

Impenial

9th March, 1984

20 MAR 1984

VISIT BY DR. P.M.M. GODDEN AND DR. W.W. TEMPLETON TO I.T.L., CANADA,
ON 1ST AND 2ND MARCH, 1984

By: P.M.M. Godden

REF

Pat Dunn, Bob Wade and Stuart Massey were given a verbal report of the Smoking and Cardiovascular Symposium as noted by Gil Esterle. Bob Wade outlined the effects of federal and provincial taxes on Canadian cigarette sales and agreements reached between the tobacco industries and Canadian Government about projected cigarette tar yields.

Andrew Porter outlined experimental product development. Modifications being studied included reduced sidestream, changes in cigarette circumference and primary processing. Collaboration with GR&DC, Southampton, will also include the Biological Studies section.

Tom Smith described two aspects of product development: firstly that required to maintain a constant product when tobacco crops may vary and secondly slow changes in products required to meet future tar yield agreements. Subjective assessment of new products is carefully monitored.

Cathy McBride investigates the tar and nicotine yields on a puff by puff basis. The Ames activity of condensate collected under different puff profiles has been studied.

Tobacco growing and primary leaf processing in Canada was described by Wilfred Gray.

Graham Boswall gave an interesting account of areas of tobacco production in Canada, rotation with other crops, use of pesticides, etc. Canadian tobacco industries co-operate with Federal Research Stations, e.g. at Delhi, to develop and test new strains of tobacco.

Gaetan Du Plessis runs the Analytical Services. Although monitoring of the physical aspects of quality control occurs in the factories, tar and nicotine yields are measured in I.T.L.'s and competitor's brands in samples collected from the market.

At I.T.L., Mino Bilimoria has looked at the oxidative properties of smoke from different types of tobacco. More recent studies have included the mutagenic activity as determined in the Ames test of different fractions of condensate from the standard Canadian cigarette and Gauloise. The results will be presented in the Biological Research Meeting in April.

A visit to McGill University was arranged. Dr. Malcolm King and Elspeth Angus, funded by the Canadian Tobacco Manufacturers' Council, have studied the effects of exposure of dogs and rats to cigarette smoke on the rheology of respiratory tract mucus. In addition, changes in the morphology are assessed in dogs and in human smokers.

Don Ecobichon, working with Mino Bilimoria at the McIntyre Medical School, has been studying the effects of the transfer of cigarette smoke components across the placenta or into the milk on the induction of aryl hydrocarbon hydroxylase in the fetal and neonatal guinea pig and rat.

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In addition to the specific topics outlined above, a general feeling was gained for the tobacco industry and cigarette market in Canada, and the interaction between ITL, Canada and GR&DC, Southampton.

Patricia Read

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