

PAGE/ITEM NUMBER	STATEMENT	ACTION
Page 2, Item 6	<p>the Conference attached importance to probing the psychological basis of the segmentation, particularly relating to:</p> <p>(a) Delivery levels of quitters/re-starters and the possible overriding influence of cost.</p>	<p>Long term monitoring by Charter Research of a consumer cohort is reaching the 6 month stage of the planned 1-1½ years Project NARINERS.</p>
Page 3, Item 6	<p>... GR&DC programme should aim to extend our knowledge on the biochemistry and pharmacology associated with the inhalation of major smoke components.</p>	<p>Dr Wilma Templeton (pharmacologist) recruited Sept 1982. Main focus of work has been nicotine.</p>
Page 3, Item 9	<p>There should be greater routine use of flexible or programmable smoking machines so that puff by puff smoke chemistry of new product designs can be assessed against more realistic human smoking regimes than that given by the standard smoking machine.</p>	<p>Delayed by bankruptcy of supplier of new 4-port duplicator. Extra effort now being applied in-house to progress this urgent programme.</p>
Page 4, Item 10	<p>.... compensation BAT must have more knowledge and develop better techniques with particular reference to biochemical markers</p>	<p>Have worked on, but not solved, this problem. Hazleton Labs contract on hydrocarbon "markers" disappointing. In-house work on cotinine/nicotine in blood, urine and saliva. Also mass balance studies of inhaled/exhaled. Harwell may help with radio-labelled markers.</p>
Page 4, Item 11	<p>....., it is not known in quantitative terms whether the smoke from modern low and ultra-low delivery products has a lower specific biological activity than that from previous high delivery products.</p>	<p>Initial Ames results suggest only small changes in specific activity, but now an urgent part of Project RIO. Very low delivery cigarettes have yet to be examined.</p>

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Page 7, Item 17(c)	Dr Ayres' paper should be discussed in confidence with Peter Lee and Francis Roe with the aim of guiding the research under (i).	This was done at the time of the Biological meeting in May. Some sidestream + mainstream rat inhalation experiments are planned for 1984 providing a suitable gap can be made in the main research programme.
Page 11, Item 24	Cheaper, less polluting and lower activity cigarettes could well be based on structured tobacco rods, with an inert filter (eg carbonised cellulose) and judiciously placed additives.	Only limited experimental work to date following extensive illness of Keith Kilburn. Exploratory work is planned for 1984/5 (Work Area 05).
Page 12, Item 28	Consideration should be given to the use of INTERBAT to communicate new analytical procedures and standards.	Work is in hand to re-write the methods in a standardised format suitable for incorporation in a data base.
Page 15, Item 01.	: specific activity of high and low delivery cigarettes (including ventilation versus filtration), denitrated tobacco, biological fate of nicotine in the human system, expanded tobacco, sidestream.	As referred earlier: now part of Project RIO.
Page 16, Items	(a) A review of all that is currently known relevant to the biological activity of whole smoke	Review planned for issue end 1983 which will incorporate information received from the CAC countries.

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Page 16	<p>(b) A comparative biological assay of a range of BAT major commercial and innovative product designs - to assess the commercial possibilities of exploiting products of low biological activity.</p> <p>(c) To evaluate the theory that certain nitrogen-containing components are major precursors of smoke mutagenicity, One approach may be the spiking of neutral cellulose substrate with selected nitrogenous materials.</p>	<p>No action - but confirmed as a priority need at 1983 Research Conference.</p> <p>Some progress, eg Ames test indicates higher activity when amino-acids added to a flue-cured blend.</p>
Page 17, Item 02	<p>The Work Area objective should be altered to reflect these more specific targets.</p> <p>..... emphasis on understanding the mechanisms involved in selective filtration and on any consequential effects thereof in terms of smoke behaviour and sensory response.</p>	<p>Incorporated in 1983/4 programme.</p> <p>Incorporated in 1983-4 programme. Further reports will be issued by end-1983.</p>
Page 17, Item 03	<p>(i) Understanding the routes by which nitrosamines in whole smoke are formed, and possible modification thereof by additives etc.</p> <p>(ii) Selective removal of nitrosamines.</p> <p>Before starting experimental work on the environmental analysis of nitrosamines, the past work of Wynder and Hoffmann, Philip Morris and the German Verband should be fully appraised.</p>	<p>Both incorporated in 1983/4 programme.</p> <p>Internal review of known work was undertaken. Current state-of-the-art following the Banff Conference on nitrosamines was circulated in November 1983.</p>

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Page 18, Item 05	<p>..... growing need for emphasis on semi-volatile and vapour phase components - in particular to gain better understanding of their roles in biological activity and in sensory perception.</p> <p>The combustion programme should link closely with the innovative work on structured cigarette design; B&W have made some advances in the speed of manufacture, details of which can be made available.</p>	<p>Discussed at Combustion Conference, December 1982. Three reports issued 1982/3; further work incorporated in 1983/4 programme.</p> <p>Incorporated in 1983/4 programme.</p>
Page 18, Item 06	The work should include the effect of pH on side-stream smoke composition and properties.	Incorporated in 1983-4 programme.
Page 18, Item 07 emphasis on attempts to relate the chemistry of nascent smoke to changes in sensory response with increasing puffs.	Internal notes were produced; the main points will be combined and circulated in January 1984.
Page 18, Item 08 emphasis on gaining a better understanding as to why some consumers readily accept low tar products and others do not. This should be investigated in relation to switching/quitting.	Incorporated in 1983-4 programme. Relationship between consumers attitudes and quitting/switching behaviour is to be predictively modelled in 1984.
Page 19, Item 09	Support was given for the change in emphasis whereby the programme is broadened to embrace not simply flavour, but other sensory attributes, eg impact, irritation and mouthfeel.	Incorporated in 1983-4 programme.
Page 20, Item 15.	It was agreed that the development of on-line and off-line test methods for process control should be the principal area for secondary process work in a central R&D laboratory.	Major report on a number of transducers developed for Secondary Automation has just been issued.

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30.11.83

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