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Publisher *Taylor & Francis*

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Journal of Liquid Chromatography & Related Technologies

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713597273>

the Frederick Conference on Capillary Electrophoresis October 15-16, 1990

To cite this Article (1991) 'the Frederick Conference on Capillary Electrophoresis October 15-16, 1990', *Journal of Liquid Chromatography & Related Technologies*, 14: 5, 1033 – 1036

To link to this Article: DOI: 10.1080/01483919108049303

URL: <http://dx.doi.org/10.1080/01483919108049303>

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MEETING REPORT

THE FREDERICK CONFERENCE ON CAPILLARY ELECTROPHORESIS

October 15-16, 1990

This first conference on Capillary Electrophoresis was held by Program Resources, Inc./DynCorp at the National Cancer Institute-Frederick Cancer Research and Development Center, in Frederick, Maryland. The two day conference, which attracted about 150 participants, over 30 posters and presentations and a one day short course on CE, was by all accounts a success. The presentations dealt with different aspects of CE and MECC. After welcoming remarks by Dr. Raymond V. Gilden, Director, PRI/DynCorp, NCI-FCRDC, and opening remarks by Dr. Haleem J. Issaq, Conference Chairman, the conference started. The first talk dealt with:

The Effect of Applied Voltage, Buffer Type and Concentration on Resolution in CZE

by Dr. Haleem Issaq, Chemical Synthesis and Analysis Laboratory, PRI

followed by the following three talks:

Benefits of Automating HPCE Methods Optimization, Sampling, and Post Run Data Analysis

by Dr. Gregory M. McLaughlin, Beckman Instruments, Incorporated

New Possibilities in Detection for Chromatography and Electrophoresis

by Dr. Edward S. Yeung, Department of Chemistry, Iowa State
University

Detection and Retention Manipulation in Capillary Electrokinetic Separations via the On-Column Formation of Fluorescent Adducts

by Dr. Michael J. Sepaniak, Department of Chemistry, University of Tennessee

Professor Barry Karger opened the afternoon session with a general talk about high performance capillary electrophoresis pointing out the advantages of CE, its application in the separation of biomolecules and future trends and advances. Four more lectures followed:

Separation and Identification of the Organic Constituents Present in Gunshot and Explosive Residues by Micellar Electrokinetic Capillary Electrophoresis (MECE)

by Dr. David M. Northrop, NIST

A Comparison of MECC and HPLC for the Separation of Selected Compounds in Foods

by Dr. W. Jeffrey Hurst, Hershey Foods Corporation Technical Center

Installing Preconcentrators in Fused Silica CZE Columns

by Dr. Arthur Hoyt, Jr., University of Central Arkansas

Capillary Isoelectric Focusing of a Monoclonal Antibody to Mucin-Secreting Adenocarcinoma

by Dr. Cathy R. Silverman, Cytogen Corporation

The first day ended with a welcoming reception where the attendees enjoyed a drink, hors d'oeuvres and an exhibit of the latest CE equipment. This also gave the attendees and speakers an opportunity to exchange ideas and discuss specific problems. The second day was also divided into morning and afternoon sessions. A sample of the presentations is given below:

Capillary Electrophoresis-Atmospheric Pressure Ionization Mass Spectrometry for the Determination of Peptides and Small Drug Molecules

by Dr. Jack Henion, Drug Testing and Toxicology, Cornell University

Amperometric Detection in Capillary Electrophoresis with Narrow-Bore Capillaries

by Andrew G. Ewing, Department of Chemistry, Pennsylvania State University

Separation of Urinary Constituents by Capillary Electrophoresis and Further Characterization of Collected Analytes by Mass Spectrometry

by Dr. Norberto A. Guzman, Princeton Biochemicals, Incorporated

Application of Capillary Electrophoresis to Some Common Problems in Peptide and Protein Biochemistry

by Dr. Thomas E. Wheat, Waters, Division of Millipore

afternoon sessions:

Open Tubular CZE of Protein Tryptic Digest

by Dr. Scott Weinberger, Spectra-Physics, Linear Instrument Corporation

Applications of Capillary Electrophoresis in the Pharmaceutical Industry

by Dr. Steven D. Fazio, Sandoz Research Institute

Analysis of Palytoxin by High Performance Liquid Chromatography and High Performance Capillary Electrophoresis

by Dr. Kay A. Mereish, U.S. Army Medical Research Institute of Infectious Diseases

**Methods Development and Selectivity Control for Small Molecule
Pharmaceutical Separations by Capillary Electrophoresis**

by Dr. Michael Swartz, Waters, Division of Millipore

**Capillary Electrophoresis: Separation of Amino Acids, Peptides, and
Proteins**

by Dr. Joseph Algaier, Isco, Incorporated

Biological Perspective in Capillary Electrophoresis

by Dr. Steven Sissk, Applied Biosystems, Incorporated

After a brief break, general discussion took place. Before adjournment, the Scientific Committee (Drs. Henion, Yeung, Ewing, Hartwick, Martire, Sepaniak, Guzman, Issaq and Janini) on the request of the attendees agreed to hold the conference again. The second Conference will be held at the same location on October 15-16, 1991 preceded on October 14, 1991 by a short course on capillary electrophoresis to be taught by Drs. Hartwick, Issaq and guests from industry.

The Committee gratefully acknowledges the moral and material support and sponsorship of the following companies, without whom this Conference would not have been possible:

Applied Biosystems, Incorporated, Beckman, Instruments, Incorporated,
BioRad, Incorporated, Dionex, Hewlett Packard, Isco, Incorporated,
Marcel Dekker, Incorporated, Potomac Photonics, Incorporated, Spectra-
Physics, Waters, Division of Millipore