Our primary areas of interest -

1. Toxicity - both acute and chronic
2. Bio-accumulation
3. Definition of PCB's
4. Analytical Limitations
5. Sampling Limitations

Gilman Veith:

1. P. 2 - Para. #1. - What is the relevance of the value of food resources in Lake Michigan and the presence of polychlorinated dibenzofurans in PCB's to the problem of PCB toxicity? - This is not relevant. -
2. P. 2 - Para. #2. - Ask about his knowledge of considerable variation in chemical reactivity, bio-concentration potential, and biological activity.
3. P. 2, Para. #2. How many fish are large numbers as used for bioassay.
4. P. 3, Para. #1 - Ask him to verify quantitative extraction of PCB's from water.
5. P. 3, Para. 2. When he extracted up to 200 liters of water, did he find Monochlor-biphenyl.
6. Exhibit #2 - Has he compared chromatograms of Monsanto PCB with Clophen A50. Since Clophen A-50 is a Bayer product not generally found in the U.S., does this reference have validity as it pertains to U.S. problems?

7. P. 3 - Last Line: - How does the silicic acid isolation procedure alter the composition of PCB residues.

8. (a) Exhibits 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14, among others indicates that the separation of PCB's from other products can be very difficult. Do you agree with this.

(b) If the separation is so difficult what percentage of analytical results from the literature would you estimate are erroneous?

9. Exhibit 15, like many other exhibits, indicates presence of PCB mixture resembling Aroclor 1254 in Lake Michigan fish? Have you found PCB mixtures resembling Aroclor 1016 in the environment?

10. P. 6 - Para. 3 - Perchlorination to Decachlordiphenyl would chlorinate all aromatics to their fully chlorinated state. A great fallacy - e. g. - presence of biphenyl conversion of other products to something resembling Decachlorbiphenyl. OK for synthetic mixtures only.

11. P. 7. Para. 2 - Ask him to explain the statement "absence of detailed definition of the systems studied."

12. P. 7, Para. 2 - Ask him to explain "approximated as a first order rate process" - What's his basis for this statement.

13. Exhibit 21 - On DDT - not relevant, and even then it is a "proposal".

14. P. 9, Para. 3 - Concentration factors variations 3,000 to 200,000 are reported. Again discussion of the reasons for variation.

15. Exhibit 29 - P. 1113 - Ask him to read his summary - then ask if he has begun the comprehensive toxicological studies.

16. P. 10, Paragraph 2 - It's the divisor that counts and 10 pptrillion is ludicrous: - So the large trout bio-accumulation factor is 1,500,000 - does he believe this.

17. P. 10, Para. 3 - Dr. Veith is a PhD. Water Chemist - What are his qualifications for evaluation of the biological resources of a lake. This is non-relevant rubbish.

How many fish caught in 1960
1965
1970
1973

Value of catch -

How much fish did animals eat?

18. Exhibit 36 - Have him read his last Paragraph on P. 154.

19. P. 11, Para. 3 - perchlorination is fallacious, and again the divisor parts per trillion.

20. P. 12 - not relevant. He is a poor research man. He vastly over-extends his area of knowledge - jeez.