

Proceedings of the Royal Society of London

The Proceedings of the Royal Society started by publishing abstracts of the Philosophical Transactions and then became a separate journal.

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Farquharson J Experiments on the influence of the aurora borealis on the magnetic needle. PRS 2 1830 p. 391-2

WHF Talbot. Experiments on light PRS 3 1834 298, 455-456 [rs papers]

Herschel JFW On the Art of Photography: or the application of the chemical rays of light to the purpose of pictorial representation. PRS 4 1839 p131 [ger 560]

WHF Talbot Some account of the art of photogenic drawing... PRS 4 1839 120 – 1, 124-6, 134, 312-316 [rs papers/biog/barom p318/boni p 259] imp

F Baily PRS 4 1837 pp1-3 [barom p218 etc]

SB Howlett PRS 4 1839 p 133 [barom p251]

McCormick R Geological remarks on Kerguelen's Land. PRS 4 1841 299 [ant p. 444]

JOULE. Proceedings of the Royal Society Dec. 17, 1840 [Sp.87]

C Wheatstone Description of the Electro-Magnetic Clock PRS 1840 [ron]

Joule PRS 1843 4 280 [part 689]

Talbot WHF An account of some recent improvements in photography PRS 4 1841 312-6 [boni p 259]

Waterston. On the Physics of Media that are composed of free and perfectly elastic molecules in a state of motion. Proc. Roy. Soc., vol. 5, p.604, 1846 [Lindsay/19th p224] . [theory of gases, reproduced by Rayleigh in PT A183 1893].

PM Roget. Address by Dr Roget. PRS 5 1851 p 703-4 [roget biog book p 348]

E Frankland. On a new series of organic bodies containing metals PRS 1850-4 6 pp222-5 [class papes chem II]

W Fox Talbot PRS 6 1851 82 [ger 559/rs papers/boni p 259]

Rosse. Presidential address [Babbage ref]. Proc. Roy. Soc. 7, 1854-5, pp. 248-258 [randellp.507/cor p 89]

GARCIA, MPR. Observations on the human voice. Proceedings of the Royal Society, 1854-5, 7, 399-410. [g3329m/Norman offering Phil Mag repro at \$750!]

Kekule PRS 1854 7 37 [part534/kekule biog file]

GG Stokes et al. Report of a committee appointed by.. Proc. Roy. Soc. 7, pp. 499-508 1855. [randellp.513;ok]

W Thomson Dynamical illustrations of the magnetic and helicoidal.. PRS 7 1856 150-8 [dsb]

E Forbes Note on an indication of Depth of Primaeval seas... PRS 7 1854-5, 21-3 [reh p259]

J Davy. Some observations on the ova of the Salmon in relation to the distribution of species. PRS 7 1854-55 p 363-8 [cd p 121] this one rather than vol 8?

C Wheatstone An account of some experiments made with the submarine cable.. PRS 1855 [ron]

Perkin & Church On some new Colouring Matters submitted to PRS Feb 1856 [mauve – Simon Garfield p 28]

J Davy On the vitality of the ova of the Salmon.. PRS 8 1856-7 27-33 [cd p 121] see vol 7

W Thomson On Peristaltic Induction of Electric Currents PRS 8 1856-7 p 124 [term: 'Green's Theorem – enu]

W. Thomson. Proc Roy. Soc. Vol. 8, 1856, pp. 150-8. [obipxvi]

Smith Inquiries into the quantity of air.. Proc Roy Soc 8 1857 451-4 (DSB 12 467b)

Lister On the early stages of inflammation. PRS 8 1857 581-587 [dsb8]

W Crookes On the photography of the moon. PRS 8 1856-7 pp. 363-71 [rs papers, dsb]

Faraday. On the conservation of force. PRS 1857 [yeh] also publ. in Phil Mag 1857

LISTER, J. Preliminary account of an Inquiry into the Functions of the Visceral Nerves. 9 1858 [norm/dsb]

Hofmann PRS 9 1858 594: 1860, 495 [part769] tog with AC 1858?

Smith Inquiries into the phenomena.. PRS 9 1858 611-4 (DSB 12 467)

Gassiot On the electrical Discharge in vacuo PRS 10 1860 36-7 [dsb] also 269-274

Babbage. Observations on the Discovery in Various Localities of the Remains of Human Art.. PRS 10 1860 59-72 [oc78]

Fitzroy R Storms PRS 10 1859-60 222-4, 561-7

Hopkins T On the forces that produce the great currents of the air and of the ocean. PRS 10 1859-60 235 [bro]

Williams CG On isoprene and caoutchine PRS 10 1859-60 516-9 [see Oliver 'A history of American Technology' – synthetic rubber history]

J Thomson PRS 1861 11 473 [part612]

Matthiesson On the conducting power.. PRS 11 1860-2 126-131 [DSB 9 178a]

Roscoe PRS 1862 12 648 [part 721]

Galton, F. A development of the theory of cyclones. Proceedings of the Royal Society 12, 1863, pp 385-6 [forrestp323/shaw p312] name anticyclone

LISTER, J. Croonian On the coagulation of the blood. Proceedings of the Royal Society, (1862) 1863, 12, 580-611. [g871m;norm/dsb/Chaucer head cat 46 signed offprint at £280]

Graham PRS 1863 12 620-3 [part270/dsb]

PHILLIPS, J. On the telescopic appearance of the planet Mars. Proceedings of the Royal Society, 1863, 12, pp. 431-437.

Crookes PRS 1862 12 150 [part883]

Sorby Bakerian lecture PRS 12 1863 538-550 [DSB 12 545]

Gassiot Experimental investigations.. PRS 12 1863 329-340 [dsb]

Kirkman Application of the theory of ployedra PRS 12 1862-3 341-380 [dsb]

Weber WE Boole George On the differential equations of dynamics PRS 12 1863 pp 421-4 [ABE \$250 part in wrappers]

G Boole. On the integration of simultaneous differential equations PRS 12 1862-3 13-16, 179-184 [rs papers]

Stokes GG On the reduction and oxidation of the colouring matter of the blood. PRS 1864 **13** 144? 355-364?[part862/chrome p 390]

STOKES, GG. On the reduction and oxidation of the colouring matter of the blood Proceedings of the Royal Society, 1863-4, **13**, 355-64. [g872m/tim/Medical History vol. 16 1972 p. 62]

Wood, J. Variations in human mycology. PRS 13 1864 303 [epo]

Harcourt & Esson Proc Roy Soc 1865 **14** 470-5 [part585 - law of mass action/DSB IV 411b]

Dodgson CL Condensation of determinants, being a new.. (Lewis Carrol) PRS **15** 1867 149? 150-5 first paper on determinants [DSB IV 137a/rs papers/bibliog. p. 97]

Roscoe & Baxendall PRS 1867 **15** 20 [part 721]

Sorby On a definite method of PRS **15** 1867 433-456 [DSB12 545]

W Thomson. On a self-acting apparatus.. PRS June 20 1867 [Lord Kelvin's water machine - see Disc File II, Electrostatic Machines]

On the Calculation of the Numerical Value of Euler's Constant... PRS 15 1868 429-432 [term 'Euler-Macheroni Constant' - enu]

W Shanks. Maths PRS 15 1867 p 431 [caj p32]

JC Maxwell. On Govenors PRS **16** 1868 pp271-283 [scientia cat 35/Nigel Phillips cat 27 june 2002 vol 16 at £225/oc337] imp - inaugural paper of automatic control theory - cybernetics

G Johnstone Stoney. On the physical constitution of the sun and stars. PRS **16** no 94 1867 pp25-34 issue no at \$150 Jeff Weber

Graham. On the Occlusion of Hydrogen gas by metals PRS **16** 1868 422

PRS vol 16 1867-8 p 521 [epo p 228]

Lockyer PRS 1868 **17** 91 [part917] disc helium

WB Carpenter Preliminary report of dredging operations.. PRS **17** 1868-9 pp 168-200 [sea p329/par 370/ant p 423]

WA Miller Note upon a self-registering thermometer PRS 17 1868-9 482-6 [sea p329]

Jeffreys Carpenter Wyville Thompson Preliminary report of the scientific exploration of the deep sea.. PRS 18 1870 397-492 [sea p329]

Waller On the results of the method.. PRS **18** 1869-1870 339-343 Croonian [dsb/neurol p 98]

Proctor On certain drifting motions of the stars PRS **18** 1870 169-171 [dsb]

WSJevons On the mechanical performance of logical inference PRS 18 1870 166-9 [Phil Trans repro]

Varley PRS 1871 **19** 236 [part929]

F Galton. Experiments in pangenesis, by breeding from rabbits of a pure variety.. PRS **19** 1871 pp 393-410. . [forrp. 324review by D in Nature 1871]

WB Carpenter Report on deep sea researches carried on during.. PRS **19** 1870-1 146-221 [sea p330]

William Siemens On the increases of electrical resistance in conductors.. PRS **19** 1871 443-5 [par 380] platinum resistance thermometer.

JWL Glaisher. Maths PRS **19** 1871 p 515 [caj p32]

AIRY GB. Proceedings of the Royal Society, 1871, **20**, p.35 [wilson p96]
F. Galton. On blood relationship. Proc. Roy. Soc. **20**, 1872, pp394-402 [forrest].
GS Nares Investigations of the currents in the Strait of Gibraltar.. PRS 20 1871-2 pp97-106 [sea p331]
WB Carpenter Report on scientific researches carried on.. PRS **20** 1871-2 pp535-644 [sea p331]

F Galton. On the employment of meteorological statistics.. Proceedings of the Royal Society **21** 1873 pp 263-74 [forrp.323]
Sale. The Action of Light on the Electrical Resistance of Selenium PRS 1873 **21** 283 (disc file)
Lankester ER A contribution to the knowledge of haemoglobin. PRS 21 1872 70-81 [chrome p. 378]

CROOKES, W. Proceedings of the Royal Society, 1874, **22**, 37 [chemsocp18]
OSLER, W. An account of certain organisms occurring in the liquor sanguinis. Proceedings of the Royal Society, 1873, (1874), **22**, 391-98 [g875m]
Galloway PRS 1874 **22** pp441-51; 1876 **24**, 354-72 1879, **28** 410-21, 1881 **32**, 454-5; 1882, **33** 437-45, 1884, **37**, 42-6, 1887, **42** 174-6. [part67]
D Ferrier PRS vol 22 1874 p 229-232 [neurol p. 125/np p. 181]
W Thomson Obit of Archibald Smith PRS 22 1873-4 p vi [term - 'harmonic analysis' - enu]

F Galton. On men of science. PRS 1874 (Weinreb/bloomsb. 110)

Crookes On the Attraction and Repulsion resulting from radiation.. PRS **23** 1874-5 373-378 [dsb]
Foster & Dew Smith On the behaviour of the hearts of molluscs.. PRS **23** 1875 586-594 [dsb]
D Ferrier. Experiments on the brain of monkeys. PRS 23 1875 409-430 [np p 167, 181]

Thomson, W. On an integrating machine having a new kinematic principle PRS 24 1876 [oc382]
THOMSON, W. Mechanical Integration of the Linear Equations of the Second Order with Variable Coefficients. Proceedings of the Royal Society, **24**, 1876, pp. 269-75 [q cat 1232 p47 at £950/ weinreblot223/see oc244, oc382]

Rayleigh. On the Application of the Principle of Reciprocity to Acoustics. Proc. Roy. Soc., **25**, pp. 118-122, 1876 [dsb].
JJ Thomson Experiments on contact electricity PRS **25** 369-372 [T's first paper/ dsb]
Crookes Experimental contributions.. PRS **25** 1876-77 304-314 [dsb]
Tyndall On heat as a germicide when discontinuously applied PRS 25 569 1877 [sig]
Gaskell WH. PRS 25 1876 p 439-445 [neurol p. 131]
Adams WC & Day RE The Actions of light on Selenium PRS 25 1876 113-7 [alt p14]

J Burdon-Sanderson Note on the electromotive properties in muscle. PRS **26** 1877 332-3 [np p 180]
F Galton. Description of the process of verifying thermometers.. Proc. Roy. Soc. **26**, 1877, pp. 84-9 [forr p.335]
DOWNES, AH & BLUNT, TP. Researches on the effect of light upon bacteria.. Proceedings of the Royal Society, 1877, **26**, 488-500. [g1997m]

Rayleigh PRS 1877 **26** p248 [disc file]

Thomson, William. Harmonic analyzer. PRS **27** 1878 371-73 [oc382] imp
HUGHES, DE. May 1878. A communication on the microphone to the Royal
Society, May 1878. Not clear if this is Phil. Trans, or Proc. Roy. Soc.

JC Adams Euler's constant PRS 1878 p 89 [DSB I 54b/caj p 32]

Tyndall J. On Schultze's mode of intercepting the germinal matter of the air PRS 27
1878 99-100 [bul p 302]

J Burdon-Sanderson & F Page. Experimental results relating to the rhythmical and
excitatory motions of the ventricle of the heart... PRS **27** 1878 410 [np p. 180]

Thomson, W. On a machine for the solution of simultaneous equations. PRS 28 1878-
9 111-3 [oc383]

CROOKES, W. Proceedings of the Royal Society, 1879, **28**, 110 [chemsocp18]

JN Langley On the structure of the serous glands in rest and activity PRS **29** 1879 377-
382 [dsb]

F Galton. The geometric mean, in vital and social statistics. PRS **29** 1879 365-7
[forrest/term 'lognormal' - enu]

Gaskell On the tonicity of the heart and arteries PRS **30** 1880 225-7 [dsb]

Schuster On harmonic ratios in the spectra of gases PRS **31** 1881 337-347. Imp paper
acc to DSB 12 238a

Ewing JA On a new sesmograph PRS 31 1881 440-6 [thi p 361]

MACEWEN, W. Observations concerning transplantation of bone. Proceedings of
the Royal Society, 1881, **32**, 232-47. [g 4346.2m]

Rayleigh On the determination of the Ohm.. PRS 32 1881 104-141 [dsb]

Young, J. & Forbes, G. PRS 32 1881 247- [velo p5, 40]

TH Huxley. Darwin obit. Proc. Roy. Soc. 44, 1882 [norm21]

Harley obit of Jevons **35** 1883 i-xii [dsb/econ/biog file]

Thomson JJ On the determination of the number of electrostatic units.. PRS **35** 1883
346-7 [dsb]

Schunck PRS 1884 **36** 183, 285 [part400]

Schuster A Experiments on the discharge of electricity.. Bakerian. 1884 **37** 317-339,
495 [part929/dsb12 p238b]imp

BATESON, William. Note on the Later Stages in the Development of Balanoglossus
Kowalevski (Agassiz)...1884, **38**, pp. 23-30. [DSB]

HORSLEY, VAH. On the function of the Thyroid gland. Proceedings of the Royal
Society, Series B., 1884-5, **38**, 5-7. [g1128m/medvei p 283]

PREECE, W.H. On a Peculiar Behaviour of Glow-Lamps when raised to high
Incandescences. Proceedings of the Royal Society, 1885, **38**, 219-30. [p396m]

THOMAS, JD. Notes upon the Experimental Breeding of Taenia echinococcus in the
Dog from the Echinococci of Man. Proceedings of the Royal Society, 1885, **38**, no.
238, pp. 449-58. [g5347m]

J Hughlings Jackson. Croonian On evolution and dissolution of the nervous system PRS 1884 3-5 [np p 159]

HORSLEY, VAH. On the function of the Thyroid gland. Proceedings of the Royal Society, Series B., 1886, **40**, 6-9. [g1128m/medvei p. 283]

Galton, F. Family likeness in stature. Proceedings of the Royal Society, 1886, no. 242, vol. **40**, pp. 42-73.

Galton, F. Family likeness in eye colour. Proceedings of the Royal Society, 1886, no. 245, vol. **40**, pp. 402-416.

Frankland PF On the multiplication of organisms PRS 40A 1886 526-44 [et p 412]

Joly, J. On a method of condensation in calorimetry PRS 1886 **41** p352 [part288/biog file] imp method see PRS 1889 too

JJ Thomson On the dissociation of some gases by the electric discharge PRS **42** 1887 343-344 [dsb]

JJ Thomson On the rate at which electricity leaks through liquids PRS **42** 1887 410-429 [dsb]

Schuster, A. Experiments on the discharge of electricity.. PRS **42** 1887 371-9 [dsb 12 p238b] see 1884 & 1890

W de W Abney Cumulative Effects of Different Parts of the Spectrum on Silver Salts PRS 42 1886 [pho p1]

Rayleigh On the relative densities of hydrogen and oxygen (preliminary notice). PRS **43** 356-63 1888 [weeks p386/dsb] see vol 50

Newton, ET On the skull, brain and auditory organ of a new species of pterosaurian.. PRS **43** 1888 436-440 [pte]

Huxley, TH Darwin biog PRS **44** 1888 I-xxv [dd p131]

Galton, F. Co-relations and their Measurement, chiefly from Anthropometric Data. Proc. Roy. Soc., 1888, **45**, pp. 135-145. [thorndike in psy/forrest/ term 'correlation' - enu]

Langley & Dickinson. On the local paralysis of peripheral ganglia Proc. Roy. Soc., 1889, **46**, 423-31 (g1329.1m/DSB/neurol p. 145)

Mond & Langer A new Form of Gas Battery. PRS 1889 pp 296-304 [first serious attempt to produce a practical fuel cell - ref review lecture by Bacon & Fry, PRS A334 1973 p 427]

Joly, J. On the steam calorimeter PRS 1889 [biog file] see PRS 1886

Rayleigh PRS 1890 **47**, 364. [part743]

Schuster A. Bakerian. The discharge of electricity through gases PRS 1889 **47** 526-559 [douglas clark p77/dsb12 p 238b] imp see also 1884

Weldon The variations occurring in Certain decapod.. PRS 47 1890 445-453 [dsb]

BURDON-SANDERSEN, JS. Photographic determination of the Time-relations of the Changes which take place in Muscle during the Period of so-called "Latent Stimulation". Proceedings of the Royal Society, 1890, **48**, no. 292, pp. 14-19. [g1284m/np p. 181]

F. Galton. The patterns in thumb and finger marks PRS 48 1890 455-70 [forrest/fp p 214]

GALTON, F. A method of indexing finger-marks. Proceedings of the Royal Society, **49**, 1891, 540-48 [P376M/forest]

Rayleigh On the relative densities of hydrogen and oxygen II PRS **50** 1892 448-463 [dsb]

Weldon On certain correlated variations.. PRS **51** 1892 2-21 [dsb]

HOPKINS, FG. On the estimation of uric acid in the urine.. Proceedings of the Royal Society, Series B., 1892, **52**, pp. 93-98 [g718m]

SHERRINGTON, C. Note on the Knee-Jerk and the Correlation of Action of Antagonistic Muscles. Proceedings of the Royal Society, **52**, pp. 556-565.

SHERRINGTON, C. Further experimental note on the correlation of antagonistic muscles. Proceedings of the Royal Society, **1893**, **53**, pp. 407-20. [g1288.1m].

Dewar PRS 1893 **53** 80 [part905] – solidification of air

Rayleigh Ramsey On the densities of the Principle Gases Proc Roy Soc 1893 **53** 134 [part917/internet ref file] – disc. new gases

JJ Thomson The Electrolysis of steam PRS 53 1893 90-110 [dsb]

Ramon Y Cajal. La fine structure des centres nerveux Croonian. PRS 53 1894 444-468. [dsb]

Weldon On certain correlated variations.. PRS **54** 1893 318-329 [dsb]

FY Edgeworth. The Asymmetrical Probability Curve (Abstract) PRS 1894 [econ]

Rayleigh On an anomaly encountered in determinations of the density of nitrogen gas. PRS **55** 1894 340-4 [part917/internet ref file/dsb] disc new gases

F Galton. Results from the natality tables of Korosi.. PRS **55** 1894 18-23 [forrest]

Y Cajal La fine structure des centres nerveux PRS 55 1894 444-6 [np p. 149]

Dixon & Joly On the Ascent of Sap PRS **57B** 1894 3-5 [abstract of classic paper see Phil Trans 186B 1895 [DSB IV 131b]

Weldon Attempt to measure the death rate PRS 57 1895 360-379 also 379-382 [dsb/mer2 p621]

FW Mott PRS 57 1895 p 481-8 [neurol p 343]

Lockyer prs 1895 **58** 65 [part917] disc helium

W Ramsay PRS **58** 65-7 1895 [leicester198]

JJ Thomson. On the electrolysis of gases PRS **58** 1895 244-257 [dsb]

Rayleigh On some physical properties of Argon and Helium PRS **59** 1896 198-208 [dsb]

JJ Thomson On the discharge of electricity produced by Rontgen rays. PRS **59** 1896 274-6 [dsb]

D Mendeleef. On the weight of a cubic decimeter of water and its maximum density. PRS **59** 1896 143-55

Durham HE On a special action of the serum of highly immunized .. PRS **59** 1896
 224-6 [bul p 342/landsteiner biog file]
 K Pearson. Contributions to the Mathematical Theory of evolution. PRS 59 1896 p 302
 [term 'coefficient of correlation' - enu]

F. Galton Obit of John Rae PRS **60** 1896 5-7 [forrest]
 F. Galton Note to the memoir by Pearson PRS **60** 1896 498-502 [forrest]
 Karl Pearson. Mathematical Contributions to the Theory of Evolution... PRS 60 1897
 489-98 [term 'spurious correlation' - enu]
 GALTON, F. The average contribution of each several ancestor to the total heritage
 of the offspring. Proceedings of the Royal Society, 1897, **61**, 401-13.
 [g239m/carl/forrest314/Antiquariaat de Boer number at \$275]
 Gabriel Lippmann On colour photography by the interferential method PRS **60** 1896
 10-13 [boni p 163] nobel

F. Galton An examination into the registered speeds of American trotting horses,
 PRS **62** 1897 310-5 [forrest]
 Murray, J. The scientific advantages of an Antarctic expedition PRS 62 1898 424-51
 [ant p 446]
 K Pearson & L.N.G. Filon Mathematical Contributions to the Theory of Evolution IV...
 PRS 62 1897-8 p 176 [term 'Random sample' - enu]

PORTER, Proceedings of the Royal Society, 1898, **63**, 347. [g1473m]
 Ramsey & Travers PRS **63** 405, 437 [part918/spron p246] disc. neon, krypton & xenon
 D Mendeleef Experimental investigations on the oscillations of balances. PRS 63 1898
 454-9

Crookes PRS 1899 **65** 237 [part883] claim of new element

Burdon Sanderson Croonian PRS **65** 1900 37-64 [dsb]

Wood Cinematography of sound PRS **A66** 1900 283-290 [dsb]
 Ehrlich P On immunity with special reference to cell life. PRS 1900 66 424-8 [bul p
 342] - see series B

Series A (post 1900)

CROOKES, W. Proceedings of the Royal Society, 1900, **66**, p409

[wilsonp265/weeksp412]/part941

Hardy PRS **66** 95, 110. [part735]

Macfadyen A On the influence of the temperature of liquid air on bacteria PRS **66A**

1900 180-2 [et p 432] see also vol 71

Dewar, J. PRS 68 1901 360 [cryo p 91]

CROOKES, W. Proceedings of the Royal Society, 1902, **69**, 411 [chemsocp21]

Marconi Propagation of electromagnetic impulses.. PRS **70** 1902 344

Crookes PRS 1903 **71** 405 [part943]

Macfadyen A On the influence of the prolonged action of the temperature...on

microorganisms etc PRS **71A** 1902 76-7 [et p 432] also vol 66

RAMSAY & SODDY, Experiments in radioactivity. Proceedings of the Royal Society, 1903, **72**, p.204; (+**73** 346) [wilson p265/part918/douglas clark p97] disc. radium emanation

Rayleigh On the Bending of Waves Round a Spherical Obstacle PRS **72** 1903 401-441 [dsb]

Trouton & Noble Forces acting on a charged condenser PRS **72** 1903 132-3 [dsb]

RAMSAY & SODDY, Proceedings of the Royal Society, 1904, **73**, p.341 [wilson p265]

Ramsay & Collie PRS 1904 **73** 470 [part941]

Fleming PRS 74 1905 [fess]

Rayleigh on stokes PRS **75** 1905 199-216 [dsb 13 p79]

Hahn. Proc RS **76A** 1904 pp115-7 1905 [weeksp412]

J Dewar PRS **76** 1905 p325 [sub p 400]

Lyons HG On the relations atmospheric pressure and Nile flood.. PRS **76A** 1905 p66 [cli p 340]

RUTHERFORD - Neutrons PMM 1904

RUTHERFORD & SODDY 1902 & 1904. Atomic disintegration.

FLEMING, JA. On the conversion of Electric Oscillations into Continuous Currents by means of a vacuum valve. Proceedings of the Royal Society, **1905**. [p396m]

CG BARKLA Proc. Roy. Soc **77**, p247, 1906 [wilsonp219/DSB]

Trouton Coefficient of viscous traction PRS **77A** 1906 292-314, 426-440 [dsb]

N Lockyer On the observations of Stars made in some British stone Circles Second Note PRS **77A** 1906 p468 [shaw p 52]

WJS Lockyer Barometric variations of long duration.. PRS **78A** 1906 p 43 [shaw p 279]

Aston Experiments on the length of the Cathode Dark Space PRS **79A** 1907 80-95 [dsb]
 Trouton Condensation of water vapour.. PRS **79A** 1907 383-390 [dsb]

CROOKES, W. Proceedings of the Royal Society, A, 1908, **80**, p 535 [chemsocp25]
 Aston Experiments on a new cathode dark space PRS **80A** 1908 45-49 [dsb]
 Trouton Electrical resistances in moving matter PRS **80A** 1908 420-435 [dsb]
 Ayrton, H. On the non-periodic or residual motion.. PRS **80A** 1908 252-260 [dsb 17]

RUTHERFORD, E. & GEIGER, H. An electrical method of counting the number of a-
 particles from Radio-active substances. Proceedings of the Royal Society, Series A,
 1908, **81**, pp141-77 [qp38/73] + following articles: the charge and nature of the alpha
 particle p.162-/Geiger: on the scattering of the alpha particles p. 174-
 [part943/douglas clark p97]

Geiger The ionisation produced by an alpha particle. Part 1 PRS **82** p. 486 1909
 Geiger & Marsden. On a diffuse reflection of the alpha particles. Proc. Roy. Soc.,
 1909, A, **82**, 495-500. [classic mills & boon/part949/cp2/19th p234]
 Steele & Grant Sensitive micro-balances.. PRS **82A** 1909 580-594 [dsb xiv 319b]

Geiger. The scattering of alpha particles by matter. PRS **83** 1910 pp. (?492) 495- & 505-
 [douglas clark p98/cp2/19th p234]
 Rosenhain The crystalline structure of iron.. PRS **83A** 1909 200-209 [dsb 11]

Ayrton The origin and Growth of Ripple Marks PRS **A84** 285 1910 [20th C. Physicists
 file/dsb17] not imp
 Rayleigh Aerial plane waves of finite amplitude PRS **84A** 1910 247-284 [dsb]
 Whytlaw-Gray The density of niton radium.. PRS **84A** 1911 536-550 [dsb]
 Darwin G The tidal observations of the British Antarctic Expedition, 1907. PRS **84A**
 1910 403-22 [ant p 426]

WILSON, CTR On a method of making visible the paths.. Proc. Roy. Soc. A 1911, **85**,
 p285; 1912, **87**, 277 [nobwho/wilsonp214/part949/douglas clark p98] Imp. see
 Norman cat 33 2 numbers at \$1500
 Holmes, A The association of lead with uranium in rock.. PRS **A 85** 1911 pp. 248-56
 [Hist Brit Geolog, Challinor p40/thi p367]

Rayleigh On the propagation of waves PRS **86A** 1912 207-266 [dsb]
 Trouton Mechanism of the semipermeable membrane. PRS **86A** 1912 149-154 [dsb]
 Hardy The general theory of colloidal solutions PRS **86A** 1912 601-610 [dsb xv p202]

WILSON, CTR. On an expansion apparatus for making visible the tracks of ionising
 particles in gases Proc. Royl. Soc. 1912, A, **87**, 277-92. [classic mills & boon/nobwho]
 HG Moseley The number of beta particles.. PRS **87A** 1912 230-255 [DSB 9 544]

HG Moseley. The attainment of high potentials by the use of radium PRS **88** 1913 p.
 471
 Bragg & Bragg The Reflection of X-rays by Crystals Proc Roy Soc **88** 1913 428-438
 {dsb/Jeff Weber cat 115 at \$1250 reduced to \$850 by aug 04/douglas clarkp63,
 78/dsbXV p64]

EE Fournier D'Albe PRS A 1913/14 vol. **89** p 78 (dis file, selenium, av)
WL Bragg. The Structure of some Crystals as Indicated by Their Diffraction of X-Rays. Proc. Roy. Soc. **89A**, 1913 [1912] 246-8, 248-277 & 277-291, 468-9. [Portugalp207 quite imp/dsb/douglas clark p78/dsbXV p64/brag p 152]
JJ Thomson Bakerian: Rays of positive electricity PRS 1913 **89** p.1 [land p25]
Aston A micro balance for Determining Densities PRS **89A** 1914 439-446

Ayrton, H. Local differences of Pressure near an obstacle.. PRS 91 1915 495-510 [dsb17]

Rayleigh The theory of the helmholtz resonator PRS **92A** 1915 265-275 [dsb]

Rutherford Life of Moseley PRS **93A** 1916 xxii-xxviii [DSB 9 645]
Lambert On the deflection of the vertical.. PRS **93A** 1917 293-312 [dsb]

Soddy & Cranston. The Parent of Actinium PRS **94** 384 1918

Ayrton. On a new method of driving off poisonous gases PRS **A96** 249 [1919-20] [20th C Women Physicists file/dsb17]
JJ Thomson. PRS **96A** 1919 311 [sub p 324]

Rutherford. Bakerian: Nuclear constitution of atoms. Proc. Roy. Soc. 1920, A, **97**, 374-400. [classic mills & boon/sub p 363] ? no. 687/part952, 953
Armstrong, EF. Paper on catalysis. PRS **97A** 1920 259-64 [dsb]

Schuster obit of Rayleigh PRS **98A** 1921 1 [dsb]

SAHA, MN Proc. Roy. Soc. 1921, **99**, 135 [wilson p289]
JJ Thomson Opening of the discussion on isotopes PRS **99A** 1921 87-94 [dsb]
Rosenhain The hardness of solid solutions.. PRS **99A** 1921 196-202 [dsb 11]
HN Russell A superior limit to the age of the earth's crust PRS **99A** 1921 84-6 [dsb]

Raman, CV. On the molecular scattering of light in water and the colour of the sea Proc. Roy. Soc. Vol 101 1922 64 [dsb] nobel

BLACKETT On the analysis of alpha ray photographs PRS **102** 294- 1922; 1923, **103**, 62 [part950, 953]
PRS 1923 **102A** 603 slit ultramicroscope [douglas clark p10]
FA Lindemann & GM Dobson. A theory of meteors and the density and temperature of the outer atmosphere..PRS **102A** 1922-3 411 [shaw p 192] relevant to rockets?
'Pioneer meteor studies which showed that the density of the earth's upper atmosphere must greatly exceed previously estimated values, it had been realized that the atmospheric temperature may rise with increasing height above the earth's surface in regions well above the stratosphere.' {whipple]

BLACKETT The study of forked x-ray tracks PRS **103** 1923 62-

CTR Wilson. Investigations on alpha rays.. PRS **104** p1- & p. 192- 1923 [douglas clark p99]
Roughton & Hartridge Velocity with which oxygen dissociates.. PRS **A104** 1923 395-430 [dsb18 p761]

Chree C Magnetic phenomena in the region of the South Magnetic Pole. PRS 104A 1923 165-91 [ant p 424]

OW Richardson. Thermodynamics of electron emission. PRS **105** 387 1924

WL Bragg. The structure of Argonite PRS **105A** 16 1924 [brag p 152] ok

WL Bragg. The Refractive Indices of Calcite and Argonite PRS **105A** 370 1924 [brag p 152] ok

WL Bragg. The Influence of atomic arrangement on the refractive index PRS **106A** 346 1924 [brag p 152] ok

Dirac. The conditions for statistical equilibrium between atoms, electrons & radiation. PRS **106** p. 581 1924

Dirac. The adiabatic invariance of the quantum integrals PRS **107** 725 1925

BLACKETT, PMS. The ejection of protons from nitrogen nuclei. Proceedings of the Royal Society, 1925, **107**, p.349, (Wilsonp269] Famous pics – see obit notices FRS

Appleton & Barnett prove existence of Heaviside layer PRS A 1925 **109** p621 (disc file)

PAM Dirac. The fundamental equations of quantum dynamics. PRS **A109** 1925 642-53 [tic30, 79/dsb17] great contrib. to physics

Dirac. Quantum mechanics and a preliminary investigation of the hydrogen atom. PRS **110A** 1926p561-9 [tim]

Dirac. The elimination of the Nodes in Quantum Mechanics PRS **111** p. 281 1926.

Dirac. Relativity Quantum mechanics with an application to Compton scattering. PRS **111** p. 405 1926

Appleton et al PRS 1926 111 615 (disc file, on lightning)

WL Bragg The structure of Beryl.. PRS **111A** 1926 p 691 [brag p 153] ok

Dirac. On the theory of quantum mechanics. PRS **112** p. 661-677 [dsb17/sub p433/term eigenvalue - enu]

DIRAC, PAM. The physical interpretation of Quantum Dynamics. Proceedings Royal Society, Series A, 1927, **113**, pp 621-41. [19cp62/qp16/tic30, 79/dsb17]

Rosenhain & Murphy The metallography of solid mercury.. PRS **113A** 1926 1-6 [dsb 11]

WL Bragg. The structure of phenacite PRS **113** 1927 642 [brag p 153]

DIRAC, PAM. The Quantum Theory of the emission and Absorption of radiation. PRS **114** 243-265 1927 [tic 30,78/dsb17/sub p457/tim] famous theory

DIRAC, PAM. The Quantum Theory of Dispersion. Proceedings Royal Society, Series A, 1927, **114**, pp 719-728. [19cp62/qp16]

Pauling L. The theoretical prediction of the physical properties.. PRS **A114** 1927 181-211 [biog]

Aston FW Bakerian: A new mass spectrograph and the whole number rule. Proc Roy Soc **115A** 1927 487-514 [dsb]

DIRAC, PAM. The Quantum Theory of the Electron. Proceedings of the Royal Society, Series A, 1928, **117**, Feb. 1, pp. 610-24 [qcat 1249p13/p26/tic p29]no. A778
THOMSON, GP. Experiments on diffraction of Cathode Rays. Proceedings of the Royal Society, Series A, 1928, **117**, p.600-9 [dsb18p912/dwp415/disc file / wave form of electron]

DIRAC, PAM The quantum theory of the electron IProceedings of the Royal Society, A, 1928, **118**, p351 [wilson p259]

S Chapman On the Brownian Displacements and Thermal Diffusion... PRS 119A 1928 34-54 [term 'Chapman-Kolmogorov Equation' - enu]

EDDINGTON, AS. The charge of an electronProceedings of the Royal Society, Series A. 1928, **122**, p.358 [dw428]

RUTHERFORD, Chadwick, Discussion of the structure of atomic nuclei. Proceedings of the Royal Society, Series A. 1929, **123**, p. 373 [dwp407]

PAN Dirac. Quantum mechanics of many electron systems PRS **123** p 714 1929

Lonsdale The structure of the benzene ring PRS **123A** 494-515 1929 [wpc/dsb]

WL Bragg The Determination of Parameters in Crystal Structures PRS 123 1929 p 537 [brag p 153]

S Chandrasekhar. The Compton scattering and the new statistics. PRS **125A** 1929 231-37 [biog] 1st paper

Aston The photometry of mass-spectra PRS **126A** 1930 511-525 [dsb] Bakerian

PAM Dirac. A theory of electrons and protons. PRS **A126** 1930 360-5 [tic 79/dsb17]

Mott, NF The wave-mechanics of alpha ray tracks PRS A126 1929 79-84 [tim]

Cockroft & Walton. Experiments with high velocity positive ions. Proc. Roy Soc. A **129** 1930 477-89 [nobwho)

R Robinson. Bakerian: The molecular structure of Strychnine and Brucine PRS **130A** no. 814 1931 pp. 431-452

E Bullard & Massey. The elastic scattering of slow electrons inArgon. PRS 130A 1931 579-590 [dsb17] not imp see vol 133

G Walker On periodicity in series of related terms PRS 131A 1931 518-532 [term 'Yule-Walker Equations' - enu]

CE Wynn-Williams. The Use of Thyratrons for High Speed Automatic Counting of Physical Phenomena. Proc. Roy. Soc. A, **132**, pp.295-310 1931. [randellp530/cor p 186] listed on bookfinder at \$750

DIRAC, PAM. Quantised singularities in the electromagnetic field. Proceedings of the Royal Society of London, Series A, 1931, **133**, October, pp. 60-72 [qcat 13p14/16/tic34, 79/dsb17/sub p 363] major paper.

Lonsdale An x-ray analysis.. PRS **133A** 536-552 1931 [wpc/dsb]

AH Wilson PRS **133A** 1931 458 [see shockley in biog]

E Bullard & Massey. The elastic scattering of slow electrons inArgon. PRS 133A 1931 637-651 [dsb17] not imp see vol 130

CE Wynne-Williams. A Thyatron 'Scale of Two' Automatic Counter. Proc. Roy. Soc., London, A, **136**, pp. 312-324 1932. [randellp.530/cor p 186] listed on bookfinder at \$1250

Cockroft & Walton. Experiments with high velocity positive ions... Proc Roy. Soc. **A136**, 1932, 619-30 [nobwho]part954

CHADWICK. The existence of a neutron. Proc. Roy. Soc., 1932 A, **136**, 692-708; 1933, **142**, 1 [part953] recogn of neutron. [phys p10/classic mills &boon/nobwho/cp/part953/dsb17] Weber catalogue 88 at \$950 Group of 3 imp. papers in June number - see Nature extract. This the detailed paper: letter in Nature p. 312.

Heisenberg PRS 1932 **136** 757 [part953]

Feather PRS 1932 **136** 709 [part966]

COCKROFT & WALTON. The disintegration of elements by high velocity protons. Proc. Roy. Soc. 1932, A, **137**, 229-42. [classic mills &boon/nobwho] no. 831 part954

Blackett & Occhialini. Some photographs of the Tracks of radium Proc. Roy. Soc. A, **139**, 1934 p. 699-726 [nobwho/tic29, 118, 170/physp9]imp, major step
JE Sears & JS Clark PRS A139 1933 p 130-46 [barom p 275]

Mallock, RRM. An electrical calculating machine. PRS 140 1933 457-483 [cor p 118]

Oliphant & Rutherford Experiments on the transmutation of elements by protons. PRS **141** 1933 p. 259

Oliphant, Kinsey & Rutherford The transmutation of lithium. PRS **141** p. 722

Appleton. Meeting for discussion of the ionosphere p. 697

Dee & Walton Transmutation of Lithium and Boron. Proc. Roy. Soc. A Sept. 1 **141** 1933: 733-42 [nobwho]

Proc Roy Soc **1928**, A, **142**, Feb. 1, pp. 610 [q]

J Chadwick. The Neutron. (Bakerian lecture) Proc. Roy. Soc. A **142** 1933 1-25 [nobwho]

Blackett, Chadwick & Occhialini. Some experiments on the production of positive electrons. Proc. Roy. Soc. **A144** 1934 235 [nobwho]

Walton & Cockroft. High velocity positive ions... Proc. Roy. Soc May 1 **144** 1934 pp 704-20. [nobwho]

RA Fisher. Two New Properties of Mathematical Likelihood PRS 144A 1934 p 295 [term 'power' - enu]

WL Bragg & EJ Williams The effect of thermal agitation on atomic arrangements in alloys.. PRS **145A** 1934 699-730; **151A** 1935 540-566 [dsb XV p64a/brag p 153] ok

Fermi et al Artificial radioactivity produced by Neutron bombardment PRS **146** p. 483 1934 [tim]

Oliphant et al PRS 1934 **146** 922 [part934] - atechnique

Blackett On the Technique of the counter controlled cloud chamber p. 281

Bethe H & Heitler, W. On the stopping of Fast Particles.. PRS A146 1934 83-112 [tic79, 130] a breakthrough

H Jeffries Probability and Scientific Method PRS 146A 1934 10 [term 'likelihood' - enu]

Kapitza, P. PRS **147A** 1934 189 [cryo p295, 453]

Walton, Cockroft, Gilbert. Production of induced radioactivity... Proc. Roy Soc A **148** Jan 1 1935: 225-40 [nobwho]

Amaldi, Segre, Fermi et al. Artificial radioactivity produced by neutron bombardment II Proc. Roy. Soc. A April 10 **149-** (part I in vol. 146)see & link to Nature extracts/Nature June 1935.

Kurti & Simon PRS 149A 1935 152 [cryo p 355]

Astbury. PRS **150A** 1935 533-551 [dsb]

Megaw & Bernal The Function of Hydrogen.. PRS **151A** 384 1935 [wpc]

WL Bragg & EJ Williams The effect of thermal agitation on atomic arrangements in alloys.. PRS [**145A** 1934 699-730]; **151A** 1935 874, 540-566 [dsb XV p64a/brag p 153]ok

London & London PRS **152** 1935 24 [cryo p320]

Blackett. Measurement of cosmic rays. **154** 1936 p564

Bhabha Electron-positron scattering. PRS 154 1935 195 [dsb]

Blackett: Further measurements of the cosmic-ray energy spectra. **159** 1937 p1

Kipping Organic derivatives of Silicon PRS **159A** 1937 139-147 [dsb]

Lonsdale Magnetic Anisotropy and Electron Structure.. PRS **159A** 149-161 1937 [wpc/dsb]

Bhabha & Heitler. Passage of fast electrons and the theory of cosmic showers. PRS **159** 1937 432-58 [dsb/tic32, 118, 170, 220] also nature 138

Dirac: Complex variables in quantum mechanics. **160**, 1937

PMS Blackett & JG Wilson The energy loss of cosmic ray particles .. PRS A160 1937 304-323 [tic105]

MS Bartlett Properties of Sufficiency and Statistical Tests PRS 160A 1937 268-282 [term 'Bartlett Adjustment' - enu]

DR Hartee & JR Womersley. A method for the Numerical or mechanical Solution.. PRS **161** 1937 p.353-366 [cor p 140]

Hartree & A Porter. Time lag in a control system II PRS **161** 1937 460-

KNE Bradfield & RV Southwell Relaxation Methods Applied to Engineering Problems I.. PRS 161A 1937 155-181 [term 'relaxation' - enu]

Aston A Second-order focusing mass-spectrograph PRS **163A** 1937 391-404 [phys p18]

Gurney & Mott Theory of the photolysis of silver bromide PRS **164A** 151-167 1938 [disc file/boni pp 153,155 photography]

Bhabha Penetrating component of cosmic radiation PRS 164 1938 257 [dsb]

Dirac. A new basis for cosmology **165** 1938 p199

Stoner PRS **A165** 1938 372-414 [dsb18 p877]

Bhabha Theory of heavy electrons PRS **166** 1938 501 [dsb]
 LD Landau & Rumer The Cascade theory of electronic showers PRS 166A 1938 213 [dsb]

Dirac: Classical theory of radiating electrons **167** 1938 p148-69 [tic 105]

Svedberg A discussion on the protein molecule PRS **170** 1939 40-56 [dsb] see also B127
 Daunt & Mendelssohn PRS 170A 1938, 423 [cryo p356/land p83] link with Bowers & Mendelssohn Nature 163 1949 p 870

Bhabha Classical theory of mesons PRS **172** 1939 384 [dsb]
 Allen JF & Misener AD PRS **172A** 1939 467 [cryo p74-94] superfluidity reported
 Appleyard, Bristow, London & Misener PRS 172 1939 540 [cryo p265-294]

E Bullard Heat flow in South Africa. PRS173A 1939 474-502 [dsb17]

Schoenberg PRS **175A** 1940 49 [cryo p297]

E Bullard Submarine Seismic Investigations PRS A177 1941 476-499 [dsb17]

Bhabha & Corben General Classical Theory of Spinning Particles PRS **178** 1941 273, 314 [dsb]

Lonsdale An experimental study of diffuse X-ray reflection.. PRS **179A** 8 1941 [wpc/dsb]
 Lonsdale Extra reflections from the two types of diamond PRS **179A** 1942 315-320 [DSB]

Dirac: Bakerian – The physical interpretation of quantum mechanics. **180**, 1942, p1

Newton tercentenary papers (Jeans, andrade etc) **181**

Gabor. Stationery electron swarms. P 436 **183** 1944-5
 PAM Dirac: unitary representation of the Lorentz group p 284
 Champion & powell applications of the photographic method p64
 Chadwick et al An investigation of scattering 1-
 Cowling Conductivity of an ionized gas.. PRS 183A 453-479 1945 [mag]
 Bhabha & Harish-Chandra On the theory of point particles. PRS 183 1944 134 [dsb]

DC Hodgkin & CH Carlisle The crystal structure of cholesteryl iodide PRS **A184** 64 1945 [wpc]

Bhabha & Harish-Chandra On the Fields and Equations of point particles. PRS **A185** 1946 250 [dsb]

Haworth The Structure, Function and Synthesis of Polysaccharides PRS **186A** 1946 1-19 [DSB VI 185b]nobel

H Jeffreys An invariant form for the prior probability in estimation problems PRS **186A** 1946 453-461 [term 'Jeffrey's Prior' - enu]

CN Hinshelwood. Bakerian: The reaction between H₂ and O₂. PRS **188** 1946-7 1-
Born x 3 papers

WL Bragg & JF Nye A Dynamical Model of a Crystal Structure. PRS **190A** 1947 pp
474 [bragg p 154] pt II vol 196 ok

Essen & Gordon-Smith speed of light PRS **194** 348 1948 [velo p142] imp

A discussion on computing machines.

D.R. Hartree. A Historical Survey of Digital Computing Machines. Pp. 265-271

M.H.A. Newman. General Principles of the Design of All-Purpose Computing
Machines. Pp. 271-4

M.V. Wilkes. The Design of a Practical High-Speed Computing Machine. The
EDSAC. Pp. 274-9

F.C. Williams. A Cathode-ray Tube Digit Store. Pp. 279-284

J.H. Wilkinson. The Automatic Computing Engine at the National Physical
Laboratory. Pp. 285-6

A.D. Booth. Recent Computer Projects. Pp. 286-7.

**Proc. Roy. Soc., Series A, vol. 195, 1948. see q cat 1232 p53 at
£500/oc650/oc651/oc1018/oc1065 /cor p 191, 220, 221, 351(look up others in oc)**

WL Bragg & JF Nye A Dynamical Model of a Crystal Structure. PRS 196A 1949 pp
171 [bragg p 154] pt II vol 190 ok

George Thomson - Bakerian: Nuclear Explosions p 311

L Pauling valence bonds p. 343.

GABOR, D. Microscopy by reconstructed wave-fronts. Proceedings of the Royal
Society, **1949**, Series A, **197**, 7 July, pp. 454-87 [q20/42/34/nobwho/dsb 17 p 326]
prelim note in Nature 15 May 1948

E Bullard The Magnetic Field Within the Earth PRS 197A 1949 433-453 [dsb17]

E Bullard Electromagnetic Induction in a Rotating Sphere. PRS **A199** 1949 413-433
[dsb17]

G Porter Flash photolysis. PRS **200** p284 1949-50

JC Kendrew. The crystal structure of horse metmyoglobin. Proc Roy Soc **A201** 1950
62-89 [nobwho]

Wheeler, DJ. Program Organisation and Initial Orders for the EDSAC. Proc. Roy. Soc
A 202, pp. 573-589, 1950 [randellp.523/oc988/cor p. 221] good

Bragg, Kendrew, Perutz - polypeptides PRS **203**, 1950, 321-
Kelly - Bell Telephone Labs p 287

PW Bridgeman - Physics above 20,000kg/cm - Bakerian p. 1

Essen, L PRS 204A, 1950, 260 [velo p39]

S.Gill. The diagnosis of mistakes in programmes on the EDSAC. PRS **206** 1951 p538-

PAM Dirac. A new classical theory of electrons I **209** 291- 1951
R Franklin Crystallite Growth in Graphitizing... PRS **A209** 1951 196

J. Cockcroft. The Scientific Work of the Atomic Energy Research Establishment. PRS **211** 1952
M. Ryle A new radio interferometer **211** 351-

PAM Dirac. A new classical theory of electrons II PRS **212** 1952 330-

Bragg WL & Perutz, MF. PRS **213** 1952 p 423 [bragg p 154] ok see also vol 222
RA Fisher The General Sampling Distribution of Multiple Correlation Coefficient.
PRS 213A 1928 p 654 [term "Sampling Distribution' - enu]

Pippard PRS **216A** 1953 547 [cryo p296]

Urey On the concentration of certain elements..PRS A219 1953 281-292 [dsb18
p946/et p 194]

E Bullard et al The Flow of heat through the floor of the Atlantic ocean. PRS **222A**
1954 408-429 [dsb17]
Bragg WL & Perutz, MF. PRS **222** 1952 p 33 [bragg p 154] ok see also vol 213

Watson & Crick. The complementary structure of DNA. Proc. Roy. Soc., **223A**, 80-96,
1954 [portugal p.255q85/whitehouse]

AR Todd Bakerian lecture - chemistry of nucleotides. **226**, 1954 p. 70
E Marsden: Rutherford, life & Work **226** 1954 p. 283

Bass & Schrodinger Must the photon mass be zero. **232** 1955 1-
Schrodinger The wave equation for spin. Prs **232** 435-

Burge & Randall x-ray collagen. PRS **233** 1955 1-
S. Chanrasekhar. A discussion on magneto-hydrodynamics.. **233**, p 289-

G Herzberg. Lamb Shift of the 1(2)S Proc Roy Soc **234A** 1956, 516-28. [nobwho]

AR Curtis & RM Goody PRS **236A** 1956 193 [et p194]

Hall & Vinen PRS **239** 1956 pp204 & 215 [cryp p273, 295]

S Chandrasekhar et al The stability of the pinch. PRS **245A** 1958 435-55 [biog]

PAM Dirac. Generalised Hamiltonian dynamics PRS **246** 1958 p326-332 & next paper

Froome, KD precise late measurment of speed of light PRS **247A** 1958, 109 [velo p39]

Ryle and others. A discussion on observations of the Russian artificial earth
satellites... prs **248** 1958 pp1-

Ryle M Bakerian lecture: the nature of the cosmic radio sources PRS A 248 1958 289-308 [tim]

McCrea WH The origin of the solar system PRS 256A 1960 245-266 [et p434]

Bragg The development of X-ray analysis PRS **262A** 1961 145-158 [dsb XV p64b]

Perutz. Et al Haemoglobin. Prs **265** 1961 15-, 161-

PAM Dirac. An extensible model of the electron. PRS **268** 1962 pp. 57-67

PAM Dirac, Bondi, others. A discussion of the present state of relativity.. prs **270** 1962 p297-356

Norrish & Porter. The Gas-Phase Oxidation of n-butenes Proc Roy. Soc **A272** 1963 164-91 [nobwho]

Hoyle & Narlikar Time symmetric electrodynamics and the arrow of time. PRS **277A** 1964 p1 [davies]

Hoyle & Narlikar A radical departure from the steady state concept PRS 290A 1966 162-176 [tim]

CF Powell & GD Rochester. A discussion on neutrinos PRS **301** no. 1465 pp 104-172 [conference]

D. Deutsch Quantum theory, the Church-Turing principle and the universal quantum computer PRS A **400** no 1818 1985 97-117 [Disc file 2] crucial paper on quantum computing

MJ Rees The Bakerian Lecture 1982 Galaxies and their nuclei. PRS **400** 1985 no 1819 pp 183-218.

Series B (post 1900)

EHRLICH, P. Croonian Lecture. On immunity with special reference to cell life. Proceedings of the Royal Society, 1900, **66**, [norm/GM/dsb/silp58,84,120, 152,271/bul 342]

Bateson. Heredity, differentiation and other conceptions PRS **69** 193-205 1901 [carl]

PORTER, Proceedings of the Royal Society, 1902, **70**, 313. [g1473m]
Gamgee A The Croonian Lecture: On certain chemical and physical properties of haemoglobin. PRS 70B 1902 79-83 [chrome p 370]

CASTELLANI, A. On the discovery of a species of trypanosoma in the cerebrospinal fluid.. Proceedings of the Royal Society, 1903, **71**, 501-8. [g5276m]

WRIGHT, AE & DOUGLAS, SR. An experimental investigation of the role of the blood fluids in connection with phagocytosis. Proceedings of the Royal Society, Series B., 1903-4, **72**, 357-370. [g2558m, rock carling/silp58, 155,332/bul p348] see vol 73

TROUTON & NOBLE Proceedings of the Royal Society, 1903, **72**

TIMIRIAZEFF, KA. Proceedings of the Royal Society, Series B. 1903, **72** [weev]
Farmer Moore Walker PRS **72** 1903 499-504 [DSB IV 546b]

WRIGHT, AE & DOUGLAS, SR. An experimental investigation of the role of the blood fluids in connection with phagocytosis. Proceedings of the Royal Society, Series B., 1904, **73**, 128-42. [g2558m/bul p 348] see vol 72
EF Armstrong. Studies on enzyme action III PRS 73 1904 516 [dochb]

BAYLISS, WM & STARLING, EH. The chemical regulation of the secretory process. Proceedings of the Royal Society, Series B., 1904, **73**, 310-322. [g1121m]

ESCOMB, F. Proceedings of the Royal Society, Series B., **76** [weev]

BLACKMAN, FF. Proceedings of the Royal Society, Series B. ?1904, **76** [weev]

MATTHAEI, GLC Proceedings of the Royal Society, Series B., 1904 **76** [weev]

Edkins. Proc. Roy. Soc. B, 76, 376 [g1026m]

Langley Croonian. On the reaction of cells and of nerve endings to poisons.. PRS 76 1906 170-194 [dsb]

FE Mott PRS 76B 1905 p 235-242 [neurol p 343]

William Bateson. Further experiments in sweet peas. Proc. Roy. Soc 1906, **77**, 236-8 [g242.3m]

HARDEN, A. & YOUNG, WJ. Proceedings of the Royal Society, Series B. **77** 405-20 [weev/nobwho]

MACALLUM, AB & MENTEN, ML. On the distribution of chlorides in nerve cells and fibres. Proceedings of the Royal Society, Series B., 1906, **77**, pp. 165-93. [g1300m]

Harden The Alcoholic Fermentation of Yeast Juice PRS **77B** 1907 [DSB VI 111b]

LANE-CLAYPON, JE & STARLING, EH. An experimental enquiry into the factors which determine the growth and activity of the mammary glands. Proceedings of the Royal Society, Series B., 1905-6, **77**, 505-22. [g1180m]

A Harden & WJ Young The alcoholic ferment of yeast.. PRS 78 1906 369 [dochb]

Twort The fermentation of glucosides by bacteria.. PRS **79B** 1907 329-336 [dsb]
 Hardy Croonian. On globulins PRS **79** 1907 413-426 [dsb xv p202]

Plimmer & Thomson. Proc. Roy. Soc., B, **80**, 1-12 [g5282m]
 A Harden & WJ Young The alcoholic ferment of yeast juice. PRS **80B** 1908 299
 [dochb]
 Tetzius. PRS **80B** 1908 p414-43 [neurol p 86]
 Bayliss On reciprocal innervation in vaso-motor.. PRS **80B** 1908 339-75 [dsb]

Twort The influence of glucosides on the growth.. PRS **81** 1909 248 [dsb]

Macallum The inorganic composition of the blood in vertebrates and invertebrates..
 PRS **82B** 1910 602-624 [dsb]
 Doncaster L PRS **82B** p88 1910 [cyto p. 109]

BLACKMAN, FF. & MATTHAEI Proceedings of the Royal Society, Series B. ?**1905**,
83 [weev]
 SMITH, AM. Proceedings of the Royal Society, Series B., 1909, **83** [weev]
 STEPHENS, JWW & FANTHAM, HB. On the perculiar morphology of a
 trypanosome from a case of sleeping sickness... Proceedings of the Royal Society,
 Series B., 1910, **83**, 28-33. [g5285m/paras p 198]
 Koch obit PRS **83** 1910 xviii-xxiv [dsb]
 Symes & Veley PRS **83B** 1910 p421 [pain p377]

DARWIN & PERTZ Proceedings of the Royal Society, Series B., 1911, **84** 136
 [weevp.53, av]
 Twort & Ingram A method for isolating and cultivating.. PRS **84** 1912 517-542 [dsb]

Lucas Croonan: The Process of Excitation in Nerve and Muscle PRS **85B** 1912 495-524
 [dsb]

Bruce PRS **86** 1913 p 269 [paras p. 198]

Bayliss. Methods of raising a low arterial pressure. PRS **89B** 1916 380-93 [dsb]

Mottram & Ross Observations and Experiments on the Susceptibility and Immunity
 of rats PRS **90B** 1917/1918 1-33 [DSB 9 551]
 M Stopes. The four invisible ingredients in banded bituminous coal.. PRS **90B** 1919
 470-487 [stopes 67]
 WB Cannon. The physiological basis of thirst PRS **90B** 1918 283-301 [bdp]

Bayliss Reversible Gelation in Living protoplasm. PRS **91B** 1920 196-201 [dsb]

FLEMING, A. On a remarkable bacteriolyte substance found in secretions and
 tissues. Proceedings of the Royal Society, Series B., 1922, **93**, 306-17. [cit]

T.H. Morgan. On the Mechanism of Heredity. (Croonian Lecture). Proc. Roy. Soc.
 1922, **94**, 162-197. [portugalp130, quite imp]

HARTRIDGE, H. & ROUGHTON, FJW. The velocity with which carbon monoxide replaces oxygen from combination with haemoglobin. Proceedings of the Royal Society, Series B., 1923, **94**, 336-67. [g962m]

Boycott & Diver On the inheritance of sinistrality in Limnaea PRS 1923 **95** 207-213 [whitehouse]

LIDDELL, EGT & SHERRINGTON, CS. Reflexes in response to stretch. Proceedings of the Royal Society, Series B., 1924, **96**, 212-42. [g1443m]

DUSSER DE BARENNE, JG. Experimental researches on sensory localization in the cerebral cortex of the monkey. Proceedings of the Royal Society, Series B., **1924, 96**, 272-91. [g1442m/neurol p. 122]

LIDDELL, EGT & SHERRINGTON, CS. Reflexes in response to stretch. Proceedings of the Royal Society, Series B., 1925, **97**, 267-83. [g1443m]

A Fleming PRS 96B 1924 171 [drug p. 470] discovery of lysosyme

STARLING, EH & VERNEY, EB. The secretion of urine as studied on the isolated kidney. Proceedings of the Royal Society, Series B., **1924-5, 97**, 321-63.

[g1240m/dsb18 p962]

Mirsky et al On the correlation between the spectra of various haemoglobins.. PRS B97 1924 61-83 [dsb18]

Magnus Animal Posture, Croonian PRS **98B** 1925 339-353 [DSB 9 21a]

D Keilin On cytochrome, a respiratory pigment.. PRS **98B** 1925 312-339

[dochb/chrome p 374] imp. /check Nature

Long & Hetzel The metabolism of the diabetic individual... PRS **B99** 1926 279-306 [dsb18 p570]

Verney On the secretion of pituitrin in Mammals.. PRS **B99** 1926 487-517 [dsb18 p962]

Mottram, Scott, Russ On the effects of Beta Rays.. PRS **100B** 1926 326-335 [DSB 9 551]

BLACKMAN, FF. Proceedings of the Royal Society, Series B. **103** pp 412-513, 491. 1928 [weev/DSB]

KEILIN, D. Cytochrome and Respiratory Enzymes. Proceedings of the Royal Society, Series B, 1929, **104**, No. B 730, pp. 206-252. [g968m/tim]

BOURDILLON, RB et al. The Absorption Spectrum of Vitamin D. Proceedings of the Royal Society, Series B. 1929. **104**, no. B733, pp. 561-83. [g1061m]

KEILIN, D. Proceedings of the Royal Society, Series B. **1930** [weev]

Todd C 1930. Cellular individuality in the higher animals... Proc Roy. Soc **106B** 20-44 [Sturtevant p. 138]ok

Marrack & Smith The composition of Diphtheria Toxin.. PRS **B106** 1930 1-19 [dsb18 p594]

Discussion on geological climates PRS **106B** 1930 299-317 [shaw p 326]

Darlington A cytological demonstration of genetic crossing over. PRS B **107** 50-59 1930 [whitehouse]

Bordet J. Croonian lecture. The theories of the bacteriophage. PRS **107B** 1931 398-417 [vir p 212]

Crowther, EM The relationship of climatic and geological factors to the composition of solis.. PRS 107B 1930 1 [cli p176]

Windaus. Chemistry of irradiated ergosterol. Proc Roy soc. **108B** 1931 568-75 [nobwho]

JBS Haldane The Molecular Statistics of an Enzyme Action PRS **108B** 1931 559-567 [DSB VI 23b]

ASKEW, FA et al. Crystalline Vitamin D. Proceedings of the Royal Society. **1932**, Series B. **109**, No. B764, pp. 488-506. [g1067m]

COOK, JW, et al. The Production of Cancer by Pure Hydrocarbons. Proceedings of the Royal Society. Series B. 1932, **111**, No. B773, pp. 455-96. [g2654m]

Roughton Diffusion and chemical reaction velocity as.. PRS **B111** 1932 1-36 [dsb18 p761]

Stiles & Crawford PRS B **112** 428-450 1933 [discoveries file; nature article, 'stiles-crawford effect']

Verney et al The absorption and secretion of water PRS **B112** 1933 496-547 [dsb18 p962]

Elford, WJ. The principles of ultrafiltration as applied in biological studies PRS **112B** 1933 384-406 [vir p 217]

THIAMANN, KV. Proceedings of the Royal Society, Series B., **113** ?1937 [weev]

Storey HH Investigations of the mechanism of the transmission of plant viruses by insect vectors PRS B **113** 1933 pp 463-85 [vir p 231]

Tansley K PRS B **114** 79 1933 [Mccollum243]

Roughton. The kinetics of hemoglobin IV, V, VI PRS **B115** 1934 451-464, 464-473, 473-495 [dsb18 p761]

Thornton & Gray PRS **115B** 1934 p 522 [ag p 311] bacterial counting method

Otto Loewi. The Ferrier Lecture on Problems... Proc Roy Soc B **118** 1935 299-316 [nobwho/DSB]

Koller The internal mechanics of the chromosomes.. PRS B **118** 371-397 1935 [whitehouse] term polytene

H Borsook & CL Keithley The continuing metabolism of nitrogen PRS **118B** 1935 488 [dochb]

Fowler RH & Nordheim L Electron emission in intense electric fields PRS **119A** 1928 173-80 [cit]

Darlington The external mechanics of the chromosomes PRS B **121** 264-319 1936 [whitehouse] term centromere

YOUNG, JZ. The structure of nerve fibres in Cephalopods and Crustacea. Proceedings of the Royal Society, Series B., 1936, **121**, 319-37. [g1309.1/Rose87].

Beadle & Ephrussi Development of eye colour in *Drosophila*... PRS **122B** 1937 98-105 [emb p222]

JBS Haldane The Linkage Between Genes for Colour-Blindness and Haemophilia PRS **123B** 1937 119-150 [DSB VI 23b]

Bawden & Pirie The isolation and some properties of TMV.. PRS **123B** 1937 274-320 [dsb17/[Medical History vol 20 1976 p 129] tog with nature 139 p 546]

Haines RB The effect of freezing on bacteria PRS 124B 1938 451-63 [et p 417]

Richards Processes of urine formation. PRS **B126** 1938 398-432 [dsb18]

Svedberg Protein molecules PRS **B127** 1939 1-17 [dsb] nobel see also A170

D Keilin & EF Hartree Cytochrome and cytochrome oxidase PRS **127B** 1939 167 [dochb]

R Hill & R Scarisbrick The reduction of ferric oxalate by isolated chloroplasts PRS **B 129** 1940 238 [dochb]

D Keilin & EF Hartree Succinic dehydrogenase-cytochrome systems of cells PRS **129B** 1940 277 [dochb]

AC Chibnall Amino acid analysis and the structure of proteins PRS **131** 1942 136 [dochb]

Harington, CR Croonian lecture: Thyroxine: its biosynthesis and its immunochemistry [dsb17 p381]

WN Haworth. The structure, function and synthesis of polysaccharides. Proc. Roy. Soc., 1946 1-9 [nobwho]

HJ Muller The gene PRS 134B 1947 1-37 [sap p 236]

VERNEY, EB. The antidiuretic hormone and the factors which determine its release. Proceedings of the Royal Society, Series B., 1947, **135**, 26-106. [g1244.2m/dsb18 p962]classic summary

GORER, PA. Proceedings of the Royal Society, Series B., 1948, **135**, 499-505. [g2576.5m]

R.A. FISHER. A class of enumerations of importance to genetics. Proc. Roy. Soc Series B, 1950 **136**, 509-520.

Gabor, D. Microscopy by constructed wave fronts. Proc. Roy. Soc **B64** 1951 244 [nobwho]

FG Gregory A discussion on symbiosis.. PRS **139B** 202-3 [sap p236]

Cosslett & Nixon An experimental x-ray shadow microscope. Proc Roy Soc **140B** 422 1952

Kluyver. The changing appraisal of the microbe PRS **141B** 1953 147-161 [dsb]

MITCHISON, NA. Passive transfer of transplantation immunity. Proceedings of the Royal Society, Series B., 1954, **142**, 72-87. [g2578.15m/sil p302]

BILLINGHAM, RE et al. Quantitative studies on tissue transplantation immunity. Proceedings of the Royal Society, Series B., 1954, **143**, 43-80. [g2578.12/sil p249,302] term adoptive transfer

Roughton et al The determination of the individual equilibrium constants.. PRS **B144** 1955 29-54 [dsb18 p761]

Haldane JBS The theory of selection for melanism.. PRS **145** 1958 303-6 [evo]

ISAACS, A & LINDENMANN, J. Virus Interference. I. The Interferon. Proceedings of the Royal Society, Series B, 1957, **147**, pp. 258-267. [g2578.20m/hsv/sil p333] disc of interferon [Norman catalogue 33 whole number at \$1000/vir p. 221]
Lovelock JE The denaturation of lipid-protein complexes as a cause of damage by freezing PRS 147B 1957 427-33 [et p 432]

MEDAWAR, PB. The homograft reaction. Proceedings of the Royal Society, Series B., 1958, **149**, 145-66. [g2578.24m]

Revell The accurate estimation of chromatid breakage.. PRS B **150** 563-589 1959 [whitehouse]

D. Keilin The problem of anabiosis or latent life: history and current concept. PRS B150 1955 p 149 [et p 281]

Machin KE & Pringle Physiology of insect flight muscle. PRS **151B** 1959 204 [ihh p250]

Chain series of 6 articles PRS **B154** 1961 478-531 [dsb17]

Brent, L et al PRS **156B** 1962 187 [sil p249]

J Maynard Smith Review Lectures on Senescence I. The causes of Aging. PRS **157B** 1962 115-27 [old]

LR Cleveland & AV Grimstone The Fine Structure of the flagellate Mixotricha.. PRS 159B 1964 668-86 [evo p243]

Young, JZ The organization of a memory system. PRS B **163** 1965 285-320 [blak]

Harris H Enzyme polymorphisms in man PRS **164B** 1966 298-310 [evo]

Crick FHC The genetic code. PRS 167B 1967 331-47 [tim]

Dobzhansky T & B Spassky Effects of selection and migration on Geotactic and Phototactic Behaviour of Drosophila I. PRS **B168** 1967 27-47 [dsb17 p241]

de Duve C The peroxisome: a new cytoplasmic organelle PRS **173B** 1969 71-83 [tim]

Sonneborn TM Gene Action in development PRS 176B 1970 347-66 [tim]

Paul Berg. Viral genome in transformed cells. Proc. Roy Soc B, 1971, 65-76 [nobwho]

E Chain. Thirty years of penicillin Therapy PRS B **179** 1971 293-319 [fall]

T Dobzhansky, H Levene, B Spassky Effects of Selection and Migration on Geotactic and Phototactic Behaviour of Drosophila, III PRS **B180** 1972 21-41 [dsb17p241]

Marr, DC A computational theory of stereo vision. PRS B204 1979 301-28 [bdp]

Gould SJ & Lewontin RC The spandrels of San Marco and the panglossian paradigm.. PRS **205B** 1979 581-598 [evo]