

MINUTES OF THE 2ND MEETING OF THE WORKING GROUP ON ANALYTICAL
PROCEDURES FOR AMBIENT AIR HELD ON 15TH DECEMBER, 1982

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Present: D.T. Westcott - Imperial Tobacco Ltd. (Chairman)
A.S. Weaving - Imperial Tobacco Ltd.
R.A. Patrick - Gallaher Ltd. (Secretary)
H. Dymond - British-American Tobacco Co.Ltd.
P.D. Case - British-American Tobacco Co.Ltd.
M.C. Bourlas - Philip Morris Europe SA
B.E. Frost - Carreras Rothmans Ltd.

1. Minutes of 1st Meeting

Mr. Case pointed out that he had offered to gather information only on analysers for oxides of nitrogen. Dr. Bourlas corrected the erroneous impression that his reference to diode lasers had been in the context of PM determination. It was concerned with the estimation of specific components.

2. Meeting with the Verband (TD2105)

Dr. Westcott reported on the recent meeting between members of the Research Committee's Working Group on Passive Smoking Research and the Verband in Hamburg. General impressions were very favourable and it was agreed that close co-operation was desirable and potentially mutually beneficial.

The Verband already have a programme and the work has been divided among member companies. They are much further ahead than the UK industry.

The minutes of this committee's first meeting were tabled and it is hoped that the Verband will reciprocate.

3. Stanford Suitcase

Dr. Bourlas reported on his investigations in this area. Nobody at either Reynolds or Philip Morris was satisfied with the system. It was not reliable and was quickly abandoned. If this committee want a suitcase we can have one but the general advice was not to waste our time. It was agreed that this approach should not be pursued.

4. Proposed Work Programme

Dr. Westcott reported that Dr. Roe, although understanding the difficulties, had been disappointed with the estimated time scale of two years. Consequently, Dr. Westcott suggested that the work programme could be completed more quickly if each company agreed to treat the work with priority, and that there is no unnecessary duplication.

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It was agreed that such an approach was desirable but would require commitment at a high level from member companies. Each undertook to seek that commitment.

In the meantime, a preliminary division of responsibility was agreed. The three main priorities of nicotine, PM and CO were confirmed with the value of GC profiles also being recognised. The programme agreed was:

i) Particulate matter

Dr. Bourlas undertook to investigate the applicability of the Philip Morris Fluorescence method to ambient PM estimation. This is very sophisticated apparatus which is currently being transferred from Richmond to Switzerland.

Dr. Patrick offered to consider this approach as well since Gallaher had had some experience with fluorescence. He did, however, raise the question of calibration which he saw as a possible problem. Dr. Weaving undertook to consider the use of the piezoelectric mass monitor.

ii) Carbon monoxide

Mr. Frost undertook to approach ADC about the manufacture of a portable CO meter. He will consider NDIR against his already developed syringe/GC method.

ITL will also look at the NDIR approach and consider the applicability of MIRAN IR analyser.

iii) Nicotine

Gallaher and BAT will investigate the applicability of the ATD50 approach to nicotine sampling. BAT will also consider the efficiency of chemically impregnated Cambridge filter pads for nicotine trapping. Mr. Frost also undertook to consider this approach looking specifically at citric acid.

The ATD50 approach could also yield data on neophytadiene and under suitable GC conditions, a characteristic profile. It was recognised that detailed interpretation of such a profile would be a major task but since the data would be generated anyway, it could prove of some value.

5. Statistics of Sampling

While it was agreed that it was too early for detailed consideration of the relevant statistics, Dr. Westcott undertook to raise the matter with ITL statisticians so that they can begin to consider the likely problems.

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6. Date and Venue of Next Meeting

Dr. Bourlas offered to host the next meeting. This would give the committee the opportunity to see the Philip Morris "room". This was enthusiastically accepted and it was proposed that future meetings should rotate around the various companies.

The date of the next meeting was set as 17th March in Switzerland, with the members travelling on the 16th and returning on the 18th.

11th March, 1983

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