

PROJECTS AND ISSUES OF
API'S BENZENE TASK FORCE
(August 5, 1997)

Issue	Contracts	Projects/Schedule/ Status	Action Items (from 7/15/97)
Mechanism of Benzene Induced Leukemia	Richard Irons (Wayne Stillman, David Ross) University of Colorado (\$200K)	Validation experiment on CP colony forming units successful in showing qualitative accuracy of BBRA predictions. Nature of flow cytometry subgroups. BTF comments sought on manuscript about diagnostic value of MPO activity for leukemia type.	MBP draft letter for PB's signature: - Start characterizing metabolism in B-cells, with emphasis on biological significance; - Start investigation of differences in metabolism & sensitivity between non-smokers & smokers; - Request quarterly reports & encourage publication.
Biologically-Based Risk Assessment (BBRA) Model	Tony Cox Cox Associates (\$64K from 1996)	1996-7 projects: - Genotoxicity module; - Analysis of data from validation experiment underway; - Draft manuscript on validation of BBRA. Pro bono work on non-linear manuscript (Thomas/EBSI)	TC: Write up CP BBRA for publication & prepare to share with other modelers. MBP: Arrange workshop of modelers to assess CP BBRA model in conjunction with SRA meeting in Baltimore, Thurs., Dec. 11. Encourage clinical validation. Chuck Ross: Plan symposium at ACEOM for corporate physicians
Metabolism	Rogene Henderson (Bill Bechtold) ITRI (\$126K balance from 1996)	Re-established GC/MS method. In June/July determined that use of 3 derivitization methods necessary to cover metabolites of interest. Generate standard curves in July/August; to be followed by Baldwin audit. Finalize protocol for exposures Exposure at ~60 ppm Exposure at ~ 6 ppm, with completion by October 1997	Monitor progress regularly (biweekly conference calls) Judy Baldwin available for audit of standard curves on August 6-7 in conjunction with CMA BD visit. Schedule site visit to OK protocol for animal study (September?)

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Genotoxicity	Gary Williams (John Whysner) American Health Foundation (\$92K)	Contract signed in June. 7/29 Table of DNA adduct studies received. Review of genotoxicity literature on benzene (a) Phase I: DNA reactivity and adduct formation Literature search for all metabolites initiated - <i>due Oct 31.</i> (b) Phase II: Mutagenicity and clastogenicity endpoints	
	Gino Scarano ILSI (\$36K from 1995)	Benzene case study (along with BD and VC) of how non-tumor data could/should be used in cancer risk assessment. Outline expected from benzene team of Martyn Smith, Rich Irons, and Ray Tice in July, with draft report in fall 1997.	
Exposure of Piloform Cohort (legs/regs)	Denis Paustenbach (Paul Price) ChemRisk (\$12.5K)	Outline for paper received. (ChemRisk has decided to undertake a more comprehensive Monte Carlo analysis, covering expenses above contract amount themselves.)	
Chinese Epidemiology Study		July 1997 <i>JNCI</i> publication on NCI study supports benzene associated with neoplasms other than AML, but still no risk estimates. Question: (1) accuracy of case diagnosis, (2) how low benzene exposure estimates; (3) whether confounding exposures.	2/14/97: MBP learn if NCI has SAB 4/8/97 conf. call: - Ask Rothman to next D.C. BTF meeting; - RS draft list of questions. Use work of Qu / Chen of NYU for HEI to validate biomarkers in separate Chinese study to challenge NCI expo ests
Compilation of Benzene Monitoring Levels	DynCorp with oversight by IHTF	Report received documenting derivation and contents of database with appendices presenting analyses requested by IHTF; acceptability as final version will be determined at July 15 BTF meeting. Delivery of electronic database expected shortly for use by BTF members.	AJ: Have DynCorp correct text with max-min problem & provide BTF epidemiologists with electronic form of database for approval.
Workshop on Benzene Research Strategy		Similar to Airlie WS, Fall 1992. Aim for Summer 1998.	Feel out ? at EPA (CH) and Krewski at Health Canada (GG) for co-support
European Community		Summary prepared for CONCAWE by EBSI delivered to German rapporteur in May 1996. Adapted risk assessment expected to be final in fall of 1997.	

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U.S. EPA AEGLs - Priority Chemicals List		May 21, 1997, <i>Federal Register</i> notice that benzene among 85 chemicals on priority list for determination of acute exposure guideline (AEGL); request for data or other info.	
U.S. EPA	Julian Preston (\$4.5K) Vijay Reddy (\$3K)	June 30, 1997, <i>Federal Register</i> notice of release for external review of NCEA's revision of EPA's 1985 potency factor as requested by Office of Mobile Source in conjunction with CAAA in 1992. External Review Panel named (Rob Schnatter one of six members) in June 1997 with workshop to be held July 16 and public written comments due August 29. Meeting on July 2 at EBSI to initiate comments. Vijay Reddy and Julian Preston under contract to write pieces on relative sensitivity of DNA-adduct techniques and non-linearities associated with genotoxic endpoints other than point mutation.	PB giving 2-3 minute statement for API at 7/16 EPA WS. Schedule for API comments: 8/5 API outline (PB, RS, MBP) 8/7 conference call 8/11 drafts from API (??), Preston, Reddy 8/14 conference call 8/18 final from Preston & Reddy 8/20 API final to green slip 8/22 API submission (MBP & PB gone) [8/29 official deadline]
California		WSPA requesting review from CARB; OEHA then makes decision whether to do review	
North Carolina		State SAB lead by George Lucier producing RfCs and RfDs for benzene and numerous other substances that are finding their way into non-NC decision-making, e.g., New Jersey Superfund site evaluations U.S. EPA initially (February 1997) expressed concern, but has done nothing since despite prodding.	Let it go?

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Fax to Mary Paxton at 202-682-8270:

DALE STROTHER
(full name)

BP
(company)

_____ can participate in the first BTF conference call on Thursday, August 7, at 3:00 ESDT;
A better time this week would be:

_____ can participate in the second BTF conference call on Thursday, August 14, at 3:00 ESDT;
A better time that week would be:

You will be notified if a change from these two times is necessary.

To participate, call 1-800-282-2343 at the appointed time.

X

would like a copy of the Canadian exposure report.

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VIA FAX

TO: STROTHER, DALE E.
BP AMERICA

FROM:

ATTN: DALE STROTHER

TO: FAX PHONE#: 216-586-8314

Job Number: 66328762-009-27-0004

TIME: Tue Aug 05 11:55:43 1997

8 pages including cover sheet

American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005



memo

Date: August 5, 1997
From: Mary Paxton *Mary Paxton*
To: Benzene Task Force (BTF)
Re: Project updates and action items since July 14-15 meetings /
Comments on EPA's revision on benzene's cancer potency /
Exposure issues

Attached is an update of our projects and issues table with action items reflecting what transpired at our site visit with Rich Irons and Tony Cox and our BTF meeting the next day:

Our most pressing current item is preparation of comments for submission to EPA regarding its re-evaluation document on benzene's carcinogenic potential. We have contracted with Vijay Reddy and Julian Preston to write pieces on the relative sensitivities of various techniques for detecting DNA adducts and on non-linearities to be expected with specific sorts of genotoxic endpoints, respectively. We are expecting drafts next Monday, August 11. We will need to generate comments quickly, so they can produce revised final versions over the following weekend for Monday, August 18. We have to finalize our comments and "green-slip" them for sign-off within API by Friday, August 22, because Pat and I have commitments elsewhere the next week. (If anyone wants to volunteer to oversee submission on August 29, the official deadline, they are more than welcome to assume the responsibility and thereby ease up the schedule.)

We should check very soon that we're on the right track and have all the important bases covered in a conference call. I suggest that we review these matters on this Thursday, August 7, at 3:00 EDT. To review our consultants work and go over our own product we should schedule another for the next week, too. How about Thursday, August 14, at 3:00 EDT? Please respond as to your availability at these times. (In order to facilitate your scheduling this call, I am not holding this memo for our draft outline; it will be faxed by tomorrow for your consideration prior to the first call.)

Also attached are the cover page and table of contents from a 90-report Canadian report on benzene exposure in upstream oil and gas production. If you'd like a copy, please so indicate on the response form.

Along similar lines, does anyone have any input for DynCorp on the document on benzene levels within our industry? Finalization of that project is targeted for the end of the summer, so I need to receive any comments immediately.

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McMaster
University



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Wleada

pls give x/c to
Mary Patten &
Collette mylnarek

Literature Review of Exposure to Benzene and Total Hydrocarbons in the Upstream Oil and Gas Industry and the Effectiveness of Exposure Control Strategies

Final Report

By:

Dave K. Verma., Ph.D., P.Eng., CIH, ROH
(Principal Investigator)

Diane M. Johnson, B.SC.

A Contract Research Report Prepared for:

Canadian Association of Petroleum Producers (CAPP), Calgary, Alberta

CAPP Project Coordinator: J.D. (Jim) McLean

Draft Report November 15, 1996

March 10, 1997

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