

AIR POLLUTION FOUNDATION
BOARD OF TRUSTEES MEETING

AGENDA

Thursday, February 3, 1955
Room 1216, Southern California Gas Company
2:30 p.m.

A. Election of Temporary Chairman

- ✓1. Minutes of December 21, 1954; (correction - Asst. Secretary) *Balton*
- ✓2. Resolution to Amend Section II, Article 5 *(Description of Sec. Change in name)*
- ✓3. Resolution to Approve Employees (Section IV, Article 4);
Washington Representative *(list available for each)*
Mo. Brite
- ✓4. Report of Nominating Committee *Mullendow, Chm*

- ✓(a) Election of Members of Executive Committee ✓
- ✓(b) Election of New Trustees
- ✓(c) Board Representation from Newspaper Publishers' Association; From Other Areas

- ✓5. Report of Public Relations Committee — *{ Ostman }
{ Banks }*
- ✓6. (a) Report of Finance Committee
(b) Current Financial Statement *Lock*

- ✓7. Report of Research ^{Program} Committee

- 8. Review of Objectives *Any questions?*

- 9. Political Activities *Ass. Call*

- ✓10. Providing Speakers *L. Ha. { next speakers assigned }*

- 11. First Technical Program Report Meeting, Tuesday, February 15, 1955, 3:30 p.m. *7th & Flower*

- 12. Publications Issued or in Press.

13 Adjo 340

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2/2/55

Thanks for room

*action ✓
Dep't No
Rehd ✓
Pursh ✓
Actoy No*

\$20,000 Robinson - Harrigan

*Asst Treas Mr Weatherly
Mtg. Nov. 6 approved 55 program 1.5.55
+ stop gap - 2.2
L.A. report in follow up
co actions*



FEB 18 1955

In a letter to Mr. Reese H. Taylor
dated February 9, 1955, Mr. D. J. Russell,
President of the Southern Pacific Company,
accepted membership on the Board of Trustees.

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rd of Trustees

meeting of the Board of
ON was held on the 3rd day
rnoon in Room 1216, 810 S.

Marion Banks
Walter Braunschweiger
Asa V. Call
Lee A. DuBridge
Fred D. Fagg, Jr.
A. J. Gock
Roy M. Hagen
William C. Mullendore
Fred B. Ortman
Stephen W. Royce
James E. Shelton
Reese H. Taylor
P. G. Winnett

Also present were: Dr. Lauren B. Hitchcock, President;
Dr. W. L. Faith, Deputy Director; Mr. Earl C. Bolton, Assistant
Secretary; and Mr. Robert Weatherly, Assistant Treasurer.

The following Trustees were absent:

Raymond B. Allen
Arnold O. Beckman
Edward W. Carter
Charles F. Kettering
John A. McCone
Harvey S. Mudd
Alden G. Roach
Dr. J. Philip Sampson

In the absence of the Chairman and Vice-chairman of the Board,
Dr. DuBridge was unanimously chosen by the Trustees present to serve
as Chairman of the meeting and he accordingly presided. The minutes
were recorded by the Assistant Secretary.

AIR POLLUTION FOUNDATION

Minutes of Special Meeting of Board of Trustees
February 3, 1955

Pursuant to notice duly given, a special meeting of the Board of Trustees of the AIR POLLUTION FOUNDATION was held on the 3rd day of February, 1955, at 2:30 o'clock in the afternoon in Room 1216, 810 S. Flower Street, Los Angeles, California.

The following Trustees were present:

Marion Banks
Walter Braunschweiger
Asa V. Call
Lee A. DuBridge
Fred D. Fagg, Jr.
A. J. Gock
Roy M. Hagen
William C. Mullendore
Fred B. Ortman
Stephen W. Royce
James E. Shelton
Reese H. Taylor
P. G. Winnett

Also present were: Dr. Lauren B. Hitchcock, President; Dr. W. L. Faith, Deputy Director; Mr. Earl C. Bolton, Assistant Secretary; and Mr. Robert Weatherly, Assistant Treasurer.

The following Trustees were absent:

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Arnold O. Beckman
Edward W. Carter
Charles F. Kettering
John A. McCone
Harvey S. Mudd
Alden G. Roach
Dr. J. Philip Sampson

In the absence of the Chairman and Vice-chairman of the Board, Dr. DuBridge was unanimously chosen by the Trustees present to serve as Chairman of the meeting and he accordingly presided. The minutes were recorded by the Assistant Secretary.

The minutes of the Trustees' meeting of December 21, 1954, having been circulated among the Trustees, were approved after being corrected by the deletion of the last two words in paragraph 3, that is, the words "Assistant Secretary."

The Assistant Secretary reported that notice has been received from the Secretary of State of the State of California of the filing on January 20, 1954, of the amendment to the Articles of Incorporation changing the name of the corporation to AIR POLLUTION FOUNDATION. The Assistant Secretary recommended that Article V, Section 2 of the By-Laws be amended so that the seal of the Foundation would reflect this change. Upon motion made, seconded, and unanimously carried, it was

RESOLVED, that Section 2 of Article V of the By-Laws is hereby amended to read as follows:

"2. Seal. The seal of the Foundation shall be circular and shall contain the following:

'Air Pollution Foundation - California -
Incorporated November 18, 1953.' "

The Chairman of the meeting directed attention to Article IV, Section 4 of the By-Laws, which provides that appointments by the President shall be approved by the Board. Upon motion made, seconded, and unanimously carried, it was

RESOLVED, that the Board hereby ratifies and approves the following appointments by the President:

Morris Neiburger	Senior Meteorologist
Nicholas A. Renzetti	Senior Physicist
L. H. Rogers	Senior Chemist
J. B. Leiper	Public Information Officer
D. L. Kirby	Asst. Public Information Officer
Mary Althoff	Clerk-Stenographer
Marcia Barris	Clerk-Stenographer, Bus. Mgr. Ofc.
Albert J. Bratchell	Mimeo Room - General Utility
Nancy Druley	Clerk-Stenographer, P.I. Office
Elaine Foster	Secretary, P.I. Office
Caroline Greer	Clerk-Stenographer, P.I. Office
Anne Gyemant	Secretary to Deputy Director
Mary E. Keeler	Secretary to Director
Lee Kern	Secretary (Renzetti, Rogers, and Neiburger)
Virginia Kurth	Librarian
Helen Marcus	Editorial Asst.
Shirley Richartz	Library Clerk
Rita Tice	Technical Data Analyst
Carole Treghoff	Telephone Operator - Receptionist

relations counselors to the Foundation. A fee of \$20,000 will be paid to Robinson-Hannagan Associates, Inc. for the first six months of its services.

The President further reported that Mr. D. L. Kirby has been added to the staff of the Foundation to serve in public relations and liaison activities.

Mr. A. J. Gock, Chairman of the Finance Committee, presented a financial statement of the Foundation and a progress report of fund-raising activities to date. Detailed reports were distributed to the Trustees present.

The President reported that the Foundation's research program is progressing steadily, although a number of important research projects are in abeyance because of a shortage of funds. It is anticipated that in the near future some of these projects will be supported by contracts with the County of Los Angeles.

The President reported that the Foundation is preparing a list of speakers who will be available to make appearances in the community for the purpose of providing accurate and consistent information about the air pollution problem and the Air Pollution Foundation. The President reported that Trustees Banks, Beckman, and Braunschweiger have volunteered that a speaker from each of their respective organizations may be made available upon request to assist the Foundation in this program. The President requested that other Trustees who might be able to supply similar assistance communicate with him at their convenience.

The President made the following report concerning publications to be issued by the Foundation:

Report No. 2 entitled "Combustion and Smog" by Dr. Faith has recently been published and favorable comments have been received. An article by A. J. Haagen-Smit and M. M. Fox on the subject of automobile exhausts was recently reprinted by the Air Pollution Foundation from the periodical Air Repair. Report No. 3 on incinerators and other means of rubbish disposal will be available for distribution in about 10 days. Report No. 4 on basic statistics of the Los Angeles Basin and Report No. 5, the "First Technical Progress Report," will be available in the near future.

There being no further business before the meeting, it was adjourned.

/s/ Earl C. Bolton

Earl C. Bolton, Assistant Secretary

3/24/55

FEB 25 1955

For Board of Supervisors
Meeting, March 1, Tuesday,
9:00 a.m. - Fifth Floor,
Hall of Records

POLLUTION FOUNDATION
100 NORTH SPRING STREET
SANTA ANA, CALIFORNIA

RECEIVED FEBRUARY 29, 1954
(February 22, 1955)

Supervisors,

In re Research Contract Proposal
Aerometric Survey, Summer
and Fall, 1955
Project No. APF 40-55-1

The Foundation hereby submits the research proposal "Aerometric Survey, Summer & Fall, 1955", describing in some detail item 9 (e) of the research program submitted to you at your request in our letter of November 8, 1954, as an enclosure thereto.

Purpose of This Research Project

The purpose of this project is to measure continuously throughout the months of August, September, October, and November of 1955, pollutants, reaction products, and other factors in our environment which separately or in combination may be responsible for smog. In addition and on as quantitative a basis as possible observations on eye irritation and plant damage will be made.

Scope of Work

The scope of work to be performed under this proposed contract includes the following:

1. Provide equipment (automatic where feasible) for the measurement and recording of the various pollutants and reaction products as outlined in the enclosed proposal.
2. Provide for scientifically designed eye irritation, plant damage, and visibility surveys as manifestations of smog to correlate with the information obtained in (1) above.
3. Provide meteorological data as outlined on the enclosed proposal.
4. Provide for the systematic analysis of all data obtained in this survey.

AIR POLLUTION FOUNDATION
704 SOUTH SPRING STREET
LOS ANGELES 14, CALIFORNIA

DECEMBER 29, 1954
(Revised February 22, 1955)

The Honorable Board of Supervisors,
County of Los Angeles,
502 Hall of Records,
Los Angeles 12, California.

Gentlemen:

In re Research Contract Proposal
Aerometric Survey, Summer
and Fall, 1955
Project No. APF 40-55-1

The Foundation hereby submits the research proposal "Aerometric Survey, Summer & Fall, 1955", describing in some detail item 9 (e) of the research program submitted to you at your request in our letter of November 8, 1954, as an enclosure thereto.

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3. Provide meteorological data as outlined on the enclosed proposal.
4. Provide for the systematic analysis of all data obtained in this survey.

The Honorable Board of Supervisors

December 29, 1954
(Revised February 22, 1955)

5. Furnish well-qualified scientists to supervise all phases of this project.
6. Provide the Los Angeles County Air Pollution Control District with six (6) copies of a bound report not later than April 1, 1956.
7. All data hereunder will be made available to the District during the course of the project when and as obtained.

The Foundation undertakes this project with the understanding that it will use its best efforts to secure full and accurate scientific data on the experiments proposed herein and to insure that, in so doing, the funds are conserved to the maximum in the public interest. The Foundation also assumes responsibility for proper administration and supervision of this project.

Cooperation of the Los Angeles County Air Pollution Control District

The District agrees to assist the Foundation in whatever way it reasonably can in furthering the purposes of this contract: specifically, the District will provide whatever legal assistance may be required from time to time as in the arrangements with property owners to permit access to the observation sites; in making available such information, data, and other reference material as it may have; in reasonable consultation and advice for the guidance of the Foundation and its subcontractors when possible without interfering with its other commitments; and to permit use of its facilities to whatever extent feasible and practicable.

Cost of Research Contract and Payment

The Foundation will perform the services proposed herein for the total sum of Five Hundred Seventeen Thousand, Five Hundred and Fifty Dollars (\$517,550). Your attention is invited to the fact that in order for this program to be realistically underway by August 1, 1955, it will be necessary to immediately undertake the development and procurement of the equipment outlined in Attachment No. 1. to the enclosed proposal. Therefore, a first payment of One Hundred Twenty-Six Thousand and Fifty Dollars (\$126,050) is required by March 15, 1955. The remaining amount of the contract, Three Hundred Ninety-One Thousand, Five Hundred Dollars (\$391,500) is payable by the County of Los Angeles to the Foundation in six (6) equal monthly payments on the first of each month beginning August 1, 1955, and the sixth and final payment to be made contingent upon delivery to the Los Angeles County Air Pollution Control District by the Foundation of six (6) copies of its final report. The Foundation agrees to deliver this report to the District not later than April 1, 1956.

December 29, 1954

(Revised February 22, 1955)

The Honorable Board of Supervisors

In no case will the Foundation receive any financial profit for the performance of this research contract with the Los Angeles County Air Pollution Control District.

Ownership of Equipment

This Foundation agrees to turn over to the District upon the completion of this data, any usable equipment and supplies of value purchased under this contract.

Publication

The District grants the Foundation the right to publish the scientific findings obtained under this research contract as part of its series of technical reports for public information at the expense of the Foundation, full credit being shown in such report or publication to the Los Angeles County Air Pollution Control District as sponsor.

Respectfully submitted,

AIR POLLUTION FOUNDATION

By: L. B. Hitchcock
L. B. Hitchcock, President

LBH:NAR:mek
Enclosures & Attachments 1, 2, & 3

Distribution:

Each Supervisor
Chief Administrative Officer
County Counsel
Chief Clerk
Director, LACAPCD

(Enclosure to Proposal AFP 40-55-1 to The Honorable Board of Supervisors)

PROPOSAL
PROGRAM APF 40-55-1

Aerometric Survey - Summer, Fall, 1955

Purpose of This Research Project

The purpose of this project is to measure continuously throughout the months of August, September, October, and November 1955, pollutants, reaction products, and other factors in our environment which separately or in combination may be responsible for smog. In addition and on as quantitative a basis as possible, observations on eye irritation and plant damage will be made.

Scope of Work

The scope of the work to be performed under this project includes the following:

1. Provide automatic recording equipment for the measurement of oxidant at each of fifteen (15) stations. The Foundation assumes that eleven (11) recorders can be borrowed from the Los Angeles County Air Pollution Control District for this survey so that the enclosures reflect the additional cost of only four (4) more such recorders.
2. Provide automatic recording equipment for the measurement of oxides of nitrogen at each of fourteen (14) stations.
3. Provide automatic recording equipment for the measurement of carbon monoxide at each of fourteen (14) stations. The Foundation assumes that fourteen (14) recorders can be borrowed from the District.
4. Provide automatic recording equipment for the measurement of sulfur dioxide at each of the seven (7) stations.
5. Provide a plant damage study program at each of the fourteen (14) stations.
6. Provide an eye irritation survey at each of the fourteen (14) stations.
7. Provide measurements of hydrocarbons and aldehydes at fourteen (14) stations.
8. Provide relative humidity and temperature measurements at each of the fourteen (14) stations.

December 29, 1954

9. Provide automatic recording equipment for the measurement of visual range at each of six (6) stations.
10. Provide automatic hourly particulate sample measurements at each of two (2) stations.
11. Provide automatic daily particulate sample measurements at each of six (6) stations.
12. Provide solar radiation data at six (6) stations in cooperation with the Weather Bureau and the University of California.
13. Provide for surface wind observations at four (4) stations to expand the network operated in the past.
14. Provide upper wind data by the operation of five (5) balloon stations.
15. Provide data on inversion by measurements from captive balloons at two (2) stations.
16. Provide for measurements aloft of various pollutants as may be feasible at various altitudes and locations over the Los Angeles Basin, especially during periods of significant temperature inversions.
17. Provide measurements of various contaminants at other than fixed stations by mobile laboratory at selected times and places such as freeways over cycles of daily traffic.
18. Provide for reduction analyses and correlation of all data from Aerometric Survey.

Estimated Cost

\$517,550

LBH:NAR:mek

Attachments:

1. Summary of Capital Equipment Cost for Aerometric Survey-1955
2. Summary of Operating Costs (Estimate)
3. Analysis of Cost for Two Captive Balloon Stations
Analysis of Cost of Upper Wind Stations

AIR POLLUTION FOUNDATION

Attachment II

SUMMARY OF CAPITAL EQUIPMENT COST FOR AEROMETRIC SURVEY - 1955

Constituent or Phenomenon	Cost to Equipment Each	Number Needed	Total Cost
Oxidant*	\$ 5,000.00	4	\$ 20,000.00
Nitrogen oxides	2,000.00	14	28,000.00
Sulfur dioxide	4,000.00	7	28,000.00
Plants	---	--	---
Eye Irritation	---	--	---
Wind Instruments	2,000.00	4	8,000.00
Hygrothermographs	300.00	8	2,400.00
Visual Range (Transmissometers)	4,400.00	6	26,400.00
High Volume Sampler	150.00	5	750.00
Solar Radiation	1,000.00	1	1,000.00
Captive Balloon Stations	750.00	2	1,500.00
Upper Wind Stations	700.00	5	3,500.00
Blimp	5,000.00	1	5,000.00
Mobile Labs	1,500.00	1	1,500.00
			<hr/>
			\$126,050.00
			<hr/>
			<hr/>

* Modified to include measurement of oxidant precursor.

CO. omitted

SUMMARY OF OPERATING COSTS (ESTIMATE)
AEROMETRIC SURVEY S-F 1955 (4 mo.)

Constituent or Phenomenon	Number of Stations	Total Cost
Oxidant	15	(a)
Nitrogen Oxides	14	(b)
Carbon Monoxide	14	(c)
Hydrocarbons } Aldehydes }	14	\$126,000.00
Sulfur Dioxide	7	(d)
Plants	14	20,000.00
Eye Irritation	14	7,000.00
Wind Instruments	4	(e)
Hygrothermograph	14	(f)
Visual Range (Transmissometer)	6	(g)
Particulate Sampler (Hourly)	2	} 30,000.00
High Volume Sampler (Particulate)	7	
Solar Radiation	6	3,000.00
Captive Balloon Station	2	8,500.00
Upper Wind	5	27,000.00
Blimp (40 days)	1	10,000.00
Mobile Labs (40 days)	1	10,000.00
Total of a, b, c, d, e, f, and g		100,000.00
Analysis	All	50,000.00
		<u>\$391,500.00</u>

ANALYSIS OF COST FOR TWO CAPTIVE BALLOON STATIONS

Capital Equipment		\$ 2,500.00
Meteorographs, balloons, cord, and winches		
Operating Expenses		
Manpower - five men at \$325 per month	\$ 1,625.00/month	
Supplies	<u>200.00/month</u>	
	\$ 1,825.00/month	
Operating expenses for four months		<u>7,300.00</u>
Grand total		<u>\$ 9,800.00</u>

ANALYSIS OF COST OF UPPER WIND STATIONS

Stations: Caltech, Vernon, L. A. High, L. A. Airport, Downey

Tail Method, Single Theodolite

Two Men per Station per Shift

Capital Equipment		\$ 3,500.00
Five Theodolites at \$700.00		
Operating Expenses		
Manpower - two shifts per station	\$ 6,625.00/month	
Supplies - balloons, helium, etc.	<u>250.00/month</u>	
	\$ 6,875.00/month	
Operating expenses for four months		<u>27,500.00</u>
Grand total		<u>\$31,000.00</u>

December 29, 1954

February 24, 1955

Honorable Board of Supervisors
County of Los Angeles

Gentlemen:

**SUBJECT: Research Contract Proposal Aerometric Survey,
Summer and Fall, 1955.**

Some time in November 1954, the Chairman of the Board of Supervisors, with the approval of your Honorable Board, wrote a letter to the Air Pollution Foundation asking them to give to the Board a list of research projects that they thought were necessary to bring about some abatement of air pollution.

In the latter part of November this list of projects was transmitted to the Board for your information. In the accompanying letter it was proposed that the list of projects, totaling about \$2,200,000, should be divided between the Federal Government representing a proposed expenditure of approximately \$90,000 which, in their opinion, would be of nationwide interest; the State Government \$400,000 which they suggested would be of State-wide interest; the County \$900,000 which would be of specific interest to the official body of the County; and the balance of approximately \$800,000 would be borne by the Foundation itself.

It is true that in large research programs this is not a large amount of money as evidenced by the fact that the universities are spending more than that every year in medical research in our various hospitals including money secured from the Attending Staff Associations and grants from the Federal, State and private sources.

Later, your Board then authorized the Chairman to appoint a Committee of College Presidents to review these projects and advise them as to their desirability and validity. If some of these projects were accomplished, it would relieve the County's expenditure in its research work either to the extent it could be partially discontinued or other work of a needed nature could be carried on.

Due to pressing engagements of many of these people, it was impossible to secure a meeting until last Friday, February 18. At this meeting, the group of College Presidents organized under a temporary chairman, Dr. Arthur Coons of Occidental College, and agreed to set up further meetings in the very near future.

There is, however, one project that the Air Pollution Foundation believes is of most urgent necessity, known as the Aerometric Survey, which should begin in August or probably the middle of July.

The survey will gain much meteorological information for us and will spot locally the concentrations of air pollutants. Many good results will accrue that can be immediately put into effect as soon as these coordinated efforts have been analyzed and evaluated by properly qualified scientists with the Foundation and other groups.

The urgency at this time is to purchase equipment, much of which will have to be actually manufactured. This equipment will cost in the neighborhood of \$125,000 and must be designed, manufactured and made ready to operate at the beginning of the inversion period which is estimated to start some time in July. If this particular work is not started immediately, the survey cannot be made in the next inversion season which would be tragic in that it would postpone some of the solutions needed in our fight against air pollution.

The college Presidents assembled in this meeting voted unanimously to approve and recommend to your Honorable Board that this aerometric survey should be made and made this year or at the earliest possible moment. It was left up to the Board of Supervisors and to the administration to determine the cost of the survey.

Attached is a complete recommendation of the survey from the Air Pollution Foundation.

It is recommended

THAT your Honorable Board approve the attached budget adjustment in the amount of \$125,000 for the purchase of equipment and instruct the Chief Administrative Officer to include in next year's budget approximately \$425,000 to carry on the survey after the equipment is ready.

Very truly yours,

ARTHUR J. WILL
Chief Administrative Officer

AJV d

cc - Each Supervisor

RECEIVED
JUL 10 1968
AIR POLLUTION FOUNDATION

MAR 29 1955

LAW OFFICES
MUSICK, PEELER & GARRETT

621 SOUTH HOPE STREET
LOS ANGELES 17
MADISON 9-3322

ASSOCIATE TAX COUNSEL
MILLER & CHEVALIER
1001 CONNECTICUT AVENUE
WASHINGTON 6, D. C.

ELVON MUSICK
JOSEPH D. PEELER
LEROY A. GARRETT
JOHN M. ROBINSON
MELVIN D. WILSON
HAROLD F. COLLINS
DAVID P. EVANS
JAMES E. LUDLAM
ALBERT MOSHER
E. LEROY TOLLES, JR.
EUGENE T. GARRETT
CHARLES T. MUNGER
JOHN P. POLLOCK
JESSE R. O'MALLEY
BRUCE E. CLARK
MURRAY S. MARVIN
STUART T. PEELER
THEODORE A. McCABE, JR.

March 28, 1955

Dr. Lee A. DuBridge
California Institute of Technology
1201 East California
Pasadena 4, California

Dear Dr. DuBridge:

Inclosed you will find a copy of the
Minutes for the Executive Committee March 23, 1955
meeting. Copies have also been mailed to Dr. Allen,
Dr. Hitchcock and Mr. Bolton.

If you believe any changes should be made
in the draft, please let me know.

When the Minutes have been approved, I shall
sign and file the original.

Yours very truly,



for MUSICK, PEELER & GARRETT

MSM:bb
Incl

AIR POLLUTION FOUNDATION

**Minutes of Special Meeting
of the
Executive Committee of the Board of Trustees**

March 23, 1955

Pursuant to notice duly given, a special meeting of the Executive Committee of the Board of Trustees of the AIR POLLUTION FOUNDATION (being the first meeting of the Executive Committee) was held on the 23rd day of March, 1955, at 10:00 o'clock in the morning in Room 810, 704 South Spring Street, Los Angeles, California.

The following Executive Committee members were present:

Raymond B. Allen
Arnold O. Beckman
Lee A. DuBridge
A.J. Gock
Fred B. Ortman
James E. Shelton

Also present were: Dr. Lauren B. Hitchcock, President; Mr. Earl C. Bolton, Assistant Secretary; and Mr. Harvey S. Mudd, Trustee. Murray S. Marvin acted as temporary secretary of the meeting and recorded the minutes.

The following Executive Committee members were

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PAGE CONTENT

absent:

Marion Banks
Asa V. Call
Reese H. Taylor

Dr. Raymond B. Allen, Chairman of the Board, presided.

The meeting proceeded to the election of a Vice-President of the Board of Trustees. President Hitchcock described the work being accomplished by Dr. W. L. Faith in his capacity as Deputy Director. Upon motion made, seconded and unanimously carried, Dr. W. L. Faith was elected to the office of Vice-President of the Foundation in addition to his position as Deputy Director, at his current salary. Dr. Faith then joined the meeting.

Mr. A. J. Gock, Chairman of the Committee on Finance, then read a progress report from Mr. John D. Burton outlining the Foundation's 1955 Contributions Program. Contributions received to March 23, 1955, amount to \$348,000.00. It was pointed out that prospects for renewed contributions on various gift anniversary dates during the rest of the year were favorable. Present commitments total \$500,000.00 and \$250,000.00 in additional funds must be obtained from new private supporters prior to the end of the year in order to meet anticipated expenditures. After examining the budget for 1955, the meeting discussed means of contacting the five industry groups

for which no particular Trustee is presently responsible.

The Report on Financial Statements showing the Foundation's financial position as of December 31, 1954, audited by Price Waterhouse & Co. was distributed to the meeting and a copy was ordered filed.

The meeting next considered security clearance requirements, and upon the following findings and upon motion made, seconded and unanimously carried, it was resolved, as follows:

WHEREAS, The Armed Forces Industrial Security Regulation issued by the Department of Defense establishes procedures for granting security clearances to private contractors' facilities where access to classified security information is required for contractual or other purposes, and this Security Regulation is applicable to this Corporation; and

WHEREAS, This Security Regulation requires personnel security clearances for all directors who will require access to classified security information in the conduct of the corporate business except those directors who are United States citizens and who are designated by name by the Board of Trustees as not requiring access to classified matter;

RESOLVED, that the Trustees of Air Pollution Foundation who will have no access to classified matter and who do not require access to classified matter are:

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Raymond B. Allen	University of California at Los Angeles 405 Hilgard Avenue Los Angeles 24, California	United States of America

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Charles F. Kettering	General Motors Corporation 3044 West Grand Blvd. Detroit 2, Michigan	United States of America
John Alex McCone	Joshua Hendy Corporation 612 South Flower Street Los Angeles 17, California	United States of America
Harvey Seeley Mudd	Cyprus Mines Corporation 523 West Sixth Street Los Angeles 14, California	United States of America
William C. Mullendore	Southern California Edison Company 601 West Fifth Street Los Angeles 17, California	United States of America
Fred B. Ortman	Gladding, McBean & Company 2901 Los Feliz Boulevard Los Angeles 39, California	United States of America
Alden G. Roach	Columbia-Geneva Steel Div & Consolidated Western Steel Division United States Steel Corporation P. O. Box 2015, Terminal Annex Los Angeles 54, California	United States of America
Stephen Wheeler Royce	Huntington-Sheraton Hotel 1401 South Oak Knoll Pasadena 5, California	United States of America
D. J. Russell	Southern Pacific Company 65 Market Street San Francisco 5, California	United States of America
John Philip Sampson	Los Angeles County Medical Association 2200 Santa Monica Blvd. Santa Monica, California	United States of America
James E. Shelton	Security-First National Bank 561 South Spring Street Los Angeles 13, California	United States of America
Reese Hale Taylor	Union Oil Company of Calif. 617 West Seventh Street Los Angeles 17, California	United States of America

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Arnold O. Beckman	Beckman Instruments, Inc. 2500 Fullerton Road Fullerton, California	United States of America
John Leland Atwood	North American Aviation, Inc. Los Angeles International Airport Los Angeles 45, California	United States of America
F. M. Banks	Southern California Gas Company 810 South Flower Street Los Angeles 14, California	United States of America
Garner A. Beckett	Riverside Cement Company Room 1100, 621 So. Hope St. Los Angeles 17, California	United States of America
Walter Braunschweiger	Bank of America 660 South Spring St. Los Angeles 14, California	United States of America
Asa Vickry Call	Pacific Mutual Life Insurance Company 523 West Sixth Street Los Angeles 14, California	United States of America
Edward William Carter	Broadway-Hale Stores, Inc. 401 South Broadway Los Angeles 13, California	United States of America
Lee A. DuBridge	California Institute of Technology 1201 East California Pasadena 4, California	United States of America
Fred D. Fagg, Jr.	University of Southern California 3551 University Avenue Los Angeles 7, California	United States of America
A. J. Gock	Bank of America 660 South Spring Street Los Angeles 14, California	United States of America
Roy M. Hagen	California Consumers Corporation 230 West Jefferson Blvd. Los Angeles 7, California	United States of America

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Percy G. Winnett	Bullock's, Inc. 601 South Westmoreland Ave. Los Angeles 5, California	United States of America

and that this action of the Board is taken for the purpose of exempting the aforesaid Trustees from the necessity of security clearance pursuant to the provision of the Armed Forces Industrial Security Regulation.

President Hitchcock then proposed that the Foundation adopt a group insurance plan, and explained the coverage and low cost of such policies. Upon motion made, seconded and unanimously carried, it was

RESOLVED, that the President is hereby authorized to apply to the Pacific Mutual Life Insurance Company for a policy of group insurance covering the employees of the AIR POLLUTION FOUNDATION.

The meeting then discussed increasing the number of the members of the Board of Trustees in order to obtain a broader representation of the community. Upon motion made, seconded and unanimously carried, it was

RESOLVED, that the Nominating Committee be requested to recommend to the Executive Committee names of prominent citizens respected by the whole community, as possible candidates for election to an increased Board of Trustees.

President Hitchcock then announced the employment of two additional persons by the Foundation. Upon motion made, seconded and unanimously carried, it was

RESOLVED, that the Board hereby ratifies and approves the following appointments by the President:

Dorothy Bret
Warren Young

Assistant Librarian
Messenger Chauffer

The Chairman commented briefly on the "greenhouse project" assigned to the University of California at Los Angeles and reported that the State of California would support this project with a total of \$800,000.00 over a two-year period.

Mr. J. B. Leiper was then invited to the meeting to report on public relations. He stated that the services of Robinson-Hannagan Associates, Inc., public relations counselors, have been satisfactory. Mr. Leiper outlined the progress in public information already accomplished in the field of moving picture shorts, newspaper pictures and school information plans. Copies of information kits on smog, for use by the press, radio, television and speakers, were distributed to the meeting. Proposed in-plant programs and television and radio stories about the work of the Foundation were outlined. Mr. Leiper explained that duplication of public information material was being avoided by coordinating the Foundation's work with that of the Los Angeles County Air Pollution Control District and other organizations.

The Chairman then called upon Dr. W. L. Faith to present the Research Committee's Report. Dr. Faith explained which project reports would be completed in the near future, what progress was being made in active projects and in what fields new research was necessary. He particularly stressed the significance of the Stanford Research Institute's recent

success in the production of true smog in a reaction chamber.

There being no further business before the meeting,
it adjourned.

Temporary Secretary

Stewart

ERASABLE
ONION SKIN
RAS CONTENT

March 31, 1955

Mr. Murray S. Marvin
Musick, Peeler & Garrett
621 South Hope Street
Los Angeles 17, California

Dear Mr. Marvin:

My only comment on the draft of the Minutes of the Executive Committee meeting on March 23 of the Air Pollution Foundation is that I think it should be stated that Dr. Raymond B. Allen not only presided at the meeting, but was duly elected as Chairman of the Executive Committee. It is my understanding that the by-laws of the Foundation do not provide specifically that the Chairman of the Board shall be Chairman of the Executive Committee, but that a motion electing Dr. Allen Chairman of the Executive Committee was duly made and passed. This, it seems to me, should be on the record.

Otherwise, the minutes seem to report correctly the proceedings of the meeting.

Very truly yours,

L. A. DuBridge

LAD:il

cc: Dr. Lauren B. Hitchcock

APR 1 1955

AIR POLLUTION FOUNDATION
704 South Spring Street
Los Angeles 14, California

March 31, 1955

PERSONAL & CONFIDENTIAL

To: All Members of the Board of Trustees

Gentlemen:

At the Executive Committee Meeting on March 23, 1955, Chairman Allen asked me to send each of you a statement of some of the background for the Resolution unanimously adopted by the meeting as set forth on the bottom of Page 5 of the enclosed minutes.

Extensive discussion took place at the meeting on the question of broadening the membership on the Board of Trustees so that it might be more truly a cross section of the community. As Mr. Harvey Mudd expressed it during the discussion, "We wish to consider the election to the Board of additional responsible citizens who will speak for the public,"

I brought to the attention of the Executive Committee what I thought was becoming a serious fundamental policy problem and set forth such evidence and indications of this as I was able to do in a few minutes. Dr. Allen and Dr. DuBridge confirmed such part of the statements as they were able to do from firsthand knowledge, having been present at public hearings of the Board of Supervisors when some of the statements were made. Mr. Call was present at these hearings also, but was unable to attend this meeting of the Executive Committee.

To summarize the essential conclusions and propositions:

1. The question of our objectivity is being raised increasingly by people whose opinions cannot be ignored. (Members of the Board of Supervisors, Los Angeles County; certain leading radio news chiefs; certain officials of the U. S. Public Health Service, Air Pollution Division, etc.) We are doubtless all aware of this type of hue and cry from the Citizens Anti-Smog Committee (Packard-Lee), Pure Air

Committee, and other very vocal "protest" groups and individuals, which we have consistently ignored officially.

2. The Foundation, as a "public-spirited group of civic leaders" would, in the opinion of leaders in this country and abroad, be wise to make our "cross section" a more realistic one.

3. The election of a significant number, up to perhaps eleven, new Trustees would be an added safeguard against the appearance of bias favoring big industry.

The sixty-four-dollar question that is being asked more and more frequently by responsible members of the community who appear to be sincere, earnest, and objective is, "How can the Foundation possibly be objective about the various contributions of industry to air pollution, when the Foundation derives most of its financial support from industry?"

The problem is not one of fact, but attitude. We know that we are being really objective and impartial in our fact-finding and recommendations. The mere assertion of this does little to change the attitude. But there are a number of steps we can take which may help to correct this attitude. Among these are:

1. Broadening the Board membership as suggested above.
2. Appearances by some of our Trustees on television, radio, and other public platforms to make statements about the Foundation's activities.
3. Occasional statements by some of the Trustees, individually and one at a time, through the press in the form of letters, articles, or interviews.
4. Publication by the Foundation of its technical reports, now in press and coming along within the next few months, which should do much to evidence our sincerity of purpose and objectivity, to the extent that these reports are read or become known to the people concerned. In other words, we still have faith that "by our deeds we shall be known."
5. A group of speakers provided by Trustees' and Contributors' organizations has been formed and will be


To: All Members of the Board of Trustees

Page 3

undertaking various speaking engagements before neighborhood groups, etc.

The Executive Committee has requested the Nominating Committee to submit a list of nominees for consideration at the next meeting of the Board, now scheduled for Wednesday, April 27, 1955, at 3:30 p. m. in the afternoon in the board room of the Southern California Gas Company.

Sincerely yours

A handwritten signature in cursive script that reads "L. B. Hitchcock".

L. B. Hitchcock

LBH:mek

AIR POLLUTION FOUNDATION

MEETING OF
EXECUTIVE COMMITTEE OF
BOARD OF TRUSTEES

Wednesday, March 23, 1955
Room 810, 704 South Spring Street
10:00 a. m.

1. Minutes of February 3, 1955
2. a) Report of Finance Committee
b) Price Waterhouse & Company Audit
3. Report of Research Committee
4. Report of Public Relations Committee
5. U. S. Army Chemical Corps Resolution; Exemption of Trustees from Security Clearances
6. Proposal for Group Insurance
7. Election of Vice President
8. Confirmation of New Employees
9. Approval to send Copies of Minutes of Board Meetings and Executive Committee Meetings to Automobile Manufacturers Association for Dr. Kettering
10. a) Support by State of California
b) Support by County
c) Support by Certain Industries

Attachments:

- A. Progress Report by John Burton
- B. Schedule of Estimated Income & Expenditures
- C. Price Waterhouse & Company Audit

Contributions Program. Contributions received to March 23, 1955 amount to \$348,000. It was pointed out that prospects for renewed contributions on various gift anniversary dates during the rest of the year were favorable. Present commitments total \$500,000, and \$250,000 in additional funds must be obtained from new private supporters prior to the end of the year in order to meet anticipated expenditures. (Attachments "A" and "B") After examining the budget for 1955, the meeting discussed means of contacting the five industry groups for which no particular Trustee is presently responsible.

The Report on Financial Statements showing the Foundation's financial position as of December 31, 1954, audited by Price Waterhouse & Company, was distributed to the meeting and a copy was ordered filed. (Attachment "C")

A resolution of thanks was unanimously voted to Price Waterhouse & Company for their public-spirited action in donating their services as auditors, and the Secretary was instructed to transmit a copy of this resolution to Mr. Thornton Douglas, Senior Partner of the West Coast office in Los Angeles.

The meeting next considered security clearance requirements, and upon the following findings and upon motion made, seconded, and unanimously carried, it was resolved as follows:

WHEREAS, The Armed Forces Industrial Security Regulation issued by the Department of Defense establishes procedures for granting security clearances to private contractors' facilities where access to classified security information is required for contractual or other purposes, and this Security Regulation is applicable to this Corporation; and

WHEREAS, This Security Regulation requires personnel security clearances for all directors who will require access to classified security information in the conduct of the corporate business except those directors who are United States citizens and who are designated by name by the Board of Trustees as not requiring access to classified matter;

RESOLVED, that the Trustees of Air Pollution Foundation who will have no access to classified matter and who do not require access to classified matter are:

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Raymond B. Allen	University of California at Los Angeles 405 Hilgard Avenue Los Angeles 24, California	United States of America
John Leland Atwood	North American Aviation Inc. Los Angeles International Airport Los Angeles 45, California	United States of America
F. M. Banks	Southern California Gas Company 810 South Flower Street Los Angeles 14, California	United States of America
Garner A. Beckett	Riverside Cement Company Room 1100, 621 S. Hope St. Los Angeles 17, California	United States of America
Arnold O. Beckman	Beckman Instruments, Inc. 2500 Fullerton Road Fullerton, California	United States of America
Walter Braunschweiger	Bank of America 660 South Spring Street Los Angeles 14, California	United States of America
Asa Vickry Call	Pacific Mutual Life Insurance Company 523 West Sixth Street Los Angeles 14, California	United States of America
Edward William Carter	Broadway-Hale Stores, Inc. 401 South Broadway Los Angeles 13, California	United States of America

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Lee A. DuBridge	California Institute of Technology 1201 East California Pasadena 4, California	United States of America
Fred D. Fagg, Jr.	University of Southern California 3551 University Avenue Los Angeles 7, California	United States of America
A. J. Gock	Bank of America 660 South Spring Street Los Angeles 14, California	United States of America
Roy M. Hagen	California Consumers Corporation 230 West Jefferson Blvd. Los Angeles 7, California	United States of America
Charles F. Kettering	General Motors Corporation 3044 West Grand Blvd. Detroit 2, Michigan	United States of America
John Alex McCone	Joshua Hendy Corporation 612 South Flower Street Los Angeles 17, California	United States of America
Harvey Seeley Mudd	Cyprus Mines Corporation 523 West Sixth Street Los Angeles 14, California	United States of America
William C. Mullendore	Southern California Edison Company 601 West Fifth Street Los Angeles 17, California	United States of America
Fred B. Ortman	Gladding, McBean & Company 2901 Los Feliz Boulevard Los Angeles 39, California	United States of America
Alden G. Roach	Columbia-Geneva Steel Div & Consolidated Western Steel Div. of America United States Steel Corporation P. O. Box 2015, Terminal Annex Los Angeles 54, California	United States of America

<u>Full Name</u>	<u>Address</u>	<u>Citizen of</u>
Stephen Wheeler Royce	Huntington-Sheraton Hotel 1401 South Oak Knoll Pasadena 5, California	United States of America
D. J. Russell	Southern Pacific Company 65 Market Street San Francisco 5, California	United States of America
John Philip Sampson	Los Angeles County Medical Association 2200 Santa Monica Blvd. Santa Monica, California	United States of America
Reese Hale Taylor	Union Oil Company of Calif. 617 West Seventh Street Los Angeles 17, California	United States of America
Percy G. Winnett	Bullock's, Inc. 601 South Westmoreland Ave. Los Angeles 5, California	United States of America

and that this action of the Board is taken for the purpose of exempting the aforesaid Trustees from the necessity of security clearance pursuant to the provision of the Armed Forces Industrial Security Regulation.

President Hitchcock then proposed that the Foundation adopt a group insurance plan, and explained the coverage and low cost of such policies. Upon motion made, seconded, and unanimously carried, it was

RESOLVED, that the Foundation is hereby authorized to offer group insurance to the employees of the Air Pollution Foundation in accordance with a plan submitted by Pacific Mutual Life Insurance Company and to contribute one-half of the cost of such insurance.

The meeting then discussed filling eleven existing vacancies on the Board of Trustees in such a way as to obtain a broader representation of the community. Upon motion made, seconded, and unanimously carried, it was

RESOLVED, that the Nominating Committee be requested to recommend to the Board of Trustees names of prominent

COPY

Attachment "A"

JOHN D. BURTON
Public Relations Counsel
601 West Fifth Street
Los Angeles 17, California
MUtual 7205

March 23, 1955

Executive Committee
Air Pollution Foundation

Gentlemen:

At the request of Mr. Gock, the attached Progress Report of our 1955 Contributions Program has been prepared for your information and consideration.

As you will note, 1955 contributions to date have been received from 10 of the 22 Industry Groups in the amount of \$ 348,000. These contributions represent the support of 79 companies. No company has refused support to date and only one company has reduced the amount of its original contribution (from \$ 750 to \$ 500). The 4 companies represented by the Los Angeles Newspaper Publishers Association doubled their previous contribution this year (to \$ 2,000) and have promised continued support in publicizing the Foundation's activities. Also, although it has not yet been received, is the good news that the Automobile Manufacturers Association and Ford Motor Company, through the efforts of Mr. Taylor, are contributing \$ 100,000 this year - an increase of \$ 45,000 and \$ 20,000 more than this quota requirement established for this industry.

Although only one new contribution has been received to date (\$ 250 from Voit Rubber Company), solicitation plans are in progress with several Industry Groups to enlist the support of additional firms. Many conferences have been held with Trustees and others in organizing plans and procedures, preparing lists and letters, etc., which will shortly result in new contributions. In this connection, plans of the groups headed by Messrs. Braunschweiger, McCone, Mullendore, Ortman, and Roach are in progress, and plans for the groups headed by Messrs. Beckman, Hagen, and Winnett should be completed this month.

Of considerable concern, however, is the Trustee leadership needed for the 5 Industry Groups not covered. These groups are: Chemicals and Compounds, Construction, General Manufacturing & Textiles, Real Estate, and Transportation. We will greatly appreciate your suggestions

COPY

Executive Committee
Air Pollution Foundation
March 23, 1955

Attachment "A"
Page 2

pertinent to the proper people to assist with these classifications in the interest of attaining the \$750,000 needed for 1955.

Sincerely yours,

/s/ John D. Burton

John D. Burton

JDB:b

TO: Committee
Dr. Raymond B. Allen
Mr. F. M. Banks
Dr. Arnold O. Beckman
Mr. Asa V. Call
Dr. Lee A. DuBridge
Mr. A. J. Gock
Mr. Fred B. Ortman
Mr. James E. Shelton
Mr. Reese H. Taylor

Others
Dr. L. B. Hitchcock
Mr. Leroy A. Garrett

AIR POLLUTION FOUNDATION

1955 CAMPAIGN PROGRESS REPORT
(March 23, 1955)

<u>Industry Group</u>	<u>Trustee Responsibility</u>	<u>Contributions Required</u>	<u>Contributions Received</u>
Auto Assembly	Taylor	\$ 80,000	\$ -
Aviation Mfg. & Parts	Mullendore	50,000	-
Basic Metals & Can Mfg.	Roach	100,000	50,000
Building Materials & Cement Mfg.		12,500	-
Chemicals & Compounds		25,000	200
Clay & Pottery Products	Ortman	7,500	4,550
Construction (Architects, Building & Engineering)		20,000	8,500
Electrical Products	Banks	2,500	-
Electronics & Equipment	Beckman	7,500	-
Finance (Banks, Finance Com- panies, Investments, Insurance, Savings & Loan)	McCone	50,000	32,500
Food Processing (Bakers, Beverages, Brewers, Canners, Growers, Meat & Poultry Packers, Milk Products, Wholesale Food Distributors)	Hagen	35,000	-
General Mfg. & Textiles		20,000	-
Hotels	Royce	10,000	-
Motion Pictures	Fagg	25,000	-
Oil Companies	Taylor	200,000	200,000
Race Tracks	Winnett	12,000	-
Radio, T, V. & News- papers	Carter	5,000	2,000
Real Estate		3,000	-
Retail	Winnett	10,000	-
Rubber Manufacturing	Braunschweiger	15,000	250
Transportation (Airlines, Trucking, Railroads)		20,000	10,000
Utilities	Banks	<u>40,000</u>	<u>40,000</u>
	TOTAL	\$750,000	\$348,000

BY-LAWS*
of the
AIR POLLUTION FOUNDATION
A California Nonprofit Corporation

Article I
MEMBERS OF THE FOUNDATION

The Foundation shall have no members other than the persons constituting its Board of Trustees, who shall exercise all the rights and powers of members.

Article II
BOARD OF TRUSTEES

1. Powers and Number. The powers of the Foundation shall be exercised, its property controlled, and its affairs conducted by a Board of Trustees, consisting of 35 Trustees.

2. Qualification. Any adult person may be elected a Trustee. Upon his election each Trustee shall give to the Secretary for the records of the Foundation, his address and a telephone number at which he can normally be reached during business hours, and thereafter he shall notify the Secretary of any changes in such address and telephone number.

3. Election and Term of Office. As soon as practicable the Trustees shall elect a full Board which shall be divided into one group of eleven, whose terms shall expire at the annual meeting of 1955, and two groups of twelve, whose terms shall expire, respectively, at the annual meetings of 1956 and 1957. The terms of newly created offices shall be determined by lot. At each annual meeting, commencing in 1955, the Board shall elect a number of Trustees equal to the number whose terms are expiring, and each Trustee so elected shall serve until the annual meeting of the third succeeding year, and thereafter until the election of his successor.

4. Vacancies. Any vacancy in the Board may be filled by the Board or by a majority of the remaining Trustees, though less than a quorum. A vacancy may be filled only for the unexpired portion of the term of the previous incumbent.

5. Compensation. Each Trustee shall serve without compensation for his services as such, but may be reimbursed for expenses incurred on behalf of the Foundation.

* Incorporating all amendments through February 3, 1955.

6. Officers of the Board. The officers of the Board shall be a Chairman, a Vice-chairman, and a Treasurer, who shall be chosen by the Board from among the Trustees to serve at the pleasure of the Board. The Treasurer shall also serve as the Treasurer of the Foundation.

7. Chairman of the Board. The Chairman of the Board shall preside at all meetings and shall have the usual powers of a presiding officer.

8. Vice-chairman. The Vice-chairman, in the absence or disability of the Chairman, shall perform the duties of the Chairman.

9. Treasurer. The Treasurer shall be the principal fiscal officer of the Foundation. He shall supervise and study its financial activities and affairs and shall make recommendations to the Board and to the Chairman of the Board.

10. Executive Committee. The Board shall create an Executive Committee, which shall be composed of nine Trustees. The Board shall fill vacancies in the Executive Committee and may remove and replace members of the Executive Committee at any time. The President shall have the authority to appoint any Trustee to serve as an alternate member of the Executive Committee in the place of a member who is not present at a meeting. A quorum of the Executive Committee shall consist of five of its members or their alternates appointed by the President. The Board may by resolution delegate to the Executive Committee any and all of the powers and authority of the Board in the management of the business and affairs of the Foundation except the power to adopt, amend, or repeal By-Laws. The Executive Committee may appoint its own Chairman and may from time to time designate by resolution the time and place for regular meetings. The provisions of these By-Laws concerning notice of meetings of the Board shall apply also to meetings of the Executive Committee.

Article III MEETINGS OF THE BOARD

1. Annual Meeting. Commencing in 1954, the annual meeting of the Board shall be held at the office of the corporation at three o'clock in the afternoon of the 2nd Monday of December of each year, or if that day is a holiday on the next business day thereafter.

2. Regular Meetings. The regular meetings of the Board shall be held at such time and place as may be fixed from time to time by resolution of the Board.

3. Special Meetings. At the direction of the Board, or of the Chairman of the Board, or of the President, or of any three Trustees, special meetings may be held at any time and place on notice sent to the Trustees, not less than 96 hours prior to the time of such meeting if mailed, and not less than 48 hours prior to the time of such meeting if telegraphed or personally delivered.

4. Notices. No notice of an annual or of a regular meeting shall be required. Notice of the time and place of a special meeting shall be mailed, telegraphed, or otherwise transmitted in writing to each Trustee at his address appearing on the records of the Foundation. Notices need not specify the matters to be placed on the agenda of the meeting. Notice to any Trustee whose address does not appear on the records of the Foundation shall be effective if directed to General Delivery, Los Angeles, California.

5. Quorum. Twelve Trustees shall constitute a quorum for the transaction of business at any meeting of the Board. If a quorum is once present, business may continue to be transacted by a majority of those present at a meeting notwithstanding the withdrawal of enough members to leave less than a quorum.

6. Voting. Each Trustee present shall be entitled to one vote on each matter placed before the meeting and no Trustee may vote by proxy. At an annual meeting the Trustees whose terms are expiring may be re-elected and until the election of their successors shall be entitled to vote upon all matters, including the election of their successors.

7. Waiver, Consent or Approval. The transactions of any meeting of the Board, however called or noticed and wherever held, shall be valid as though at a meeting duly held after regular call and notice if a quorum is present, and if, either before or after the meeting, each of the Trustees not present signs a written waiver of notice, or a consent to the holding of such meeting, or an approval of the minutes thereof.

Article IV OFFICERS, EMPLOYEES AND AGENTS

1. Appointment and Removal. The Board shall have the power to appoint and remove at its pleasure all officers, employees, and agents of the Board and of the Foundation, to prescribe their duties, to fix their compensation, and to require any of them to furnish a satisfactory surety bond.

2. Officers. In addition to the Treasurer of the Foundation, whose duties are prescribed in Section 9 of Article II, the officers of the

depositories as may be designated by the Board, all money, securities, and other valuables held by the Foundation.

(iii) disburse funds as ordered by the Board; and

(iv) render to the Trustees annually and upon request at any time a full accounting of the financial transactions of the Foundation.

9. Other Officers. Other Officers shall have such titles, powers, and duties as may be prescribed by the Board.

Article V
MISCELLANEOUS

1. Office. The principal office of the Foundation shall be at Suite 1300, 621 South Hope Street, Los Angeles 17, California. The Board at any time may change the principal office or establish additional offices.

2. Seal. The seal of the Foundation shall be circular and shall contain the following:

"Air Pollution Foundation - California - Incorporated
November 18, 1953."

3. Amendments. These By-Laws may be amended or repealed or new By-Laws adopted by the vote or written assent of a majority of the Trustees or by the vote of a majority of a quorum at a meeting of Trustees duly held.

The Honorable AIR POLLUTION FOUNDATION
704 South Spring Street
Los Angeles 14, California

March 31, 1955

The Honorable Board of Supervisors
County of Los Angeles
502 Hall of Records
Los Angeles 12, California

Gentlemen: Subject: Air Monitoring Program

We are very glad to learn of your approval on March 22 for the purchase of equipment by the Air Pollution Control District in the amount of \$126,500 for an accurate and adequate measurement of certain critical air pollutants. This equipment will also be helpful in carrying out the emergency warning system. At the request of the District, our engineers have already met with theirs to expedite development of specifications, since much of this apparatus has to be built. We will do all we can to help get this equipment delivered in time to be of use this season.

This equipment will prove to be of still further benefit beyond the seasonal measurements suggested in our recommendation for a 1955 aerometric survey, if you adopt the emergency warning plan recommended by the Warren committee, and the continuous 14-station air monitoring program which it proposes. We think this is an excellent plan and one which will afford the Los Angeles metropolitan area much essential information from day to day on the extent and severity of its atmospheric pollution. This should enable the community to know when emergency corrective measures should be taken, as well as to point the way to further controls and remedies of a permanent nature.

While we in the Foundation believe that there is additional fact-finding needed to expedite solution of our smog problem, as outlined in the report you requested from us last November, the air monitoring plan by the District you now have under consideration should go far toward accomplishing what we recommended in our aerometric survey proposal. We accordingly recommend that our proposal dated December 29, 1954 (revised February 22, 1955) pertaining to the 1955 Aerometric Survey, be withdrawn, in order to facilitate early implementation of the District's program.

COPY

AIR POLLUTION FOUNDATION
704 South Spring Street
Los Angeles 14, California
March 23, 1955

Mr. S. Smith Griswold, Director,
Los Angeles County Air Pollution
Control District,
434 South San Pedro,
Los Angeles 13, California

Dear Mr. Griswold:

The Board of Trustees of the Air Pollution Foundation has asked me to convey to you their hearty congratulations on your appointment as Director of the Los Angeles County Air Pollution Control District, and to express to you their confidence in your excellent qualifications, backed by your many years of County government experience, for this very important position.

Please be assured of the Foundation's continued, wholehearted support of the Air Pollution Control District under your direction, and of this organization's complete cooperation at all times.

The Trustees voted unanimously that the Foundation stand ready to give you every assistance in the most important tasks immediately facing you, including the purchase and installation of air sampling instruments for 14 stations and the conduct of the program of measurements thereafter.

We are aware that the setting up of these stations, properly equipped, is not only vital to the carrying out of an aerometric survey such as we have recommended for this summer, but is also a prerequisite for the smog warning service recommended to the County by the committee of medical experts headed by Dr. Stafford Warren, Dean of the School of Medicine of the University of California at Los Angeles.

In closing, may I add my personal congratulations to those voiced today by our Board of Trustees in a unanimous vote, and extend to you every best wish for success and high achievement in your new post.

Sincerely yours,

/s/ L.B. Hitchcock

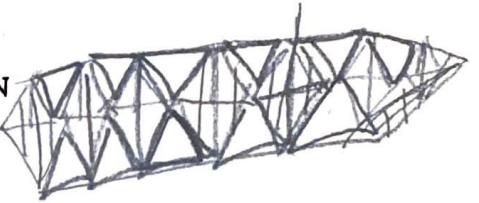
LBH:mek

L.B. Hitchcock

cc: Arthur J. Will

W. O. G. A.

AIR POLLUTION FOUNDATION
MEETING OF
EXECUTIVE COMMITTEE OF
BOARD OF TRUSTEES



Wednesday, April 13, 1955
Sixth Floor, Board Room, 523 West 6th Street,
10:30 a. m.



Agenda

1. Election of Chairman
2. Minutes of Meeting of March 23, 1955
3. Selection of leaders for certain industry groups on Finance Committee
4. Federal Air Pollution Research
5. State Air Pollution Research (Memo 4/5 and 4/6/55)
6. W. O. G. A. comment (Memo 4/7/55)
7. Other Business

APR 8 1955

AIR POLLUTION FOUNDATION
704 SOUTH SPRING ST.
Los Angeles 14, California

April 7, 1955

TO ALL MEMBERS OF THE EXECUTIVE COMMITTEE

Notice is hereby given that a Special Meeting of the Executive Committee of the Board of Trustees of the Air Pollution Foundation will be held in the ~~office of Mr. Asa V. Call~~, *Board Room, 6th Floor* Pacific Mutual Life Insurance Company, 523 West Sixth Street, Los Angeles, California, on Wednesday, *10:30* ~~April 13, 1955, at 10:00 a.m.~~ in the morning.

Your presence is urgently requested in order that a quorum is assured.

By direction of the President

/s/ Earl C. Bolton
Earl C. Bolton, Assistant Secretary

ECB

AIR POLLUTION FOUNDATION
704 South Spring Street
Los Angeles 14, California

April 7, 1955

PERSONAL & CONFIDENTIAL

To: Members of the Executive Committee

Subject: Meeting of Smoke and Fumes Committee, Western Oil and Gas Association

At the invitation of Mr. Magruder, Executive Vice President of General Petroleum Corporation and Chairman of the Smoke and Fumes Committee, Dr. Faith and I attended a luncheon meeting in the California Club, Wednesday, April 6, to meet with the committee. The purpose of the meeting was to provide an opportunity for informal discussion of the oil industry's stack emissions (non-hydrocarbon pollutants), as set forth in the Stanford Research Institute Report distributed by the Western Oil and Gas Association, January 1954. This luncheon meeting was the outgrowth of several conversations and meetings which I have had with Mr. Magruder in the past month.

Upon invitation of Mr. Magruder, I explained to the committee that in the course of Foundation studies of principal sources of pollution in the Basin, we had gotten around to industrial stack emissions of combustion products, and that the Department of Water and Power of the City of Los Angeles, as well as the Southern California Edison Company, had individually and voluntarily come to us and requested our assistance in mapping approaches to studies of their own stack losses. I referred to the oil industry combustion products as set forth in the Stanford report (which indicates that oil industry combustion products amount to between 20 and 25 percent of total combustion products so far identified), and explained that we in the Foundation were interested in learning whether the oil industry likewise contemplated studies of these losses, if possibly some studies were already underway, and if they felt it was a subject with which they should be concerned. I referred to kodachrome slides of aerial views of various refinery areas shown privately by us to the Smoke and Fumes Committee at their meeting two months ago.

Mr. Magruder as chairman introduced committee comment by questioning the advisability of the Foundation calling attention to these combustion products or publicizing them. George Davidson (Vice President of Standard Oil Company of California) said he understood that sulfur dioxide in the amounts presently emitted and found in our atmosphere were actually beneficial to plants and people. He endorsed Mr. Magruder's views and went on to criticize my speech at the State Chamber of Commerce

AIR POLLUTION FOUNDATION

PERSONAL & CONFIDENTIAL

Members of Executive Committee -2-

April 7, 1955

air pollution meeting in San Francisco a month ago, because I called attention to a growing Bay Area air pollution problem.

Mr. William Stewart, Vice President of Union Oil Company, continued the criticism of the Foundation, particularly along the lines that our policies indicated we were attempting to cover "too broad a program" and also that our research program seemed to be of a "shotgun" character, instead of sticking to "pinpoint research." He explained that he and others present had been part of the group which formed the Foundation, and that it was their understanding that, in diverting substantial funds to the Foundation, the Foundation would serve as "the research department for the oil industry, as well as other industries," was to be of a "protective" nature, and that I, as head of the Foundation, would in effect become the "research director for the oil industry;" that the Foundation would publish findings which would be accepted as unbiased, where the oil industry's findings were not meeting with such acceptance. In short, he felt that WOGA did not want the Foundation concerning itself with refinery stack gases but "just stick to research." Others indicated that when and if we could prove that any of these stack emissions was harmful, then would be the time to worry about controlling them.

In other words, the question we raised concerning their stack gases was answered in two ways: (1) don't concern yourself with it, and (2) general criticism of Foundation activities.

I explained that the Foundation's activities were carefully determined on the basis of policies established by the Board of Trustees, and that our research program was formulated under the counsel and approval of the Research Committee of the Board. I stated that we took two parallel approaches to the air pollution problem: (1) research to identify specific harmful pollutants, and (2) research for remedial measures having as their purpose the reduction of pollution at the source. I expressed the hope that further opportunity would be provided to acquaint the committee with our activities. I urged unanimity of policies and goals within the Foundation and its supporters as essential in a community already impeding progress by a diversity of views.

While the meeting was conducted in a friendly enough atmosphere, I think it brought out again and more clearly a basic misunderstanding of the Foundation's purposes. I believe this is of sufficient importance to deserve consideration by the Executive Committee as to how this misunderstanding may be resolved.

Sincerely yours,

L. B. Hitchcock

L. B. Hitchcock

LBH:mek

AIR POLLUTION FOUNDATION
MEETING OF
EXECUTIVE COMMITTEE OF
BOARD OF TRUSTEES

Tuesday, May 17, 1955
Room 1, California Club
12:00 Noon

AGENDA

1. Minutes of Meeting of April 13, 1955
2. Reports
 - ✓ (a) Finance Committee
 - ✓ (b) Research Committee
 - ✓ (c) Nominating Committee
 - ✓ (d) Public Relations Committee
- ✓ 3. Los Angeles County Air Pollution Control District Regulation VII
- ✓ 4. Revised Statement of Policy
- ✓ 5. Election of Secretary and Assistant Secretary >

Bentone

Ronald Kelly
Murray Morris

Summitt

MAY 7 - 1955

AIR POLLUTION FOUNDATION

704 SOUTH SPRING STREET
LOS ANGELES 14, CALIFORNIA
Tel.: MADison 6-9441


TRUSTEES

- RAYMOND B. ALLEN
Chairman
 - ARNOLD O. BECKMAN
Vice-Chairman
 - JAMES E. SHELTON
Treasurer
 - J. L. ATWOOD
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 - FRED D. FAGG, JR.
 - A. J. GOCK
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 - STEPHEN W. ROYCE
 - D. J. RUSSELL
 - J. PHILIP SAMPSON
 - REESE H. TAYLOR
 - P. G. WINNETT
-
- WILLIAM L. FAITH
Vice President and
Chief Engineer
 - LEROY A. GARRETT
Secretary of the
Foundation

LAUREN B. HITCHCOCK
President and Managing Director

May 6, 1955

TO: The Research Committee of the Board of Trustees


 L. A. DuBridge (Chairman) F. M. Banks
 R. B. Allen A. O. Beckman

Subject: Jenkins' Report to W. L. Stewart, Jr. re
APF Research Program

At the last meeting of the Executive Committee on April 13, 1955, Mr. Reese Taylor distributed copies of the memorandum referred to above. This was referred by the Executive Committee to the Research Committee for consideration and report.

This memorandum was as new to us as I presume it is to you. We have now carefully considered it and suggest a statement from the Research Committee to our Board of Trustees along the lines of the enclosed draft.

Would you please send me your comments and any suggested changes.



L. B. Hitchcock

LBH:mek
Enclosure



DRAFT
5/6/55

From: Research Committee of the Board of Trustees

Subject: Comments of V. N. Jenkins, Union Oil Company,
re Foundation's Research Program

Mr. Reese H. Taylor submitted to the Executive Committee at its meeting on April 13, 1955, a five-page report by V. N. Jenkins of the Union Oil Company addressed to W. L. Stewart, Jr. of that company. The report discusses each of our research projects in order and concludes that we should not be working on any single one of these projects.

With respect to our public information program, however, he states, "the above is my understanding of the purpose for which the Foundation was established and is the only project it has proposed which I can fully recommend."

Mr. Jenkins' comments regarding the research program of the Foundation appear to be made in ignorance of the functions of the Foundation as set forth in its "Statement of Policy" prepared by the Trustees in December, 1953. As stated by Mr. Jenkins himself, his comments are based upon a press release of November 16, 1954, rather than on any firsthand knowledge of the Foundation's research program. So far as we can learn, his contacts with the Foundation during the past year have been extremely superficial. In our opinion it is obvious from his comments that he is quite unfamiliar with the program.

The Coordinating Research Council (American Petroleum Institute and Society of Automotive Engineers), as well as the Automobile Manufacturers'

Association, have devoted considerable time to acquainting themselves with our program and have endorsed it without qualification. Each project has been prepared and activated after careful consideration by the research staff of the Foundation, as well as with various authorities competent in the particular field of interest. Projects have then been submitted to this Committee and activated only after our approval.

The Foundation's program was reported on in some detail at the first annual meeting in November, 1954, and the Trustees at their meeting immediately following ordered the report printed and given general distribution.

The Research Committee or the Foundation staff will be glad to discuss our research program with other Trustees if desired.

EXECUTIVE BOARD

L. A. DuBridge, Chairman

R. B. Allen

F. M. Banks

A. O. Beckman

MEMORANDUM

To: W. L. Stewart, Jr.
From: Vance N. Jenkins *V.N.J.*
Subject: AIR POLLUTION FOUNDATION PROGRAM

Attached are copies of the Air Pollution Foundation's "List of Research Projects" dated August 26, 1954, and of the Air Pollution Foundation's news release of November 16, 1954, entitled "Background for Twelve-Month Research Program".

My comments concerning the research projects already activated by the Foundation, and those contemplated for the future, are as follows:

The Foundation's "List of Research Projects" dated August 25, 1954, begins with its Program 10, Meteorological Aspects of the Air Pollution Problem in the Los Angeles Basin. Under this program, six projects totaling \$54,050 are listed. All of these projects are concerned either with the tabulation and publication of existing meteorological data of the Los Angeles Basin or with securing new meteorological data. Five of the projects are directed by Dr. Neiburger, while the sixth, which is an exploratory research job to test some basic concepts relating to temperature inversions, is being carried on by Arthur D. Little, Inc. I may not be competent to pass judgment on the value of meteorological projects, but I have seen little data to indicate that any of the six projects under Program 10 will aid in any manner in determining the cause of smog in the Los Angeles Basin.

Under the Foundation's Program 20, Chemical Aspects of the Air Pollution Problem in the Los Angeles Basin, there is one project for \$126,000. This project, 20-54-1, Smog-Forming Reactions, is being worked on by Stanford Research Institute. It is my understanding that this is a research project which attempts to utilize some of the techniques developed by SRI under its API project for the identification of the plant-damaging constituents in the Los Angeles atmosphere. In my opinion, the techniques developed to date by SRI are not satisfactory for the purpose for which the Foundation hopes it will be able to use them. Therefore, I believe the money being spent on this project would be more beneficially expended if the nature of the project were drastically re-arranged.

Under Program 30, Study of Combustion Products, there is one project, 30-54-3, Composition of Exhaust Gas. It was placed with the Midwest Research Institute at Kansas City at an estimated cost of \$37,850. It is my understanding that this project will endeavor to fractionate automobile exhaust gases and subject plants to exposure by the different fractions in order to determine the particular constituents of exhaust gas which cause plant damage and the conditions under which plants are

damaged by them. In my opinion, \$37,850 is not sufficient to accomplish the results expected from this project. The fractionation of the exhaust gases must be accompanied by extensive analysis of the fractions and analytical methods for this purpose do not yet exist. Therefore, the project must, in part at least, overlap work being done on exhaust gas analysis by the Western Oil and Gas Association and the cooperative project of the API and the Automobile Manufacturers Association which is being directed by the Coordinating Research Council, Inc.

The Foundation's Program 40, Aerometric Survey of the Los Angeles Basin, embraced over twenty different projects at a cost which may total about \$500,000. In this survey, data are or were being collected at numerous sites throughout the county in order to give continuous records of the concentrations of various air contaminants, the frequency and severity of eye-irritation and plant damage, the temperature, relative humidity, wind direction, etc. A statistical analysis of the data collected is to be made by Stanford Research Institute, using modern mathematical methods and computing machines. My opinion is that this program was conceived and activated with entirely too much haste for a program of so much magnitude. Some of the analytical methods employed apparently are not sensitive enough to give reliable results and therefore a considerable portion of the money may have been wasted. As yet I have heard of no data from this program which indicate that it has led to a correlation of smog intensity or occurrence with anything other than possibly the height of the temperature inversion base.

The Foundation's Program 50, Statistics of the Los Angeles Basin, consists of two projects which total \$10,500 in cost. One of these projects, 50-54-1, Basic Statistics, was placed with two professors at USC at an estimated cost of \$3,000. Its purpose is to develop more accurate basic statistics as to population, number of automobiles, quantity of fuel and other material burned in the Los Angeles Basin, and extrapolate the figures obtained to 1960. Many of the figures involved can be obtained from existing publications.

Under this program, the second project, 50-54-2, Refinery Emissions, was let to Southwest Research Institute, at an estimated cost of \$7,500. This project had for its purpose an independent audit of the hydrocarbon losses estimated by the Smoke and Fumes Committee of the Western Oil and Gas Association to occur from refineries, storage operations, etc. of the petroleum industry in Los Angeles County. The project was a direct duplication of what had already been done by the WOGA Committee and, as might have been expected, the data obtained agreed very closely with that estimated by WOGA. Very little publicity was given to the report of the Southwest Research Institute which corroborated the WOGA data. I can't help but wonder if much greater publicity would not have been given the data if it would have failed to agree with that publicized by WOGA.

Subsequent to the publication of the above list of research projects, another project on the evaluation of Houdry Catalytic Muffler for completing the combustion of exhaust gases has been placed at the

Southwest Research Institute. I consider activities of this sort outside the scope of the Foundation. The Los Angeles County Air Pollution Control District announced some time ago plans for establishing a laboratory to test equipment of this type. The laboratory has now been established. Hence, the Foundation's project at Southwest Research Institute duplicates work which it could have been foreseen would have been done by the County at its own expense.

The Air Pollution Foundation's news release of November 16, 1954, entitled "Background for Twelve-Month Research Program", which was prepared for the County Board of Supervisors at the request of Herbert C. Legg, indicates that the Foundation is departing from the basic purposes for which it was established and is allying itself with the control authorities. This proposed program indicates, in my opinion, that after a year of operation the Foundation has failed entirely to comprehend its true relation to the smog problem and its responsibilities to the citizens of the Los Angeles Basin.

The first item on the proposed program is concerned with the development of a catalytic converter for auto exhaust for use with (1) non-leaded (white) gasoline, and (2) leaded gasoline, at a cost of \$200,000. This proposed program apparently does not take into account the project the Foundation is sponsoring at Southwest Research Institute on the evaluation of the Houdry Catalytic Muffler. I am of the firm opinion that the development of proprietary devices for completing combustion of exhaust gases should be left to private individuals and firms and not made the subject of research by an organization such as the Air Pollution Foundation. The second item of this program is a study of the development of alternate fuels, such as alcohol blends, at an estimated cost of \$100,000. The description of this project indicates the Foundation's lack of basic knowledge on the fuel problem. A brief calculation would have shown it that, if fifteen percent by volume of alcohol were to be blended with the gasoline used in the Los Angeles Basin, the entire alcohol production capacity of the United States would be needed to supply the increased demand. Aside from that point, the study is a direct duplication of work which will be done by the cooperative project of the API and AMA under the direction of the Coordinating Research Council, Inc., and by SRI under a project sponsored by WOGA, as well as by several member companies of the petroleum refining industry.

The second section of the proposed program consists of a \$100,000 study of the use of LPG as a replacement for gasoline fuel in the Basin in order to aid in smog elimination. A study of exhaust gas composition resulting from the use of LPG is a direct duplication of work already underway in several refinery laboratories and is an integral part of the cooperative API-AMA program under the direction of the Coordinating Research Council, Inc., as well as the SRI program sponsored by the WOGA.

Sub-items under this program total \$20,000. They consist of proposed studies on the possibility of limiting the use of automobiles by making it mandatory for drivers to "share the ride" to the point that perhaps a seventy-five percent reduction in auto travel in the Basin

might be attained. A study of the specific recommendations necessary to formulate laws to stop the driving of automobiles which give off excessive fumes was estimated to cost \$10,000. The total cost of the above "stop-gap" items was estimated to be \$420,000. I do not consider any part of this program as either appropriate to be engaged in by the Foundation or as likely to be profitable in any way since a greater amount of the data it is expected to obtain from it will be obtained much more cheaply by other agencies now at work on similar projects.

Under Section II, Development of Exhaust Control Methods, of the proposed program, there are four projects proposed which total \$225,000 in cost and which deal, in their entirety, with the control of automotive exhaust gases. In my opinion, activities of the type proposed under this project are entirely unsuitable for a program such as the Foundation's.

Under Section III, Control of Hydrocarbon Losses During Distribution, the Foundation proposes to spend \$55,000 "to follow up and complete" the control devices which the newspapers report some of the local refineries are using to control hydrocarbon losses during the filling of large tanks and to develop a device for controlling loss of hydrocarbon vapors while filling automobile tanks at filling stations. A sum of \$5,000 was to be set aside for "coordination with petroleum industry and dealers."

The above projects certainly could not be considered to be within the province of the Foundation.

Under Section IV of the Foundation's proposed program, it was estimated \$250,000 would be spent to construct a large chamber, perhaps as big as an airplane hangar, in which experiments with actual pollutants, such as automobile exhaust gas, backyard incinerator smoke, etc. could be studied for their effect on smog formation. From this program, it would be hoped to find accurate answers to such questions as: "Does auto exhaust actually form smog?" or "What would be the effect of closing down the refineries, stopping all incinerators or keeping all cars off the roads?" The description of this project indicates that on account of the size of it, and its possible applicability to air pollution problems in other areas, it might be possible to obtain money for its financing from the state. My personal opinion is that more could be learned in a much shorter time at much less cost by well-controlled, small-scale experiments than could be gained from this project as visualized by the Foundation.

Under Section V, Economic and Fact-Finding Study of Public Transportation as One Possible Form of Smog Relief, the Foundation expects to spend \$10,000. This sum would be spent to acquire information on various public transportation systems with respect to the smog improvement that might result from the use of trackless trolleys or an increased number of buses and other public conveyances which would hope-

fully result in a reduction in the number of private automobiles on the street. I doubt very much if anything constructive would ever come from such a survey.

Under Section VI, Establish and Operate First-Class Public Information Bureau, the Foundation proposes to establish and operate a first-class public information bureau using all media at a cost which is not estimated. Under the description of this project, it is stated that "It is not surprising if the citizens of Los Angeles County have a confused picture of the smog problem. While there is much we don't know about smog, there are some definite facts which have not been made clear to the public. We should inform them fully as to all that is really known . . ."

The above is my understanding of the purpose for which the Foundation was established and is the only project it has proposed which I can fully recommend.

Under Section VII, Research on Combustion Products, it is stated that two projects, one for \$37,850 on the composition of exhaust gases at Midwest Research Institute at Kansas City and another for \$25,000 on the composition of incinerator gases at the Battelle Memorial Institute, have been placed, and that a report to the public will be made on them as soon as possible. The exhaust gas project is the one referred to earlier and, of course, duplicates studies being carried out by a number of refining companies as well as by SRI under the project sponsored by the WOGA and by the cooperative project being directed by the Coordinating Research Council. In my opinion, the project on the composition of incinerator gases should never have been placed, since at the time this was done it had become clear that backyard incinerators would be banned in Los Angeles County within the coming year.

Under Sections VIII, IX, X and XI, provisions are made for extending the aerometric survey at a total cost of \$698,550, for developing analytical methods for determining their utility in smog investigations at a cost of \$195,000 and for fundamental research in physics, meteorology and chemistry at a total cost of \$273,000. It is recommended that support for several of these items would be requested from State and Federal agencies.

The list of the projects involved indicates a lack of mature consideration of the smog problem and their relation to it. Very few of them, in my opinion, would be expected to yield either pertinent or worthwhile results. Some of them are direct duplication of studies already under way.

From the desk of
L. B. HITCHCOCK

4/18/55

Dr. DuBridge:

Will you please check these
and have Miss Baker call the
changes to me as soon as possible.

Betty Keeler

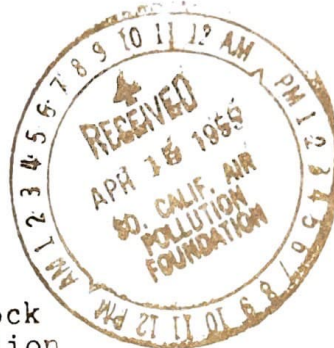
APR 19 1955

*Called Betty Keeler
APR 19 1955*

LAW OFFICES
K. PEELER & GARRETT
21 SOUTH HOPE STREET
LOS ANGELES 17
MADISON 9 3322

*OK by me
(very good job) 4/18
e.c. here for Allen?
or has he already
received comments?*

ASSOCIATE TAX COUNSEL
MILLER & CHEVALIER
1001 CONNECTICUT AVENUE
WASHINGTON 6 D C



April 14, 1955

Hitchcock
Foundation
g Street
California

Dear Dr. Hitchcock:

Enclosed you will find a draft for the
Minutes of the April 13th Executive Committee meeting.
The enclosed extra copies can be mailed to whomever
you think would wish to make appropriate changes.

Kindly have Miss Keeler report any revisions
to me for incorporation in the Minute Book copy.

On Page 2, you will note Mr. Twaits has not
been "assigned" to the Construction Group, as he is
not at present a Trustee.

Since the meeting was held at a different
time and place from that announced in the written notice,
I am obtaining Waivers from absent committee members.

As Acting Secretary of the prior meeting, I
shall now sign and file the March 23rd Minutes in
their approved, revised form.

Yours very truly,

Harvey S. Morris

for MUSICK, PEELER & GARRETT

MSM:bb
Encls

*Allen
Hitchcock
Baker*

LAW OFFICES
MUSICK, PEELER & GARRETT
621 SOUTH HOPE STREET
LOS ANGELES 17
MADISON 9 3322

*OK by me
(very good job) 4#
e.c. here for Allen?
or has he already
received comments?*

ELYON MUSICK
JOSEPH D. PEELER
LEROY A. GARRETT
JOHN N. ROBINSON
MELVIN D. WILSON
HAROLD F. COLLINS
DAVID P. EVANS
JAMES E. LUDLAM
ALBERT MOSHER
E. LEROY TOLLER JR.
EUGENE T. GARRETT
CHARLES T. MUNGER
JOHN P. POLLOCK
JESSE R. O'MALLEY
BRUCE E. CLARK
MURRAY S. MARVIN
STUART T. PEELER
THEODORE A. MCCABE JR.

ASSOCIATE TAX COUNSEL
MILLER & CHEVALIER
1001 CONNECTICUT AVENUE
WASHINGTON D. C.



April 14, 1955

Dr. Lauren B. Hitchcock
Air Pollution Foundation
704 South Spring Street
Los Angeles 14, California

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Yours very truly,

Harvey S. Marvin

for MUSICK, PEELER & GARRETT

MSM:bb
Encls

*Allen
Hitchcock
Bartlett*

AIR POLLUTION FOUNDATION
Minutes of Special Meeting
of the
Executive Committee of the Board of Trustees
April 13, 1955

Pursuant to notice, a special meeting of the Executive Committee of the Board of Trustees of the AIR POLLUTION FOUNDATION was held on the 13th day of April, 1955, at ten thirty o'clock in the morning, in the Board Room, Sixth Floor, 523 West Sixth Street, Los Angeles, California.

The following Executive Committee members were present:

Raymond B. Allen
F. Marion Banks
Arnold O. Beckman
Lee A. DuBridge
A. J. Gock
James E. Shelton
Reese H. Taylor

Also present were Dr. Lauren B. Hitchcock, President, and Earl C. Bolton, Assistant Secretary. Murray S. Marvin acted as temporary secretary of the meeting and recorded the Minutes. William Stewart was also present but did not participate in the meeting.

The following Executive Committee members were absent:

Asa V. Call
Fred B. Ortman

Dr. Raymond B. Allen, Chairman of the Board, ~~was~~
~~elect~~ (presided) as Chairman of ~~the~~ meeting.

The advisability of electing a permanent Chairman was first discussed. Upon motion made, seconded and unanimously carried, Asa V. Call was elected Chairman of the Executive Committee of the Board of Trustees of the Foundation. Mr. Call then joined the meeting.

The Minutes of the Executive Committee's meeting of March 23, 1955, having been circulated previously among the Committee members, were approved.

Leaders for certain industry groups on the Finance Committee were selected as follows: D. J. Russell was assigned to the Transportation Group and Arnold O. Beckman was assigned to the Chemicals and Compounds Group; Ford J. Twaits was suggested for the Construction Group, and consideration was given to dividing this Group into a general building section and an engineering section. The President pointed out the opportunity to contact the Manufacturing Chemists' Association, when its president attends the meeting

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of the Third National Air Pollution Symposium to be held on April 18-19-20, 1955, in Pasadena. Mr. Gock reported that the Committee on Finance was contacting the few organizations which had not yet renewed their contributions on their respective gift anniversary dates.

The President then stated that Congress was about to consider bills to make funds available through the Department of Public Health Education and Welfare for Federal air pollution research. The President reported that he had talked to various Bureau Chiefs in Washington and that they appeared to be experienced and competent to handle work in this field. The question then arose as to whether or not a representative of the Foundation should testify at the April 25, 1955, hearings in support of these bills. Dr. DuBridge pointed out that the Foundation's purpose was not to advocate legislation, but that the Foundation should cooperate with any Federal work undertaken in air pollution research. The President stated that the Foundation had already presented to the Public Health Service a list of projects considered by the Foundation's staff to be of importance. It was the consensus of the meeting that the Foundation limit its activities in the Federal air pollution field to offering advice on the technical

level.

Dr. Allen next reported on State air pollution research. He announced that the Governor's Emergency Fund would enable the completion of the relatively small projects presently assigned to the University of California, but that additional funds would be required from the State to initiate the more costly Gas Chamber Project. Mr. Beckman suggested that in order to obtain such funds the need for and the soundness of this project should be clearly established and made known to the public. The President stated that this proposed chamber was first in importance among the Foundation's projects because of the need for an economical method of determining accurately the source and effect of air pollution. Dr. Allen and Dr. DuBridge then explained the necessity for a research chamber larger than those heretofore employed, the use of smaller chambers having produced inconclusive data due to "wall absorption." It was pointed out to the meeting that no final design for the large chamber could be prepared without further research which is presently included as a part of the project itself.

It was the consensus of the meeting that the planned increase in the number of the members of the Board of Trustees to obtain a broad representation of the public would assist

greatly in publicizing the soundness of all the Foundation's work.

A brief report of the April 6, 1955, meeting of the Western Oil and Gas Association's Smoke and Fumes Committee was given by the President. Copies of a memorandum on the Air Pollution Foundation Program, prepared by Vance N. Jenkins, were distributed by Mr. Taylor, and the memorandum was referred to the Research Committee for analysis.

The establishment of a scientific sub-committee to advise the Research Committee on technical matters was proposed. The Trustees were requested to suggest at the next meeting the names of technical representatives from different industrial organizations, such as the American Petroleum Institute, the Western Oil and Gas Association, and the Southwest Research Institute, as possible candidates for appointment on the sub-committee.

There being no further business before the meeting, it adjourned.

Murray S. Marvin
Temporary Secretary

AIR POLLUTION FOUNDATION

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of the
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Leaders for certain industry groups on the Finance Committee were selected as follows: D.J. Russell was assigned to the Transportation Group and Arnold O. Beckman was assigned to the Chemicals and Compounds Group; Ford J. Twaits was suggested for the Construction Group, and consideration was given to dividing this Group into a general building section and an engineering section. The President pointed out the opportunity to contact the Manufacturing Chemists' Association, when its president attends the meeting of the Third National Air Pollution Symposium to be held on April 18-19-20, 1955, in Pasadena. Mr. Gock reported that the Committee on Finance was contacting the few organizations which had not yet renewed their contributions on their respective gift anniversary dates.

The President then stated that Congress was about to consider bills to make funds available through the Department of Public Health Education and Welfare for Federal air pollution research. The President reported that he had talked to various bureau chiefs in Washington and that they appeared to be experienced and competent to handle work in this field. The question then arose as to whether or not a representative of the Foundation should testify at the April 25, 1955, hearings in support of these bills. Dr. DuBridg pointed out that the Foundation's purpose was not to advocate legislation, but that the Foundation should cooperate with any Federal work undertaken in air pollution research. The President stated that the Foundation had already presented to the Public Health Service a list of projects considered by the Foundation's staff to be of importance. It was the consensus of the meeting that the Foundation limit its activities in the Federal air pollution field to offering advice on the technical level.

Dr. Allen next reported on State air pollution research. He announced that the Governor's Emergency Fund would enable the completion of the relatively small projects presently assigned to the University of California, but that additional funds would be required from the State to initiate the more costly gas chamber project. Dr. Beckman suggested that in order to obtain such funds the need for and the soundness of this project should be clearly established and made known to the public. The President stated that this proposed chamber was first in importance among the Foundation's projects because of the need for an economical method of determining accurately the source and effect of air pollution. Dr. Allen and Dr. DuBridg then explained the necessity for a research chamber larger than those heretofore employed, the use of smaller chambers having produced inconclusive data due to "wall absorption." It was pointed out to the meeting that no final design for the large chamber could be prepared without further research which is presently included as a part of the project itself.

It was the consensus of the meeting that the planned increase in the number of the members of the Board of Trustees to obtain a broad representation of the public would assist greatly in publicizing the soundness of all the Foundation's work.

A brief report of the April 6, 1955 meeting of the Western Oil and Gas Association's Smoke and Fumes Committee was given by the President. Copies of a memorandum on the Air Pollution Foundation Program prepared by Vance N. Jenkins, were distributed by Mr. Taylor, and the memorandum was referred to the Research Committee for analysis.

The establishment of a scientific subcommittee to advise the Research Committee on technical matters was proposed. The Trustees were requested to suggest at the next meeting the names of technical representatives from different industrial organizations, such as the American Petroleum Institute, the Western Oil and Gas Association, and the Southwest Research Institute, as possible candidates for appointment on the subcommittee.

There being no further business before the meeting, it adjourned.

4/27/55
ma

/s/ Murray S. Marvin
Murray S. Marvin
Temporary Secretary

MAR 31 1955

AIR POLLUTION FOUNDATION
704 South Spring Street
Los Angeles 14, California

March 30, 1955

TO ALL MEMBERS OF THE BOARD OF TRUSTEES

Notice is hereby given that a Special Meeting of
the Board of Trustees of the Air Pollution Foundation will
be held at the Southern California Gas Company, Room 1216,
810 South Flower Street, Los Angeles, California, on Wednes-
day, April 27, 1955, at 3:30 o'clock in the afternoon.

Please notify Miss Betty Keeler at MADison 6-9441
as to whether or not you will be able to attend.

Your presence is urgently requested in order that
a quorum is assured.

By direction of the President

/s/ Earl C. Bolton
Earl C. Bolton
Assistant Secretary

ECB:mek

*I'll
regret
for you.*

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Assistant Secretary

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AIR POLLUTION FOUNDATION
MEETING OF
EXECUTIVE COMMITTEE OF
BOARD OF TRUSTEES

Thursday, August 4, 1955
Board Room, Sixth Floor
Pacific Mutual Life Insurance Company
523 West Sixth Street, Los Angeles 14, California

3:30 p. m.

AGENDA

1. Minutes of Meeting of May 17, 1955
2. Chemical Corps Clearance - Resolution to exempt new Trustees (Gerald Kelly)
3. Schedule for Regular Meetings of Executive Committee and Board of Trustees During 12 Months Ending June 30, 1956
(L. B. Hitchcock)
4. Proposal of William C. Foster, Manufacturing Chemists' Assn., re "National Advisory Committee on Air Pollution."
(L. B. Hitchcock)
5. Resolution of Research Committee re 1956 Budget
(R. B. Allen)
6. Report of Finance Committee
(A. J. Gock)
7. Fund-raising Program for 1956
 - Needs and reasons
 - Assistance of President's office
 - Centralization of activity
 - Permanent Finance Secretary
 - Development of program, approach to more associations, sharing of work, and assignments

July 29, 1955

L. B. HITCHCOCK

5/20/55

MAY 21 1955

Dr. DuBridge:

Will you please have Miss Baker call your corrections and/or approval to me.

B. Keeler

POLLUTION FOUNDATION
Marion Banks
of Special Meeting
of the
tee of the Board of Trustees
Chairman of the Executive Committee,
May 17, 1955

notice duly given, a special meeting

of the Executive Committee of the Board of Trustees of the AIR POLLUTION FOUNDATION was held on the 17th day of May, 1955, at 12:00 o'clock noon, in Room 1 at the California Club, 538 South Flower Street, Los Angeles, California.

The following Executive Committee members were present:

The importance of the Raymond B. Allen pling Station was discussed. It was pointed out that if all proposed commitments were undertaken. The importance of the Raymond B. Allen pling Station was discussed. It was pointed out that if all proposed commitments were undertaken. The importance of the Raymond B. Allen pling Station was discussed. It was pointed out that if all proposed commitments were undertaken.

Also present were Dr. Fred D. Fagg, Jr., Trustee; Dr. Lauren B. Hitchcock, President; Dr. W. L. Faith, Vice President and Deputy Director; Mr. Earl C. Bolton, Assistant Secretary; and Mr. John D. Burton. Murray S. Marvin acted as Temporary Secretary of the meeting and recorded the Minutes.

RESOLVED, that the Foundation defer entering into the following Executive Committee members are on hand to finance them.

We should, therefore, think of the bus as a possible rescuer from this problem rather than as a major contributor. The total number of busses in this whole area compared with the number of cars is now very, very small and certainly not one per cent of the present contamination can be attributed to present bus operation.

And so we come to the hard, cruel facts that there are three classes of air pollution in the Los Angeles area: (1) organic pollutants from all processes in which there is combustion of oil or gas or other organic materials, including wood and plastics; (2) sources of pollution which emit nitrogen oxides; (3) and sources of pollution which emit particulate matter, dust, and smoke. No one of these can be blamed for the whole problem; all three of them together must be brought under control. Only when all of these pollutants are reduced to tolerable limits will the chemical reactions which cause our eye-smarting smog be reduced to a level where we can say Los Angeles air is clear again. Much has been learned, much progress has been made, but there is still much research, much control, and much development yet to be done.

The results of today's conference -- the first well-organized and really comprehensive conference on this problem of reporting to the public -- I think must be carefully considered by every citizen of this area. I think we need meetings of this sort in the future, possibly next year. For we have been told many times today that understanding of the problem by the public must ultimately be accomplished if we are to use the remedies which will be made