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### Conference News; Recent Advances in the Analytical Chemistry of Pollutants

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## Conference News

### Recent Advances in the Analytical Chemistry of Pollutants

an International Symposium  
Dalhousie University  
Halifax, N.S., August 23 - August 25, 1972

*Sponsored by the Trace Analysis Research Centre at Dalhousie University, and the Analytical Division of the Chemical Institute of Canada.*

#### **Coordinators:**

R. W. Frei, Department of Chemistry, Dalhousie University, Halifax, N.S.  
L. Ramaley, Department of Chemistry, Dalhousie University, Halifax, N.S.  
O. Hutzinger, Atlantic Regional Laboratories, National Research Council of Canada, Halifax, N.S.

For further information contact one of the above addresses.

Further points of interest:

A ladies' programme will be arranged if sufficient interest is shown.

The national meeting of the American Chemical Society in New York will take place the following week (August 27-September 1).

The regional meeting of the Chemical Institute of Canada will be held in Halifax on August 22. An afternoon symposium will be held on this day with the title: "Environmental Chemistry, the Canadian Context". Topics of lectures include: specialized information retrieval systems in the field of pollution; environmental quality criteria; legislation trends; CIC participation. For further information please check the preregistration form.

#### **Registration Fees:**

Regular           \$28  
Preregistrants \$20 (deadline July 31)  
Students         \$ 5  
No registration fee for accompanying ladies.

#### **Accommodation:**

Comfortable residence facilities will be available at Dalhousie University (site of all events) and are highly recommended. Families can be accommodated and an extension of your stay over the weekend (August 25-28) is possible.

**Cost:**

\$10.50 per person per day, including all meals.

\$7 without meals

Hotel or motel accommodation is very hard to obtain during the summer months. It is recommended that private arrangements are made as soon as possible.

**SCIENTIFIC PROGRAMME**

*All sessions in Sir James Dunn Science Building*

August 23—Wednesday morning—Room 117

**8:50 Welcome**

**Chairman:** H. Enos, Environmental Protection Agency, Perrine, Fla.

9:00 **Plenary Lecture:** R. C. Blinn, American Cyanamid Co., Princeton, N.J.  
*Metabolism and the Pesticide Residue Analyst.*

10:00 *Palladium complexes of organophosphorus insecticides: infrared spectra and some new analytical applications.*

T. B. Bidleman\* and R. W. Frei, Dalhousie University, Halifax, N.S.

10:20 *A colorimetric method for carbamate pesticides in water using copper (II) complexes.*

Renato Dell'aqua and B. Bush\*, State of New York Department of Health, Albany, N.Y.

**10:40 Intermission**

11:00 *Determination of phthalates in biological samples.*

V. Zitko, Environment Canada, Fisheries, St. Andrews, N.B.

11:20 *Estimation of isopropylethylthionocarbamate (Dow: Z-200) in mine wastes.*

R. F. Addison, Fisheries Research Board of Canada, Bedford Institute, Dartmouth, N.S.

11:40 *A new analytical approach to the study of hydrolysis of carbamates.*

J. D. MacNeil\*, R. W. Frei, Dalhousie University, Halifax, N.S., and O. Hutzinger, ARL, National Research Council of Canada, Halifax, N.S.

12:00 *Enzyme inhibition and chromatographic techniques: comparative studies and application to pesticide residue analysis.*

C. E. Mendoza, Department of National Health and Welfare, Ottawa, Ont.

AUGUST 23—Wednesday afternoon—Room 117

**Chairman:** R. W. Frei, Dalhousie University, Halifax, N.S.

14:00 **Plenary Lecture:** W. A. Aue, University of Missouri, Columbia. *Choice of Detectors and Columns for the Analysis of Pesticides by GLC.*

15:00 *Determination of sulphur-containing pesticides by electrolytic conductivity detection.*

W. P. Cochrane\*, B. P. Wilson and R. Greenhalgh, Canada Department of Agriculture, Ottawa, Ont.

- 15:20 *Determination of pesticides containing sulfur and phosphorus by the Bendix flame photometric detector.*  
R. Greenhalgh\* and W. P. Cochrane, Canada Department of Agriculture, Ottawa, Ont.
- 15:40 **Intermission**
- 16:00 *Analysis of pesticide residues by high-speed liquid chromatography.*  
D. F. Horgan, Jr., Waters Associates Inc., Framingham, Mass.
- 16:20 *Fluorescence detection of pollutants in high-speed liquid chromatography.*  
R. M. Cassidy and R. W. Frei, Dalhousie University, Halifax, N.S.
- 16:40 *Fluorogenic labelling of pesticides in high-speed liquid chromatography.*  
J. F. Lawrence and R. W. Frei, Dalhousie University, Halifax, N.S.

**AUGUST 24—Thursday morning—Two Parallel Sessions**

**Session I—Room 117**

**Chairman:** L. Ramaley, Dalhousie University, Halifax, N.S.

- 9:00 **Plenary Lecture:** M. S. Frant, Orion Research Inc., Cambridge, Mass. *Use of Ion Specific Electrodes in Trace Ion Analysis.*
- 10:00 *The Orion water hardness electrode: an unexpected response to magnesium ion.*  
M. E. Thompson, Canada Centre for Inland Waters, Burlington, Ont.  
(Presentation by Y. Y. Chau.)
- 10:20 *Preparation and evaluation of selective ion electrodes using acrylic membranes containing ion active materials.*  
J. C. Van Loon, University of Toronto, Toronto, Ont.
- 10:40 **Intermission**
- 11:00 *Automation of direct potentiometry.*  
I. Sekerka\* and J. Lechner, Department of the Environment, Ottawa, Ont.
- 11:20 *Preparation of new polyethers of potential value to chemical analysis.*  
J. M. Fresco\*, J. T. Edward and A. Myint, McGill University, Montreal, P.Q.
- 11:40 *Some problems in inorganic trace-element analysis of pollutants.*  
A. O. Gübeli, Laval University, Quebec, P.Q.
- 12:00 *Trace analysis in industrial research.*  
J. B. Gallivan, American Cyanamid Company, Stamford, Conn.

**Session II—Room 101**

**Chairman:** V. Zitko, Environment Canada, St. Andrews, N.B.

- 10:00 *A research program for identifying and measuring water pollutants.*  
W. T. Donaldson, Environmental Protection Agency, Athens, Georgia.
- 10:20 *A gas chromatographic method for the determination of S-propyl N, N-dialkyl-dithiocarbamates in industrial waste water.*  
F. I. Onuska, Uniroyal Research Laboratories, Guelph, Ont.

**10:40 Intermission**

**11:00** *The determination of trace metals in water using X-ray fluorescence spectrometry.*

H. Watanabe, S. Berman\* and D. S. Russell, National Research Council of Canada, Ottawa, Ont.

**11:20** *Identification of the source of oil spills.*

E. M. Levy, Bedford Institute, Dartmouth, N.S.

**11:40** *Identification and quantification of petroleum products in potable waters.*

Renato Dell'aqua and B. Bush\*, State of New York Department of Health, Albany, N.Y.

**12:00** *The gas chromatographic determination of lignin in seawater and marine sediments.*

R. Pocklington, Bedford Institute, Dartmouth, N.S.

**AUGUST 24—Thursday afternoon—Room 117**

**Chairman:** W. D. Jamieson, National Research Council of Canada, Halifax, N.S.

**14:00 Plenary Lecture:** J. Damico, Food and Drug Administration, Washington, D.C. *Mass Spectrometry.*

**15:00** *The use of ion kinetic energy spectroscopy for the identification of isomeric organochlorine pesticides and pollutants.*

S. Safe\*, W. D. Jamieson, O. Hutzinger, National Research Council of Canada, Halifax, N.S., and M. Cook, St. Francis Xavier University, Antigonish, N.S.

**15:20** *The application of gas chromatography—mass spectrometer-computer combination to the analysis of airborne pollutants.*

R. C. Lao\*, H. Oja, R. S. Thomas and J. L. Monkman, Department of the Environment, Ottawa, Ont.

**15:40 Intermission**

**16:00** *Applications of mass spectral matching in pollutant analysis.*

J. M. McGuire, M. H. Carter and A. L. Alford, Environmental Protection Agency, Athens, Georgia.

**16:20** *Mass spectral identification of organic pollutants in the Lower Mississippi River.*

W. D. Reynolds, Environmental Protection Agency, Baton Rouge, La.

**16:40** *Electron capture behavior of halogenated benzenes by plasma chromatography.*

F. W. Karasek\* and O. S. Tatone, University of Waterloo, Waterloo, Ont.

**AUGUST 25—Friday morning—Room 117**

**Chairman:** O. Hutzinger, National Research Council of Canada, Halifax, N.S.

**9:00 Plenary Lecture:** M. Zander, Rütgerswerke, Castrop Rauxel und Technische Universität Clausthal, Germany. *Phosphorimetry, Basic Principles and Application to Aromatic Compounds.*

- 10:00 *A new method for the visualization of organophosphorus pesticides by in situ fluorometry on thin-layer chromatograms.*  
G. Brun and V. Mallet, University of Moncton, Moncton, N.B.
- 10:20 *Chemiluminescence analysis for trace metals in the environment.*  
W. R. Seitz, Environmental Protection Agency, Athens, Georgia, and D. M. Hercules, University of Georgia, Athens, Georgia.
- 10:40 **Intermission**
- 11:00 *Atomic spectroscopy in oxygen shielded flames.*  
R. Stephens, Dalhousie University, Halifax, N.S.
- 11:20 *Atom reservoir atomic absorption. Application to marine environmental samples.*  
D. A. Segar, University of Miami, Miami, Florida.
- 11:40 *The determination of metallic elements in wastes and waters with the Graphite Furnace.*  
W. MacLean, H. L. Kahn and J. D. Kerber, The Perkin-Elmer Corporation, Norwalk, Conn.
- 12:00 *Determination of 26 trace elements in human lung tissue by neutron activation analysis.*  
R. H. Filby\*, A. I. Davis and E. Richter, Washington State University, Pullman, Wash.

**AUGUST 25—Friday afternoon—Room 117**

**Chairman:** S. Safe, National Research Council of Canada, Halifax, N.S.

- 14:00 **Plenary Lecture:** E. Sawicki, Environmental Protection Agency, Research Triangle Park, N.C. *Analysis of Air Pollutants.*
- 15:00 *Development and application of a method for determining pesticides in air.*  
H. F. Enos\* and Ann R. Yobs, Environmental Protection Agency, Perrine, Fla.
- 15:20 **Intermission**
- 15:40 *The accurate measurement of cadmium in airborne particulates.*  
A. Zdrojewski, N. Quickert, L. Dubois and J. L. Monkman, Environment Canada, Ottawa, Ont.
- 16:00 *The particle size distribution of trace elements in urban air.*  
G. Colovos, G. S. Wilson\* and J. L. Moyers, University of Arizona, Tucson.
- 16:20 *Collection of atmospheric sulfur dioxide and hydrogen sulfide on impregnated fiberglass filter membrane and selective colorimetric measurement.*  
A. Chamberland, Institut de recherche de l'Hydro-Quebec, Varennes, P.Q.