CHLORINATED BIPHENYLS
CHRONOLOGICAL EVENTS

3/1/69

12-1 66 — Report of New Chemical Hazard - New Scientist Dec. '66 (Jensens Work)
First published report about PCB

12-29 66 — Widmark letter to Ford-Monsanto
Head of Institute of Analytical Chemistry
University of Stockholm, Sweden
Found unknowns to be polychlorinated biphenyls made by Monsanto, et al - used GC/Mass.
Sea eagle - 80 ppm polychlorinated biphenyls
- 80 ppm pesticides
- 40 ppm mercury
No knowledge of biological significance in living organisms.
Collaboration started with Dept. of Toxicology/Carolin Institute.
Would like to work with Monsanto Toxicologists on problem.

1-10-67 — Press Release, LKB Instrm. Co.
(Jensens Work)

1-26-67 — D. Wood letter to Buchanan
Visited Sweden
Confirmed chlorinated biphenyl report of Jensen

1-30-67 — Editorial in Chemical Engineering
Covers Jensens work

2-13-67 — Wilde letter to Kelly

2-21-67 — Hardy letter to Kelly
Richard of Shell - Jensen may have jumped gun in blaming chlorinated biphenyls

2-21-67 — Kelly letter to Wilde - No need to contact Swedish people

2-27-67 — Widmark letter to Wilde
Reviews lecture at Baeyer in Germany

2-27-67 — Kelly letter to Thomas - NCR

3-16-67 — Wilde letter to Kelly - Widmark Letter

5-67 — S.A.O.A.C. - Pub. - Widmark 50 1069 (1967)

10-21-67 — Holmes, Simmons, Tatton - Nature 216 227 (1967)
Confirms work of Jensen

11-1-67 — Hardy letter to Richardson at Shell
Status of work at Shell?

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11-2-67 — Richardson letter to Hardy
Confirmed by GC/Mass. Aroclor 1254 in eggs from 100 ppm feeding studies - confirmed Govt. Labs.

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12-30-67 Holden, Worsden - Nature 216 1274 (1967)
PCB in seals
PCB appears in birds with aquatic environment - suggests river contamination.
Human in UK contain little PCB <0.1 ppm in fat.
Suggests pollution is of aquatic origin - if air more would be found in human fat.
Conns. found & LD_{50} - unlikely that residues of PCB constitute direct toxic hazard.

1-8-68 Heininger letter to Robson/Anagnostopoulos.
Birdsall, Wisconsin Alumni Res. Foundation (WARF)
Studies to be on shore birds
Funded by U.S. Dept. of Interior, Fish & Wildlife Service
Suggested that Monsanto-WARF work openly

1-16-68 Wilson letter to Gentlemen/Monsanto
Res. Chemist, U.S. Dept. of Interior
Fish & Wildlife Service
Investigation of chlorinated polyphenyls in avian and animal tissues

1-26-68 Lincer letter to Patterson, MCL
Res. Assistant, Syracuse Univ. Res. Corp., New York
Wanted polychlorinated biphenyl references & materials

2-8-68 Spencer letter to Richard
Consultant, Nat. Ag. Chemicals Assoc-
Interferences with chlorinated hydrocarbons

2-13-68 Baxter letter to Richard - Ref. to Syracuse

2-19-68 Richard letter to Baxter - Aroclor 5a, status

2-23-68 Hardy letter to Richard

4-26-68 Paton letter to Kelly

5-3-68 Newell letter to Hunt
Chairman Dept. of Ag. & Environmental Toxicology, Stanford Res. Institute
Toxicological results/birds & fish/enzyme induction stimulated
Recommended tests in cooperation with Monsanto rather than seek govt. support
Med. Dept. recommended no action.

5-6-68 Kelly memo to Robson/Anagnostopoulos - Reference to 5-3-68

5-20-68 Richard to Davis and back

5-23-68 Richard to Davis and back

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7-15-68	Glasgow, Chief Pesticides - requested info on Aroclors Ref. St[illegible]. Section Dept. Health, Education & Welfare Blickenstaff - USDA - quality control for formulations Dykstra - USDI - Pautuxent, Maryland Labs - Aroclor sent
7-31-68	Paton Memo
8-23-68	Wheeler to Early, trip plan
9-5-68	Wheeler plan memo for visits
9-11-68	Wheeler memo to Richard - Biotest Protocols
10-9-68	Risebrough - Confidential pre-publication PCB in fish & birds Comments from Monsanto solicited
10-21-68	Wheeler to Richard - Risebrough paper
11-1-68	Risebrough to Conkin - Publication Review
11-6-68	Wheeler to Richard
11-13-68	Conkin to Risebrough - Comments on review of manuscript
11-14-68	Wheeler memo to Richard
11-27-68	Paton to Richard Include Aroclor 5460
11-68	Gunther - Prof. of Entomology & Chemistry, Univ. of Calif. School of Ag. Sciences Dept. of Entomology Citrus Res. Ctr & Ag. Expt. Sta. - Riverside
	State USDA Research Area Committee including Hawaii DDT & chlorinated hydrocarbons
12-3-68	Gunther to Paton - Request for Aroclor Sas.
12-9-68	Wheeler to Richard - Calendra Minutes
12-9-68	Richard to Wheeler - Calendra Minutes
12-14-68	Risebrough - Nature 220 1098 (1968)
12-19-68	Richard to Tucker - DDT, et al
12-20-68	Wheeler to Calendra - Letter of authorization
12-23-68	Bryant to Harris - Rome Pollution Laboratory
12-30-68	Richard to Kuhn - Legal problems
12-30-68	Tucker to Richard - Chlorinated Naphthalenes

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12-31-68 Tucker to Lasher - Aroclor at Anniston

1-7-69 Wheeler to Richard - Aroclor Wildlife

1-9-69 Wheeler to Richard - Meeting

1-10-69 Wheeler to Calendra - Feeding of Halowaxes

1-16-69 Wheeler to Tucker - Widmark Paper

1-21-69 Wheeler to Fancher - Proceed with chickens

1-21-69 Wheeler to Richard - Pesticide Structures

1-23-69 Hodges to Buckley - Aroclors in Plant Effluents

1-24-69 Paton to Keller, et al - Montar

1-30-69 Tucker to Wood - Update

2-4-69 Wood to Tucker - Reply

2-7-69 Tucker to Wheeler - Pesticide Sas.

2-10-69 Wheeler to Fancher - DDT, et al sas.

2-24-69 Perlman - San Francisco Chronicle

2-25-69 Tucker to Keplinger

2-25-69 Tucker to Wheeler - Widmark's Paper

2-25-69 Tucker to Wheeler/Richard - Anniston River Results

2-26-69 Notes on meeting - Burgen, et al

2-26-69 Tucker to Stark - Solubility

2-28-69 Rough Draft - Keller - Position Statement

3-4-69 Tucker to Richard - Combustion

3-4-69 Wheeler to Wood - Dept. of Fish & Game

3-5-69 Paton to Richard - DDT on Trial

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R. E. Keller

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