

## REPORTS PUBLISHED BY THE ANALYTICAL METHODS COMMITTEE AND ITS JOINT COMMITTEES PUBLISHED IN THE ANALYST

Reports published by the Sub-Committees of the AMC are listed below. Part A lists Reports from Sub-Committees which are presently active, Part B those from those Sub-Committees which are no longer active.

### Part A: Currently Active Sub-Committees

#### Animal Feedingstuffs Sub-Committees

The Determination of Penicillin, Chlortetracycline and Oxytetracycline in Diet Supplements and Compound Feedingstuffs	1963, <u>88</u> , 835
The Determination of Stilboestrol and Hexoestrol in Compound Feedingstuffs	1963, <u>88</u> , 925
The Determination of Nitrofurazone in Compound Feedingstuffs	1963, <u>86</u> , 935
The Determination of Water-soluble Vitamins in Compound Feedingstuffs	1964, <u>89</u> , 1
The Determination of Fat-soluble Vitamins in Diet Supplements and Compound Feedingstuffs	1964, <u>89</u> , 7
The Determination of Dimetridazole in Animal Feeds	1969, <u>94</u> , 925
The Determination of Dinitolmide (Zoalene) in Animal Feeds	1969, <u>94</u> , 1159
The Determination of Amprolium in Animal Feedingstuffs	1964, <u>89</u> , 505
The Determination of Sulphaquinoxaline	1965, <u>90</u> , 531
The Determination of Acinitrazole	1966, <u>91</u> , 672
The Determination of Ethopabate in Feeds	1967, <u>92</u> , 468

The Determination of Clopidol in Animal Feeds	1974, <u>99</u> , 233
The Determination of Quindoxin in Compound Animal Feeds and Pre-mixes	1974, <u>99</u> , 63
The Determination of Nitrovin in Compound Animal Feeds and Pre-mixes	1974, <u>99</u> , 70
The Determination of Decoquinate in Animal Feeds	1975, <u>100</u> , 63
The Determination of Robenidine in Animal Feeds and Pre-mixes	1975, <u>100</u> , 668
Microbiological Assay of Monensin in Animal Feeds and Pre-mixes	1977, <u>102</u> , 206

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**Essential Oils Sub-Committee**

Estimation of Cineole (1) Cajuput and Eucalyptus Oils

1927, 52, 276

Physical Constants (!)

1927, 52

Application of Gas-Liquid Chromatography to the Analysis of Essential Oils:

Part I. Determination of Cedrol	1971, <u>96</u> , 887
Part II. Determination of 1,8-Cineole in Oils of Cardamom, Rosemary, Sage and spike Lavender	1973, <u>98</u> , 616
Part III. The Determination of Geraniol in Oils of Citronella	1973, <u>98</u> , 823
Part IV. Determination of Eugenol in Oil of Bay	1975, <u>100</u> , 593
Part V. Determination of 1,8-Cineole in Oils of Lavender and Lavandin	1977, <u>102</u> , 607
Part VI. Determination of Limonene and 1,8-Cineole in Oils of Peppermint	1978, <u>103</u> , 375
Part VII. Fingerprinting of Essential Oils by Temperature-programmed Gas-Liquid Chromatography using a Carbowax 20M Stationary Phase	1980, <u>105</u> , 262
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part VII Fingerprinting of Essential Oils by temperature-programmed Gas-Liquid Chromatography using a Carbowax 20M Stationary Phase.	1980, <b>105</b> , 262-273.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part VIII Fingerprinting of Essential Oils by Temperature-programmed Gas-Liquid Chromatography using Methyl Silicone Stationary Phases.	1981, <b>106</b> , 448-455.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part IX Determination of Eugenol in Oil of Cinnamon Bark.	1981, <b>106</b> , 456-460.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part X Fingerprinting of Specified Essential Oils by Standardised procedures.	1984, <b>109</b> , 1339-1341.

Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XII Determination of Patchouli Alcohol in Oil of Patchouli.	1987, <b>112</b> , 1315-1318.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XIII Determination of Octan-3-ol in Oils of Peppermint and Mint.	1998, <b>113</b> , 657-659.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XIV Monographs for Five Essential Oils.	1998, <b>113</b> , 1225-1236.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XV Determination of "Rhodinol" in Oils of Geranium.	1990, <b>115</b> , 459-463.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XVI Monographs for Five Essential Oils.	1993, <b>118</b> , 1089-1098.
Applications of Gas-Liquid Chromatography to the Analysis of Essential Oils. Part XII. Fingerprinting of Essential Oils by Temperature-programmed Gas-Liquid Chromatography using Capillary Columns with Non-polar Stationary Phases.	1997, <b>122</b> , 1167-1174.

### **Instrumental Criteria Sub-Committee Reports Published in Analytical Proceedings**

Part I, Atomic Absorption Spectrophotometers, Primarily for Use with Flames.	1984, <b>21</b> , 45-53.
Revised	1998, <b>123</b> , 1407-1414.
Evaluation of Analytical Instrumentation,. Part II, Atomic Absorption Spectrophotometers, Primarily for use with Electrothermal Atomisation.	1985, <b>22</b> , 128-134.
Revised	1998, <b>123</b> , 1415-1423.
Evaluation of Analytical Instrumentation. Part III, Polychromators for use in Emission Spectrometry with ICP Sources.	1986, <b>23</b> , 109-115.
Evaluation of Analytical Instrumentation. Part IV, Monochromators for Use in Emission Spectrometry with ICP Sources.	1987, <b>24</b> , 3-9.
Evaluation of Analytical Instrumentation. Part V, Inductively Coupled Plasma Sources for Use in Emission spectrometry	197, <b>24</b> , 266-271.

Evaluation of Analytical Instrumentation. Part VI, Wavelength Dispersive X-Ray Spectrometers. 1990, **27**, 324-333.

Evaluation of Analytical Instrumentation. Part VII, Simultaneous Wavelength Dispersive X-Ray Spectrometers. 1991, **28**, 312-319.

Evaluation of Analytical Instrumentation. Part VIII, Instrumentation for Gas-Liquid Chromatography. Evaluation of analytical

Nitrogen Factors for Turkey	1965, <u>90</u> , 581
Nitrogen Content of Rusk Filler (2 <sup>nd</sup> Report)	1965, <u>90</u> , 579
Nitrogen Factor for Kidney	1966, <u>91</u> , 538
Nitrogen Factor for Tongue	1967, <u>92</u> , 326
Nitrogen Factor for Barley	1968, <u>93</u> , 476
Nitrogen Factor for Blood	1968, <u>93</u> , 478
Nitrogen Factors for Pork.	1986, <b>111</b> , 969-973.
Hydroxyproline in Pork.	1987,

The Determination of Small Amounts of Copper in Organic Matter	1963, <u>88</u> , 253
The Determination of Small Amounts of Mercury in Organic Matter	1965, <u>90</u> , 515
The Determination of Small Amounts of Tin in Organic Matter. Part I	1967, <u>92</u> , 320
The Determination of Small Amounts of Zinc in Organic Matter	1967, <u>92</u> , 324
The Use of 50% Hydrogen Peroxide for the Destruction of Organic Matter	1967, <u>92</u> , 403
The Determination of Small Amounts of Tin in Organic Matter. Part II	1968, <u>93</u> , 414
The Determination of Small Amounts of Cadmium in Organic Matter. Part I	1969, <u>94</u> , 1153
The Determination of Small Amounts of Copper in Organic Matter by Atomic-absorption Spectroscopy	1971, <u>96</u> , 741
The Determination of Small Amounts of Zinc in Organic Matter by Atomic-absorption Spectroscopy	1973, <u>98</u> , 458
The Determination of Small Amounts of Arsenic in Organic Matter	1975, <u>100</u> , 54



## **Quality Assurance of Trace Analysis Sub-Committee (in Conjunction with the Laboratory of the Government Chemist)**

Soft Cover Book: Guidelines for Achieving Quality in Trace Analysis, 1999 (?).

### **Statistical Sub-Committee**

Recommendations for the Definition, Estimation and Use of the Detection Limit. 1987, **112**, 199-204.

Recommendations for the Conduct and Interpretation of Co-operative Trials. 1987, **112**, 679-686.

Use (Proper and Improper) of Correlation Coefficients. 1988, **113**, 1469-1471.

Erratum to above. 1989, **114**, 753.

Report on Experimental Test of "Recommendations for the Conduct and Interpretation of Co-operative trials". 1989, **114**, 1489-1495,

Principles of Data Quality Control in Chemical Analysis. 1989, **114**, 1497-1503.

Robust Statistics - How Not to Reject Outliers. Part I. Basic Concepts. 1989, **114**, 1693-1697.

Robust Statistics - How Not to Reject Outliers. Part 2. Inter-laboratory Trials. 1989, **114**, 1699-1702.

Proficiency Testing of Analytical Laboratories: Organisation and Statistical Assessment. 1992, **117**, 97-104.

Is My Calibration Linear? 1994, **119**, 2363-2366.

Internal Quality Control of Analytical Data. 1995, **120**, 29-34.

Uncertainty of Measurement: Implications of its Use in Analytical Science. 1995, **120**, 2303-2308.

Handling False Negatives, False Positives and Reporting Limits in Analytical Proficiency Tests. 1997, **122**, 192-197.

## **Part B: Sub-Committees Not Currently Active**

### **Analytical Standards Sub-Committee**

Sodium Carbonate as a Primary Standard in Acid-Base Titrimetry	1965, <u>90</u> , 251
Sulphamic Acid as a Primary Standard in Acid-Base Titrimetry	1967, <u>92</u> , 587
Reference Substances and Reagents for Use in Organic - Micro-analysis (Joint with Microchemical Methods Group)	1972, <u>97</u> , 740
The Precise Standardisation of Disodium Dihydrogen Ethylene - diaminetetraacetate Dihydrate by Spectrophotometric – Titration against Pure Bismuth Metal	1975, <u>100</u> , 675
Precise Assay of Arsenic (III) Oxide by Reference to Pure Iodine Precise Standardisation of Disodium Dihydrogen Ethylene diaminatetraacetate Dihydrate by Spectrophotometric – Titration against Pure Zinc Metal	1977, <u>102</u> , 955 1978, <u>105</u> , 93

### **Antibiotics in Animal Feeds Sub-Committee**

Microbiological Assay of Low levels of Monensin in Animal Feeds.	1981, <b>106</b> , 788-789.
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### **Chlorine in Organic Compounds Sub-Committee**

The Semi-micro-determination of Chlorine in Agricultural Technical Organic Chemicals and their Formulations	1963, <u>88</u> , 415
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### **Fluorine Sub-Committees**

Determination of Fluorine in Foods	1944, <u>69</u> , 243
The determination of Small Amounts of Fluoride in Solution	1971, <u>96</u> , 384
The Titration of Milligram Amounts of Fluoride	1972, <u>97</u> , 734
A Critical Examination of Procedures for the Assay of Sodium Fluoride	1973, <u>98</u> , 297

**Fish Products Sub-Committee**

Nitrogen Factor for Cod Flesh	1966, <u>91</u> , 540
Nitrogen Factor for Coal Fish	1971, <u>96</u> , 744
Nitrogen Content of Raw Fish	1973, <u>98</u> , 456
Determination of Fish Content of Coated Fish Products	1978, 103

Determination of Olaquinox in Medicated Animal Feeds by High-performance Liquid Chromatography. 1985, **110**, 75-77.

Determination of Nifursol in Medicated Animal Feeds by High-

### **Poisons Sub-Committee**

Assay of Lobelia	1939, <u>64</u> , 581
Assay of Gelsemium	1941, <u>66</u> , 108
Assay of Aconite	1942, <u>67</u> , 289
Assay of Yohimbe	1948, <u>73</u> , 309
Assay of Jaborandi	1948, <u>73</u> , 311
Assay of Ephedra and Ephedrine in Nasal Sprays	1948, <u>73</u> , 312

### **Soap Analysis Sub-Committee**

Determination of Unsaponifiable Matter in Oils and Fats	1933, <u>58</u> , 203
Determination of Unsaponified Fat in Soap	1935, <u>60</u> , 537
Determination of Free Alkali in Soaps	1937, <u>62</u> , 36
Determination of Free Alkali and Silica in Silicated Soaps	1937, <u>62</u> , 865
Determination of Rosin in Soaps	1937, <u>62</u> , 868
Determination of Phenols in Soaps	1946, <u>71</u> , 301

### **Soapless Detergents Sub-Committee**

Examination of Detergent Preparations	1951, <u>76</u> , 279
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### **Trace Element Speciation in Foodstuffs Sub-Committee**

The Determination of Trace Element in Food by Atomic Absorption Spectrometry. Published in <i>Analytical Proceedings</i>	1985, <b>22</b> , 48-50.
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### **Tragacanth Sub-Committee**

Evaluation of Powdered Tragacanth	1948, <u>73</u> , 368
Evaluation of Flake Tragacanth	1949, <u>74</u> , 2

### **Veterinary Residues in Fresh Meat Sub-Committee**

- Collaborative Study of a Method for the Determination of Residues of Halofuginone in Chicken Tissue. 1994, **109**, 171-174.
- Collaborative Study of a Method for the Determination of Dimetridazole Residues in chicken Tissues. 1995, **110**, 1991-1993.
- Collaborative Study of a Method for the Determination of Residues of Monensin in Chicken Tissues. 1996, **111** 1089-1093.

### **Vitamin Estimations Sub-Committee**

- Microbiological Assay of Riboflavin and Nicotinic Acid 1946, 71, 397
- Determination of Carotene in Green-leaf Materials. Part I 1950, 75, 568
- Determination of Carotene in Green-leaf Materials. Part II 1952, 77, 171
- The Chemical Assay of Aneurin in Foodstuffs 1951, 76, 127
- Microbiological Determination of Thiamin 1954, 79, 118
- The Estimation of Vitamin B12

Evaluation of Thyroid	1967, <u>92</u> , 328
The Chemical Assay of Aloes	1967, <u>92</u> , 593
The Chemical Assay of Cascara Dy Extract, Cascara Tablets and Cascara Bark	1968, <u>93</u> , 749
The Assay of Phenothiazine	1969, <u>94</u> , 932
The Chemical Assay of Cascara Bark and Cascara Dry Extract	1973, <u>98</u> , 830
The Assay of Ephedrine	1975, <u>100</u> , 136
Determination of Morphine in Raw Opium, Opium Tincture and Other Opiate Preparations by Gas-Liquid Chromatography	1978, <u>103</u> , 268
Determination of Hexachlorophane in Cosmetic and Toilet Preparations	1978, <u>103</u> , 284

#### **Joint Committees with Other Bodies**

The Determination of Small Amounts of DDT in flour and Other Foodstuffs	1960, <u>85</u> , 600
The Determination of Malathion Residues in Cereals and Oilseeds	1960, <u>85</u> , 915
The Determination of Mercury Residues in Apples and Tomatoes	1961, <u>86</u> , 608
The Determination of Small Amounts of BHC in Flour and Edible Oils	1962, <u>87</u> , 220
The Determination of Demeton-methyl Residues in Fruits and Vegetables	1962, <u>87</u> , 485
The Determination of Dimethoate Residues in Fruits and Vegetables	1968, <u>93</u> , 756
Determination of Mercury and Methylmercury in Fish	1977, <u>102</u> , 769