2/15/78 Throdahl notes

do not type

OUTLINE

Q. what practical ~~means~~ means can be developed for removing PCB's from the environment? in U.S. in ex U.S.

Bkgd

- no known methods - except physical removal (isolation) ~~and~~ and incineration

- Incineration practical for highly concentrated PCB's or mixture; most PCB's exist in very dilute or diffuse natural environments
- Therefore logical collection of PCB's that are suspect ~~that~~ are
  - Pond ~~[illegible]~~ River bottoms
  - Pits
  - ~~Dumps~~ Landfills - refuse and even approved landfills
  - paper
  - existing sumps, drains + sewers
  - existing use in transformers, capacitors and other closed systems for heat transfer

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(2)

alternative approaches
Exhaust our own ideas
(Haven't gotten them out of existing organizations)

~~Test~~ Customer leads
~~Photolysis~~
Biological concentration
Chemical change
(Irradiation) molecule alteration by physical means
adsorption
pptn
Biodegradation

Alternative Approaches

- In-house ideas have not been fruitful
- Customer industry ideas no better

Therefore:
Propose go to sources of unconventional ideas

e.g. Lasers MIT
Enzymes Japan

The proposal we make is as follows:

(3)

1. • approach 2 or 3 research oriented institutions, probably MIT, Cal Tech, ~~and~~ and _____

2. • outline the situation and offer some kind of stepwise ~~support~~ financial support for ideas

• Each of these ideas examined with - how to reduce to exp and experiment

no guarantee beyond 1st and 2nd step

as approach,
with legal approval —
indicate - doing this for public good
we decide if practical —

go until → 2 Institutions accept.
Equiv. of 6 2 man-years for post doctoral or equivalent.
usual tests of feasibility

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(4)

initial offer: exploratory to establish feasibility — ~~[illegible]~~ do experiments to see if works

Make clear we wait to decide practicality

Write to Bible

cc:- Fitzgerald
Nolans
Mahoney
Fernandez
— Miller
— Gene Mallicar
Parks
Stohr

here are

nature of offer
controls in offer

first refusal to pursue

estimate ~~100,000~~ smaller amount for first step —
combination that doesn't exceed 100,000

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PCB's in air - can be dismissed
water + soil

exists in diffuse environ.

significance is when its collected -

affects birds + fish

go to: where

marine work done

like Woods Hole

go first to MIT
if oceanographic

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