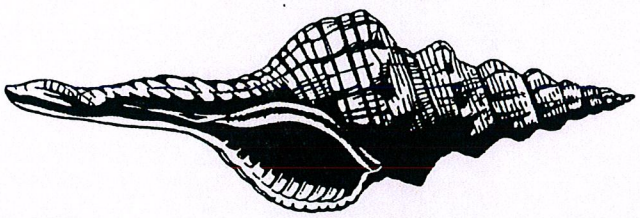
27th ANNUAL

PESTICIDE RESIDUE

WORKSHOP

JULY 15-18, 1990 ST. PETERSBURG, FLORIDA



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ST. PETERSBURG BEACH, FLORIDA

Welcome to the 27th Annual Pesticide Residue Workshop. I am gratified for the good attendance. You will find the papers are of excellent quality covering an array of timely subjects of analytical technology of pesticides and related chemicals. I am sure this workshop will again provide the opportunity for you to share knowledge, interest and problems with each other.

Enjoy St. Petersburg Beach and Florida's west coast while you are here. Be sure to allocate time to watch the spectacular sunsets.

Sincerely,

W. George Fong

We appreciate the continuous interest and support by the exhibitors. Please be sure to visit the exhibitors and discuss your interest(s) with them.

EXHIBITORS

Analytical Biochemistry Laboratories, Inc. .....Ralph Waltz
Analytichem International, Inc. .....Andy Sendelbach
Beckman Instruments, Inc. .....Dick Smith
Bio-Rad Laboratories, Inc. .....Ralph Cowden
Bio-Rad Laboratories-Digilab Division.....Randy Curles
Crescent Chemical Co. .....Susan Cohen
Dela Technology (representing Questron & LDC Analytical).....Wes Floyd
Dionex.....Greg Cuzzort / Rabun Rumpey
Finnigan Mat.....Randy Porch

Gervin Massey & Associates.....Gervin Massey
Hewlett-Packard.....Tom Stocks / Jeff Downing / Chip Townsend
O. I. Analytical.....Jerry Dasson / Allen Vickers / Kelly Davis
Ohmicron Corp. .....Robert G. Sandberg
Perkin-Elmer Corp. .....Larry Myers / Lyle Rinker / Bob Riggs
Sadtler Research Lab.....Jim Wingo
Sci-Con.....James Westmoreland
Scientific Glass Engineering, Inc. .....Ken Mahler
Shimadzu Scientific Instruments, Inc. .....Chris Gaylor / Jim Velinsky
Sievers Research, Inc. .....Marianne Novelli
Southern Measurement Company of Florida.....David Westerheide
Tekmar Company.....Jim Stainfield
V G Instruments.....Howard Eubanks
U. S. Analytical Instruments.....Mark Alper
Varian Instrument Group.....Gary Cook / Mickey McAllister

Sunday / July 15, 1990 / Afternoon

4:00 - 6:00 REGISTRATION

Meetings and Exhibits are to be held in the ISLAND BALLROOMS

Door Prizes will be drawn at the end of each session - YOU MUST BE PRESENT TO WIN

Monday / July 16, 1990 / Morning

7:30 - 8:30 REGISTRATION

8:30 - 9:00 Welcome
Introduction and Announcements - **George Fong**

1. 9:00 - 9:15 Mississippi State Chemical Laboratory Pesticide Residue Program - **Reba L. Ingram**, Rubel Cowart

2. 9:15 - 9:30 South Carolina Pesticide Residue Report - **Betsy Cooper**

3. 9:30 - 9:45 Report from the State of Maryland - **Stanley Daniello**

4. 9:45 - 10:05 Florida Department of Agriculture State Report - **Gail Parker**

	10:05 - 10:45	**BREAK** **Refreshments Courtesy of Analytical Biochemistry Laboratories, Inc. and Beckman Instruments** **VISIT EXHIBITS**
5.	10:45 - 11:00	AOAC Report - **Howard Moore**
6.	11:00 - 11:20	Organic Mercury in Fish Tissue - **Tammie Stauter**
7.	11:20 - 11:35	Determination of Methylmercury in Water by Liquid-Liquid Extraction and N-pentyl Derivatization with Capillary Gas Chromatography/Atomic Emission Detection (AED) - **David H. Greer**
8.	11:35 - 11:50	Determination of Phenylmercuric Acetate and Total Mercury in Water-Based Paint Products - **Dr. John Gillis**, Kenneth Wang, Cyndy Lemmon
	12:00 - 1:30	**LUNCH (on your own)**

Monday / July 16, 1990 / Afternoon

9.	1:30 - 1:50	Groundwater Sampling Considerations - **Dr. Edward Zahnow**
10.	1:50 - 2:10	Contaminant Transfer from Hazardous Waste Sites to Adjoining Surface Waters - **Dr. J. J. Delfino**, W. Davis, J. Coates, M. Jacobs, K. L. Garcia
11.	2:10 - 2:25	The Frequency of Analytical Detection of 198 Pesticide Residues in Dade County Groundwater - **Dr. Carl Pfaffenberger**, Dr. Dennis Howard
12.	2:25 - 2:45	Organophosphorous Pesticides in Coastal Water - **Dr. Tsen Wang**
13.	2:45 - 3:05	Multiresidue Determination of Corn Production Herbicides in Soil and Water - **Dr. Terry D. Spittler**
	3:05 - 3:30	**BREAK** **Refreshments Courtesy of Bio-Rad Laboratories and Dionex Corporation** **VISIT EXHIBITS**

14.	3:30 -	3:50	Parameters for Consideration in Assessing Environmental Distribution of Pesticide Products - **Dr. Surya Prasad, Dr. Christine F. Chaisson**
15.	3:50 -	4:10	Solid Phase Extraction Cleanup of Chlorinated Organic Pesticides - **Nirmal K. Saini**
16.	4:10 -	4:25	Improved Liquid/Solid Extraction of Pesticides from Aqueous Samples - **Thomas Tait**
17.	4:25 -	4:45	SFE of Agricultural Products - **Dr. Julia Wheeler**
18.	4:45 -	5:00	The Use of Off-line and On-line Supercritical Fluid Extraction (SFE) as a Means of Analyzing for Pesticides in Food Matrices - **Brett Murphy**
19.	5:00 -	5:15	Quantitation of Selected Pesticides in Agro-commodities & Food Using HP7680A Supercritical Fluid Extractor - **Wayne Miles**
	6:00 -	7:00	**Get Acquainted Party - Compliments of Trade Winds - Location to be Announced**

Tuesday / July 17, 1990 / Morning

	7:30 -	8:30	**REGISTRATION** **Check Sample Committee Meeting**
20.	8:30 -	8:50	Quality Management (QA/QC) in the Commercial Laboratory - **Mary G. Schultz**
21.	8:50 -	9:10	Methods Validation for Chemical Residues - **Gail Parker**
22.	9:10 -	9:25	High Purity Standards and Solvents for Residue Analysis - **Patricia Loh**
23.	9:25 -	9:45	An Overview of EPA Good Laboratory Practice Standards - **Dr. John Gillis**
	9:45 -	10:30	**BREAK** **Refreshments Courtesy of Gervin Massey and Associates and O. I. Analytical**

VISIT EXHIBITS

24.	10:30 - 10:45	A New Immunoassay-Based System for the Analysis of Pesticide Residues - **Robert G. Sandberg**, David P. Herzog
25.	10:45 - 11:05	Development of An Immunoassay for Metsulfuron Methyl Herbicide in Soil and Water - **Johanne Strahan**
26.	11:05 - 11:25	Experience with Commercially Available Immunoassay kit for the Quantification of Triazine Residues in Water - **Dr. James Brady, Dr. James H. Pittman, Dr. Gary S. LeMasters**
27.	11:25 - 11:40	Development and Application of Immunoassays to the Analysis of Alachlor in Water - **Ray Sharp**
	11:40 - 1:30	**"Quiche" LUNCHEON** **(Tickets purchased in advance)**

Tuesday / July 17, 1990 / Afternoon

28.	1:30 - 1:45	Procymidone in Wine and Other Interesting FDA Findings in 1989-90 - **Sander W. Bellman**
29.	1:45 - 2:05	Determination of Selected Triazole Fungicides in Fruits & Vegetables by Wide-Bore Capillary Gas Chromatography with Nitrogen Selective Detection - **Charles H. Parfitt, Jr.**
30.	2:05 - 2:20	Determination of Paraquat and Diquat in Produce Using Solid Phase Extraction and Ion-pairing HPLC - **Tina M. Chichila,** Stephen M. Walters
	2:20 - 3:00	**BREAK** **Refreshments Courtesy of Ohmicron Corporation and Shimadzu Scientific Instruments**
31.	3:00 - 3:15	Fast Turnaround Multiresidue Screen for Pesticides in Produce - **Herbert J. Schattenberg III**
32.	3:15 - 3:30	A New Method Validation-Residue Analysis of Sumithrin in Food Products - **Han Tai**
33.	3:30 - 3:50	Soil and Vegetable Matrix Monitoring by Micro-Laser Bioassay - **Dr. I. Cecil Felkner**

Wednesday / July 18, 1990 / Morning

	7:30 - 8:30	**Check Sample Meeting for Check Sample Program Participants ONLY**
34.	8:30 - 8:45	Analysis of Mirex in Human Blood Serum in the Presence of PCBs Using Packed Column Gas Chromatography - **Margaret P. Korver**
35.	8:45 - 9:05	Methodology for Pesticide Analysis of Soil Samples - **Sue G. Taylor, Ging-Hoen Huang**
36.	9:05 - 9:20	Benzyl & Pentafluorobenzyl Derivatives of Carboxylic Acids & Phenols - **Dr. Alan P. Thio**
37.	9:20 - 9:40	Use of Smartware II Integrated Software for Sample Tracking and Management - **Allan M. Mitch**
38.	9:40 - 10:00	Trying to Understand the OSHA Laboratory Safety Standards - **Larry Lagman**
	10:00 - 10:30	**BREAK** **Refreshments Courtesy of V G Instruments and Varian Instrument Group** **VISIT EXHIBITS**
39.	10:30 - 10:50	Optimization of Sample Introduction Parameters for Automated Trace Analysis of Pesticides by Capillary GC - **Zelda Penton**
40.	10:50 - 11:10	A Comparison of the Atomic Emission Detector with Other Element-Selective Detectors for Pesticide Residue Analysis - **Dr. Philip L. Wylie**
41.	11:10 - 11:30	"LIS" The Next Generation in Multi-Dimensional Detectors - **Robert Kalbacher**
42.	11:30 - 11:45	Evaluating Dual OI-4420 ELCD Detectors for Halogenated Pesticide Residues - **Michael N. Briggs**
43.	11:45 - 12:00	Use of an Electrolytic Conductivity Detector for the Determination of N-Pesticides - **Kelly Davis**
	12:00 - 1:00	**LUNCH (on your own)**

Wednesday / July 18, 1990 / Afternoon

44.	1:00 - 1:20	Gas Chromatography Detectors on Chemiluminescence-Pesticides in Water - **David L. Westerheide, Marrianne F. Legier**

45.	1:20 -	1:40	Halogen Specific Detection of Pesticides and PCBs with an Electrolytic Conductivity Detector - **Allen Vickers**
46.	1:40 -	2:00	New Development of Electrochemical Detector for HPLC - **Tom Stocks**
	2:00 -	3:00	**Open Forum**
	3:00 -	3:30	**FDACS Chemists' Meeting**

Program Participants

Bellman, Sander W.; U. S. FDA; 60 Eighth Street; Atlanta, GA 30309; **28**

Brady, Dr. Jim; Ciba-Geigy, Agricultural Division; P. O. Box 18300; Greensboro, NC 27419-8300; **26**

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