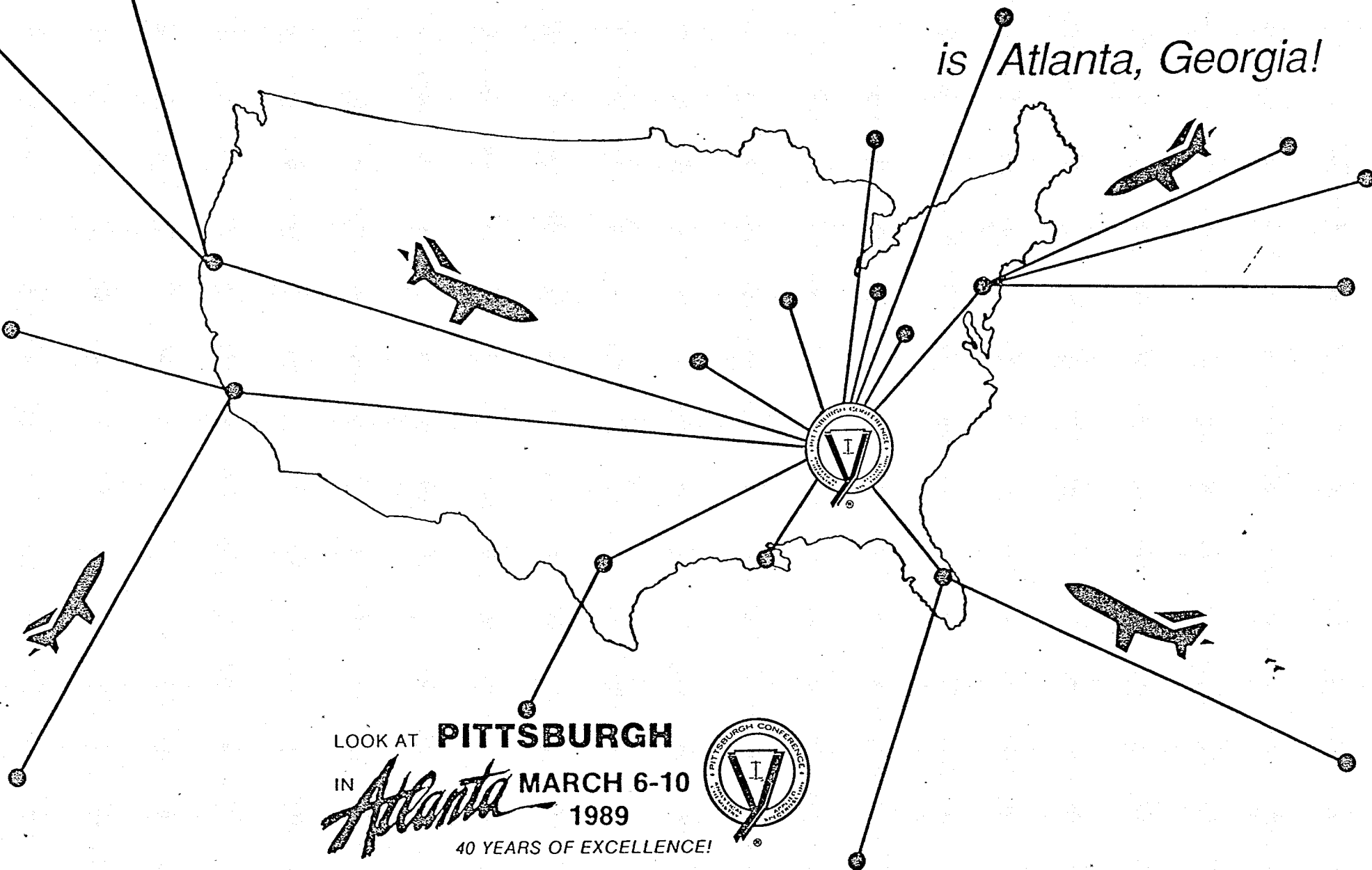


The next scheduled stop for the

PITTSBURGH CONFERENCE

is Atlanta, Georgia!



LOOK AT **PITTSBURGH**

IN *Atlanta* **MARCH 6-10**
1989

40 YEARS OF EXCELLENCE!

THE PITTSBURGH CONFERENCE & EXPOSITION



- (1394) Capital Equipment Acquisition for the Laboratory: Budgeting and Justification—J.H. GOLDEN, Lab. Management Systems, Inc.
 (1395) Molecular Modeling and the Analytical Lab Manager—B.R. Olygen Corporation

POSIUM

Water Analysis - arranged by S.L. Shockey, Consultant

Afternoon, Room 364
 Shockey, Presiding
 Introductory Remarks—S.L. SHOCKEY

- (1396) In-Situ Spectroscopy Using Optical Fibers: An Overview—J. Western Research Institute
 (1397) Soil Gas Analysis for Delineation of Groundwater Contaminants—B. KERFOOT, Lockheed Engineering & Sci. Co.
 (1398) Experiences with Evaluation of Pesticide Enzyme Assay Kits—LINER, United States Geological Survey
 RECESS
 (1399) Statistical Analysis of Groundwater Data for RCRA Compliance—ITSTONE, John Mathes and Associates, Inc.
 (1400) EPA Method Development for Analysis of Organics in water—B. LESNIK, U.S. Environmental Prot. Agency

Analysis of Carbohydrates, Amino Acids, and Peptides by HPLC and CZE

Afternoon, Rooms 365/366
 Astiani, Presiding
 Rice High School

- (1401) High Sensitivity Liquid Chromatographic Determination of Carbohydrates—S.R. CARTER, Dionex Corporation
 (1402) A High Performance Liquid Chromatographic Phase for Carbohydrate Analyses—D.P. LEE, Hamilton Company
 (1403) Analysis of Carbohydrates by Liquid Chromatography with Electrochemical Detection—M.E. SWARTZ, Waters Chrom. Div. Millipore Corp., Bedford, MA
 (1404) Comparison of HPLC Electrochemical Detection Techniques for the Determination of Carbohydrates, Amines, and Sulfur Containing Compounds—R.D. ROCKLIN, Dionex Corporation, W. Edwards
 (1405) High-Sensitivity Fluorescence Detection of Amino Acids Separated by Capillary LC and Capillary Zone Electrophoresis—S.C. BEAL, University of Y.Z. Hsieh, J. Liu, M. Novotny
 RECESS
 (1406) Analysis of NDA-Labeled Amino Acids by Open Tubular Liquid Chromatography with Electrochemical Detection—M.D. OATES, University of North Carolina, Chapel Hill, J.W. Jorgenson
 (1407) A Convenient, Precise Method for Low Level Peptide or Protein Analysis and Amino Acid Analysis—J.W. MAYHEW, Beckman Instruments, Inc., Terry, J.S. Hobbs
 (1408) Fast Peptide Mapping by Reversed-Phase Liquid Chromatography—P.A. PERRONE, The Perkin-Elmer Corporation, M.W. Dong, F.L. Vandemark
 (1409) Novel Techniques for the Analysis of Peptides Using LC with Tandem Mass Spectrometry—S.A. COHEN, Waters Chrom. Div. Millipore Corp., Milford, MA
 (1410) Determination of Benzylpenicillin in Pharmaceutical Preparations by Capillary Zone Electrophoresis—A.M. HOYT, The University of Tennessee, M.J. Sepaniak

Atomic Absorption—Applications and Analysis

Afternoon, Rooms 264/265
 Arkhoff, Presiding
 Laboratories

- (1411) Mercury Analysis at PPT Levels—R. COMEAU, Questron Corporation, P.B. Stockwell
 (1412) Binding and Removal of Chromium Ions in Solution by an Adsorbent—J. SNEDDON, University of Lowell, C. Pappas
 (1413) The Effect of Changing Program Requirements on a Government Environmental Trace Metals Laboratory—K.W. KUBIK, USEPA, J. Birri, L. D. Lillian

- (1414) Development and Application of an Extractive Alkali Monitor and Its Sampling Systems for Process Stream Analysis—J.K. WACHTER, U.S. Department of Energy (METC), R.G. Logan, R.L. Pineault

- (1415) Speciation of Urinary Arsenic into Occupational and Dietary Components: Methodology Adapted to Zeeman Flame AAS Application—S. DOMVILLE, Environmental Services, L. Desjarlais

3:10 RECESS

- 3:25 (1416) Theoretical Computation and Application of Atomic Absorption Coefficient—R.N. ZHOU, Hunan Inst. Analysis & Testing, G. Li, G.C. Rao

- 3:45 (1417) Extractive Atomic Absorption Determination of Lead in Alloys—V.M. SHINDE, The Institute of Science, B. Raman

- 4:05 (1418) Preconcentration of Lead from Aqueous Solutions by Algae with Analysis by Atomic Absorption Spectrometry—C. MAHAN, University of Texas at Austin, V. Majidi, J.A. Holcombe

- 4:25 (1419) Study Interferences in the Determination of Calcium with Simplex—R.N. ZHOU, Hunan Inst. Analysis & Testing, G.C. Rao, J.K. Cao

- 4:45 (1420) Flow Injection Donnan Dialysis - Atomic Spectrometry: Optimization and Applications—L. ALLEN, Southern Illinois University, J.A. Koropchak

Capillary Zone Electrophoresis II

Thursday Afternoon, Room 367
 D.J. Rose, Presiding
 Hewlett-Packard Labs

- 1:30 (1421) Application of Capillary Zone Electrophoresis in Biological Analysis—J. PANG, Dionex Corporation, M. Love, T. Tullisen, J.P. Rouland

- 1:50 (1422) Micro-Scale Peptide Mapping by Capillary Zone Electrophoresis and Microcolumn Liquid Chromatography—K.A. COBB, Indiana University, J. Liu, M. Novotny

- 2:10 (1423) Determination of Drugs of Abuse by High Performance Capillary Electrophoresis with UV Detection—L. HERNANDEZ, Princeton University, B.G. Hoebel, N.A. Guzman

- 2:30 (1424) Manipulation of EEO in Capillary Zone Electrophoresis—A. WAINWRIGHT, Dionex Corporation, J. Pang, J. Thayer, B. Edwards, E. Johnson

- 2:50 (1425) Capillary Zone Electrophoresis in Pharmaceuticals Analysis—S.D. FAZIO, Sandoz Research Institute, R.V. Vivilecchia, J.V. Sheridan, L.F. LeSueur, S.A. Tomellini

3:10 RECESS

- 3:25 (1426) Electrophoretic Mobility of Peptides in Free-Solution Capillary Electrophoresis—P.D. GROSSMAN, Applied Biosystems, Inc., J.C. Colburn, S.E. Moring, H.H. Lauer

- 3:45 (1427) Analysis of Proteins and Peptides by Free-Solution Capillary Zone Electrophoresis (CZE)—J.C. COLBURN, Applied Biosystems, Inc., P.D. Grossman, S.E. Moring, H.H. Lauer

- 4:10 (1428) Separation of Isotopically Substituted Compounds by Micellar Electrokinetic Capillary Chromatography—M.M. BUSHEY, University of North Carolina, Chapel Hill, J.W. Jorgenson

- 4:25 (1429) The Separation of Plant Proteins by Capillary Zone Electrophoresis—R. BLAIN, American Cyanamid, R.A. Hartwick

- 4:45 (1430) Surface Modification in Capillary Zone Electrophoresis for the Control of Solute Adsorption and Electroosmotic Flow—R.A. HARTWICK, Rutgers University, P.B. Champlin

Characterization of Superconducting Materials and Other Solids

Thursday Afternoon, Room 263
 D. Chung, Presiding
 SUNY-Buffalo

- 1:30 (1431) Monochannel Versus Multichannel Detection in the Acquisition of the Micro-Raman Spectra of Superconducting Materials—T.D. SCHROEDER, Shippensburg University of PA, E.S. Elz, S.F. Pereles

- 1:50 (1432) Investigation of Oxygen Vacancies in YBa₂Cu₃O_{7-x} Superconductors Using Redox Chemiluminescence Detection—R.E. SIEVERS, University of Colorado, B.N. Hansen, E.A. McNamara, B.M. Hybertson, S.A. Monzka, R.M. Barkley

- 2:10 (1433) Characterization of Superconductors by TGA and High Temperature DTA—S.R. SAUERBRUNN, Du Pont Instruments, P.S. Gill, C.L. Jaworski

- 2:30 (1434) The Analysis of Trace Elements in New Superconducting Materials—F. BULMAN, Baird Corporation, R.R. Comtois

- 2:50 (1435) Selection of Rare Earth Spectral Lines for the Determination of Rare Earth Elements by ICP-AES—I.B. BRENNER, Jobin Yvon (ISA), G. Vial, J. McCormack, P. Grosdailon

THURSDAY PM