

NAMED EQUATIONS AND LAWS IN CHEMISTRY

(L – P)

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Johann Heinrich Lambert

26 August 1728 - 23 September 1777

German, b. Mulhouse, Alsace, France

Beer-Lambert-Bouguer law

see August Beer

Biographical References:

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Alfred Landé

13 December 1888 - 1975

German, b. Elberfeld, Germany

Landé g-factor (splitting factor)

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Paul Langevin



23 January 1872 - 19 December 1946
French, b. Paris, France

Langevin equation

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Irving Langmuir



31 January 1881 - 16 August 1957
American, b. Brooklyn, New York, USA

Nobel Prize Chemistry 1932

Langmuir's equation

Langmuir, I., *J. Am. Chem. Soc.* **1932**, 54, 2798

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Max Theodor Felix von Laue



9 October 1879 - 24 April 1960

German, b. Pfaffendorf, Koblenz, Germany

Nobel Prize Physics 1914

Laue equations

Friedrich, W.; Knipping, P.; v. Laue, M., *Sitzber. Math.-Phys. Klasse Bayer. Akad. Wissen. Munchen* **1912**, 303

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Antoine Laurent Lavoisier



26 August 1743 - 8 May 1794

French, b. Paris, France

Lavoisier's law

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Sir John Edward Lennard-Jones

27 October 1894 - 1 November 1954

British, b. Leigh, England

Lennard-Jones potential

Jones, J.E., *Proc. Roy. Soc. London Ser. A* **1924**, 106, 463

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Hans Lineweaver

25 December 1907 - ?

American, b. Pickens, West Virginia, USA

Lineweaver-Burk plot

see Dean Burk

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<http://www.library.yale.edu/pubstation/databases/biogen.html>
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Hendrik Antoon Lorentz



18 July 1853 - 4 February 1928

Dutch, b. Arnhem, Netherlands

Physics Nobel Prize 1902

Lorentzian function, Lorentzian bandshape

Biographical References:

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Elmer Cornelius Lupton, Jr.

8 August 1945 -

American, b. Baltimore, Maryland

Swain-Lupton equation

Swain, C.G.; Lupton, E.C., Jr., *J. Am. Chem. Soc.* **1968**, 90, 4328

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Biography and Genealogy Master Index,

<http://www.library.yale.edu/pubstation/databases/biogen.html>

personal communication

Erwin Madelung

18 May 1881 – 1 August 1972

German, b. Bonn, Germany

Madelung series, Madelung constant

Madelung, E., *Physik. Z.* **1910**, 11, 898

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Rudolph Arthur Marcus



21 July 1923 -

Canadian-American, b. Montreal, Quebec, Canada

Marcus equation, Marcus inverted region

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Marcus-Hush relationship

see N.S. Hush

Be(II)-Ma(rcus)-Ha(mmond)-Po(lanyi)-Th(ornton)-Le(ffler) principle

see Ronald Percy Bell

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Bohning, J.J. in James, Laylin K. (ed.), *Nobel Laureates in Chemistry 1901 - 1992*, American Chemical Society: Washington, DC, 1993, p. 766

Edme Mariotte

1620 - 12 May 1684

French, b. Bourgogne, near Dijon, France

Mariotte's law (1676) (also known as Boyle's law)

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Biographical references:

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M.F. Massieu

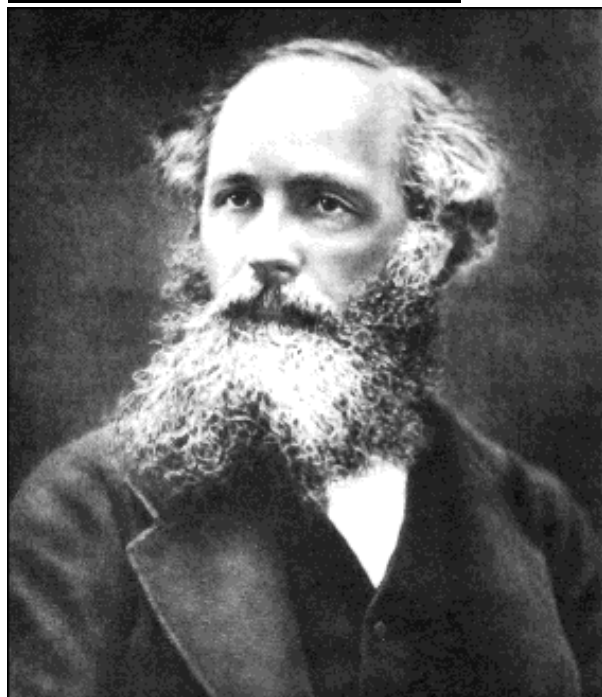
French, b. ?

Massieu functions

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James Clerk Maxwell



13 June 1831 - 5 November 1879

Scottish, b. Edinburgh, Scotland

Maxwell's equations

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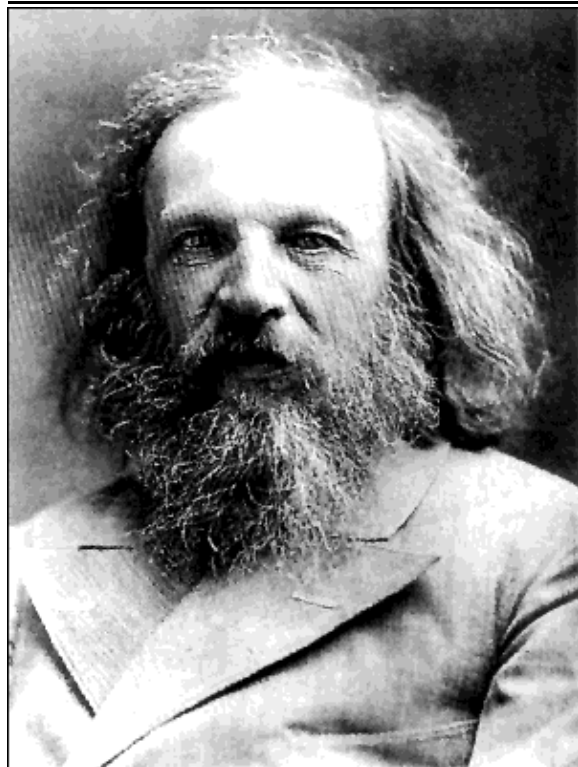
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Dimitri Ivanovich Mendeleev (Mendeleev)



7 February 1834 - 7 February 1907
Russian, b. Tobol'sk, Siberia, Russia

Mendeleev periodicity law

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Maud Leonora Menten



20 March 1879 - 20 July 1960

Canadian, b. Port Lambton, Ontario, Canada

Michaelis-Menten equation

Brown, A.J. *J. Chem. Soc. Trans.* **1892**, 61, 369

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Leonor Michaelis

16 January 1875 - 8 October 1949

German-American, b. Berlin, Germany

Michaelis-Menten equation

see Maud Leonora Menten

Biographical References:

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William Hallowes Miller

6 April 1801 - 20 May 1880

British, b. Llandovery, Carmarthenshire, Wales

Miller's law

Miller indices, Miller index, Miller-Bravais indices

Miller, W.H. *Camb. Phil. Soc. Trans.* **1835**, 5, 431

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Philip McCord Morse

6 August 1903 - 5 September 1985

American, b. Shreveport, Louisiana, USA

Morse potential

Morse, P.M., *Phys. Rev.* **1929**, 34, 57

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Henry Gwyn Jeffreys Moseley



23 November 1887 - 10 August 1915

British, b. Weymouth, England

Moseley's law

Moseley, H.G.F., *Phil. Mag.* **1913**, 26, 1024

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Hermann Walther Nernst



25 June 1864 - 18 November 1941

German, b. Briessen, West Prussia, now Wabrezno, Poland

Nobel Prize Chemistry 1920

Nernst equation

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Nernst heat theorem

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Franz Ernst Neumann

11 September 1798 - 23 May 1895

German, b. Joachimsthal, Germany (now Jachymov, Czech Republic)

Neumann's law (extension of Dulong-Petit law)

Neumann, F. *Ann. Physik* **1831**, 23, 1

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John Mitchell Nuttall

21 July 1890 - 28 January 1958

British, b. Todmorden, Yorkshire, England

Geiger-Nuttall law

See Hans Johannes Wilhelm Geiger

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Frederic Phillip Olsen

23 October 1937 - ?

American, b. Trenton, New Jersey, USA

Bunnett-Olsen equations

See Joseph Frederick Bunnett

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Lars Onsager



27 November 1903 - 5 October 1976

Norwegian-American, b. Christiania, now Oslo, Norway

Nobel Prize Chemistry 1968

Onsager reciprocal relations

Onsager, L., *Phys. Rev.* **1931**, 37, 405

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Onsager limiting law

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Kirkwood-Onsager equation

see John Gamble Kirkwood

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Friedrich Wilhelm Ostwald



2 September 1853 - 4 April 1932
Latvian, b. Riga, Latvia

Nobel Prize Chemistry 1909

Ostwald dilution law

Ostwald, W.F., *Z. Physik. Chem.* **1888**, 2, 36
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Arthur Lindo Patterson

23 July 1902 - 6 November 1966

New Zealander, b. Nelson, New Zealand

Patterson functions (Fourier series in x-ray crystallography)

Patterson, A.L. *Z. Krist.* **1931**, 76, 177; 187

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Alexis Thérèse Petit

2 October 1791 - 21 June 1820

French, b. Vesoul, Haute-Saône, France

Dulong-Petit law

see Pierre Louis Dulong

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Michael Polanyi

12 March 1891 - 22 February 1976

Hungarian-British, b. Budapest, Hungary

Evans-Polanyi relation

see Meredith Gwynne Evans

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Wigner, E.P.; Hodgkin, R.A., *Biog. Memoirs Fellows Roy. Soc.* **1977**, 23, 413

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Joseph Louis Proust



26 September 1754 - 5 July 1826

French, b. Angers, France

Proust's law (law of definite proportions)

Proust, J.L., *Ann. Chim.* **1799**, 32, 26

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