

# PROCEEDINGS OF THE SOCIETY FOR ANALYTICAL CHEMISTRY: ANALYTICAL DIVISION, CHEMICAL SOCIETY

## Reports of Meetings

### JOINT MEETING

A JOINT Meeting of the SAC/AD (organised by the Chromatography and Electrophoresis Group) with the Chromatography Discussion Group was held at 10.30 a.m. on Wednesday, November 7th, 1973, at the Scientific Societies Lecture Theatre, 23 Savile Row, London, W.1. The subject of the meeting was "Gas Chromatography."

At the morning session the Chair was taken by Mr. C. E. Waterhouse, Vice-President of the SAC/AD, and the following papers were presented and discussed: "The Role of the Stationary Phase," by D. F. G. Pusey; "A Study of Antioxidant Behaviour by Gas Chromatography," by M. B. Evans. At the afternoon session the Chair was taken by Dr. G. A. P. Tuey, Chairman of the Chromatography Discussion Group, and the following papers were presented and discussed: "The Choice of the Stationary Phase for the Analysis of Basic Drugs," by A. C. Moffat, A. H. Stead and K. W. Smalldon; "Supercritical Fluid Chromatography," by T. Doran; "Applications of Gas Chromatography to the Analysis of Some Common Waxes and to Wax Mixtures," by C. A. Blau.

### CS AUTUMN MEETING

THE SAC/AD participated in the CS Autumn Meeting on Thursday, September 27th, 1973, at the University of East Anglia, Norwich. The Chair was taken by Mr. J. K. Foreman, Honorary Treasurer.

The subject of the Symposium was "Characterisation of Materials" and the following papers were presented and discussed: "Characterisation of Inorganic Materials," by I. R. Green; "Characterisation of Ceramic Materials," by P. T. A. Hodson; "The Characterisation of Recovered Hydrocarbons from Arson Debris," by R. Watt and D. Willson; "The Use of NMR in the Characterisation of Materials," by I. K. O'Neill; "The Electrophoretic Characterisation of Proteins in Foodstuffs," by I. M. Mackie; "The Characterisation of Proteins in Blood," by B. H. Parkin; "Characterisation of Fats," by C. J. Tryner.

### NORTH WEST REGION

A JOINT Meeting of the Region with the North Lancashire Section of the CS was held at 7.30 p.m. on Wednesday, October 24th, 1973, at the Harris College, Preston. The Chair was taken by the Chairman of the North West Region, Mr. A. C. Bushnell.

A lecture on "Recent Advances in Forensic Analysis" was given by F. L. Cann.

### NORTH WEST REGION, ATOMIC SPECTROSCOPY, AUTOMATIC METHODS, EDUCATION AND TRAINING, ELECTROANALYTICAL, MICROCHEMICAL METHODS AND RADIOCHEMICAL METHODS GROUPS

A JOINT Meeting of the above Region and Groups was held on Thursday and Friday, September 20th and 21st, 1973, at the University, Salford. The subject of the meeting was "Different Approaches to Trace Analysis."

The title of the first session was "Spectroscopic Techniques for Trace Analysis." The Chair was taken by the Vice-Chairman of the Atomic Spectroscopy Group, Dr. R. Smith, and the following papers were presented and discussed: "Spectroscopic Techniques: Principles, Scope and Limitations," by J. H. S. Green; "Analysis of Thin Films and Epitaxial Layers by Spark Source Mass Spectrometry," by J. B. Clegg and E. J. Millett; "X-ray Spectrometry in the Analysis of Light Matrices," by J. D. Wilson; "The Determination of Some Trace Elements in Silicate Rock by Flame Atomic Absorption Spectrophotometry," by J. Warren;

"Luminescence in Inorganic Analysis," by L. S. Bark; "Use of the Shpol'skii Effect for Analysis of Traces of Polynuclear Hydrocarbons," by C. G. de Lima and G. F. Kirkbright.

The title of the second session was "Radiochemical Techniques for Trace Analysis." The Chair was taken by the Chairman of the Radiochemical Methods Group, Mr. J. W. McMillan, and the following papers were presented and discussed: "The Use of Radiochemical Techniques," by H. J. M. Bowen; "The Determination of the Light Elements C, N, O and F, Using High Energy Gamma Photon Activation and Radiochemical Separation," by J. S. Hislop; "Autoradiography," by R. J. McCulloch.

The title of the third session was "Probe Techniques in Trace Analysis." The Chair was taken by the Vice-Chairman of the North West Region, Dr. L. S. Bark, and the following papers were presented and discussed: "The Use of Probe Techniques," by T. B. Pierce; "Secondary Ion Microanalysis," by D. M. Poole; "The Electron Probe Analyser," by F. T. Ewart.

The title of the fourth session was "Pre-concentration and Separation Techniques in Trace Analysis." The Chair was taken by the Vice-Chairman of the Education and Training Group, Dr. J. B. Headridge, and the following papers were presented and discussed: "The Use of Pre-concentration and Separation Techniques," by R. A. Chalmers; "The Adsorption of Methyl-substituted 8-Quinolinethiol Chelates," by G. C. Dickson; "The Use of Pulse Electrodeposition as a Concentration Technique for Atomic Absorption Spectroscopy," by K. W. Metcalf.

The title of the fifth session was "Catalytic and Kinetic Techniques in Trace Analysis." The Chair was taken by the Chairman of the Automatic Methods Group, Dr. J. M. Skinner, and the following papers were presented and discussed: "The Use of Catalytic and Kinetic Techniques," by J. M. Ottaway; "Automated Enzyme Analysis," by D. B. Roodyn; "Applications of Enzyme-catalysed Reactions in Trace Analysis," by A. Townshend.

The title of the sixth session was "Electroanalytical Techniques for Trace Analysis." The Chair was taken by the Chairman of the Electroanalytical Group, Dr. B. Fleet, and the following papers were presented and discussed: "A Comparative Evaluation of Polarographic Techniques for Trace Analysis," by R. D. Jee; "Electrochemical Detectors for High Pressure Liquid Chromatography," by C. J. Little and B. Fleet; "Developments in Stripping Voltammetry," by I. Fraser.

#### WESTERN REGION

A JOINT Meeting of the Region with the South East Wales Section of the CS and the UWIST Students Chemical Society was held at 5.30 p.m. on Thursday, October 11th, 1973, at the University of Wales Institute of Science and Technology, Cardiff. The Chair was taken by the Chairman of the Western Region, Dr. J. D. R. Thomas.

A lecture on "Catalytic Methods of Trace Analysis" was given by J. M. Ottaway.

#### MIDLANDS REGION

A JOINT Meeting of the Region with the UV Group was held at 2 p.m. on Wednesday, October 17th, 1973, in the Lecture Theatre, The Boots Co. Ltd., Pennyfoot Street, Nottingham. The Chair was taken by the Chairman of the UV Group, Dr. A. W. S. Tarrant.

The subject of the meeting was "UV and Visible Spectrophotometry of Difficult Samples" and the following papers were presented and discussed: "Solid Scattering Samples," by A. J. Everett; "UV Spectra of Scattering Low Temperature Matrices," by M. Poliakoff; "Microcell Techniques and Related Problems," by K. W. Smalldon; "Fugitive/Photoreactive Samples," by A. L. Glenn; "Extent of Reaction and Automation," by J. W. Murfin; "Adsorption on to Cell Walls," by D. Thorburn Burns.

#### NORTH EAST REGION

A SOCIAL Meeting of the Region was held at 7 p.m. on Tuesday, October 9th, 1973, at the Scotch Corner Hotel, near Richmond, Yorkshire. The Chair was taken by the Chairman of the Region, Mr. J. Whitehead.

An informal dinner was followed by a lecture on "Leisure, Laughter and Lunatics," given by G. G. Watson.

## BIOLOGICAL METHODS GROUP

A Discussion Meeting of the Group was held at 2.30 p.m. on Thursday, October 11th, 1973, at the Pharmaceutical Society, 17 Bloomsbury Square, London, W.C.1. The Chair was taken by Mr. W. H. Stephenson.

A discussion on "Microbial Attributes of Non-sterile Pharmaceuticals and Cosmetics," was introduced by H. S. Bean, D. F. Spooner and N. J. Van Abbe.

## ATOMIC SPECTROSCOPY GROUP

A JOINT Meeting of the Group with the Sheffield Metallurgical Society was held at 7 p.m. on Tuesday, October 9th, 1973, at BISRA, Hoyle Street, Sheffield. The Chair was taken by the Chairman of the Atomic Spectroscopy Group, Dr. G. F. Kirkbright.

The subject of the meeting was "State of the Art—X-ray Fluorescence and Emission Spectroscopy for Copper and Steel," and the speakers were H. Hughes and J. K. Vyse.

## ELECTROANALYTICAL GROUP

A JOINT Meeting of the Group with the Society of Chemical Industry was held at 11 a.m. on Monday, October 22nd, 1973, at the Society of Chemical Industry, 14 Belgrave Square, London, S.W.1. The Chair was taken by the Chairman of the Solvent Extraction Group of the Society of Chemical Industry, Dr. A. McKay, and by the Honorary Secretary of the Electroanalytical Group, Dr. W. F. Smyth.

The subject of the meeting was "Liquid - Liquid Extraction and Ion-exchange in Analytical Chemistry" and the following papers were presented and discussed: "Current Uses of Liquid - Liquid Extraction in Analytical Chemistry," by Professor H. M. N. H. Irving; "Methods for Identification of Organic Phase Species," by A. G. Maddock; "Influence of Interfering Ions on the Performance of Liquid Ion-exchange Membrane Electrodes," by B. Fleet; "Trapped Liquid Membranes—Mainly in PVC—for Ion Selective Electrodes," by J. D. R. Thomas.

## JOINT PHARMACEUTICAL ANALYSIS GROUP

THE Group participated in the British Pharmaceutical Conference 1973 on Thursday, September 13th, 1973, at the School of Pharmacy, Brunswick Square, London, W.C.1. The Chair was taken by the Chairman of the Group, Dr. B. A. Wills.

The subject of the meeting was "Challenge of Formulation to the Pharmaceutical Analyst," and the speakers were A. Holbrook, K. A. Lees and E. B. Reynolds.