. Irwin, Chair- man)	35.00
	<u>1,029.81</u>
<i>Official Fullers Earth—</i>	
Postage advanced on Sales Shipments	100.02
Labels, Paper, Twine and Cartons..	10.25
Labor, Boy to make shipments.....	5.00
	<u>115.27</u>

<i>Standard Salts—</i>	
Postage advanced on Sales Shipments	10.32
Paper, Twine, Cartons and Boy to make shipments	1.35
	11.67
<i>Aluminum Moisture Dishes—</i>	
Postage advanced on Sales Shipments	3.36
Paper, Twine, Cartons and Boy to make shipments	2.00
	5.36
<i>Colorless Clear Glasses for Oils—</i>	
Postage advanced on Sales Shipments	.21
	.21
Amounts Forward	\$2,205.08
<i>Methods of Analysis—</i>	
Postage advanced on Sales Shipments	\$ 19.98
Binders for Methods	78.00
Postage, Expressage, Printing of Post Cards, etc.	6.25
Printing of 1935 Revisions	118.13
Paper, Twine and Boy to make shipments	6.00
	228.36
<i>Conventions and Meetings—</i>	
Annual Spring Meeting, Memphis, Tenn., May 23 and 24, 1935—	
Railroad Fare, Hotel Bills and Other Expenses of Secy.-Treas., at Meeting	76.00
General Meeting Expenses, Stenographer Recording proceedings	40.20
Banquet and Entertainment	529.25
	645.45
Stationery, Printing Programs, Badges, Notices, etc.	135.90
Telegrams, Postage to send out meeting notices, programs, etc.	50.61
	186.51
Fall Meeting, Cincinnati, O., Oct. 17 and 18, 1935—	
General Expenditures, as per statement of Local Committee Secy.-Treas., of 9th Fall Meeting, R. C. Stillman	829.30
	829.30
	1,661.26
<i>Printing—</i>	
Stationery for Various Committees use	11.50
Membership Rolls 1936	26.25
	37.75
<i>Smalley Foundation—</i>	
Special Postage, Telegrams, Expressage, etc.	.88
Chairman J. J. Vollertsen's General Expenses	501.89
T. C. Law, preparing and sending out Weekly check meal samples	447.80
	950.57
<i>Referee Examining Board and Referee Chemists—</i>	
Postage	4.24
Printing	1.55
	5.79
<i>Collaborative Analytical Work on Seed and Oil Samples—</i>	
Oil Samples sent out	298.50
Seed Samples sent out	166.00
	464.50
	470.29
GRAND TOTAL PAYMENTS	\$5,553.31
RECAPITULATION	
Total Receipts	\$9,920.78
Total Payments	5,553.31
Total Cash Balances in Various Conditions as shown below	\$4,367.47
<i>Cash Balances on Hand and in Banks May 1, 1936—</i>	
Available and in good shape:	
On hand and in Petty cash drawer	.04
In Checking Account, Nat'l Bk. of Commerce in N. O.	55.81

In Savings Account, Nat'l Bk. of Commerce in N. O.	262.15
In Savings Account, Hibernia Nat'l Bk. in N. O.	53.77
In Checking Account, Whitney Nat'l Bk. in N. O.	1,398.45
In Savings Account, Whitney Nat'l Bk. in N. O.	1,077.20
	\$2,847.42
Cash in Bank, Chicago Local Committee	121.73
<i>Cash Frozen in Banks in New Orleans—</i>	
In Savings Account, Hibernia Bk. & Trust Co. in Liquidation	\$281.42
In Savings Account, Canal Bk. & Trust Co., in Liquidation	772.67
In Checking Account, Canal Bk. & Trust Co., in Liquidation	344.23
	1,398.32
TOTAL BALANCES LIQUID AND FROZEN	\$4,367.47
<i>Resources (April 30, 1936)—</i>	
Cash on hand and in banks (In Liquid State) including Chicago Deposit	\$2,969.15
Cash frozen in old Hibernia Bank & Canal Bank & Trust Co.	1,398.32
(See Financial Statement)	
<i>Bonds and Securities—</i>	
New Bonds of National Union Mortgage Co.	1,600.00
Chicago Medical Arts Bldg. (Participating Certificate)	1,500.00
<i>Bills Receivable (April 30, 1936)—</i>	
For Fullers Earth, Filtercel, Moisture Dishes, Standard Salts, etc.:	
Wilson & Co., Oklahoma City, Okla.	\$ 6.18
Larkin & Co., Buffalo, N. Y.	1.17
D. C. Picard, Birmingham, Ala.	1.29
Sealy Oil Mill, Sealy, Tex.	1.15
Geo. B. Smith Colors, Springfield, Ill.	1.43
Barrow-Agee Labs., Memphis, Tenn.	1.19
Vegetable Oil Products Co., Los Angeles, Cal.	1.63
G. A. Hormel & Co., Austin, Tex.	1.17
Armour & Co., St. Clair County, Ill.	1.16
Emil Greiner Co., New York, N. Y.	1.45
Frank R. Gun Co., Philadelphia, Pa.	3.34
	\$21.16
<i>Bills Receivable—</i>	
For Methods of Analysis and Revisions:	
Barrow-Agee Labs., Memphis, Tenn.	\$ 2.50
Swift & Co., Jersey City, N. J.	1.50
Best Foods, Inc., Chicago, Ill.	2.50
Commonwealth of Pennsylvania, Harrisburg, Pa.	1.00
Frank R. Gun & Co., Philadelphia, Pa.	2.50
Andrew Jergens Co., Cincinnati, O.	.50
	\$10.50
For Collaborative Check Oil and Seed Samples Account:	
D. C. Picard, Birmingham, Ala.	2.50
C. W. Agee, Barrow Agee Labs., Memphis, Tenn.	2.50
W. H. Black, Augusta, Ga.	2.50
	\$7.50
<i>Supplies and Materials on Hand (April 30, 1936)—</i>	
Official Aluminum Moistures Dishes	2,830 Dishes
Fullers Earth (4 lb. Cans)	145 Cans
Sodium Carbonate and Ammonium Sulphate (4-oz. Bottles)	3,450 Bottles
Colorless Clear Glasses for Tintometer for Oils	214 Glasses
Kieselguhr or Filtercel (Cans)	254 Cans
Standard Glycerine Samples	70 Bottles
Methods of Analysis; Complete Sets (Without Binders)	1,050 Sets
Binders for Methods of Analysis	54 Binders
One Set of 32 Standardized, Red, Lovibond Oil Color Glasses	
<i>Liabilities</i>	
<i>Bills Payable (April 30, 1936)—</i>	
Miss F. McCann, assisting J. J. Vollertsen, Chairman, Smalley Foundation	\$14.00
Gillette Publishing Co., Chicago, Ill.	35.00
<i>Due Collaborative Laboratories on Oil and Seed Samples—</i>	
From Fund received from National Cottonseed Products Association	82.50

REPORT OF MEMBERS LOST AND MEMBERS RECEIVED INTO THE SOCIETY FOR YEAR; AND STATUS OF THE MEMBERSHIP OF THE SOCIETY, MAY 28, 1936.

We have members as follows:

Honorary	4
Active	349
Individual Associate	11
Corporation Associate	25
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Total Membership May 28th, 1936.....	389

During the 1935-1936 year, we have received into the Society new members as follows:

Active	60
Individual Associate	5
Corporation Associate	5
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Total Members Received.....	70

During the same period, we have lost members as follows:

By Resignation and Non-Payment of Dues.....	35
Total Membership of the Society May 28th, 1936.....	389
Total Membership of the Society, May 23rd, 1935.....	354
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Net Gain of Members for year ending May 28th, 1936	35

Mr. President:
 In submitting the foregoing report, I ask that an Auditing Committee be appointed to make a thorough audit of the accounts of the Secretary-Treasurer, and report back to the Society before the adjournment of our meeting, May 29th, 1936.

J. C. P. HELM,
 Secretary and Treasurer.

WHALE OIL AND WHALE TRIBES

By JAKOB LUND

De Nordiske Fabriker, Fredrikstad, Norway

DIFFERENT species of whales are spread in all oceans. The composition of the oils varies according to the kind of the whale, its food and feeding conditions.

The constants of the whale oils are thus of great interest, as they furnish an insight into the biochemistry of the whales and allow certain conclusions regarding the question of the splitting of whales in different tribes.

The general influence of the food is known from feeding experiments, especially on rats. When these are fed diets containing a special fat, they will deposit fat with a similar iodine value. Recently it has been shown that rats fed on prawns deposited an oil similar to whale oil. This influence of the food of course holds good under natural conditions, too, in a less marked way. Thus the whale tribes, living under different feeding conditions in the different oceans, may produce oils with different iodine values, supposing their migrations are regular, and the same tribes always revert to their special feeding ground.

From the catch of the last 25 years I have collected a great number of whale oil analyses, from different species, different fields, from different parts of the whale and from fat and lean individuals.

The influence of feeding conditions is rather important and of a general nature, and may be dis-

cussed first. The investigations have shown that lean whales contain oils with low iodine values; for example, for a lean Antarctic blue whale about 100 in all parts of the animal. Fat blue whales such as female whales with a foetus, give oils with high iodine values, such as 120 to 130 in the blubber and flesh, and 140 in the inside fat. These figures are found by different investigators and I can confirm them from my own experience. In the fattening period the iodine value will increase, in the starving period it will decrease. This is a general feature in the biochemistry of marine animals. Thus winter herring oil has an iodine value of 125 against 150 in the fat summer herring.

The various species of the whales produce oils of different composition, and comparisons can only be drawn between oils of the same kind. The iodine values and saponification values of the best known whale oils of the northern and southern hemisphere are given below in table 1.

It will be seen that the tribes of the northern hemisphere give oils with low saponification values, evidently caused through the different food. The oils from the right whales have the highest iodine values, oils from humpbacks and sei whale have mean iodine values, and the lowest are on an average found in oil from blue and fin whales. Sperm oil and bottlenose oil represent liquid waxes and will not be considered.

The figures given above are average values from the catch, but it is necessary to emphasize that oils from different parts of the whale have different iodine values. This is shown in table 2, which

TABLE 2.

Oil from:	Iodine value
Outer blubber	116
Inner blubber	122
Inside fat	135
Meat	130
Bone	110
Tongue	105
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Whole animal	118

TABLE I.

Whale Species	Northern hemisphere		Southern hemisphere	
	Sap. value	Iodine value	Sap. value	Iodine value
California grey right whale	189	150-160	194	150-160
Humpback	189	120-125	195	125-140
Sei whale	186	120-130	190	130-145
Fin whale	187	100-140	193	105-140
Blue whale	187	100-130	193	105-140