

FACSIMILE TRANSMISSION

University of Illinois at Chicago
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 Epidemiology-Biostatistics
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4

(including cover sheet)

TO:

JIM COLLINS

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FROM:

VICKY PERSKY

TEL:

()

MESSAGE:

Enclosed is a draft of our
 abstract for FLAMES the enclosed
 meeting

SENDER: Please check (✓) the area to be charged:

☐ ASTHMA
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☐ PERSONAL
☐ SCPA
☐ STEROIDS
☐ WIHS
☐ OTHERS:

Have a nice day !!!

DSW 476038.0996

STLCOPCB4043156

02253 E

THYROID FUNCTION IN WORKERS EXPOSED TO CHLORINATED PHENOLS AND PHENOXY ACID ESTERS. VW Persky¹, DO Hryhorczuk¹, W Wallace², S Furner¹, JR Webster², DM Oleske³, B Hazlehorst.¹University of Illinois School of Public Health, ²Northwestern University, ³Rush Presbyterian St. Luke's, Chicago, Illinois

In 1986 we compared the health status of 473 workers previously engaged in the manufacture of chlorophenols and chlorophenoxy acid esters with that of 303 unexposed persons who had worked at the same plant. A total 260 persons had worked with pentachlorophenol (PCP), 55 with lower chlorinated phenols (LCP), and 31 with esters of 2,4,5-T (EST). A total of 82 exposed workers had either a history of chloracne or physical evidence of chloracne at the time of medical examination. Thyroxine (T₄) levels in 1986 were significantly higher among all exposed persons and exposed persons with chloracne on univariate analysis (8.00 and 8.23 vs 7.71 ug/dl). The differences remained significant, however, only for those with chloracne after control for confounders (age, gender, race, diabetes, pregnancy, cirrhosis, lymphoma, throat cancer, and selected medications). Mean free thyroxine index (FTI) was also significantly higher among all exposed persons with chloracne after control for confounders. Persons who worked with PCP and EST tended to have higher levels of T₄, but differences were only of borderline significance. Persons who workers with LCP had only slightly higher levels of T₄ than unexposed persons while those who worked with LCP who also had chloracne had significantly higher levels of T₄ after control for confounders. There were no significant differences in TSH among any of the exposure groups.

Draft

Confidential

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Announcement/Call for Papers**THIRTEENTH INTERNATIONAL NEUROTOXICOLOGY CONFERENCE****DEVELOPMENTAL NEUROTOXICITY
OF ENDOCRINE DISRUPTERS*****Dioxins, PCBs, Pesticides, Metals, Psychoactive & Therapeutic Drugs*****OCTOBER 29 - NOVEMBER 1, 1995*****The Arlington Hotel & Spa*****HOT SPRINGS, ARKANSAS USA*****For information please contact:***

Dr. Joan M. Cranmer, *Conference Chair*
Department of Pediatrics - #512
University of Arkansas for Medical Sciences
4301 West Markham
Little Rock, Arkansas 72205 USA

(501) 320-2986 / FAX: (501) 320-4978

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- **Agency for Toxic Substances and Disease Registry**
- **U. S. Environmental Protection Agency**
- **University of Arkansas for Medical Sciences**
- **National Center for Toxicological Research / FDA**
- **Arkansas Children's Hospital**

Dr. Victoria Persky
University of Illinois School of Pub. Health
2121 Taylor Street
Room 508
Chicago, IL 60612

**ABSTRACT DEADLINE:
OCTOBER 1, 1995**

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DEVELOPMENTAL NEUROTOXICITY OF ENDOCRINE DISRUPTERS • HOT SPRINGS, ARKANSAS USA

PRELIMINARY PROGRAM

Sunday Afternoon - Oct. 29, 1995 (2:00 - 5:30 pm)

IA. OPENING, WELCOME AND OVERVIEW

Opening and Overview of the Conference

DR. JOAN CRANMER *University of Arkansas for Medical Sciences*

Welcome

REPRESENTATIVES OF THE SPONSOR AND HOST INSTITUTIONS

IB. EMERGING ISSUES: PUBLIC HEALTH & SCIENCE

Neurobehavioral Effects Arising from Environmentally Relevant Chemical Exposures

DR. THEO COLBORN *World Wildlife Fund*

Toxicological Issues Provoked by Environmental Estrogens

DR. STEVEN SAFE *Texas A&M University*

Early Development: The Sensitive Stage for Environmental Endocrine Disrupters

DR. LINDA BIRNBAUM *US EPA**Welcoming Reception: 5:30 - 8:00 pm*

Monday Morning - Oct. 30, 1995 (8:30 - 11:30 am)

II. TUTORIALS & REVIEW

Chairs: Drs. Bernard Weiss and Babasaheb Sonawane

The Course of Neuroendocrine Development

DR. THOMAS BADGER *Univ of Arkansas for Medical Sciences*

Behavioral Markers of Neuroendocrine Development

DR. ELAINE HULL *University of Buffalo*

Actions of Environmental Agents Linked to Neuroendocrine Function

DR. THOMAS GASIEWICZ *University of Rochester*

Environmental Endocrine Disrupters, Sexual Development and Risk Assessment

DR. BERNARD WEISS *University of Rochester*

Monday Afternoon - Oct. 30, 1995 (1:00 - 4:45 pm)

III. PCBs & DIOXINS: ANIMAL STUDIES

Chairs: Dr. Deborah Rice and Dr. Hugh Tilson

PCBs and Related Compounds: An Overview of Animal Research

DR. HUGH TILSON *US EPA*

Role of the Thyroid in PCB-Induced Cognitive Dysfunction

DR. SUSAN PORTERFIELD *Medical College of Georgia*

Behavioral Effects of Postnatal Exposure to an Environmentally-Relevant PCB Congener Mixture in Monkeys

DR. DEBORAH RICE *Health Canada*

Neurobehavioral Effects of Developmental Exposure to Orthosubstituted Versus Coplanar PCB Congeners

DR. SUSAN SCHANTZ *University of Illinois*

Structure Activity Relationships of Potentially Neurotoxic PCB Congeners in the Rat

DR. PRASADA KODAVANTI *US EPA**Sunset Dinner Cruise and Dance*

Tuesday Morning - Oct. 31, 1995 (9:00 am - 12:30 pm)

IV. PCBs & DIOXINS: HUMAN STUDIES

Chairs: Dr. George Lambert and Dr. Walter Rogan

Human PCB Toxicity Studies: An Overview

DR. WALTER ROGAN *NIEHS*

Evidence for PCBs as Neurodevelopmental Toxicants in Children

DR. JOSEPH JACOBSON *Wayne State University*

Results of the Dutch Study on PCB-Induced Neurotoxicity in Children

DR. CORINE KOOPMAN-ESSEBOOM

Sophia Children's Hospital, The Netherlands

Neuroendocrine Developmental Effects in Children Exposed In Utero to PCBs: Studies in Taiwan

DR. LEON GUO *National Chen Kung University, Taiwan*

Evidence for the Role of the Ah Receptor/P450 in PCB-Induced Toxicity, Neurotoxicity and Endocrine Disruption in Humans

DR. GEORGE LAMBERT *Rutgers University*

Tuesday Afternoon - Oct. 31, 1995 (2:30 - 5:00 pm)

V. POSTER PRESENTATIONS - All Papers Welcome!

(Student Award winners will be selected during this Session)

Wednesday Morning - Nov. 1, 1995 (8:30 - 11:00 am)

VI. PESTICIDES/METALS/DRUGS

Chairs: Dr. William Slikker Jr. and Dr. Robert Joy

Pesticides as Neuroendocrine Disrupters

DR. PENELOPE FENNER-CRISP *US EPA*

Organochlorine and Pyrethroid Insecticides as Neurobehavioral and Neurochemical Disrupters

DR. ROBERT JOY *UC Davis*

Behavioral Effects of Environmental Exposure to Lead Using an Avian Model: Field and Laboratory Studies

DR. JOANNA BURGER *Rutgers University*

Methods for Assessing Adverse Neurodevelopmental Effects in Children Exposed to Cocaine, Ethanol or PCBs

DR. SANDRA JACOBSON *Wayne State University*

Wednesday Afternoon - Nov. 1, 1995 (11:15 - 1:00 pm)

VII. RISK ASSESSMENT & RESEARCH NEEDS

Chair: Dr. Hugh Tilson

Report of EPA Endocrine Disrupter Symposium: Neurotoxicology Research Needs

DR. HUGH TILSON *US EPA*

Panel Discussion: Risk Assessment & Research Needs

DRS. AMLER, BIRNBAUM, FENNER-CRISP, LAMBERT, SEEGLAND SHANTZ

1:00 pm Adjourn Conference

Optional Tours of NCTR, UAMS or ACH (1:00 - 5:00 pm)

TOTAL P. 04

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