bcc: R. E. Keller - QUEENY

February 27, 1967

Dr. M. J. Thomas
Research Division
Building No. 33
National Cash Register
Dayton 9, Ohio

Dear Dr. Thomas:

Attached is a photostat of the original paper of Dr. Jensen in Sweden, relating to polychlorinated biphenyls. I will be happy to have your ideas after you read it.

As far as the section on toxicology is concerned, it is true that chloracne and liver trouble can result from large doses. Whether or not this is at all relevant to small quantities existing in human fat is, of course, an entirely different question.

At any rate, I believe before we worry about the toxicological part of the problem, we should settle the analytical part.

Sincerely,

R. Emmet Kelly, M. D.
Medical Director

REK/ln
att.

DSW 230076

STLCOPCB4053729

Gene Wilde - General Offices

March 16, 1967

POLYCHLORINATED BIPHENYLS

UNIVERSITY OF STOCKHOLM

Dr. R. E. Kelly

C. R. Buchanan
Dr. W. H. Hunt
R. E. Keller - JWQ
W. F. Mayhoff

Attached is the latest communique that I have received from Gunnar Widmark. I thought you would be interested in receiving a copy of this about Widmark's visit at Bayer. As you can see he says that there was quite an intense discussion, which I can imagine, about the recent publicity from the University of Stockholm and that there was only one objection which involved the possibility of one of the polychlorinated biphenyl isomers to be formed at the decomposition of Lindane. I suppose the most important thing in this letter is the second paragraph. Here he outlines future investigations at the Carolin Institute and he believes there will have to be more laboratories brought into the project to complete the work.

If any of you have any comments or thoughts on something which should be done now, please let me know immediately. I have heard nothing more from our customers or from the field since our meeting in your office. The only U. S. publication that carried the story to date has been "Chemical Engineering".

Thank you for your cooperation in helping us follow this so that we can protect our interests properly.

Gene Wilde

/kh

DSW 230077

STLCOPCB4053730

INSTITUTE OF ANALYTICAL CHEMISTRY
UNIVERSITY OF STOCKHOLM
Roslagsvägen 90, Stockholm 50, Sweden

Stockholm, February 27, 1967

Mr Gene C.Wilde
Plasticizer Sales Dept.
Monsanto Co
800 Lindbergh Bld
St Louis, Missouri 63166, USA

Dear Mr Wilde,

Thank you for your letter of January 24, which was on my desk when I returned from a lecture trip to Germany. During this trip I gave a lecture at Bayer AG, Leverkusen, a company manufacturing polychlorinated biphenyls under the trade name of Clophen A 50 and A 30. During the intense discussion which followed my lecture there were no objections to our analytical findings except for the possibility of one of the PCB isomers to be formed at the decomposition of Lindane; over three chloro benzene. Although we do not have a scientific proof against this assumption- made by an application chemist of Bayer - I think the reaction is very unlikely and only responsible for one of the PCB isomers. - The chromatogram added to this letter demonstrates the increase of the higher chlorinated PCB's through a food chain and the decrease of the lower ones; this is against the "lindane-theory". Remark also the non-presence of PCB in a non-aquabic animal.

At present we are discussing the plans for the toxilogical investigations to be done in collaboration with prof. Bo Holmstedt, head of the Toxilogical Dept. of the Carolin Institute. However, it is my firm impression that the toxilogical work to be done is of such a great extent that it has to be divided between more toxilogical laboratories. Moreover, more analytical work has to be done to aid the toxicological work.

During my visit to Germany your Swedish representant, Rising and Strand Co (Mr O.Palm) has been in contact with Mr Sören Jensen of this institute. At their discussion Mr Palm was given a manuscript of a lecture which Mr Jensen recently gave for the board of the Swedish Committee of Natural Resources. A copy of this lecture has been sent to Monsanto. It has to be

STLCOPCB4053731

underlined that, according to the agreement between these two gentlemen, this manuscript must only be in use inside Monsanto. Please inform your collegues of Monsanto of this limitation.

Sincerely Yours

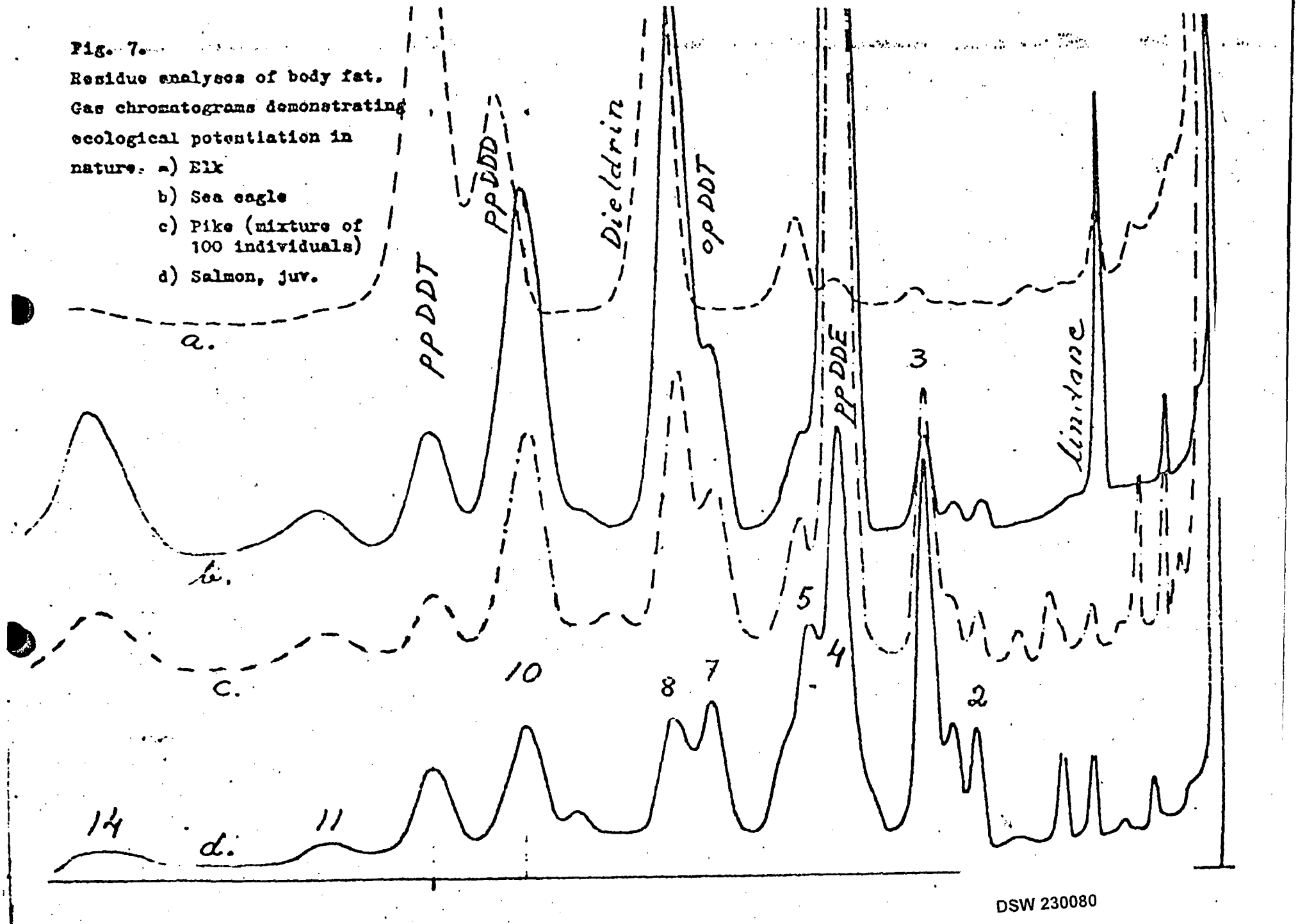
Gunnar Widmark

Gunnar Widmark

DSW 230079

STLCOPCB4053732

Fig. 7.
Residue analyses of body fat.
Gas chromatograms demonstrating ecological potentiation in nature. a) Elk
b) Sea eagle
c) Pike (mixture of 100 individuals)
d) Salmon, juv.



DSW 230080

STLCOPCB4053733