

PROCEEDINGS: INDEX OF AUTHORS

General Index

B

- Barton**, D. H. R. Biogenesis of phenolic alkaloids (*Hugo Müller lecture*), 293.
Battersby, A. R. Biosynthesis of alkaloids (*Tilden lecture*), 189.
Berry, A. J., and **Moelwyn-Hughes**, E. A. Chemistry at Cambridge from 1901 to 1910, 357.
Bunnenberg, E. See **Djerassi**, C., 299.

C

- Cahn**, R. S. Obituary notice on Alec Duncan Mitchell, 352.

D

- Djerassi**, C., and **Bunnenberg**, E. Recording and nomenclature of circular dichroism, 299.
Duffin, W. M. Obituary notice on Sydney Smith, 29.

F

- Farrar**, W. V. Strange history of intensive drying, 125.

G

- Graham**, A. R. Obituary notice on Denis Cheseleden Quin, 355.
Grove, D. M. Obituary notice on Cecilie Mary French, 30.

H

- Haworth**, R. D., and **Lamberton**, A. H. Obituary notice on Sir Irvine Masson, 120.
Henbest, H. B. Stereoselectivity in the reactions of cyclic compounds (*Tilden lecture*), 159.
Hirst, E. L. Obituary notice on Professor John Read, 353.

K

- Kent**, A. Frederick Soddy (1877-1956), 327.
Kipping, F. B. Obituary notice on James Bell Whitworth, 392.

L

- Lamberton**, A. H. See **Haworth**, R. D., 120.
Lloyd, P. V. Industries of South Wales: their history and development, 6.

M

- Mann**, F. G. Obituary notice on Hamilton McCombie, 122.
Milone, M. Obituary notice on Antonio Giuseppe Nasini, 321.
Moelwyn-Hughes, E. A. See **Berry**, A. J., 357.

P

- Philbin**, E. M. Obituary notice on Thomas Sherlock Wheeler, 154.
Piggott, H. A. Obituary notice on William Charlton, 187.

R

- Richards**, R. E. Nuclear magnetic resonance (*Tilden lecture*), 101.
Robertson, J. M. Contributions of X-ray analysis to natural-product chemistry (*Presidential address*), 229.
Robinson, F. A. Obituary notice on Edwin Percival Taylor, 153.
Rydon, H. N. Obituary notice on William Henry Lewis, 323.

S

- Sanger**, F. Amino-acid sequences in the active centres of certain enzymes (*Pedlar lecture*), 76.

T

- Thomas**, G. University College, Cardiff, 3.

W

- Westheimer**, F. H. Mechanism of the enzymic decarboxylation of acetoacetic acid (*Centenary lecture*), 253.

Communications

A

- Abraham**, R. J., **Burbidge**, P. A., **Jackson**, A. H., and **Kenner**, G. W. Concentration effects in proton magnetic resonance spectra of porphyrins, 134.
Acheson, R. M., and **Snaith**, R. W. New indole rearrangement, 344.
Achmad, S. A., and **Cavill**, G. W. K. Stereospecific synthesis of the enantiomer of natural iridodial, and of natural nepatalactone, 166.
Adams, G. E., **Baxendale**, J. H., and **Boag**, J. W. Formation of abnormal valency states in the radiolysis of aqueous metal-ion solutions, 241.

- Agnès**, G. See **Chiusoli**, G. P., 310.
Albery, W. J., and **Bell**, R. P. The kinetics of the dissociation of weak acids measured by a rotating platinum disc electrode, 169.
Alexakos, L. G., **Cornwell**, C. D., and **Pierce**, S. B. Nuclear magnetic resonance spectra of iodine heptafluoride and iodine oxide pentafluoride, 341.
Anbar, M., **Guttmann**, S., and **Friedman**, C. Deiodination of *o*-iodobenzoic acid induced by copper(II) ions, 10.
Anbar, M., and **Rona**, P. Effect of cupric and thallos ions on the radiolysis of aqueous solutions of ethylenediamine, propane-1,2-diamine, and glycine, 244.

- Angyal, S. J., and Shelton, B. Structure and synthesis of "manninositose," 57.
- ApSimon, J. W., Corran, J. A., Creasey, N. G., Sim, K. Y., and Whalley, W. B. Structure of ergoflavin, 209.
- ApSimon, J. W., Corran, A. J., Creasey, N. G., Marlow, W., Whalley, W. B., and Sim, K. Y. Structure of ergochrysin, secalonic acid, and chrysergonic acid, 313.
- Archer, D. A., Breuer, S. W., Binks, R., Battersby, A. R., and Wildman, W. C. Biosynthesis in the Amaryllidaceae: further evidence in the C₆-C₁ unit and the methylenedioxy-group, 168.
- Asako, T. See Miki, T., 139.
- Asher, J. D. M., McPhail, A. T., Robertson, J. M., Silverton, J. V., and Sim, G. A. Structure of ergoflavin, 210.
- Atkins, P. W., Symons, M. C. R., and Trevalion, P. A. Evidence for pairwise trapping of photolytic free radicals, 222.
- Ayscough, P. B., and Sargent, F. P. Photolytic generation of aromatic radical-anions: electron-spin resonance studies, 94.
- B**
- Bacocchi, E. See Burnett, J. F., 238.
- Badger, G. M., Jackman, L. M., Sklar, R., and Wenkert, E. Structures of rotundifoline and mitragynol, 206.
- Bailey, N. A., and Mason, R. Electron distribution in 1,8-bis-dehydro[14]annulene, 180.
- Baker, C. S. L., Landor, P. D., and Landor, S. R. Coupling of allenic halides with ethynyl compounds, 340.
- Banks, G. R., and Cohen, D. A new route to thione esters, 83.
- Banthorpe, D. V., and Ridd, J. H. Extent of hydrogen-isotope exchange in the elimination reactions of trimethyl- α -methylbenzylammonium and -phenylammonium ions, 225.
- Bartlett, N., and Levchuk, L. E. Iodine oxide pentafluoride and iodine heptafluoride, 342.
- Barton, D. H. R., and Beckwith, A. J. L. Novel synthesis of lactones, 335.
- Barton, D. H. R., Budhiraja, R. P., and McGhie, J. F. Synthesis of cycloartane, 170.
- Barton, D. H. R., Hesse, R. H., and Kirby, G. W. Origin of the "berberine carbon," 267.
- Barton, D. H. R., Kirby, G. W., Steglich, W., and Thomas, G. M. Biosynthesis and synthesis of morphine alkaloids, 203.
- Barton, D. H. R. See also Haynes, L. J., 280.
- Basi, J. S., and Bradley, D. C. Monomeric quadricovalent chromium compounds, 305.
- Basolo, F., Bounsall, E. J., and Poë, A. J. *trans*-Effect in octahedral rhodium complexes, 366.
- Batterham, T. J., and Weiss, U. Structure of elsinochrome A, 89.
- Battersby, A. R., Binks, R., Foulkes, D. M., Francis, R. J., McCaldin, D. J., and Ramuz, H. 1-Benzylisoquinolines as precursors of the opium alkaloids: tracer and stereochemical studies, 203.
- Battersby, A. R., Binks, R., Lawrie, W., Parry, G. V., and Webster, B. R. Biosynthesis of the indole and Ipecacuanha alkaloids, 369.
- Battersby, A. R., Francis, R. J., Hirst, M., and Staunton, J. Biosynthesis of the "berberine bridge," 268.
- Battersby, A. R. See also Archer, D. A., 168.
- Baughan, E. C., Jones, T. P., and Stoodley, L. G. Antimony halides as solvents. Part III. Electron spin resonance spectra of aromatic hydrocarbons in antimony trichloride, 274.
- Baxendale, J. H., and Dixon, R. S. Some unusual reductions by the hydrated electron, 149.
- Baxendale, J. H., Fielden, E. M., and Keene, J. P. Absolute rate constants for the reactions of some metal ions with the hydrated electron, 242.
- Baxendale, J. H. See also Adams, G. E., 241.
- Beck, W. H., Caudle, J., Covington, A. K., and Wynne-Jones, W. F. K. Precise measurements with the glass electrode: the time variation of E.M.F., 110.
- Beckwith, A. J. L. See Barton, D. H. R., 335.
- Bell, R. P. See Albery, W. J., 169.
- Bennett, M. J., and Mason, R. Structure and reactivity of tricarbonyl- π -cyclopentadienylethylmolybdenum, 273.
- Bentley, K. W., and Hardy, D. G. New potent analgesics in the morphine series, 220.
- Beyerman, H. C., and Maassen van der Brink, W. Use of bifunctional catalysts in peptide and other syntheses, 266.
- Binks, R. See Archer, D. A., 168, and Battersby, A. R., 203, 369.
- Black, D. K., and Landor, S. R. Synthesis of the antibiotic P.A. 147 [5-Hydroxy-3-vinylfuran-2(5*H*)-one], 183.
- Blandamer, M. J., Gross, J. M., and Symons, M. C. R. Spectroscopic evidence for the sulphide ion in aqueous solution, 147.
- Block, H., and Jackson, J. B. Calorimetric determination of conformational changes in polypeptides, 381.
- Bloodworth, A. J., and Davies, A. G. *N*-Stannylcarbamates, and their role as possible intermediates in the formation of urethanes, 264.
- Bloodworth, A. J., and Davies, A. G. Reactions involving the addition or the elimination of metallic compounds, 315.
- Blues, E. T. See Bryce-Smith, D., 219.
- Boag, J. W. See Adams, G. E., 241.
- Bocks, S. M., and Cambie, R. C. Enzymic coupling of totarol, 143.
- Boekelheide, V. See Wenzinger, G. R., 53.
- Borden, G. W. See Chapman, O. L., 221.
- Bounsall, E. J. See Basolo, F., 366.
- Bourn, A. J. R., Gillies, D. G., and Randall, E. W. Paramagnetic shifts in fluoro-aromatic compounds, 200.
- Bowen, E. J., and Eland, J. H. D. Photochemistry of diphenylamine solutions, 202.
- Bowen, E. J., and Lloyd, R. A. Chemiluminescence from dissolved oxygen, 305.
- Bradley, D. C. See Basi, J. S., 305.
- Bradshaw, C. P. C., and Nechvatal, A. Preparation of *t*-butyl hypochlorite, 213.
- Brand, J. C. D., Calloman, J. H., Moule, D. C., and Tyrrell, J. The $1A_2$ state of thiophosgene, 307.
- Braterman, P. S., Phipps, P. B. P., and Williams, R. J. P. Electron transfer in some solids containing complex ions, 12.
- Breakspere, R. J., Gregg, S. J., and Leach, H. F. Reaction of aluminium with carbon dioxide at 400–650°, 304.
- Brennan, D., and Jackson, J. M. Distribution of adsorbate within evaporated metal films, 375.
- Brennan, J. F. See Kresge, A. J., 215.
- Breuer, S. W. See Archer, D. A., 168.
- Briggs, L. H. See Cross, B. E., 17.
- Brooke, G. M., Chambers, R. D., Heyes, J., and Musgrave, W. K. R. Direct preparation of some functional fluoro-aromatic compounds, 94.
- Brooke, G. M., Chambers, R. D., Heyes, J., and Musgrave, W. K. R. Orientation reactions of chloropentafluorobenzene and related compounds, 213.
- Brown, D. M., and Usher, D. A. Hydrolysis of phosphate diesters: effect of a neighbouring hydroxyl group, 309.
- Bryce-Smith, D., Wakefield, B. J., and Blues, E. T. Convenient new method for the reduction of organic halides, 219.
- Bryce-Smith, D., and Wakefield, B. J. *n*-Butylmagnesium isopropoxide: preparation of alkoxide analogues of Grignard reagents, 376.
- Buckingham, A. D. Electric-field induced overtones in nuclear magnetic resonance, 336.
- Buckingham, A. D., and McLauchlan, K. A. Absolute sign of the spin-spin coupling constant, 144.
- Budhiraja, R. P. See Barton, D. H. R., 170.
- Büchi, G., Fearheller, S. H., de Mayo, P., and Williams, R. E. Copaene, 214.
- Büchi, G. See also Dobler, M., 383.
- Bunnett, J. F., and Bacocchi, E. Nucleophilic reactivity of alkoxide and mercaptide ions towards hydrogen, 238.
- Burbidge, P. A. See Abraham, R. J., 134.
- Burnell, R. H. See Jeffreys, J. A. D., 171.
- Busch, D. H. See Melson, G. A., 223.
- Buss, D. H. See Guthrie, R. D., 84.

C

- Cady, G. H., Eggers, D. F., and Tittle, B. Difluoro(pentafluorosulphur)amine, SF_5NF_2 , 65.
- Calloman, J. H. See Brand, J. C. D., 307.
- Cambie, R. C. See Bocks, S. M., 143, and Cross, B. E., 17.
- Carr, M. D., Clarke, J. R. P., and Whiting, M. C. Isomerisation of the *n*-octanes in acidic and basic media, 333.
- Caudle, J. See Beck, W. H., 110.
- Cavill, G. W. K. See Achmad, S. A., 166.
- Cerfontain, H. See Wanders, A. C. M., 174.
- Chambers, R. D., and Chivers, T. Cleavage reactions of pentafluorophenyl derivatives of tin and boron, 208.
- Chambers, R. D. See also Brooke, G. M., 94, 213.
- Chapman, O. L., and Borden, G. W. Anomalous photoisomerisation in the cycloheptatriene series, 221.
- Cheeseman, T. P., Hall, D., and Waters, T. N. Stereochemistry of copper in 2,2'-biphenylbis-(2-iminomethyl-*enephenolato*)copper(II), 379.
- Chiusoli, G. P., and Agnès, G. Dienoic acid and phenols: a novel cyclisation reaction, 310.
- Chivers, T. See Chambers, R. D., 208.
- Christensen, J. J. See Hale, J. D., 240.
- Churchill, M. R., and Mason, R. Stereochemistry and conformation of π -cyclopentadienyl-1-phenylcyclopentadiene-cobalt, 112.
- Churchill, M. R., and Mason, R. Stabilisation of a non-planar benzene nucleus in the molecular structure of π -cyclopentadienylhexakis(trifluoromethyl)benzenorhodium, 365.
- Clark, H. C., and O'Brien, R. J. Covalent bonding in fluorosalts of the trimethyltin group, 113.
- Clark, H. C., O'Brien, R. J., and Trotter, J. Crystal structure of trimethyltin fluoride, 85.
- Clark, V. M., and Warren, S. G. Mechanism of pyrophosphate formation from phosphoramidates, 178.
- Clarke, J. R. P. See Carr, M. D., 333.
- Clark-Lewis, J. W., Spotswood, T. M., and Williams, L. R. Stereochemistry of flavan-4 β -ols, 20.
- Clifton, P., and Pratt, L. Proton resonance spectra of cobalt-aminines, 339.
- Cohen, D. See Banks, G. R., 83.
- Cookson, R. C., and Jones, D. W. Generation of tetraphenylcyclobutadiene and its adducts from its palladium chloride complex, 115.
- Cookson, R. C., and Nye, M. J. Reactions of the intermediate from reduction of bis- α -bromobenzyl ketone, 129.
- Cookson, R. C., and Wallis, S. R. Pyrolysis of allyl ethers: hydrogenolysis of allyl alcohols with specific migration of the double bond, 58.
- Corbett, R. E. See Jeffreys, J. A. D., 171.
- Cornwell, C. D. See Alexakos, L. G., 341.
- Corran, J. A. See ApSimon, J. W., 209, 313.
- Cottrell, T. L., Hunter, T. F., and Read, A. W. Vibrational relaxation time of the 3.3 μ band in methane, 272.
- Covington, A. K. See Beck, W. H., 110.
- Coyle, T. D. Exchange processes in the reaction of boron trichloride with triethylamine-boron trifluoride, 172.
- Craig, J. C., and Moyle, M. An *in vitro* model for the synthesis of alenes, 56.
- Crawford, R. J., and Raap, R. Homolytic decomposition of diethoxydiazomethane, 370.
- Creasey, N. G. See ApSimon, J. W., 209, 313.
- Crispin, D. J., and Whitehurst, J. S. Further total synthesis of oestrone, 22.
- Crombie, L., and Peace, R. Structure of amorphenin, the aglycone of the first natural rotenoid glycoside, 246.
- Cross, B. E., Hanson, J. R., Briggs, L. H., Cambie, R. C., and Rutledge, P. S. Inter-relationship of (-)-kaurene and (+)-phylloladene, 17.

D

- Darbyshire, J. A. C. See Kilbourn, B. T., 207.
- Davies, A. G. See Bloodworth, A. J., 264, 315.
- de Boer, E., and Maekor, E. L. Alternation of line width in the electron spin resonance spectrum of the alkali-metal radical-ion complex of pyracene, 23.

- de Mayo, P., Yip, R. W., and Reid, S. T. Mechanism of photochemical cycloaddition: direct formation of the *trans*-bicyclo[4.2.0]octane system, 54.
- de Mayo, P. See also Büchi, G., 214.
- de Tonckelaar, W. A. M. See Kooyman, E. C., 66.
- Di Maio, G., and Tardella, P. A. Ring contraction of *N*-hydroxylactams to heterocyclic bases, 224.
- Dixon, R. S. See Baxendale, J. H., 149.
- Dixon, W. T., and Norman, R. O. C. Intermediate in homolytic aromatic substitution, 97.
- Djerassi, C., and von Mutzenbecher, G. Synthesis of 15-oxosteroids, 377.
- Dodge, R. P., Mills, O. S., and Schomaker, V. Molecular structure of the reaction product from 2,3-dimethylbuta-1,3-diene and osmium carbonyl, 380.
- Dobler, M., Dunitz, J. D., Gubler, B., Weber, H. P., Büchi, G., and Padilla, O. J. Structure of patchouli alcohol, 383.
- Dobson, G., and Hughes, G. Molecular process in the radiation-induced oxidation of hydrocarbons, 109.
- Dolphin, D. H., and Johnson, A. W. Reaction of cobalamins with thiols: an alternative synthesis of alkyl-cobamide coenzyme analogues, 311.
- Doyle, P., Maclean, I. R., Parker, W., and Raphael, R. A. Total synthesis of (\pm)-clovene, 239.
- Dunitz, J. D. See Dobler, M., 383.
- Dutta, P. C. See Matthew, C. T., 135.
- Dyer, J. Geminal fluorine spin-coupling in some substituted ethanes, 275.
- Dyke, S. F., Ollis, W. D., and Sainsbury, M. F. Constitution of munetone, 179.

E

- Eaborn, C., and Steward, O. W. Steric course of aromatic bromodesilylation, 59.
- Earnshaw, A., Larkworthy, L. F., and Patel, K. S. Anomalous magnetic behaviour of some chromous compounds, 281.
- Ebsworth, E. A. V., Jenkins, D. R., Mays, M. J., and Sugden, T. N. Preparation and structure of silyl azide, 21.
- Edwards, A. J. Chromium pentafluoride and chromium oxide tetrafluoride, 205.
- Edwards, A. J., Holloway, J. H., and Peacock, R. D. New fluorine compounds of xenon, 275.
- Eggers, D. F. See Cady, G. H., 65.
- Eggers, S. H., Emerson, T. R., Kane, V. V., and Lowe, G. Synthesis of a new fragmentation product of a cephalosporanic acid derivative, 248.
- Eland, J. H. D. See Bowen, E. J., 202.
- Elmore, D. T., and Smyth, J. New synthesis of aryl esters of *N*-acylated amino-acids and peptides, 18.
- Emerson, T. R. See Eggers, S. H., 248.
- Emphedocles, P. B., and Linnett, J. W. Wave function and chemical formula for benzene, 303.
- Evans, D. F. Effect of nitrogen under pressure on the Rydberg spectra of polyatomic molecules; the nature of the long-wavelength olefin bands, 378.
- Evans, D. F. See also Maher, J. P., 176.
- Everett, D. H., and Redman, E. Kinetics of cross-linking reactions in solids, 91.
- Eyre, D. H., Harrison, J. W., Scrowston, R. M., and Lythgoe, B. Constituents of taxicin-I and -II, 271.

F

- Falconer, W. E., and Morton, J. R. Electron spin resonance spectrum of the XeF radical, 95.
- Fairheller, S. H. See Büchi, G., 214.
- Feather, J. A., and Gold, V. Steric effects in proton transfer reactions, 306.
- Featherstone, W., Jackson, E., and Kohnstam, G. Effect of solvent changes on the stabilities of initial and transition states in solvolysis by S_N mechanisms, 175.
- Fergusson, J. E. See Robinson, W. T., 116.
- Ferrier, R. J., Overend, W. G., Rafferty, G. A. (Mrs.), Wall, H. M., and Williams, N. R. Determination of the configuration of branched-chain sugars, 133.

- Field, B. O., and Hardy, C. J. Trinitratoniobium(v) oxide, $\text{NbO}(\text{NO}_3)_3$, 11.
- Fielden, E. M. See Baxendale, J. H., 242.
- Finnegan, R. A., Mueller, W. H., and Morris, M. P. Naturally occurring aliphatic nitro-compounds: the endecaphyllins, 182.
- Fischer, A. G. See Suhadolnik, R. J., 132.
- Forrest, H. S. See Lagowski, J. M., 343.
- Foster, A. B., Stacey, M., Webber, J. M., and Westwood, J. H. Configurational correlation of desosamine and chalcose, 279.
- Foulkes, D. M. See Battersby, A. R., 203.
- Francis, R. J. See Battersby, A. R., 203, 268.
- Fraser, R. T. M. Evidence for geometric isomers of the chlorotetraethylenepentaminecobalt(III) ion, 262.
- Freedman, H. H., and Gohlke, R. S. Structure of the tetraphenylcyclobutadiene dimer, 249.
- Friedman, C. See Anbar, M., 10.
- Fuller, A. E., and Hickinbottom, W. J. Chlorination of 2,2,4-trimethylpentane, 147.
- G**
- Gaines, D. F., and Schaffer, R. Studies of boranes. Part VIII. Hexaborane-12, B_6H_{12} , 267.
- Gerdil, R., and Lucken, E. A. C. Radical-anions containing sulphur atoms in a conjugated system, 144.
- Ghosez, L., and Laroche, P. Addition of dichlorocarbene to norbornylene, 90.
- Gibson, M. S., and Murray, A. W. Novel pyrazole synthesis, 345.
- Gillespie, R. J., and Quail, J. W. Iodine oxide pentafluoride, 278.
- Gillies, D. G. See Bourn, A. J. R., 200.
- Glass, D. S., Zirner, J., and Winstein, S. Dienyl and homodienyl 1,5-hydrogen transfer in cyclic trienes and homotrienes, 276.
- Glockling, F., and Hooton, K. A. Organogermanium-phosphorus compounds, 146.
- Gohlke, R. S. See Freedman, H. H., 249.
- Gold, V. Fractionation of hydrogen isotopes between hydrogen ions and water, 141.
- Gold, V., and Lowe, B. M. Ionic product of deuterium oxide and its mixtures with protium oxide, 140.
- Gold, V. See also Feather, J. A., 306.
- Graddon, D. P., and Weeden, D. G. 8-Co-ordinate compound of zinc(II), 247.
- Graham, C. L., McQuillin, F. J., and Simpson, P. L. Alkylation with benzyloxymethyl chloride. Factors influencing stereoselectivity in alkylation, 136.
- Grednic, D., and Korpar-Colig, B. Acetylacetone as a neutral ligand: dioxobis(acetylacetone)molybdenum(IV), 308.
- Green, M. Reaction of bicyclo[2,2,1]heptadiene with methylphosphorous dichloride, 177.
- Greenwood, J. M., Qureshi, I. H., and Sutherland, J. K. A readily reversible transannular reaction in the caryophyllene series, 372.
- Greenwood, N. N., and Morris, J. H. Novel synthesis of the $\text{B}_{12}\text{H}_{12}^{2-}$ anion, 338.
- Gregg, S. J. See Breakspere, R. J., 304.
- Gross, J. M. See Blandamer, M. J., 147.
- Groth, P., and Hassel, O. Crystal and molecular structure of cyclohexane-1,4-dione, 218.
- Gubler, B. See Dobler, M., 383.
- Guthrie, R. D., Murphy, D., Buss, D. H., Hough, L., and Richardson, A. C. Aziridino-derivatives of carbohydrates, 84.
- Guttmann, S. See Anbar, M., 10.
- H**
- Hale, J. D., Izatt, R. M., and Christensen, J. J. Heat of ionisation of water, 240.
- Hall, D., and Holland, R. V. Structure of potassium tetranitromercurate(II) nitrate, 204.
- Hall, D. See also Cheeseman, T. P., 379.
- Halsall, T. G., Jones, E. R. H., and Lowe, G. Molecular formula of cephalosporin P, 16.
- Hammond, G. S., and Hardham, W. M. Mechanisms of photoreactions in solution. Part XV. Photosensitised addition of maleic anhydride to benzene, 63.
- Hanson, A. W. Crystal structure of dihydro- β -erythro-idine hydrobromide, 52.
- Hanson, J. R. See Cross, B. E., 17.
- Hardham, W. M. See Hammond, G. S., 63.
- Hardy, C. J. See Field, B. O., 11.
- Hardy, D. G. See Bentley, K. W., 220.
- Harley-Mason, J., and Tims, J. C. W. An aliphatic "diazocyanide," 345.
- Harris, M. See Henderson, R., 269.
- Harrison, J. W. See Eyre, D. H., 271.
- Hassel, O. See Groth, P., 218.
- Hathaway, B. J., and Webster, D. E. Trimethyltin tetrafluoroborate: infrared evidence of a covalently bonded tetrafluoroborate anion, 14.
- Hathaway, B. J. See Okawara, R., 13.
- Haynes, L. J., Stuart, K. L., Barton, D. H. R., and Kirby, G. W. Constitution of crotonosine, 280.
- Henderson, R., McCrindle, R., Overton, K. H., Harris, M., and Turner, D. W. Constitution of nimbin, 269.
- Hesse, R. H. See Barton, D. H. R., 267.
- Heyes, J. See Brooke, G. M., 94, 213.
- Hickinbottom, W. J. See Fuller, A. E., 147.
- Hill, J., Hough, L., and Richardson, A. C. Replacement of methanesulphonyloxy-groups: the conversion of the *D*-gluco- into the *D*-galacto-configuration, 314.
- Hill, J., Hough, L., and Richardson, A. C. Replacement of methanesulphonyloxy-groups: the conversion of the *D*-gluco- into the *D*-galacto-configuration, 346.
- Hill, J. See also Iriarte, J., 114.
- Hiraga, K. See Miki, T., 139.
- Hirst, M. See Battersby, A. R., 268.
- Hofmann, J. E. See Wallace, T. J., 137.
- Holland, R. V. See Hall, D., 204.
- Holloway, J. H. See Edwards, A. J., 275.
- Holmes, J. M., Peacock, R. D., and Tatlow, J. C. Some fluoroaromatic derivatives of tin, 108.
- Homer, R. B., Moodie, R. B., and Rydon, H. N. Mechanism of the removal of the *N*-benzyloxycarbonyl group by the action of hydrogen bromide, 367.
- Hooton, K. A. See Glockling, F., 146.
- Hough, L. See Guthrie, R. D., 84., and Hill, J., 314, 346.
- Hughes, G. See Dobson, G., 109.
- Hulme, R., and Symons, M. C. R. Hexamethylbenzene cation, 241.
- Hunter, T. F. See Cottrell, T. L., 272.
- Hutton, E. See Stevens, B., 62.
- I**
- Iriarte, J., Hill, J., Schaffner, K., and Jeger, O. Photochemical decarbonylation of a homoallylic conjugated aldehyde, 114.
- Izatt, R. M. See Hale, J. D., 240.
- J**
- Jackman, L. M. See Badger, G. M., 206.
- Jackson, A. H. See Abraham, R. J., 134.
- Jackson, E. See Featherstone, W., 175.
- Jackson, J. B. See Block, H., 381.
- Jackson, J. M. See Brennan, D., 375.
- Jefford, C. W. Bicyclo[3,2,1]octan-3-one, 64.
- Jeffrey, G. A. See Stephenson, N. C., 173.
- Jeffreys, J. A. D., Sim, G. A., Burnell, R. H., Taylor, W. I., Corbett, R. E., Murray, J., and Sweetman, B. J. Perloline, 171.
- Jeger, O. See Iriarte, J., 114.
- Jenkins, D. R. See Ebsworth, E. A., 21.
- Jenkins, J. M., and Shaw, B. L. Nuclear magnetic resonance method of determining the stereochemistry of tertiary-phosphine-metal complexes 279

- Johnson, A. W. See **Dolphin**, D. H., 311.
 Jones, D. W. See **Cookson**, R. C., 115.
 Jones, E. R. H. See **Halsall**, T. G., 16.
 Jones, T. P. See **Baughan**, E. C., 274.

K

- Kane, V. V. See **Eggers**, S. H., 248.
 Keene, J. P. See **Baxendale**, J. H., 242.
 Kenner, G. W. See **Abraham**, R. J., 134.
 Kent, P. W., **Robson**, F. O., and **Welch**, V. A. Formation of isomeric bromohexosyl fluorides from 3,4,6-tri-*O*-acetyl- α -glucal, 24.
 Kilbourn, B. T., **Powell**, H. M., and **Darbyshire**, J. A. C. Green form of bis(benzylidiphenylphosphine)dibromonickel(II): an interallogal compound, 207.
 Kirby, G. W. See **Haynes**, L. J., 280, and **Barton**, D. H. R., 203, 267.
 Kohnstam, G. See **Featherstone**, W., 175.
 Kolker, P. L., and **Waters**, W. A. Electron spin resonance spectra of some nitrobenzene radical-anions, 55.
 Kooyman, E. C., **Louw**, R., and **de Tonkelaar**, W. A. M. Thermolysis of allyl cyanoacetate; catalysis in the vapour phase, 66.
 Korpar-Čollić, B. See **Grdenić**, D., 308.
 Kovács, O., **Schneider**, G., and **Láng**, L. K. Solvolysis of 2-hydroxymethylcyclohexanol derivatives, 374.
 Kresge, A. J., and **Brennan**, J. F. A large primary hydrogen isotope effect in the mercuriation of benzene, 215.

L

- Lagowski, J. M., **Forrest**, H. S., and **Wood**, H. C. S. Unambiguous synthesis of a 2-amino-4-hydroxy-6-polyhydroxyalkylpteridine, 343.
 Lamchen, M., and **Mittag**, T. Oxidative dimerisation of 2,3-dihydrohexamethylpyrazine, 302.
 Landor, P. D. See **Baker**, C. S. L., 340.
 Landor, S. R. See **Baker**, C. S. L., 340, and **Black**, D. K., 183.
 Láng, L. K. See **Kovács**, O., 374.
 Lappert, M. F., and **Majumdar**, M. K. Three co-ordinate boron-nitrogen four-membered ring system, 88.
 Larkworthy, L. F. See **Earnshaw**, A., 281.
 Laroche, P. See **Ghosez**, L., 90.
 Larsson, K. Crystal structure of the β -form of triglycerides, 87.
 Lawrie, W. See **Battersby**, A. R., 369.
 Leach, H. F. See **Breakspere**, R. J., 504.
 Leisten, J. A., and **Walton**, P. R. Re-examination of 1,6-diphenylhexatriene in sulphuric acid, 60.
 Levchuk, L. E. See **Bartlett**, N., 342.
 Levinson, A. S. See **Meyer**, W. L., 15.
 Lewis, J. R. Biogenetic type syntheses of the xanthone nucleus, 373.
 Lewis, J. W., and **Lynch**, P. P. Hydrogenolysis of enamines to alkenes, 19.
 Linnett, J. W. See **Empedocles**, P. B., 303.
 Lloyd, R. A. See **Bowen**, E. J., 305.
 Loudon, J. D., and **Smith**, D. M. Abnormal nucleophilic substitution of 3-nitrobenzylidene chlorides, 182.
 Louw, R. See **Kooyman**, E. C., 66.
 Lowe, B. M. See **Gold**, V., 140.
 Lowe, G. See **Eggers**, S. H., 248, and **Halsall**, T. G., 16.
 Lown, J. W. Evidence of electron-exchange between the triphenylmethyl radical cation in solution, 283.
 Lucken, E. A. C. See **Gerdil**, R., 144.
 Lynch, P. P. See **Lewis**, J. W., 19.
 Lythgoe, B. See **Eyre**, D. H., 271.

M

- Maassen van der Brink, W. See **Beyerman**, H. C., 266.
 McCaffery, A. J., and **Mason**, S. F. Absolute configuration of metal complexes from the optical rotatory power of the ligand transitions, 211.
 McCaldin, D. J. See **Battersby**, A. R., 203.

- McCrindle, R. See **Henderson**, R., 269.
 McDonald, T. R. R., and **McDonald**, W. S. Crystal and molecular structure of [Ph-Al-N-Ph], 382.
 McDonald, W. S. See **McDonald**, T. R. R., 382.
 McGhie, J. F. See **Barton**, D. H. R., 170.
 Mackor, E. L. See **de Boer**, E., 23.
 McLauchlin, K. A. See **Buckingham**, A. D., 144.
 Maclean, I. R. See **Doyle**, P., 239.
 McPhail, A. T. See **Asher**, J. D. M., 210.
 McQuillen, F. J. See **Graham**, C. L., 136.
 Maher, J. P., and **Evans**, D. F. Long-range thallium-proton spin-spin coupling constants, 176.
 Majumdar, M. K. See **Lappert**, M. F., 88.
 Marlow, W. See **ApSimon**, J. W., 313.
 Mason, R. See **Bailey**, N. A., 180, **Bennett**, M. J., 273, and **Churchill**, M. R., 112, 365.
 Mason, S. F., **Schofield**, K., and **Wells**, R. J. Stereochemistry of 1-oxoquinolizidine, 337.
 Mason, S. F. See also **McCaffery**, A. J., 211.
 Massey, A. G., **Park**, A. J., and **Stone**, F. G. A. Tris(pentafluorophenyl)boron, 212.
 Mathew, C. T., and **Dutta**, P. C. Stereoselective synthesis of (\pm)-dehydrodeisopropylabiatic acid, 135.
 Maynard, J. A., and **Swan**, J. M. 2-Halogenoalkylphosphonic acids: a new class of phosphorylating agents, 61.
 Mays, M. J. See **Ebsworth**, E. A. V., 21.
 Mazhat-ul-Haque. See **Rogers**, D., 92, 371.
 Meyer, W. L., and **Levinson**, A. S. Photolysis of 1,1-dimethyl-*trans*-decalin-10-carbonyl azide: an analogue of the A/B/E rings of diterpenoid alkaloids, 15.
 Meyers, M. B. Direct oxidation of *cis*-4-hydroxycinnamic acid to umbelliferone, 243.
 Melson, G. A., and **Busch**, D. H. Cyclic tetramerisation of *o*-aminobenzaldehyde in the presence of metal ions, 223.
 Miki, T., **Hiraga**, K., and **Asako**, T. An improved synthesis of terogens, 139.
 Millar, I. T., and **Wilson**, K. V. Dehydration of dimethylphenanthrene-9,10-diol: a new route to quinodimethanes, 217.
 Mills, H. H., and **Speakman**, J. C. A. A short hydrogen bond in a basic salt, 216.
 Mills, O. S. See **Dodge**, R. P., 380.
 Mittag, T. See **Lamchen**, M., 302.
 Moodie, R. B. See **Homer**, R. V., 367.
 Morris, J. H. See **Greenwood**, N. N., 338.
 Morris, M. P. See **Finnegan**, R. A., 182.
 Morton, J. R. See **Falconer**, W. E., 95.
 Moule, D. C. See **Brand**, J. C. D., 307.
 Moyle, M. See **Craig**, J. C., 56.
 Mueller, W. H. See **Finnegan**, R. A., 182.
 Murphy, D. See **Guthrie**, R. D., 84.
 Murray, A. W. See **Gibson**, M. S., 345.
 Murray, J. (the late). See **Jeffreys**, J. A. D., 171.
 Musgrave, W. K. R. See **Brooke**, G. M., 94, 213.

N

- Nicholson, J. K., and **Shaw**, B. L. Hydrogen-transfer catalysed by some Group VII metal complexes, 282.
 Nicol, M. J., and **Rosseinsky**, D. R. Kinetic measurement for fast cation-cation oxidations in solution, 16.
 Norman, R. O. C. See **Dixon**, W. T., 97.
 Nyholm, R. S., and **Vrieze**, K. Complexes containing rhodium-mercury bonds, 138.
 Nye, M. J. See **Cookson**, R. C., 129.

O

- O'Brien, R. J. Crystal structure of trimethyltin fluoride, 85.
 O'Brien, R. J. See also **Clark**, H. C., 113.
 Okawara, R., **Hathaway**, B. J., and **Webster**, D. E. Trimethyltin salts: infrared evidence for the non-existence of the trimethyltin cation, 13.
 Ollis, W. D. See **Dyke**, S. F., 179.
 Overend, W. G. See **Ferrier**, R. J., 133.

Overton, K. H. See **Henderson**, R., 269.

Owen, N. L., and **Sheppard**, N. (Lone-pair)-(lone-pair) repulsion and molecular configurations; rotational isomerism in methyl vinyl ether, carboxylic esters, and nitrites, 264.

P

Padilla, O. J. See **Dobler**, M., 383.

Park, A. J. See **Massey**, A. G., 212.

Parker, W. See **Doyle**, P., 239.

Parry, G. V. See **Battersby**, A. R., 369.

Patel, K. S. See **Earnshaw**, A., 281.

Peace, R. See **Crombie**, L., 246.

Peacock, R. D. See **Edwards**, A. J., 275, and **Holmes**, J. M., 108.

Penfold, B. R. See **Robinson**, W. T., 116.

Peover, M. E. Study of organic molecular complexes by polarography, 167.

Phipps, P. B. P. See **Brateman**, P. S., 12.

Pierce, S. B. See **Alexakos**, L. G., 341.

Pitha, J., **Sicher**, J., **Šipoš**, F., **Tichý**, M., and **Vašičková**, S. Conformational equilibria in *trans*-2-aminocyclohexanol and *trans*-cyclohexane-1,2-diol, 301.

Pobiner, H. See **Wallace**, T. J., 137.

Poř, A. J. See **Basolo**, F., 366.

Poller, R. C. Red compound formed in the colorimetric determination of tin and some related compounds, 312.

Powell, H. M. See **Kilbourn**, B. T., 207.

Q

Quail, J. W. See **Gillespie**, R. J., 278.

Qureshi, I. H. See **Greenwood**, J. M., 372.

R

Raap, R. See **Crawford**, R. J., 370.

Rafferty, G. A. (Mrs.). See **Ferrier**, R. J., 133.

Ramuz, H. See **Battersby**, A. R., 203.

Randall, E. W. See **Bourne**, A. J. R., 200.

Raphael, R. A. See **Doyle**, P., 239.

Read, A. W. See **Cottrell**, T. L., 272.

Redman, E. See **Everett**, D. H., 91.

Reid, S. T. See **de Mayo**, P., 54.

Reuben, J., **Samuel**, D., **Selig**, H., and **Shamir**, J. ^{17}O -Nuclear magnetic study of xenic acid, 270.

Richards, R. E., and **White**, J. W. High-resolution electron-nuclear double-resonance spectra of solutions of a free radical, 201.

Richardson, A. C. Stereospecific synthesis of desosamine hydrochloride, 131.

Richardson, A. C. See also **Guthrie**, R. D., 84, and **Hill**, J., 314, 346.

Ridd, J. H. See **Banthorpe**, D. V., 225.

Robertson, J. M. See **Asher**, J. D. M., 210.

Robinson, W. T., **Ferguson**, J. E., and **Penfold**, B. R. Configuration of the anion in CsReCl_4 , 116.

Robson, E., and **Tedder**, J. M. Nitrosoacetylenes, 13.

Robson, E., and **Tedder**, J. M. An acetylenic diazonium salt, 344.

Robson, F. O. See **Kent**, P. W., 24.

Rogers, D., and **Mazhar-ul-Haque**. Structure of bromoisotenulin, 92.

Rogers, D., and **Mazhar-ul-Haque**. Molecular and crystal structure of caryophyllene chlorohydrin, 371.

Rona, P. See **Anbar**, M., 244.

Rosseinsky, D. R. See **Nicol**, M. J., 16.

Rowan, T., and **Wood**, I. C. S. Biosynthesis of riboflavin, 21.

Rutledge, P. S. See **Cross**, B. E., 17.

Rydon, H. N. See **Homer**, R. B., 367.

S

Sainsbury, M. F. See **Dyke**, S. F., 179.

Samuel, D. See **Reuben**, J., 270.

Sargent, F. P. See **Ayscough**, P. B., 94.

Satchell, D. P. N., and **Wardell**, J. L. Novel spectra and some sterically uncomplicated basicities for metal halide-nitrogen base equilibria, 86.

Schaeffer, R. See **Gaines**, D. F., 267.

Schaffner, K. See **Iriarte**, J., 114.

Schneider, G. See **Kovács**, O., 374.

Schofield, K. See **Mason**, S. F., 337.

Schomaker, V. See **Dodge**, R. P., 380.

Schriesheim, A. See **Wallace**, T. J., 137.

Scrowston, R. M. See **Eyre**, F. H., 271.

Selig, H. See **Reuben**, J., 270.

Shamir, J. See **Reuben**, J., 270.

Shaw, B. L. See **Jenkins**, J. M., 279, and **Nicholson**, J. K., 282.

Shelton, B. See **Angyal**, S. J., 57.

Sheppard, N. See **Owen**, N. L., 264.

Sheridan, J. See **Stiefvater**, O. L., 368.

Sicher, J. See **Pitha**, J., 301, and **Zaváda**, J., 96.

Silverton, J. V. See **Asher**, J. D. M., 210.

Sim, G. A. See **Asher**, J. D. M., 210, and **Jeffreys**, J. A. D., 171.

Sim, K. Y. See **ApSimon**, J. W., 209, 313.

Simpson, P. L. See **Graham**, C. L., 136.

Šipoš, F. See **Pitha**, J., 301.

Sklar, R. See **Badger**, G. M., 206.

Smith, D. M. See **Loudon**, J. D., 182.

Smyth, J. See **Elmore**, D. T., 18.

Snaith, R. W. See **Acheson**, R. M., 344.

Speakman, J. C. See **Mills**, H. H., 216.

Spotswood, T. M. See **Clark-Lewis**, J. W., 20.

Stacey, M. See **Foster**, A. B., 279.

Staunton, J. See **Battersby**, A. R., 268.

Steglich, W. See **Barton**, D. H. R., 203.

Stephenson, N. C., and **Jeffrey**, G. A. Six-co-ordinate complexes of bivalent platinum and nickel, 173.

Stern, E. W. Reaction of olefin-palladium(II) chloride complexes with nucleophiles: mechanistic considerations, 111.

Stevens, B., **Walker**, M. S., and **Hutton**, E. Delayed fluorescence in aromatic hydrocarbon vapours, 62.

Stevens, B., and **Walker**, M. S. Phosphorescence and delayed fluorescence lifetimes of pyrene in liquid paraffin, 181.

Steward, O. W. See **Eaborn**, C., 59.

Stiefvater, O. L., and **Sheridan**, J. Microwave spectrum and barrier to internal rotation in acetylene, 368.

Stone, F. G. A. See **Massey**, A. G., 212, and **Wilford**, J. B., 218.

Stoodley, L. G. See **Baughan**, E. C., 274.

Stuart, K. L. See **Haynes**, L. J., 280.

Sugden, T. M. See **Ebsworth**, E. A., 21.

Suhadolnik, R. J., **Fischer**, A. G., **Zulalian**, J. Biogenesis of the Amaryllidaceae alkaloids. Part III. Phenylalanine and protocatechic aldehyde as C_6 - C_1 precursors of haemanthamine and lycorine, 132.

Suhadolnik, R. J., and **Zulalian**, J. Biosynthesis of the Amaryllidaceae alkaloids. Part IV. Incorporation of cinnamic, *p*-coumaric, and caffeic acids into haemanthamine and lycorine, 216.

Sutherland, J. K. See **Greenwood**, J. M., 372.

Swan, J. M. See **Maynard**, J. A., 61.

Sweetman, B. J. See **Jeffreys**, J. A. D., 171.

Symons, M. C. R. See **Atkins**, P. W., 222, **Blandamer**, M. J., 147, and **Hulme**, R., 241.

T

Tardella, P. A. See **Di Maio**, G., 224.

Tatlow, J. C. See **Holmes**, J. M., 108.

Taylor, W. I. See **Jeffreys**, J. A. D., 171.

Tedder, J. M. Nitrosoacetylenes, 13.

Tedder, J. M. See also **Robson**, E., 344.

Thomas, G. M. See **Barton**, D. H. R., 203.

Thomson, R. H., and **Wylie**, A. G. Persulphate oxidation of carboxylic acids: a new rearrangement, 65.

Thynne, J. C. J. Reactions of methyl radicals with primary amines, 145.

Tichý, M. See **Pitha**, J., 301.

Tims, J. C. W. See **Harley-Mason**, J., 345.

Tittle, B. See **Cady**, G. H., 65.

Tréichel, P. M. See **Wilford**, J. B., 218.

Trevalion, P. A. See **Atkins**, P. W., 222.

Trippett, S. Thermal decomposition of alkyltriphenylphosphonium alkoxides, 19.

Trotter, J. Crystal structure of trimethyltin fluoride, 85.

Tsutsui, M., and **Levy**, M. N. Elemental organic compounds. Part VII. A bridged bisbenzenechromium π -complex, 117.

Tuck, D. G., and **Woodhouse**, E. J. Tetramethyl- and tetraethyl-ammonium hydrogen dibromide, 53.

Tucker, B. G., and **Whittle**, E. Trifluoroacetyl radical, 93.

Turner, D. W. See **Henderson**, R., 269.

Tyrrell, J. See **Brand**, J. C. D., 307.

U

Usher, D. A. See **Brown**, D. M., 309.

V

Vašičková, S. See **Piřha**, J., 301.

von Mutzenbecher, G. See **Djerassi**, C., 377.

Vrieze, K. See **Nyholm**, R. S., 138.

W

Wakefield, B. J. See **Bryce-Smith**, D., 219, 376.

Walker, M. S. See **Stevens**, B., 62, 181.

Wall, H. M. See **Ferrier**, R. J., 133.

Wallace, T. J., **Pobiner**, H., **Hofmann**, J. E., and **Schriesheim**, A. Reactions of sulphur carbanions, 137.

Wallis, S. R. See **Cookson**, R. C., 58.

Walton, P. R. See **Leisten**, J. A., 60.

Wanders, A. C. M., and **Cerfontain**, H. Isomerisation of toluenesulphonic acids in aqueous sulphuric acid, 174.

Ward, E. R. Hazards in the treatment of carbon halides with sodium, 15.

Wardell, J. L. See **Satchell**, D. P. N., 86.

Warren, S. G. See **Clark**, V. M., 178.

Waters, T. N. See **Cheeseman**, T. P., 379.

Waters, W. A. See **Kolker**, P. L., 55.

Webber, J. M. See **Foster**, A. B., 279.

Weber, H. P. See **Dobler**, M., 383.

Webster, B. R. See **Battersby**, A. R., 369.

Webster, D. E. See **Hathaway**, B. J., 14, and **Okawara**, R., 13.

Weeden, D. G. See **Graddon**, D. P., 247.

Weiss, U. See **Batterham**, T. J., 89.

Welch, V. A. See **Kent**, P. W., 24.

Wells, R. J. See **Mason**, S. F., 337.

Wenkert, E. See **Badger**, G. M., 206.

Wenzinger, G. R., and **Boekelheide**, V. Absolute configurations of the α - and β -erythroidines, 53.

Westwood, J. H. See **Foster**, A. B., 279.

Whalley, W. B. See **ApSimon**, J. W., 209, 313.

White, J. W. See **Richards**, R. E., 201.

Whitehurst, J. S. See **Crispin**, D. J., 22.

Whiting, M. C. See **Carr**, M. D., 333.

Whittle, E. See **Tucker**, B. G., 93.

Wildman, W. See **Archer**, D. A., 168.

Wilford, J. B., **Treichel**, P. M., and **Stone**, F. G. A. Addition of organomanganese pentacarbonyls to fluoro-olefins, 218.

Williams, L. R. See **Clark-Lewis**, J. W., 20.

Williams, N. R. See **Ferrier**, R. J., 133.

Williams, R. E. See **Büchi**, G., 214.

Williams, R. J. P. See **Braterman**, P. S., 12.

Wilson, K. V. See **Millar**, I. T., 217.

Winstein, S. See **Glass**, D. S., 276.

Wood, H. C. S. See **Lagowski**, J. M., 343, and **Rowan**, T., 21.

Woodhouse, E. J. See **Tuck**, D. G., 53.

Wylie, A. G. See **Thomson**, R. H., 65.

Wynne-Jones, W. F. K. See **Beck**, W. H., 110.

Y

Yip, R. W. See **de Mayo**, P., 54.

Z

Závada, J., and **Sicher**, J. Preferred formation of the *cis*-olefin in bimolecular elimination, 96.

Zirner, J. See **Glass**, D. S., 276.

Zulalian, J. See **Suhadolnik**, R. J., 132, 216.