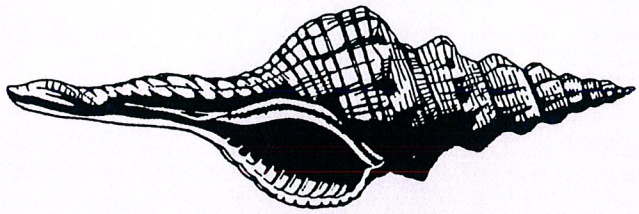
28th ANNUAL

PESTICIDE RESIDUE

WORKSHOP

JULY 14-17, 1991 ST. PETERSBURG, FLORIDA



TradeWinds

ON ST. PETERSBURG BEACH • FLORIDA

State of Florida
Department of Agriculture & Consumer Services
Tallahassee, Florida

BOB CRAWFORD
Commissioner of Agriculture

WELCOME TO THE 28TH ANNUAL PESTICIDE RESIDUE WORKSHOP! Due to the uncertainty of the economy, we were not certain of its impact on the attendance of this meeting. We appreciate the extra cooperation of Trade Winds in arranging this meeting. Most of all, we appreciate your attendance.

We are sure this workshop will again provide the opportunity for you to share knowledge, interest and problems with each other. Meantime, be sure to enjoy the beautiful beaches of Florida's west coast.

Sincerely,

BOB CRAWFORD
COMMISSIONER OF AGRICULTURE

W. George Fong
Chief

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

EXHIBITORS

Bio-Rad Laboratories, Inc. and Bio-Rad Digilab Division.....Ralph Cowden

Dionex.....Gregg Cuzzort / Rabun Rampey / Bob Joyce

Enzytec.....Kathleen Howe

Extrel Corporation.....Pat Dempsey

Finnigan Mat.....Randy Porch

Fisher Scientific.....Rodney Crosby

Hewlett-Packard.....Tom Stocks

Hitachi Instruments, Inc.....John Green / Ernest Pitts

Ohmicron Corporation.....Joseph X. Dautlick

O.I. Analytical.....Marcy Lykins

Perkin-Elmer Corp.....Larry Myers / Lyle Rinker / Bob Riggs

Radiomatic Instruments and Chemical Co., Inc.....Robert Miller

Shimadzu Scientific Instruments.....Chris Gaylor / Jim Velinsky

Southern Measurement Co. of Florida/Sievers Research, Inc.....Dave Westerheide

Spectra-Physics/Sci-Con.....Jim Westmoreland

Suprex Corporation.....Jim Garnett

Varian Instrument Group.....Gary Cook/ Mickey McAllister/ Phil Tucka/ Ray Matejczyk

Whatman, Inc.....Elaine Heilwell

Sunday / July 14, 1991 / 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 morning and afternoon session. You must be ON TIME at the beginning of each session to receive a ticket and BE PRESENT AT THE DRAWING TO WIN.

Monday / July 15, 1991 / Morning

7:30 - 8:30 **REGISTRATION**

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

1. 9:00 - 9:10 S. C. Pesticide Residue Report - **Betsy A. Cooper**

2. 9:10 - 9:30 Florida Department of Agriculture State Report - **Gail Parker**

3. 9:30 - 9:45 Alabama Pesticide Residue Program - **Danny LeCompte**

4. 9:45 - 10:00 Activities in Georgia Agriculture Lab - **J. Michael Farrow**

10:05 - 10:45 **BREAK - VISIT EXHIBITS**
Refreshments - Courtesy of Bio-Rad, Digilab Division & Dionex

5. 10:45 - 11:00 Mississippi's Pesticide Residue Program - **Reba L. Ingram**

6. 11:00 - 11:15 Synopsis of Groundwater and Fresh Commodity Residue Analysis/North Carolina - **Floyd Quick**

7. 11:15 - 11:30 FDA Highlights of the Atlanta Regional Laboratory - **John R. Pardue**

8. 11:30 - 11:45 Updates on Benzylation of Phenols and Analysis of Triazines in Soil - **Alan P. Thio**

9. 11:45 - 12:05 Predicting Environmental Distribution of Unknown Compounds from Known Pesticide Properties - **Dr. Surya Prasad**

DOOR PRIZES WILL BE DRAWN

LUNCH (on your own)

Monday / July 15, 1991 / Afternoon

10. 1:30 - 1:40 SE-USA AOAC Report - **James G. Hess**

11. 1:40 - 1:55 EBDC Residue Analysis Results of Key Vegetables Crops in Florida - **Charles H. Matthews, Jr.**

12. 1:55 - 2:15 Improving Splitless Injection Using Electronic Pressure Programing - **Philip L. Wylie**

13. 2:15 - 2:35 Discoveries While Converting From Packed to Megabore Columns - **Pat Beckett**

14. 2:35 - 2:55 Floridone Analysis and the Results of an Aquatic Plant Management Treatment - **Lawrence H Lagman**

2:55 - 3:30 **BREAK - VISIT EXHIBITS**
Refreshments Courtesy of NOR-AM Chemical Company

15. 3:30 - 3:45 Indiana State Report: ASTM Committee F-23 on Protective Clothing International Symposium Update - **Wayne M. Pask**

16. 3:45 - 4:00 Maryland State Report - **Kenneth M. Manus**

17. 4:00 - 4:15 Texas Pesticide Residue Program - **W. E. "Sonny" McCasland**

DOOR PRIZES WILL BE DRAWN

Tuesday / July 16, 1990 / Morning

7:00 - 8:00 CHECK SAMPLE COMMITTEE MEETING **(Committee Members Only)**
7:30 - 8:00 **REGISTRATION**

18. 8:00 - 8:20 Determination of N-Methylcarbamates in Crops, Feeds, and Fruits: Expanding the Luke Multiresidue Screen - **Michael J. Page**, and Mark French

19. 8:20 - 8:40 Single Post Column Reaction Method for Carbamate Analysis - **Dr. Verne A. Simon** and Anne Taylor

20. 8:40 - 8:55 A New Short Simple Assay Method for the Determination of Residues of Carbofuran and its Carbamate Metabolites - **Anthony Barros**, John R. Arabinick, George M. Singer and R. F. Cook

21. 8:55 - 9:15 Analysis of Glyphosate with HPLC and Pre-and Postcolumn Derivatization - **Michael B. Thomas**

22. 9:15 - 9:35 Implementation of Improved HPLC/Post-Column Techniques for Rugged Glyphosate Analysis - **Dr. Michael Pickering**

23. 9:35 - 9:50 Pesticide Residue Survey of Produce from 1989 to 1991 - **Herbert J. Schattenberg III**

9:50 - 10:30 **BREAK - VISIT EXHIBITS**
Refreshments courtesy of Hewlett Packard

24. 10:30 - 10:45 Automation of a Multi-Residue Pesticide Method Using Robotics - **Humberto G. Guerrero**

25. 10:45 - 11:05 Automated Determination of Methyl Bromide Residues in a Variety of Commodities - **Joseph H. Ford**

26. 11:05 - 11:25 Use of surrogate Standards to Monitor Method Performance - **Margaret P. Korver**, Virlyn W. Burse and Larry L. Needham

27. 11:25 - 11:45 Intralaboratory Quality Control Approach to Achieving Pre-Specified Data Quality Criteria - **Dr. Fred Haeberer**

28. 11:45 - 12:05 Quality Assurance - Technical Services Division - **Joe H. Majors, Jr.**

DOOR PRIZES WILL BE DRAWN

LUNCH (on your own)

Tuesday / July 16, 1991 / Afternoon

29. 1:30 - 1:50 Residue Analyses of Insect Pheromones on Fruit - **Dr. Terry D. Spittler**

30. 1:50 - 2:10 Enzyme Immunoassay Microtiter Plate soil Atrazine Analysis - **G. Kim Stearman**

31. 2:10 - 2:25 Immunoassays for Pesticide Analysis - **B. Stephen Clegg**

32. 2:25 - 2:40 Multiresidue Analysis in a Unique Immunoassay Format - **J. X. Dautlick** and **F. M. Rubio**

33. 2:40 - 2:55 Development and Application of "Dry Chemistry" Cholinesterase Test Kits for Detecting Organophosphate, Carbamate, and Thiophosphate Pesticides - **Kathleen Howe**

2:55 - 3:25 **BREAK - VISIT EXHIBITS**
Refreshments courtesy of Hitachi Instrument, Inc. and Shimadzu Scientific Instruments

34. 3:25 - 3:45 A Remote Water Sampler for Pesticides Using Extraction Disks - **Dr. H. A. Moye**

35. 3:45 - 4:00 Organic Mercury and Total Mercury in Fish Using Capillary GC-ECD - **Allan Mitch**

36. 4:00 - 4:20 Methyl Mercury Analysis in Fish Tissues - **Tammie Stouter**

37. 4:20 - 4:35 Mercury Analysis: A Comparison of Methods Both Old and New - **Mark French**

DOOR PRIZES WILL BE DRAWN

4:50 - 5:30 ANNUAL CHECK SAMPLE REPORT. OPEN TO ALL SSCS PARTICIPANTS.

EVENING

Developing a Chemical Hygiene Program for the Laboratory Safety Standards, 29 CFR 1910.1450 - Lawrence H. Lagman.

This session will take place only if enough people had signed up by Monday, June 15, 1991.

Wednesday / July 17, 1991 / Morning

38.	8:00 - 8:20	Pesticide Data Program - **Dr. Robert Epstein**
39.	8:20 - 8:40	Determination of Formetamate Residues in Fruits and Citrus by Coupled Column Cation Exchange Liquid Chromatography - **Dr. Richard A. Niemann**
40.	8:40 - 8:55	Capillary Zone Electrophoresis - The Separation Technique of the 90's - **Miss Donna Hollingshead and** Jim Westmoreland
41.	8:55 - 9:15	Vapor Extraction System Emissions Monitoring By GC/MS - **Charles J. Schmidt**
42.	9:15 - 9:30	Tyre King Fire (Hagersville, Ontario, Canada) An Analytical Perspective - **B. Stephen Clegg** and B. D. Ripley
	9:30 - 10:00	**BREAK - VISIT EXHIBITS** **Refreshments courtesy of Varian Instrument Group and Whatman, Inc.**
43.	10:00 - 10:30	GC - AED: A Versatile System for Pesticide Analysis - **Phillip L. Wylie**
44.	10:30 - 10:50	The Evaluation of GC-MIP-AED for Pesticide Residue Determination in Fruits and Vegetables - **Dr. K. C. Ting** and Ping Kho
45.	10:50 - 11:10	The Effect of LOD on Exposure Assessment - **L. M. Barraj**, M. L. Loftus and J. R. Tomerlin
46.	11:10 - 11:30	Pesticide Residue Methodology - Future Directions - **W. George Fong**

AFTERNOON

1:00 - 4:30	LC/MS WORKSHOP - **ATTENDANCE BY PRE-REGISTRATION ONLY**
Sponsored By:	Agricultural Products Department, E.I. DuPont DeNemours and Co., Inc.
Instructor:	Dr. Lamaat M. Shalaby

Thursday / July 18, 1991

8:00 - 4:00	USDA Pesticide Data Program Meeting - **Participating State Laboratory and USDA Personnel Only**

Program Speakers

Barraj, L. M.; Technical Assessment Systems, Inc.; 1000 Potomac Street, NW, First Floor; Washington, DC 20007-3501; **45**

Barros, Anthony; FMC Corporation; P.O. Box 8, Princeton, NJ; 08543; **20**

Beckett, Pat; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; **13**

Clegg, B. Stephen; Agricultural & Food Laboratory Service Branch; Pesticide Residue Testing Laboratory, Ontario Ministry of Agriculture and Food; Bldg. 43; **c/o** University of Guelph; Guelph, Ontario, Canada N1G2W1; **31, 42**

Cooper, Betsy A.; S.C. Department of Agriculture; P.O. Box 11280; Columbia, S.C. 29201; **1**

Dautlick, J. X.; Ohmicron; 375 Pheasant Run; Newton, PA 18940; **32**

Epstein, Dr. Robert; USDA Agricultural Marketing Service; P. O. Box 96456; Washington, DC 20090; **38**

Farrow, J. Michael (Mike); GA Department of Agriculture; P.O. Box 1507; US **41** South; Tifton, GA 31794; **4**

Fong, W. George; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; **46**

Ford, Joseph H.; USDA, APHIS, S&T, NMRAL; P.O. Box 3209; 3505 25th Avenue; Gulfport, MS 39505-3209; **25**

French, Mark; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; **37**

Guerrero, Humberto G.; FDA/Lab Branch; 4298 Elysian Fields Avenue; New Orleans, LA 70122; **24**

Haeberer, Dr. Fred; US-EPA; 401 "M" Street, SW; Washington, DC 20460; **27**

Hess, James G.; USDA, AMS, CSSD Eastern Laboratory; 645 Cox Road; Gastonia, NC 25054; **10**

Hollingshead, Miss. Donna; Spectra-Physics/Sci-Con; 631 Executive Drive; Winter Park, FL 32789; **40**

Howe, Kathleen; EnzyTec, Inc.; 415 E. 63rd Street; Suite 104; Kansas City, MO 64110-3361; **33**

Ingram, Reba L.; Mississippi State Chemical Laboratory; P.O. Drawer CR; Mississippi State, MS 39762; 5

Korver, Margaret P.; Centers for Disease Control; Center for Environ. Hlth. & Injury Control; 1600 Clifton Road; Mailstop F17; Atlanta, GA 30333; 26

Lagman, Lawrence H.; S.C. Water Resources Commission; 1201 Main Street, Suite 1100; Columbia, SC 29201; 14

LeCompte, Danny; Alabama Department of Agriculture & Industries; Pesticide Residue Laboratory; P. O. Box 370; Auburn, AL 36830; 3

Majors, Jr., Joe H.; Tennessee Department of Agriculture; Technical Services Division; Ellington Agriculture Center; Hogan Road; Box 40627; Melrose Station; Bruer Bldg.; Nashville, Tenn. 37204; 28

Matthews, Jr., Charles H.; Florida Fruit and Vegetable Association; P.O. Box 140155; Orlando, FL 32814-0155; 11

McCasland, W.E. "Sonny"; Texas Department of Agriculture; P.O. Box 1119; Brenham, TX 77833; 17

McManus, Kenneth; Maryland Department of Agriculture; 50 Harry S. Truman Pkwy; Annapolis, MD 21228; 16

Mitch, Allan; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard, Tallahassee, FL 32399-1650; 35

Moye, Dr. Anson; Institute of Food and Agricultural Sciences; Pesticide Research Laboratory; University of Florida; Gainesville, FL 32611; 34

Niemann, Richard; US Food and Drug Administration; 200 C Street, SW; Washington, DC 20204; 39

Page, Michael J.; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard,; Tallahassee, FL 32399-1650; 18

Pardue, John R.; Food & Drug Administration; 60 8th Street, NE; Atlanta, GA 30309; 7

Parker, Gail A.; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 2

Pask, Wayne M.; Indiana State Chemists Office; Purdue University; 1154 Biochemistry Building; West Lafayette, IN 47907-1154; **15**

Pickering, Dr. Michael; Pickering Laboratories Inc.; 1951 Colony Street, Mountain View, CA 94043; **22**

Prasad, Dr. Surya; Argonne National Laboratory; 370 L'Enfant Promenadee, SW; Suite 702; Washington, DC 20024-2518; **9**

Quick, Floyd; North Carolina Department of Agriculture; 4000 Reedy Creek Road; Raleigh NC 27607; **6**

Schattenberg, III, Herbert J.; Southwest Research Institute; 6220 Culebra Road; San Antonio, TX 78228; **23**

Schmitt, Charles J.; University of Florida; Department of Environmental Engineering Science; 419 A.P. Black Hall; Gainesville, FL 32611; **41**

Simon, Dr. Verne A.; Florida Department of Health & Rehabilitative Services; 1217 Pearl Street; Jacksonville, FL 32202; **19**

Spittler, Dr. Terry D.; Cornell Analytical Labs; Cornell University; Geneva, NY 14456; **29**

Stearman, Kim G.; Center for the Management, Utilization and Protection of Water Resources; Tennessee Technological University; Box 5033; Cookeville, TN 38505; **30**

Stouter, Tammie; Florida Department of Health and Rehabilitative Services; 1217 Pearl Street; Jacksonville, FL 32202; **36**

Thio, Alan P.; University of Kentucky; Division of Regulatory Services; Regulatory Services Building; Lexington, KY 40546-0275; **8**

Thomas, Michael B.; Hewlett-Packard; Route 41 and Starr Route; Avaondale, PA 19311-0900; **21**

Ting, Dr. K.C.; California Department of Food and Agriculture; 169 East Liberty Avenue; Anaheim, CA 92801; **44**

Wylie, Philip L.; Hewlett-Packard; P.O. Box 900; Avondale, PA 19311; **12, 43**