

**Analytical Division Diary, continued***April, continued*

"The Use of Electrochemical Sensors in the Detection of Various Electroactive Species Following Chromatographic Clean-up," by J. Burmicz.

*Friday, 20th*—"Environmental Electroanalysis."

Plenary Lecture: "A Critical Assessment of the Voltammetric Approach for the Study of Toxic Trace Metals in Biological Specimens and their Ecosystems," by H. W. Nurnberg.

"A Critical Evaluation of Decomposition Procedures Prior to ASV Determination of Trace Metals in Biological Materials," by W. Lund.

"Electroanalysis of Carcinogens," by M. R. Smyth.

Plenary Lecture: "Polarographic Analysis of Pesticides in Food Products," by J. Davidek.

"Electroanalysis of Economic Poisons," by J. G. Osteryoung.

"Pulse Polarographic Studies of *N*-Nitrosamines," by R. Samuelsson.

Chelsea College of Science and Technology, Manresa Road, London, S.W.3.

**Tuesday, 24th, 11 a.m.: Birmingham**

*Midland Region* on "Flow Injection Techniques."

Speakers to include: J. Růžicka and D. Betteridge.

Byng Kenrick Suite, The University of Aston, Birmingham.

**Tuesday, 24th, 4 p.m.: Belfast**

*Northern Ireland Sub-Committee.*

"Luminescence Spectroscopy in the Analysis of Drugs," by J. N. Miller.  
Chemistry Department, The Queen's University, Belfast.

**Wednesday, 25th, 10.30 a.m.: Southend**

*East Anglia Region and Chromatography and Electrophoresis Group*, jointly with the Essex Section of CS on "Chromatography in Pharmaceutical and Forensic Analysis."

"Enantiomers, Distereoisomers and Chromatography," by D. W. Selby and B. Stephenson.

"Quantitative Analysis of Drugs in Biological Fluids by HPLC," by J. Chamberlain.

"Chromatographic Systems in Screening Procedures for Doping," by M. S. Moss.

"Chromatography and Pharmaceutical Problems in a Public Analyst's Laboratory," by G. J. Dickes.

College of Technology, Caernarvon Road, Southend.

**Thursday, 26th, 2.30 p.m.: London**

*Microchemical Methods Group.*

Discussion on "Recent Developments in Electrobalances," introduced by M. R. Cottrell.

School of Navigation, City of London Polytechnic, 100 Minories, London, E.C.3.  
Please note change of date, time and venue.

**Friday, 27th, 4 p.m.: Poole**

*Western Region.*

"Application of D.C. Argon Plasma Emission in the Water Industry," by C. J. Triner.  
BDH Staff Club, Poole, Dorset.

Please note change of subject and speaker.

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**Analytical Division Diary, continued***April, continued***Friday, 6th, 1.30 p.m.: Blackburn**

*North West Region*, jointly with the Lancaster and District Section of CS and the Blackburn College of Technology Chemical Society on "Mass Spectrometry of Dyes, Polymers, and Some Other Complex Molecules."

"The Mass Spectrometry of Some Complex Molecules," by Professor J. H. Beynon.

"The Mass Spectrometry of Dyes," by J. Monaghan.

"The Mass Spectrometry of Polymers," by D. H. Williams.

College of Technology, Fielden Street, Blackburn.

**Wednesday, 11th, 10 a.m.: Durham**

*Scottish and North East Regions* on "Geological Analysis."

"Microscope Photometry in the Analysis of Sedimentary Organic Matter," by Professor D. G. Murchison.

"Applications of GC/MS to Organic Geochemical Analysis," by A. G. Douglas.

"Non-destructive Activation Analysis of Small Lunar Samples," by J. E. Whitley.

"Stable Isotope Dilution Methods in the Earth Sciences," by M. H. Dodson and C. J. Hawkworth.

"Applications of Inductively Coupled Plasmas to Geological Analysis," by M. D. Silvester.

"Assaying of Gold," by D. A. Pantony.

"Development of X-ray Fluorescence as a Standard Method of Analysis of Iron Ores," by H. Hughes.

The University, Elvet Riverside Building, New Elvet, Durham.

**Tuesday, 17th, 11.15 a.m.: Huntingdon**

*Special Techniques Group* on "Visual Display Techniques in Analysis."

"Whole Body Radiography," by J. D. Lewis.

"General Applications of Quantimet," by J. Mundel.

"Techniques Used to Generate Maps from Microprobes," speaker to be announced.

Huntingdon Research Centre, Huntingdon.

**Tuesday to Friday, 17th to 20th: London**

*Electroanalytical Group* on "Electroanalysis in Hygiene, Environmental, Clinical and Pharmaceutical Chemistry."

*Tuesday, 17th*—"Applications in Clinical Chemistry."

Plenary Lecture: "New Ion-selective Electrodes and their Clinical and Biological Application," by W. Simon.

"Design Principles and Behaviour of Sensitive Calcium Ion-selective Electrodes," by J. D. R. Thomas and G. J. Moody.

"Continuous Monitoring of Blood Electrolytes with Ion-selective Electrodes," by C. A. Lawrence and R. J. Simpson.

"Potentiometric Stripping Analysis—A New Method for the Determination of Some Heavy Metals," by D. Jagner.

Plenary Lecture: "Pulse Polarographic Analysis of Nucleic Acids and Proteins," by E. Palacek.

"The Determination of Radiation Damage in Native DNA by Single Sweep Voltammetry," by P. Valenta and J. M. Sequaris.

"The Importance of Measuring Oxidation—Reduction Systems in Clinical Research," by J. Chayen.

"Diagnostic Screening for Cystic Fibrosis with a Combination of Chloride Ion-selective Electrodes," by G. J. Moody and J. D. R. Thomas.

*Wednesday, 18th*—"Electroanalysis in Industrial Hygiene."

Plenary Lecture: "The Determination of Trace Toxic Metals in Industrial Medicine by Polarographic Methods," by A. Cernik.

"Electrochemical Gas Monitors in Occupational Hygiene," by I. Bergman.

"Successive Substitution Titration of Cadmium and Zinc with EDTA Using a Carbon Paste Electrode for Amperometric Indication," by K. Ohzeki, E. Schumacher and F. Umland.

Brewery visits to Fuller, Smith and Turner and Guinness, Son and Co. Ltd.

*Thursday, 19th*—"Electroanalytical Applications in Pharmacy and Pharmacology."

Plenary Lecture: The Use of Modern Electroanalytical Techniques in Pharmacy and Pharmacology," by G. J. Partridge.

"Pulse Polarographic Determination of Drugs in Pharmaceutical Formulations," by E. Jacobsen.

"Differential-pulse Polarography of Cephalosporins and their Degradation Products," by A. G. Fogg.

"Voltammetric Analysis of Selected Organic Compounds by On-line Methods," by A. Ivaska and W. F. Smyth.

Plenary Lecture: "Stripping Voltammetry of Molecules of Pharmaceutical Importance," by W. F. Smyth, Y. Vaneesorn and I. E. Davidson.

"Trace Level Polarographic Analysis of Drugs in Body Fluids," by M. Brooks.

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# Analytical Division Diary

## MARCH

### Wednesday, 21st, 2.30 p.m.: Leeds

*North East Region and Chromatography and Electrophoresis Group* on "Applications of Chromatography in the Textiles Field."

"Polyacrylamide Gel Electrophoresis of Suberimidate Crosslinked Microfibrillar Proteins from Wool," by B. Ahmadi and P. T. Speakman.

"Analysis of Fatty Amides by TLC," by D. L. Connell.

"Identification of the Internal Lipids of the Wool Fibre by TLC," by H. E. Crabtree, P. Nicholls and E. V. Truter.

Department of Physical Chemistry, The University, Leeds.

### Wednesday, 28th, 2.15 p.m.: Leeds

*Particle Size Analysis Group* on "Measurement of Fine Particles in the Working Environment."

"Airborne Particles in the Urban Environment," by D. Ball.

"Particle Size Distributions of Foundry Dust," by N. Vaughan and J. LeGuen.

"Measuring the Respirable Fractions of Talc," by T. Ogden.

One other paper.

Department of Colour Chemistry and Dyeing, The University, Leeds.

## APRIL

### Monday to Friday, 2nd to 6th: Huddersfield

*Thermal Methods Group*: Sixth Thermal Analysis School. Details of this school can be obtained from Dr. G. M. Clark, Thermal Analysis School, Department of Chemical Sciences, The Polytechnic, Huddersfield, HD1 3DH.

Department of Chemical Sciences, The Polytechnic, Huddersfield.

### Tuesday to Thursday, 3rd to 5th: Bristol

*CS/RIC Annual Congress*: AD Symposium A on "Immuno and Coupled Enzyme Assays."

*Tuesday, 3rd, 2 p.m.—*

"Enzyme Linked and Homogeneous Immunoassays Including EMIT," by V. Marks.

"ELISA Theory and Applications," by A. Voller.

"Autoradioimmunoassay," by D. Goldie.

"Immunoassay Methods in Clinical Chemical Analysis," by J. Whicher.

*Wednesday, 4th, 9.30 a.m.—*

"Enzymeimmunoassay of Steroids," by B. Joyce.

"New Fluorescence Immunoassay Methods," by J. N. Miller.

"Immunoassay and Dope Detection in Sport," by D. I. Chapman

"Immuno and Coupled Enzyme Techniques in Crime Detection," by A. C. Moffat.

*Wednesday, 4th, 2.30 p.m.—*

Eighth Theophilus Redwood Lecture: "Analysis in Non-segmented Flowing Systems," by E. Pungor.

*Wednesday, 4th, 4 p.m.—*

AD Symposium B on "The Influence of Space Exploration on Analytical Instrumentation."

Introductory Lecture on "Utilisation of Analytical Instrumentation in the Viking Mission to Mars," by J. Martin.

*Thursday, 5th, 9.30 a.m.—*

"Miniature X-ray Fluorescence Spectrometer for *in situ* Geochemical Analysis on Earth," by B. C. Clark.

"The Potential Utility of the Viking Gas Chromatographic - Mass Spectrometer Design Concepts for Terrestrial Instrumentation," by K. Biemann.

"Static Mass Spectrometry for High Sensitivity Analysis of Active Gases and Stable Isotope Ratio Measurements," by C. T. Pillinger.

"Possibilities for Improved Terrestrial Analytical Instruments from Future Space Developments," by R. J. Granger. The University, Bristol.

### Wednesday, 4th, 10.15 a.m.: Sharnbrook

*Midlands and East Anglia Regions and the Chromatography and Electrophoresis Group* on "Recent Developments in HPLC Stationary Phase Technology, and Application to Analytical Chemistry."

"An Approach to Preparative Reversed Phase Chromatography," by G. B. Cox.

"Synthesis and Applications of New Chemically Bonded Stationary Phases for HPLC," by S. A. Matlin.

"The Separation of Drugs, Sugars and Proteins on Chemically Modified Silicas," by B. B. Wheals.

"The Role of Reversed Phase HPLC in Pharmaceutical Analysis," by C. Burgess.

"The Role of Chemically Modified Supports in HPLC," by A. D. Dale.

"Preparation of Stationary Phases for Use in Food Analysis," by A. D. Jones.

Unilever Research, Colworth House, Sharnbrook, Bedfordshire.

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