7, May 69
Prof. Van Genderen
Utrecht (1)

Prof of Pharma + Tox - Formerly c̄ public health
4 students in Vet-Pharma
10 " in Biology - Toxicology

Chiron of Comm on Pesticides,
and Gov't interest in air pull.

At Ornithologist's request - got into bird studies
1) Birds of prey - 1) due to chlorinated H.C - spring application banned
2) Hg

2) Sea birds - Terns -
One colony of sandwich terns reduced to few %
Eider duck - in trouble from possibly both
Cl HC. and Hg.

"Chlorinated Biphenyl in Fish Mussels and Birds from the River Rhine and the Netherlands Coastal Area"
Nature Vol 221, Mar 22, 1969

1) Send copy of Dunkers report
2) " method and sample of 2,2',4,4' Tetra chloro diphenyl oxide

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Toxicity Studies MONS 061266
Have study
21 day 3 PCB - @ 400 ppm - 1 day cockerel
1) Found 1) porphyria in all 3 PCBs
2) difference in PCB - PCB less toxic
3) pericardium edema
more chicken edema, liver necrosis

2) Chickens 60 days @ 400 ppm - chlorophenyl, most toxic Aroclor least.
+ other products birds all dead only 15% fatal

3) Confirmation of porphyria in cats + quail -

4) Plan to do further studies on edema and liver necrosis.

5) 2000 ppm lethal in quail in 20 days.

6) Tissue residues in dead birds may not relate to time of death

7) Porphyria found in heavy hex but not in ~~DDT~~ DDT
↓ tremor PCB ↘ no tremor

But acute liver necrosis in both

Microscopic fluorescence -

8) Is also going to do further comparative work in cats - probably rabbits and guinea pig because of liver necrosis sensitivity and possible skin effect -

Extra questions How does ~~q~~ chick edema occur?

1) Environmental pollution and control
2) and University academic interest