

ETHYL CORPORATION
RESEARCH AND ENGINEERING DEPARTMENT
RESEARCH LABORATORIES • 1600 WEST EIGHT MILE ROAD
FERNDALE 20, DETROIT, MICHIGAN

February 2, 1955

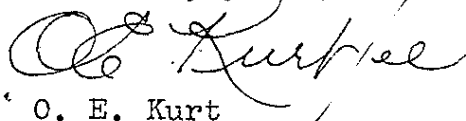
Dr. Robert A. Kehoe
College of Medicine
University of Cincinnati
Eden Avenue
Cincinnati 19, Ohio

Dear Dr. Kehoe:

Enclosed is a copy of the agenda we shall use for
the Quarterly Technical Meeting to be held on
Wednesday and Thursday, February 9 and 10.

The section devoted to the air pollution presentation
on the first page consists of material from Dan Hirschler's
outline and your comments on the copy returned to me.
We trust this meets with your approval and look forward
to seeing you on Wednesday, February 9.

Sincerely yours,


O. E. Kurt

:el
encl.

cc: Mr. H. E. Hesselberg

N13343

ETHYL CORPORATION
Inter-Office Correspondence

To Members of Quarterly Technical Committee

Mr. E. Bartholomew
Dr. H. A. Beatty
Mr. J. J. Frey
Mr. H. J. Gibson
Mr. D. M. Guy
Mr. W. T. Hack
Dr. G. F. Kirby
Mr. W. G. Lovell
Mr. J. B. Macauley
Dr. M. Morgana
Mr. R. K. Scales
Mr. F. J. Sergeys
Mr. K. Swartwood

From Dr. O. E. Kurt

February 2, 1955

The agenda for the meeting of February 9 and February 10, 1955 is as follows: No additions have been suggested to the preliminary agenda of January 6, 1955.

Wednesday - February 9 at 2:00 p.m. in the Library

1. Air Pollution (Dr. R. A. Kehoe and D. A. Hirschler)

a. General aspects (Dr. R. A. Kehoe)

- (1) Review of the smog problem as it exists in Los Angeles- characteristics of smog, conditions that favor its occurrence, theories on its cause, the contribution of engine exhaust and waste refinery gases, and the interest of the petroleum and automotive industries.
- (2) Toxicological problems - overall problems, hydrocarbons and combustion products, chemical reactions in the atmosphere, particulate matter such as lead, inhalation and metabolism of lead.
- (3) Problems associated with use of TEL.

b. Specific aspects (D. A. Hirschler)

- (1) Relationship of Ethyl activities to work of other organizations - West Coast groups, API, CRC.
- (2) Experimental program at Detroit, nitrogen oxide, exhausted lead.
- (3) Developments by automotive industry.

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Thursday - February 10 at 9:00 a.m. in the Library

2. Antiknock Fluid Stability (C. C. Shepherd)
 - a. Decomposition in commercial "Ethyl" fluid - field and plant experience and accelerated laboratory test results.
 - b. Competitive fluid stability - laboratory test results.
 - c. Effect of antioxidants on fluid decomposition - laboratory tests and drum storage test results.
3. Amine Antiknocks (J. E. Brown)
 - a. Amines as TEL supplements.
 - b. Theoretical explanation of effectiveness of primary and secondary aromatic amines.
 - c. The antiknock effectiveness of amines as substantiated by road tests.
 - d. Though not competitive with TEL, interest remains high as evidenced by West Coast sales of NMA, inquiries from small refiners and consideration at joint technical conferences with major oil companies.
4. Octane Requirement of 1955 Automobiles (H. A. Toulmin)
 - a. The octane requirements of the entire population of U.S. automobiles and significant segments of it.
 - b. Methods used in predicting octane requirements of new model cars - Ethyl road tests, road tests of CRC contributors, and data released by car manufacturers, and evaluation of these data.
 - c. The relationship between predicted OR of 1955 automobiles and present and future octane levels of premium and regular gasolines.

Thursday - February 10 at 2:30 p.m. in the Cafeteria

5. Sales Program for 1955 (J. J. Frey)

January 10, 1955

Dr. O. E. Kurt
Ethyl Corporation
1600 West Eight Mile Road
Ferndale 20, Detroit, Michigan

Dear Ed:

Thanks for your note of January 7 and for the attached agenda of the meeting on that day. Unless something very unusual comes up, I shall be there. I shall be prepared to supplement the scheduled discussion of the work done on the exhaust problem in Detroit with a brief account of our work in this Laboratory and with the results of our observations on the contamination of urban atmosphere (including Los Angeles) with particulate solids, including lead compounds. My comments can be as brief or elaborate as time and your schedule will permit, or they can be limited strictly to participation in the discussion on the work of the Detroit Laboratories, if that should be necessary. I shall be there primarily to learn and to contribute toward the coordination of our joint efforts in the clarification of this problem.

Sincerely yours,

Robert A. Kehoe, M. D.

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ETHYL CORPORATION
Inter-Office Correspondence

To: Members of Quarterly Technical Committee

Mr. E. Bartholomew	Dr. G. F. Kirby	Mr. R. K. Scales
Dr. H. A. Beatty	Mr. W. G. Lovell	Mr. F. J. Sergeys
Mr. J. J. Frey	Mr. J. B. Macauley	Mr. K. Swartwood
Mr. W. T. Hack	Dr. M. Morgana	

From: Dr. O. E. Kurt, Secretary

January 6, 1955

The following preliminary agenda is submitted for the meeting to be held on Thursday, February 10, 1955.

1. Amine Antiknocks - Research work has been terminated. Brief resume of the relationship between antiknock effectiveness and molecular structure; detailed economic evaluation including the cost of the more promising amines, possible sources, possible value to refiners; presentations being made in Joint Technical Meetings with customer companies.
2. Fluid Stability - Comprehensive report on the comparison of the fluid storage stability and gasoline storage stability of Ethyl fluid; comparison with competitor's product.
3. Air Pollution - Ethyl's studies of the past several years of lead in engine exhaust gases; Ethyl's participation in committee activity on the contribution of engine exhaust gases.
4. Octane Requirement of 1955 Automobiles - The result of Ethyl's tests together with information obtained by consulting with automobile manufacturers; new automobiles with low mileages and some with enough mileage to indicate the octane requirement increase.
5. Sales Program for 1955 - A report by Mr. Frey to a larger group, including supervisors, on the Sales program as presented in a Sales meeting during the previous week. Suggestions as to how R & E may best support the 1955 program and future sales programs.

This preliminary agenda is submitted to aid members of the committee in suggesting other subjects or certain aspects of the above listed subjects; also in deciding what persons should attend and what preparation they should make to participate in the discussions.

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ETHYL CORPORATION
RESEARCH AND ENGINEERING DEPARTMENT
RESEARCH LABORATORIES • 1600 WEST EIGHT MILE ROAD
FERNDALE 20, DETROIT, MICHIGAN

January 7, 1955

Dr. Robert A. Kehoe
College of Medicine
Kettering Laboratories
University of Cincinnati
Cincinnati, Ohio

Dear Dr. Kehoe:

Attached is a copy of the preliminary agenda for the coming Quarterly Technical Meeting to be held in Detroit next month. The pencil notation on the copy will confirm our telephone conversation of this afternoon to the effect that the discussion on air pollution will be held on Wednesday, February 9.

I am looking forward to seeing you on that date.

Sincerely,

O. Edward Kurt
O. Edward Kurt

OEK:el

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