

THE ASSOCIATED ETHYL COMPANY LIMITED

REPORT ON VISITS

made by Dr. R.A. Kehoe, Dr. P.S.I. Barry and
Dr. P.R. Boyd to Health Authorities in
Western European Countries to discuss the
toxicological aspects of Tetramethyl Lead
and its use in Gasoline
(June 4th - July 6th 1960)

1. Visits were made to the following countries:-

<u>Country</u>	<u>Date</u>	<u>By</u>
Belgium	June 6th-8th	Dr.Boyd, Dr. Barry, Mr.Roffey.
Norway) Denmark)	" 8th-11th	Dr.Boyd, Dr. Barry, Mr.Risso-Gill.
England	" 13th-14th	Dr.Kehoe, Dr.Boyd, Dr.Barry.
Italy	" 15th	Dr.Kehoe, Dr.Boyd, Dr.Barry, Mr. Roffey.
France) Switzerland)	" 16th " 21st	Dr.Kehoe, Dr.Barry Mr. Roffey
Germany	" 22nd & 23rd	Dr.Kehoe, Dr.Barry,Mr.Morgenthaller.
Sweden	" 28th)	Dr. Kehoe, Dr.Barry
Finland	July 1st)	Mr. Risso-Gill
Holland	" 4th-5th	Dr.Kehoe, Dr.Barry, Mr.Noble
England	" 6th	Dr.Kehoe, Dr.Barry, Sir Charles Dodds and Mr.T.R.A. Bevan.

2. Outline of Discussions.

In all the countries visited it was made clear to the Health Authorities present at each meeting that the purpose of our visits was to provide them with as much information as was available at the present time relating to the hygienic aspects of a new anti-knock compound, Tetramethyl Lead, with particular relation to its use in gasoline.

It was pointed out that gasoline containing tetramethyl lead was in use at present in limited areas of the U.S.A. and that it was considered likely that at some future date it would appear in gasolines outside of the U.S.A. It was not to be inferred that tetramethyl lead would replace tetraethyl lead but rather that either or both would be used for addition to motor gasoline as might prove economic.

It was indicated that the information available at present was preliminary in nature, but was considered to be sufficient to provide a conclusion as regards the overall toxicological problem, and as such, it was thought desirable that it should be made available to the appropriate health authorities at this time.

Reference was made to the field trial conducted during the summer of 1959 in California, details of which are contained in a report by Dr. Kehoe dated November 1959, and during that part of the tour in which Dr. Kehoe took part he enlarged in some

measure upon this work; in addition, the problems presented by the higher volatility of tetramethyl were discussed and it was explained, that to some extent, this was offset by the lower toxicity of T.M.L. vis-a-vis T.E.L.

In conclusion it was indicated that the overall hazard presented by T.M.L. did not appear to differ materially from that presented by T.E.L., and the precautionary measures recommended for the handling of T.E.L. were well suited for application to T.M.L., provided that these are properly understood and followed.

In some cases the Health Authorities enquired whether and by whom they would be informed about the introduction of gasoline containing T.M.L. into their country: In reply it was stated that Associated could not undertake to do this and in any event, it might not necessarily be in possession of the information.

No adverse reaction was experienced among the Health Authorities in any of the countries visited, and all were appreciative of the information with which they had been supplied.

In the case of both Switzerland and France a further approach is to be made to the Authorities in the immediate future to ascertain what, if any, procedural steps are required.

3. Details of Medical Contacts at each Meeting.

<u>Country</u>	<u>Date</u>	<u>Present at Meeting</u>
<u>Belgium</u> (Brussels)	June 7th	Dr. Kisters - Deputy Chief Medical Inspector of Factories of Government Labour Office
	" 8th	Dr. Tribell - Shell
<u>Norway</u> (Oslo)	" 9th	Dr. Ivar Groth) Medical Consultants Dr. Undem) to The Associated Dr. Eilersten) Ethyl Co. Ltd. Dr. Brunn - Esso Dr. Bruusgaard - Medical Chief to Labour Ministry
<u>Denmark</u> (Copenhagen)	" 10th	Dr. S. Haussen - Deputy to Chief Medical Officer, National Health Service. Dr. B. Valentin - Head of Institute of Occupation and Hygiene. Dr. J. Frost - Head of Clinic of Occupational Diseases. Dr. Helge Lund - The Associated Ethyl Co. Ltd. Consultant and Institute of Occupation & Hygiene.

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<u>Country</u>	<u>Date</u>	<u>Present at Meeting</u>
<u>England</u> (London - 20, Berkeley Square)	June 13th a.m.	Dr. Kehoe, Dr. Barry, Dr. Boyd, Prof: Sir Charles Dodds Mr. A.H. Bennett (Associated Ethyl)
	" 13th p.m.	Dr. Kehoe, Dr. Boyd, Dr. Barry, Mr. Bennett Dr. Scott - C.M.O. Shell Dr. Capel - C.M.O. Esso, U.K. Dr. Brebner - C.M.O. Kuwait Oil Co. Dr. Leese - C.M.O. Mobil, U.K. Dr. Watson - C.M.O. Caltex, U.K. Dr. Anderson - Deputy C.M.O., B.P. Dr. Colenso Jones - C.M.O. Iraq Petroleum Co. Dr. Lloyd Potter - C.M.O., I.C.I.
<u>Italy</u> (Milan - Clinica del Lavoro)	" 15th	Prof: Forssman (Sweden) Prof: Noro (Finland) Prof: Vigliani (Italy) Dr. Grut (Denmark - Medical Chief Labour Ministry) Prof: Koelsch (Germany) Prof: Grandjean (Switzerland) Dr. La Pana (Shell, Italy) Dr. R. Schilling (U.K.) Dr. Bruusgaard (Norway - Medical Chief Labour Ministry) Prof: Desoille (France)
<u>France</u> (Paris - Ethyl S.A. Office)	" 17th a.m.	Dr. Greaud - M.O. 'Ethyl-Kuhlmann' Prof: Coste - Consultant, Ethyl S.A. Dr. Veith - M.O. Mobil, France Dr. Russo - M.O. Mobil, Italy Dr. Garely - M.O. Esso, France Dr. Buffett - M.O. Shell Berre) France Dr. Viensi - M.O. Shell Berre) Dr. Vigualou - M.O. Compagnie Francaise de Raffinage and B.P. Dr. Martini - M.O. Caltex, France
	" " p.m.	Prof: Piedelievre - Prof: of Forensic Medicine Prof: Truhaut - Dean & Prof: of Toxicology at the Pharmacy Faculty Prof: Desoille - Industrial Medicine at Faculty of Medicine Prof: Derobert - Forensic Medicine Prof: Boyer - Prof: of Health at the Faculty of Medicine Prof: Gautier - Hospital M.O. in Toxicology

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<u>Country</u>	<u>Date</u>	<u>Present at Meeting</u>
<u>France</u> (Paris - Cont'd)	June 17th p.m.	Prof: Alhahary) Professors at the Prof: Fournier) Faculty of Prof: Michon) Medicine Prof: Coste - Prof: at the Faculty of Medicine, Consultant to Ethyl S.A.
<u>Switzerland</u> (Berne)	" 21st	Dr. Sauter - Head of Federal Public Health Service Dr. Högl - President of Lead Commission Dr. Stökl - National Insurance Dr. Sauber - Assistant to Dr. Högl Dr. Ruf - E.M.P.A. Dr. Franz
<u>Germany</u> (Bonn)	" 22nd a.m.	Dr. Wieland - Consultant, The Associated Ethyl Co.Ltd. Dr. Dierkes - Head of Medical Department, Ministry of Labour Dr. Reiul - Assistant to Prof: Hagan in Department of Industrial Hygiene for Dusseldorf & N. Rhine and Westphalia Govt: Dr. Johannes Pritzkow - Chemist in Dr.Dierkes Department
(Hamburg)	" 23rd p.m.	Dr. Hermann - M.O. Esso Dr. Scriba) Consultants, The Dr. Hastedt) Associated Ethyl Co.Ltd. Dr. Zimmer - M.O. Shell
<u>Sweden</u> (Stockholm)	" 28th	Dr. Ohlson - Consultant, The Associated Ethyl Co.Ltd.
	" 29th	Dr. Olaf Wohlin - Acting Chief of Public Health Division, The Royal Medical Board, Stockholm. Dr. Bengt Kylin - Acting Head of Department of Occupational Health The National Institute of Public Health, Stockholm. Prof: Sven Forssman - Chief Medical Advisor of the Swedish Employers' Confeder- ation

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<u>Country</u>	<u>Date</u>	<u>Present at Meeting</u>
<u>Sweden</u> (Stockholm) Cont'd	June 29th	Dr.Nirls Masreliez - Medical Advisor to the Swedish Employers' Confederation, Stockholm Dr. Karl David Lundgren - Head of the State Clinic on Rehabilitation, Associate Physician at the Workers' Protection Board, Stockholm 12. Secretary Lotquist- Lawyer to Public Health Department.
<u>Finland</u> (Helsinki)	" 30th	Prof:Leo Noro - Director of Institute of Occupational Health, Consultant in Occupational Health to Government Authorities; Medical Director of Esso, Finland. Dr.P.Sumari - Deputy Director of Institute of Occupational Health; Consultant The Associated Ethyl Co.Ltd and Shell. Dr. J.Hasan - Toxicologist in Institute of Occupational Health Dr. K.W. Sisto - Deputy Director General of Health, State Central Medical Board.
<u>Holland</u> (The Hague)	July 4th p.m.	Dr.J. Boiten - Caltex, Pernis Dr.J. Hoogendam - Shell, Pernis Dr. W.A. Mindenhoud - Esso, Botlek Dr.E.V. Luyt - Industrial Health Dr. H.S. Hogerneck - C.M.O. Shell,Holland Dr. Vogelenzang - Assistant to Dr.Luyt Dr.R.L. Zielhuis- Preventive Health Department University of Leiden. Dr. H.G. Van Raalte - Assistant to C.M.O. Shell, Holland Dr. D. Bruijus - Medical Consultant, The Associated Ethyl Co.Ltd.
(Leiden)	July 5th a.m.	Dr.F.H. Bonjer - Head of Department of Occupational Health, Netherlands Institute for Preventive Medicine, Leiden. Dr.R.L.Zielhuis- Industrial Physician in Department of Occupational Health.

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<u>Country</u>	<u>Date</u>	<u>Present at Meeting</u>
<u>England</u> (London)	July 6th	Dr. Sibyl Horner - Senior Medical Inspector of Factories, Ministry of Labour. Dr. Buchanan - Medical Officer; Inspector of Factories Ministry of Labour Prof: Sir Charles Dodds - Consultant to The Associated Ethyl Co. Ltd.

A visit is to be paid to Sir John Charles, Chief Medical Officer, Ministry of Health, in the near future.

PSIB/pr
13th July, 1960.

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