

W. W. CAMPBELL,
PRESIDENT OF THE UNIVERSITY

THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
OF THE
UNIVERSITY OF CALIFORNIA

T. WAYLAND VAUGHAN,
DIRECTOR

LA JOLLA, CALIFORNIA

October 15, 1929

To Members of the Advisory Board
Scripps Institution of Oceanography

Enclosed you will find copies of the following:

1. Financial statement of Scripps Institution for 1928-29.
2. Budget for Scripps Institution for 1929-30.
3. Annual report to the President of the University, 1928-29.
4. Oceanography at the Fourth Pacific Science Congress.
5. Oceanographic activities in the Malay Peninsula, Siam,
French Indo-China, China, and Japan.

Very truly yours

RR

T. Wayland Vaughan

SCRIPPS INSTITUTION OF OCEANOGRAPHY

1928-1929

Assets

Balance brought forward from 1927-28		\$2,525.43
Revenue from property and supply department		7,726.67
M. Ross refund		60.00
State, regular appropriation		22,500.00
State, supplemental		10,000.00
Miss E.B.Scripps, annual donation		9,000.00
Miss E.B.Scripps, supplemental donation		10,000.00
Mr. R.P.Scripps		5,000.00
Fund for grounds		
	T.W.Vaughan	660.00
	Miss E.B.Scripps	450.00
	University	<u>300.00</u>
		<u>1,410.00</u>
		\$68,222.10

Expenditures

Salaries

T.W.Vaughan, Director and Prof. of Ocean.	6999.96	
F.B.Sumner, Prof. Biology	3999.96	
G.F.McEwen, Prof. Physical Oceanography	3999.96	
W.E.Allen, Asst. Prof. Biology	3600.00	
A.H.Gee, Asst. Prof. Bacteriology	2700.00	
P.S.Barnhart, Assoc. in Oceanography	2499.96	
E.G.Moberg, Instructor in Chem. Ocean.	2599.92	26,399.76
S.W.Chambers, Assoc. in Physical Ocean.	1999.92	
D.Gravell, Asst. in Foraminifera	1200.00	
A.B.Keys, Asst. in Biology	626.67	
M. Leslie, Asst. in Chemistry	1200.00	
E.M.Thorp, Asst. in Sediments	1136.67	
E.E.Cupp, Asst. in Plankton	1056.67	7,219.93
J. Ross, Capt. boat SCRIPPS and Supt. Buildings and Grounds	2599.92	
T.Genter, Secretary and Librarian	1755.00	
R.S.Fuller, Janitor	1560.00	
Geo.Baker, Gardener	751.33	
A.Winner, Asst. gardener	1320.00	
T.F.Riche, General assistant	1344.00	
M.Ross, Engineer	1500.00	
E.Halliday, Clerk	249.99	
O.Maler, Asst. gardener	330.00	11,410.24
Collectors and observers		1,220.00
Assistance - additional		
Scientific		925.42
Labor		893.30
		<u>48,068.65</u>

Expense and equipment

Laboratory	2905.76	
Supply Dept.	272.18	
Calcium Carbonate	390.42	
Boat	1993.93	
Summer	685.90	
Travel	517.72	
Library	1009.91	
Auto	655.63	
Water	1035.35	
Gas and electricity	1663.31	
Telephone and telegrams	356.74	
Office supplies	364.04	
Express	251.51	
Cottage supplies and maintenance	579.16	
Unbudgeted	568.79	
Grounds	1358.49	
Insurance - cottages	416.64	
Paint	104.05	
Miscellaneous	1449.45	
		<u>16,578.98</u>
		<u>\$64,647.63</u>

Total assets		\$68,222.10	
Total disbursements		<u>64,647.63</u>	
			3,574.47
Amount transferred to bookstacks and sea wall			<u>1,500.00</u>
			2,074.47
Liens 1928-29	543.64		
Salaries which should be charged against 1928-29 but which were charged against 1929-30		<u>250.00</u>	
		793.64	
Making the actual balance June 30, 1929,		\$1,280.83	

Meteorological Investigations

Assets July 1, 1928		6,089.12	
Disbursements 1928-29			
A.F. Gorton, Assoc. in Meteorology	3464.88		
N.W. Cummings, Assoc. in Physics	397.50		
B. Richardson, Asst. in Physics	450.00		
R. Ragan, Asst. secretary	591.66		
General assistance	20.00		
Expense and equipment	<u>462.36</u>	<u>5,386.40</u>	702.72
Balance June 30, 1929	702.72		
Liens 1928-29	<u>663.92</u>		
Actual balance June 30, '29	38.80		

Agassiz Boat Fund

Assets July 1, 1928	43.42		
Expended 1928-29		<u>43.42</u>	

Special Publication Fund

Assets July 1, 1928	572.67		
Receipts 1928-29		<u>.90</u>	573.57
Disbursements 1928-29			<u>84.50</u>
			489.07
Liens 1928-29	200.00		
Actual balance, June 30, '29	289.07		

Special Fund for Bookstacks and Construction of Sea Wall to Protect Bulkheads

President's fund	3,500.00		
Mr. R.P. Scripps	2,000.00		
Transferred from Scripps Instit. Emergency and contingent		<u>1,500.00</u>	7,000.00
Balance June 30, 1929			

SCRIPPS INSTITUTION OF OCEANOGRAPHY

1929-1930

Assets

Carry forward from 1928-29		2074.47	
Revenue from property and supply dept. est.		7500.00	
State appropriation		35000.00	
Scripps' donation		26500.00	
Grounds fund			
	T.W. Vaughan	690.00	
	E.B. Scripps	450.00	
	University	<u>300.00</u>	
			<u>1440.00</u>
			\$72,514.47

Expenditures

Salaries		52,310.00	
Expense and equipment		<u>20,204.47</u>	72,514.47

Expenditures

Salaries

T.W.Vaughan, Director and Prof. of Ocean.	7000.00		
F.B.Sumner, Prof. Biology	4500.00		
G.F.McEwen, Prof. Physical Ocean.	4000.00		
W.E.Allen, Asst. Prof. Biology	3600.00		
A.H.Gee, Asst. Prof. Bacteriology	2700.00		
E.G.Moberg, Asst. Prof. of Oceanography	2700.00		
P.S.Barnhart, Assoc. in Oceanography	2600.00		
		27,100.00	
S.W.Chambers, Assoc. in Physical Oceanography	2000.00		
M. Leslie, Asst. in chemical laboratory	1500.00		
A.B.Keys, Asst. in Biology	1500.00		
G.L.Whipple, Asst. in Foraminifera	1200.00		
E.E.Cupp, Asst. in Plankton	1200.00		
N.A.Wells, Asst. in Biology	1200.00		
		8,600.00	
J. Ross, Capt. boat SCRIPPS and Supt. of Buildings and Grounds	2800.00		
T. Genter, Secretary and Librarian	1920.00		
R. Ragan, Asst. secretary	1500.00		
M.G.Ross, Engineer	1500.00		
C. Johnson, General assistant	1320.00		
A. Winner, Gardener	1500.00		
O. Maler, Asst. gardener	1380.00		
R.S.Fuller, Janitor	1560.00		
		13,480.00	
 General assistance			
Collectors and observers	1230.00		
E.M.Thorp, Asst. in sediments	300.00		
D.M.Gravell, Asst. in foraminifera	150.00		
G.T.Taylor, Geophysicist, lectures and conferences	100.00		
L.W.Collet, Geologist,"	140.00		
D.M.Greenberg, Assoc. Prof. Biochemistry	150.00		
Garbage and trash	260.00		
Pier helper	300.00		
Unspecified assistance (includes \$250 paid for 1928-29)	500.00	<u>3,130.00</u>	52,310.00

Expense and equipment

Laboratory

Vaughan - sed. & foram.	500.00		
Sumner - fish	700.00		
McEwen - ocean physics	500.00		
Moberg - chemistry	500.00		
Allen - plankton	150.00		
Gee - bacteriology	800.00		
Keys - physiology	300.00		
Supply dept.	175.00		
General laboratory	375.00	4,000.00	
Boat		2,000.00	
Travel		900.00	
Library		1,800.00	
Automobiles		600.00	
Telephone and telegrams		350.00	
Gas & electricity		1,800.00	
Water		1,200.00	
Office supplies		570.00	
Express		400.00	
Cottage maintenance		600.00	
Grounds		300.00	
Grounds - special fund		750.00	
Paint		300.00	
Insurance		250.00	
Unbudgeted		400.00	
New Ford car		584.53	16,804.53
Emergency and equipment	3399.94		3,399.94
Liens 1928-29	543.64		
Balance 1929-30	<u>2856.30</u>		
			<hr/> 20,204.47

Special Fund for Bookstacks and Construction
of sea wall to protect bulkheads

Balance July 1, 1929 7,000.00

Special Publication Fund

Balance July 1, 1929 489.07
Liens 1928-29 200.00

Balance 289.07

Meteorological Investigations

Assets

Balance July 1, 1929 702.72
Liens 1928-29 663.92
Balance for 1929-30 38.80

Income 1929-30 6,500.00 6,538.80

Expenditures 1929-30

A.F. Gorton, Assoc. in Meteorology 3,500.00
N.W. Cummings, Assoc. in Physics 450.00
B. Richardson, Asst. in Physics 399.91
A. Partridge, Asst. computer 1,060.00 5,409.91

Expense and equipment 1,128.89 6,538.80

La Jolla, Calif., October 25, 1929.

Dr. T. Wayland Vaughan,
Scripps Institution,
La Jolla, Calif.

Dear Dr. Vaughan:-

I have read with much interest the documents enclosed in your communication to the Advisory Board, dated the 15th inst.

1. I note that neither in the financial statement for last year nor in the budget for the current year, is any provision made for depreciation. Of course that is actually taking place all the time. Some of the Trustees of Scripps College insisted that we should make provision for depreciation from the beginning. It may be that the University pursues a different policy. It seems to me, though, that if no provision is made for depreciation, that we are accumulating from year to year what may prove a heavy drain on our resources in subsequent years.

2. I want to cordially second your recommendation for the appointment of a zoologist to continue the work formerly done by Dr. Esterly and other marine-biological investigations. Also that there should be someone on the staff who can divide with Dr. Moberg the responsibility of the boat work. With my acquaintance with the Institution from its inception, I have the idea that there has been a falling off in the work in marine biology. It is also my idea that continuity in such work is of great value. Then, as you said to me some time ago, we have a considerable investment in our boat and its equipment. One of the advantages which this climate affords is opportunity for carrying on sea work through a large part of the year. Your report raises the question in my own mind as to whether the work in bacteriology is as vital as the work in biology, particularly in view of the previous investigations carried on by the Institution. The work of Dr. Sumner in mice is foreign to oceanography and I venture to suggest that expenditure of our limited funds should be confined to oceanographic work.

3. I note in your report on pages 8 and 10, references to work in Atlantic Ocean problems. I had supposed that it was your purpose to devote the work of the Institution to the Pacific area. I got this idea particularly from the map which you showed me indicating the paucity of exploration in the Pacific compared to work in the Atlantic.

Of course you will understand that the foregoing is the view merely of a layman whose only knowledge of these matters has been gathered from his association with the Institution since its foundation.

Sincerely yours,

J. C. Harper.

Meeting of the Advisory Board,
Scripps Institution of Oceanography,
January 30, 1932.

The meeting was called to order at ten a.m. in the Director's Office.

Those present were Dr. Fred Baker, Mr. J. C. Harper, Director Ernest C. Moore, Dr. W. E. Ritter, and Jr. Julius Wangenheim. Also Director T.W. Vaughan.

Director Vaughan had prepared for the consideration of the Advisory Board the accompanying memorandum and the statements regarding the finances of the Institution.

With reference to the balance of \$5,685.07 on June 30, 1931, it was stated that the rather large balance was intentional. Originally it was expected that approximately \$15,000 from the funds contributed for the construction and scientific equipment of Ritter Hall would be available for the purchase of scientific equipment for that building. It was obvious, however, before the completion of the building that there would be no balance for the purchase of scientific equipment. Therefore, an endeavor was made to accumulate during the year 1930-31 a fairly large balance which could be carried forward and added to the Laboratory Fund available in the regular income of the Institution for the year 1931-32, and thereby make possible the purchase of at least those things that were most urgently needed.

After this statement attention was called to the status of the budget for 1931-32 and to the present small balance from Ritter Hall. After that the needs in Ritter Hall, George H. Scripps Laboratory, and the Library were discussed. Except the painting of the interior of George H. Scripps Laboratory, all of the items listed in the memorandum under the three categories indicated are appropriately chargeable against the Laboratory Fund of the Institution. It was the advice of the members of the Board that all funds at present available in the budget of the Institution be utilized for the additional scientific equipment of Ritter Hall, George H. Scripps Laboratory, and the Library.

The painting of the interior of George H. Scripps Laboratory and the needs on the grounds of the Institution were then briefly discussed. It was hoped that painting the interior of George H. Scripps Laboratory may be at least in part taken care of by a small balance from the \$40,000 State special appropriation and that painting of the cottages may be possible by the utilization of a part of the funds allocated to the Comptroller's Office for the care of buildings and grounds.

Director Vaughan stated that he had offered to contribute \$1,000 for the construction of the road in front of Ritter Hall provided another \$1,000 could be raised. At present there are no funds available for a tennis court, bath houses, and a very urgently needed additional four-stall garage.

The Meteorological Fund and its present status were then discussed. Director Vaughan stated that he had been informed by the Power, Light, and Water corporations, who have been contributing to the Meteorological Fund, that they would not make any contributions for next year. A contribution from the Los Angeles Department of Water and Power is possible, but no commitment has yet been made. The members of the Board expressed surprise that the contributions had been discontinued because the hydro-electric power companies have not been so greatly affected by the depression as have companies engaged in other industries. It was suggested that Mr. Harper might confer with representatives of some of the organizations and inquire if they might be willing to reconsider their decision. Since there is at present a balance of nearly \$4,000 in the Special Meteorological Fund, the members of the Board advised that Dr. A. F. Gorton be continued in his present work during the coming year at a salary of \$3600 per year, which is the salary he is at present receiving. Since the investigations of Mr. Burt Richardson on the penetration of light into sea water are of so much importance to the biological investigations of the Institution, it was unanimously recommended that he be transferred from the salary roll of the Special Meteorological Fund to the regular roll of the Institution and that he be paid for three months at the rate of \$200 per month.

The addition of a seaplane unit to the Institution in accordance with a proposal by Lieutenant H. L. Kirby was mentioned and briefly discussed.

Arrangements for 1932-33. Mr. Harper stated that for the year 1932-33 Miss Scripps and Mr. R. P. Scripps would make the same contributions that they are making for the current year, 1931-32, but he said that it was doubtful if it would be practicable for them to make a step-up in the Institution's income for the year 1932-33.

Director Vaughan then read ^{from} a letter from Professor Frank R. Lillie, chairman of the National Academy Committee on Oceanography, the following paragraph:

"I now have all the returns from the members of the Committee in favor of the proposal that I made to you for study of the International Aspects of Oceanography. The general understanding on which they have voted is that they would agree to pay you a salary of \$7,000 for a period of one year, plus \$350 for your regular contribution to the retirement fund of the University of California, and that approximately \$8,000 be set aside for expenses of travel, secretarial assistance, and so forth. They have also voted in favor of paying full expenses for your trip to Washington and back next April in accordance with your estimate, and for your trip to Pullman, Washington, next June."

After reading the paragraph from Professor Lillie's letter, the problem of arrangements for the operation of the Institution during the proposed absence of Director Vaughan was considered. The recommendation adopted was that the President of the University appoint to serve during the absence of the Director an Executive Committee composed of the four local members of the Advisory Board, namely Dr. Fred Baker, Mr. J.C. Harper, Mr. L. M. Klauber, and Mr. Julius Wangenheim. It was informally suggested that Mr. L. M. Klauber be appointed the Chairman of the Committee. It was further suggested that Professor G. F. McEwen be designated as Acting Director for the period of the absence of the Director. According to the suggestion made, the Acting Director could call upon the Executive Committee at any time to lay before it for advice any perplexities that might arise with reference to the operation of the Institution. The Committee would meet about once a month to go over the affairs of the Institution with the Acting Director

and it would have the privilege of reporting directly to the President of the University.

The next matter considered was whether Professor F.B. Summer should or should not be recommended for promotion from a salary of \$4500 per year to a salary of \$5,000 per year beginning the first of next July. According to usual University procedure Professor Summer is eligible for the promotion above indicated. Although all of the members of the Board recognized the prevalent financial depression, they also recognized that the salary rating of the academic staff of the University of California in comparison with other similar state institutions is low. It was therefore unanimously agreed that Professor Summer should be recommended for the promotion indicated, but the members of the Board are aware that under prevalent financial conditions the President of the University may find it inadvisable to comply with the recommendation.

With reference to Professor McEwen, since he has not yet served three years at his present salary of \$4500 per year, it was decided to make no recommendation regarding him.

With reference to Messrs. Fox and ZoBell, each of whom holds appointment as instructor and receives a salary of \$2200 per year, since it was the understanding of the Board present that instructors are automatically promoted \$200 at the beginning of each academic year until the time arrives for promotion to assistant professor, no action was taken on the matter.

According to the figures in the preliminary budget submitted, after taking care of those members of the Institution's staff listed on it, there would remain \$2,463.34 under the item "unassigned assistance". The alternatives listed on the second page of the memorandum were discussed. The first alternative, "part time substitute for T.W.V. to take charge of work on marine sediments", was eliminated because the amount that would be available would not be large enough. The second alternative

was considered and it was unanimously agreed to set aside \$1200 to pay the salary for one year for either a clerk or an assistant computer to help Professor McEwen in his work on physical oceanography and related subjects. The third item, concerning Mr. Burt Richardson, has already been disposed of, but will be repeated. It was unanimously recommended that he be appointed to serve for the period of three months at \$200 per month and that his salary be paid out of the regular budget of the Institution. The encumbrances above indicated, that is \$1200 plus \$6000 make \$1800. After deducting that amount from the \$2,463.34, \$663.34 would be left for undesignated special assistance.

Although funds are not now available for having Dr. Myrtle Johnson prepare a catalogue or check-list of local marine organisms similar to the list published by the Laboratory at Plymouth, England, the desirability of having such a list was recognized. It was suggested that Mr. Joshua L. Baily, Jr., of San Diego might consider the compilation of the list without remuneration.

The last item under alternatives - utilization of \$1,000 to \$2,000 for the purchase for the library of books which might be found by Director Vaughan while in Europe - no funds are at present available for that purpose. Mr. Harper, however, remarked that if very desirable books or sets should be found that an inquiry should be addressed to him as to whether it would be practicable to procure funds.

The last item on the memorandum "Search for a successor to T.W.V." The present Director has said that he does not intend to retire from the directorship of the Institution before July 1, 1934, and that he does not intend to remain beyond July 1, 1936, that is, it is his intention to retire from the Institution not later than the end of the academic year nearest his sixtysixth birthday, which will be on September 29, 1936. It was advised that Director Vaughan should compile during his trip around the world as complete a list as possible of those who might be considered for the Directorship of the Institution, and that upon his return it should be submitted to the President of the University.

At twelve forty-five the meeting adjourned.

SCRIPPS INSTITUTION OF OCEANOGRAPHY
Tentative Budget Estimates for 1932- 1933
as submitted to the President

A list

	1931-32	1932-33
T.W. Vaughan	7,000.00	1,166.66 (2 mos salary)
F.B. Sumner	4,500.00	5,000.00
G.F. McEwen	4,500.00	4,500.00
W.E. Allen	3,600.00	3,600.00
E.G. Moberg	3,300.00	3,300.00
P.S. Barnhart	2,700.00	2,700.00
	25,600.00	20,266.66

B List

D.L. Fox	1,833.33	2,400.00
C.E. ZoBell	1,100.00	2,400.00
S.W. Chambers	2,200.00	2,200.00
Burt Richardson		600.00 (3 mos salary)
	5,133.33	7,600.00

A.H. Gee	1,125.00	
E.E. Cupp	1,200.00	1,200.00
R.H. Fleming	1,200.00	1,200.00
M.H. Harding	1,200.00	1,200.00
E.H. Myers	1,200.00	1,200.00
R.R. Revelle	1,050.00	1,200.00
E.M. Thorp	600.00	1,200.00
N.A. Wells	1,200.00	1,200.00
Asst for Fox		1,200.00
C.B. Feltham	1,500.00	1,500.00
C. Copeland	1,200.00	1,200.00
Collectors and observers	1,230.00	1,260.00
G.B. Armstrong	1,000.00	1,200.00
Unassigned	2,401.67	663.34
	16,106.67	15,423.34

M.G. Ross	1,500.00	1,500.00
T. Genter	1,920.00	1,920.00
R. Ragan	1,620.00	1,620.00
R. McKittrick		1,200.00
	5,040.00	6,240.00
	51,880.00	49,530.00

Scientific operations

Laboratory	8,495.07	4,500.00
Travel and field expenses	600.00	600.00
Boat	2,000.00	2,000.00
Library	2,400.00	2,700.00
Office supplies	500.00	500.00
Contingent		410.00
	13,995.07	10,710.00
	65,875.07	60,240.00

Allocated to Comptroller's Office

20,210.00	20,160.00
86,085.07	80,400.00

Meeting of the Advisory Board,
Scripps Institution of Oceanography,
January 30, 1932.

The meeting was called to order at 10 a.m. in the Director's Office.

Those present were Dr. Fred Baker, Mr. J.C. Harper, Director Ernest C. Moore, Dr. W. E. Ritter, and Mr. Julius Wengenheim. Also Director T.W. Vaughan.

Director Vaughan had prepared for the consideration of the Advisory Board the accompanying memorandum and the statements regarding the finances of the Institution.

With reference to the balance of \$5,685.07 on June 30, 1931, it was stated that the rather large balance was intentional. Originally it was expected that approximately \$15,000 from the funds contributed for the construction and scientific equipment of Ritter Hall would be available for the purchase of scientific equipment for that building. It was obvious, however, before the completion of the building that there would be no balance for the purchase of scientific equipment. Therefore, an endeavor was made to accumulate during the year 1930-31 a fairly large balance which could be carried forward and added to the Laboratory Fund available in the regular income of the Institution for the year 1931-32, and thereby make possible the purchase of at least those things that were most urgently needed.

After this statement attention was called to the status of the budget for 1931-32 and to the present small balance from Ritter Hall. After that the needs in Ritter Hall, George H. Scripps Laboratory, and the Library were discussed. Except the painting of the interior of George H. Scripps Laboratory, all of the items listed in the memorandum under the three categories indicated are appropriately chargeable against the Laboratory Fund of the Institution. It was the advice of the members of the Board that all funds at present available in the budget of the Institution be utilized for the additional scientific equipment of Ritter Hall, George H. Scripps Laboratory, and the Library.

The painting of the interior of George H. Scripps Laboratory and the needs on the grounds of the Institution were then briefly discussed. It was hoped that painting the interior of George H. Scripps Laboratory may be at least in part taken care of by a small balance from the \$40,000 State special appropriation and that painting of the cottages may be possible by the utilization of a part of the funds allocated to the Comptroller's Office for the care of buildings and grounds.

Director Vaughan stated that he had offered to contribute \$1,000 for the construction of the road in front of Ritter Hall provided another \$1,000 could be raised. At present there are no funds available for a tennis court, bath houses, and a very urgently needed additional four-stall garage.

The Meteorological Fund and its present status were then discussed. Director Vaughan stated that he had been informed by the Power, Light, and Water corporations, who have been contributing to the Meteorological Fund, that they would not make any contributions for next year. A contribution from the Los Angeles Department of Water and Power is possible, but no commitment has yet been made. The members of the Board expressed surprise that the contributions had been discontinued because the hydro-electric power companies have not been so greatly affected by the depression as have companies engaged in other industries. It was suggested that Mr. Harper might confer with representatives of some of the organizations and inquire if they might be willing to reconsider their decision. Since there is at present a balance of nearly \$4,000 in the Special Meteorological Fund, the members of the Board advised that Dr. A. F. Gorton be continued in his present work during the coming year at a salary of \$3600 per year, which is the salary he is at present receiving. Since the investigations of Mr. Burt Richardson on the penetration of light into sea water are of so much importance to the biological investigations of the Institution, it was unanimously recommended that he be transferred from the salary roll of the Special Meteorological Fund to the regular roll of the Institution and that he be paid for three months at the rate of \$200 per month.

The addition of a seaplane unit to the Institution in accordance with a proposal by Lieutenant H. L. Kirby was mentioned and briefly discussed.

Arrangements for 1932-33. Mr. Harper stated that for the year 1932-33 Miss Scripps and Mr. R. P. Scripps would make the same contributions that they are making for the current year, 1931-32, but he said that it was doubtful if it would be practicable for them to make a step-up in the Institution's income for the year 1932-33.

Director Vaughan then read from a letter from Professor Frank R. Lillie, chairman of the National Academy Committee On Oceanography, the following paragraph:

"I now have all the returns from the members of the Committee in favor of the proposal that I made to you for study of the International Aspects of Oceanography. The general understanding on which they have voted is that they would agree to pay you a salary of \$7,000 for a period of one year, plus \$350 for your regular contribution to the retirement fund of the University of California, and that approximately \$8,000 be set aside for expenses of travel, secretarial assistance, and so forth. They have also voted in favor of paying full expenses for your trip to Washington and back next April in accordance with your estimate, and for your trip to Pullman, Washington, next June".

After reading the paragraph from Professor Lillie's letter, the problem of arrangements for the operation of the Institution during the proposed absence of Director Vaughan was considered. The recommendation adopted was that the President of the University appoint to serve during the absence of the Director an Executive Committee composed of the four local members of the Advisory Board, namely Dr. Fred Baker, Mr. J.C. Harper, Mr. L. M. Klauber, and Mr. Julius Wangenheim. It was informally suggested that Professor Mr. L. M. Klauber be appointed the Chairman of the Committee. It was further suggested that Professor G. F. McEwen be designated as Acting Director for the period of the absence of the Director. According to the suggestion made, the Acting Director could call upon the Executive Committee at any time and lay before it for advice any perplexities that might arise with reference to the operation of the Institution. The Committee would meet about once a month to go over the affairs of the Institution with the Acting Director

and it would have the privilege of reporting directly to the President of the University.

The next matter considered was whether Professor F.B. Sumner should or should not be recommended for promotion from a salary of \$4500 per year to a salary of \$5,000 per year beginning the first of next July. According to usual University procedure Professor Sumner is eligible for the promotion above indicated. Although all of the members of the Board recognized the prevalent financial depression, they also recognized that the salary rating of the academic staff of the University of California in comparison with other similar state institutions is low. It was therefore unanimously agreed that Professor Sumner should be recommended for the promotion indicated, but the members of the Board are aware that under prevalent financial conditions the President of the University may find it inadvisable to comply with the recommendation.

With reference to Professor McEwen, since he has not yet served three years at his present salary of \$4500 per year, it was decided to make no recommendation regarding him.

With reference to Messrs. Fox and ZoBell, each of whom holds appointment as instructor and receives a salary of \$2200 per year, since it was the understanding of the ^{members of the} Board present that instructors are automatically promoted \$200 at the beginning of each academic year until the time arrives for promotion to assistant professor, no action was taken on the matter.

According to the figures in the preliminary budget submitted, after taking care of those members of the Institution's staff listed on it, there would remain \$2,463.34 under the item "unassigned assistance". The alternatives listed on the second page of the memorandum were discussed. The first alternative, "part time substitute for T.W.V. to take charge of work on marine sediments", was eliminated because the amount that would be available would not be large enough. The second alternative

was considered and it was unanimously agreed to set aside \$1200 to pay the salary for one year for either a clerk or an assistant computer to help Professor McEwen in his work on physical oceanography and related subjects. The third item, concerning Mr. Burt Richardson, has already been disposed of, but will be repeated. It was unanimously recommended that he be appointed to serve for the period of three months at \$200 per month and that his salary be paid out of the regular budget of the Institution. The encumbrances above indicated, that is \$1200 plus \$600 make \$1800. After deducting that amount from the \$2,463.34, \$663.34 would be left for undesignated special assistance.

Although funds are not now available for having Dr. Myrtle Johnson prepare a catalogue or check-list of local marine organisms similar to the list published by the Laboratory at Plymouth, England, the desirability ^{having} of such a list was recognized. It was suggested that Mr. Joshua L. Baily, Jr., of San Diego might consider the compilation of the list without remuneration.

The last item under alternatives - utilization of \$1,000 to \$2,000 for the purchase for the library of books which might be found by Director Vaughan while in Europe - no funds are at present available for that purpose. Mr. Harper, however, remarked that if very desirable books or sets should be found that an inquiry should be addressed to him as to whether it would be practicable to procure funds.

The last item on the memorandum "Search for a successor to T.W.V." The present Director has said that he does not intend to retire from the directorship of the Institution before July 1, 1934, and that he does not intend to remain beyond July 1, 1936, that is, it is his intention to retire from the Institution not later than the end of the academic year nearest his sixtysixth birthday, which will be on September 20, 1936. It was advised that Director Vaughan should compile during his trip around the world as complete a list as possible of those who might be considered for the Directorship of the Institution, and that upon his return it should be submitted to the President of the University.

At twelve forty-five the meeting adjourned.

SCRIPPS INSTITUTION OF OCEANOGRAPHY
Tentative Budget Estimates for 1932- 1933
as submitted to the President

A list

	1931-32	1932-33
T.W. Vaughan	7,000.00	1,166.66 (2 mos salary)
F.B. Sumner	4,500.00	5,000.00
G.F. McEwen	4,500.00	4,500.00
W.E. Allen	3,600.00	3,600.00
E.G. Moberg	3,300.00	3,300.00
P.S. Barnhart	2,700.00	2,700.00
	25,600.00	20,266.66

B List

D.L. Fox	1,833.33	2,400.00
C.E. ZoBell	1,100.00	2,400.00
S.W. Chambers	2,200.00	2,200.00
Burt Richardson		600.00 (3 mos salary)
	5,133.33	7,600.00

A.H. Gee	1,125.00	
E.E. Cupp	1,200.00	1,200.00
R.H. Fleming	1,200.00	1,200.00
M.H. Harding	1,200.00	1,200.00
E.H. Myers	1,200.00	1,200.00
R.R. Revelle	1,050.00	1,200.00
E.M. Thorp	600.00	1,200.00
N.A. Wells	1,200.00	1,200.00
Asst for Fox		1,200.00
C.B. Feltham	1,500.00	1,500.00
C. Copeland	1,200.00	1,200.00
Collectors and observers	1,230.00	1,260.00
G.B. Armsstrong	1,000.00	1,200.00
Unassigned	2,401.67	663.34
	16,106.67	15,423.34

M.G. Ross	1,500.00	1,500.00
T. Genter	1,920.00	1,920.00
R. Ragan	1,620.00	1,620.00
R. McKittrick		1,200.00
	5,040.00	6,240.00
	51,880.00	49,530.00

Scientific operations

Laboratory	8,495.07	4,500.00
Travel and field expenses	600.00	600.00
Boat	2,000.00	2,000.00
Library	2,400.00	2,700.00
Office supplies	500.00	500.00
Contingent		410.00
	13,995.07	10,710.00
	65,875.07	60,240.00

Allocated to Comptroller's Office

20,220.00	20,160.00
86,085.07	80,400.00

La Jolla, California.
February 5, 1932.

Mr. Robert P. Scripps,
Ridgefield,
Conn.

Dear Bob:

Last Saturday there was a meeting of the Scripps Institution Advisory Board. There were present: Drs. Ritter, Baker and Moore (the latter director of ^{the} California at Los Angeles), Mr. Wangenheim, Dr. Vaughan and myself. There was a long session involving a review of the institutions work, future program, resources, etc. I will mention only a few items that I think you are specially interested in.

1. KIRBY: Dr. Vaughan stated that the Institution could not pay Kirby a salary unless the Institution drops some of the work in which it is engaged. He felt that this would involve the lossing of the investment already made in such work. He also stated that while the sea-plane unit was important it could never take the place of a boat. Evidently Kirby, himself, had not fitted in very well because Dr. V. spoke of him as having acted as if he was "the most important person in the Institution".
2. THE PROPOSED WORLD OCEANOGRAPHIC SURVEY: Dr. Lillie has reported that the National Council has approved the plan and will pay Dr. Vaughan's salary of \$7,000.00 for a year; and will pay \$8,000.00 additional for expense; will pay for Dr. Vaughan's expenses to Washington, D.C. in April and to Bellingham in June. Everybody present approved of the project and regarded it as an honor to the Institution and to Dr. Vaughan. They felt it opened the way for more intelligent cooperation in oceanographic problems throughout the world.
3. HOW SHOULD THE INSTITUTION BE MANAGED DURING DR. VAUGHAN'S ABSENCE? He will take this up with President Sproul. Several men were discussed as acting directors. It is probable that a small Executive Committee will be constituted from the Advisory Board to meet once a month at the Institution during Dr. Vaughan's absence.
4. DR. VAUGHAN'S SUCCESSOR: He stated that he might retire in 1934, but in no event would he remain longer than July 1st, 1936.
5. BOAT WORK: Largely I think as the result of my hammering at the matter, the "Scripps" has made more trips during the last seven months than ever before in the same period. 3 in July, 7 in August, 5 in September, 3 in October, 2 each in November, December and January, a total of 24 trips.
6. IMPROVEMENTS: With the special appropriation of \$40,000.00 a new salt water supply has been provided (the old sea water tank had become dangerous). The George H. Scripps

February 5, 1932.

RPS:2

laboratory has been thoroughly renovated; new water mains installed, etc., etc.

The building of Ritter Hall cut off the only paved road to Dr. Vaughan's house and the cottages above it. It has created an almost imperative need of a new road way in front of Ritter Hall. Dr. Vaughan is so anxious to have the work done that he has offered to contribute \$1,000.00 from his private purse, and I am inclined to recommend that your Aunt Ellen make a substantial contribution to this work. The \$40,000.00 fund was entirely exhausted with other urgent and vital needs.

7. METEOROLOGICAL WORK: The light and power companies have withdrawn their financial support, and the work of the Institution along weather forecasting lines will have to be radically curtailed. Drs. Ritter and Vaughan were very anxious that I should take the matter up with the power companies to see if they would not continue a reduced appropriation for next year. I may do so.

Sincerely yours,

J. C. Harper.

JCH:AR