

NAMED ORGANIC REACTIONS

(M – P)

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<http://www.chem.yorku.ca/NAMED/>

Stewart Ferguson Macdonald

17 August 1913 -

Canadian, b. Toronto, Ontario, Canada

Macdonald coupling (pyrromethanes)

Macdonald, S.F. *J. Chem. Soc. Abstr.* **1952**, 4176; 4184

Macdonald, S.F. *J. Am. Chem. Soc.* **1957**, 79, 2659

Arsenault, G.P.; Bullock, E.; Macdonald, S.F. *J. Am. Chem. Soc.* **1960**, 82, 4384

Macdonald, S.F.; Stedman, R.J. *Can. J. Chem.* **1955**, 33, 458

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Providence, N.J., 1967

Louis Camille Maillard

4 February 1878 - 12 May 1936

French, b. Pont-à-Mousson, Lothringen, France

Maillard browning reaction

Maillard, L.C., *Compt. Rend.* **1912**, 154, 66

Biographical references:

Achard, C., *Compt. Rend. Soc. Biol.* **1936**, 122, 347

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Pogg. **1926**, 5, 793; 7b, 3073

Strahlmann, B. *Alimenta* **1978**, 17, 144, 146

Carl Ulrich Franz Mannich

8 March 1877 - 5 March 1947

German, b. Breslau, Germany, now Wroclaw, Poland

Mannich reaction

Mannich, C.; Krosche, W., *Arch. Pharm.* **1912**, 250, 647

Biographical references:

Bohme, H., *Chem. Ber.* **1955**, 88, 1

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Hannibal: Missouri, 1968

Friedrich, C.; Dallmann, C. *Pharm. Ztg.* **1991**, 136, 9-13, 16, 18, 23

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James Marsh

2 September 1794 - 21 June 1846

British, b. London, England

Marsh arsenic test

Marsh, J. *Ann. Chem.* **1837**, 23, 207

Marsh, J. *Ann. Chem.* **1840**, 34, 237

Marsh, J. *Edinburgh New Phil. J.* **1836**, 23, 207

Biographical references:

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Hannibal: Missouri, 1968

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James Cullen Martin

14 January 1928 - ?

American, b. Dover, Tennessee, USA

Dess-Martin oxidation

see Daniel Benjamin Dess

Biographical references:

Press, Jaques Cattell (ed.) *American Men & Women of Science*, 14th ed., R.R. Bowker Co.: New York, 1979

Carl Alexander Martius

19 January 1838 – 26 February 1920

German, b. Munich, Germany

Hofmann-Martius rearrangement

Hofmann, A.W.; Martius, C.A., *Chem. Ber.* **1871**, 4, 742

Hofmann, A.W. *Chem. Ber.* **1872**, 5, 704; 720

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Biographical references:

Wichelhaus, H. *Ber.* **1920**, 53, 72

V.F. Martynoff

Russian, b. ?

Martynoff rearrangement

Martynoff, V.F.; Titov, M.I., *J. Gen. Chem. USSR* **1960**, 30, 4072

Biographical references:

Charles Henri Marschalk

15 September 1885 – 28 February 1968

Swiss, b. Münster, Switzerland

Marschalk reaction

Marschalk, C., *Bull. Soc. Chim. Fr.* **1939**, 6, 655

Biographical references:

Pogg. **1938**, 6(3), 1654; **1974**, 7B(5), 3140

Stuart W. McCombie

British, b. ?

Barton-McCombie reaction

see Derek H. R. Barton

Biographical references:

John S. McFadyen

British, b. ?

McFadyen-Stevens reaction

McFadyen, J.S.; Stevens, T.S., *J. Chem. Soc.* **1936**, 584

Biographical references:

Fred Warren McLafferty

11 May 1923 -

American, b. Evanston, Illinois, USA

McLafferty rearrangement

McLafferty, F.W., *Anal. Chem.* **1959**, 31, 82

Biographical references:

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New Providence, New Jersey, 1998

John Edward McMurry

27 July 1942 -

American, b. New York, New York, USA

McMurry reaction

McMurry, J.E.; Fleming, M.P., *J. Am. Chem. Soc.* **1974**, 96, 4708

Biographical references:

R.R. Bowker's American Men & Women of Science 1998 - 99, 20th ed., R.R. Bowker:
New Providence, New Jersey, 1998

Hans Leberecht Meerwein

30 May 1879 - 24 October 1965

German, b. Hamburg, Germany

Wagner-Meerwein rearrangement

Wagner, G., *J. Russ. Phys. Chem.* **1899**, 31, 690

Meerwein, H., *Ann. Chem.* **1914**, 405, 129

Meerwein arylation reaction

Meerwein, H.; Büchner, E.; van Emster, K., *J. Prakt. Chem.* **1939**, 152, 237

Meerwein-Ponndorf-Verley reduction

Meerwein, H.; Schmidt, R., *Ann. Chem.* **1924**, 444, 221

Ponndorf, W., *Angew. Chem.* **1926**, 39, 138

Verley, A., *Bull. Soc. Chim. Fr.* **1925**, 37, 537

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Hesse, G., *Angew. Chem.* **1949**, 61, 161

Wurster, C., *Angew. Chem.* **1959**, 71, 317

Criegee, R., *Angew. Chem.* **1966**, 78, 347

Dimroth, K., *Angew. Chem.* **1966**, 78, 353

Personal communication, Dr. Otto-Albrecht Neumüller, February 2002

Jakob Meisenheimer

14 June 1876 - 2 December 1934

German, b. Griesheim am Main,
Germany

Meisenheimer rearrangement

Meisenheimer, J., *Chem. Ber.* **1919**, 52, 1667

Biographical references:

Mills, W.H., *J. Chem. Soc.* **1935**, 1355

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http://www.biblio.tu-bs.de/acwww25u/wbi_en/

Anon., *Angew. Chem.* **1935**, 48, 55

Nikolai Aleksandrovich Menshutkin

25 October 1842 - 5 February 1907

Russian, b. St. Petersburg, Russia

Menshutkin reaction

Menshutkin, N., *Z. Physik. Chem.* **1890**, 5, 589

Biographical references:

W.A.T., *J. Chem. Soc.* **1911**, 99, 1660

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Robert Bruce Merrifield



15 July 1921 – 14 May 2006
American, b. Fort Worth, Texas, USA

Nobel Prize Chemistry 1984

Merrifield solid-phase synthesis of peptides

Merrifield, R.B., *J. Am. Chem. Soc.* **1963**, 85, 2149

Biographical references:

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Kurt Otto Hans/Heinrich Meyer

29 September 1883 - 14 April 1952

German-Estonian, b. Dorpat, Estonia

Meyer-Schuster rearrangement

Meyer, K.H.; Schuster, K., *Chem. Ber.* **1922**, 55, 819

Biographical references:

Oesper, R.E., *J. Chem. Educ.* **1950**, 27, 665

van der Wyk, A.J.A., *Helv. Chim. Acta* **1952**, 35, 1418

Hopff, H., *Chem. Ber.* **1959**, 92, CXXI

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Jeanloz, R.W. *Adv. Carbohydrate Chem.* **1956**, 11, xiii

Albert Irving Meyers

22 November 1932 -

American, b. New York, New York, USA

Meyers aldehyde synthesis

Meyers, A.I.; Nabeya, A.; Adickes, H.W.; Politzer, I.R. *J. Am. Chem. Soc.* **1969**, *91*, 763

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Arthur Michael

7 August 1853 - 8 February 1942

American, b. Buffalo, New York, USA

Michael 1,4-addition reactions

Michael, A., *J. Prakt. Chem.* **1887**, *35*, 349

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August Karl Arnold Michaelis

26 December 1847 - 31 January 1916

German, b. Bierbergen, Hannover, Germany

Arbuzov-Michaelis reaction

see [Aleksandr Erminingeldovich Arbuzov](#)

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Wilhelm von Miller

9 December 1848 - 1 March 1899

German, b. Munich, Germany

Doebner-Miller reaction

see Oscar Doebner

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Doebner, O., *Chem. Ber.* **1899**, 32, 3756

Oyo Mitsunobu

1934 -

Japanese, b. ?

Mitsunobu reaction

Mitsunobu, O., *Bull. Chem. Soc. Jpn.* **1967**, 40, 4235

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Biographical references:

Teruaki Mukaiyama

5 January 1927 – 17 November 2018

Japanese, b. Japan

Mukaiyama aldol reaction

Mukaiyama, T.; Banno, K.; Narasaka, K. *J. Am. Chem. Soc.* **1974**, 96, 7503

Mukaiyama, T.; Ishihara, I.; Inomata, K. *Chem. Lett.* **1975**, 527

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Shun-Ichi Murahashi

1937 –

Japanese, b. ?

Murahashi reaction

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Sergei Semenovich Nametkin

3 July 1876 - 5 August 1950

Russian, b. Kazan, Russia

Nametkin rearrangement

Nametkin, S.S., *Ann. Chem.* **1923**, 432, 207

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Bernard Napieralski

Bischler-Napieralski reaction

see August Bischler

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Hanzlik, R.P.; Hogberg, K.; Judson, C.M., *Biochemistry* **1984**, 23, 3048

Ivan Nikolaevich Nazarov

12 June 1906 - 30 July 1957

Russian, b. Koshelev, Vladimir Province (now Gorkii), Russia

Nazarov cyclization

Nazarov, I.N.; Pinkina, L.N., *Bull. Acad. Sci. USSR, Classe Sci. Chim.* **1946**, 633 (see *Chem. Abs.* **1948**, 42, 7731i)

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Peter W. Neber

11 September 1883 - 26 December 1960

German, b. Altenbamberg, Germany

Neber rearrangement

Neber, P.W.; Friedolsheim, A. von, *Ann. Chem.* **1926**, 449, 109

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John Ulric Nef

14 June 1862 - 13 August 1915

Swiss-American, b. Herisau, Kanton Ausser Appenzell, Switzerland

Nef reaction

Nef, J.U., *Ann. Chem.* **1894**, 280, 263

Biographical references:

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Ei-Ichi Negishi

14 July 1935 – 6 June 2021

Chinese-American, b. Shinkyō, China

Negishi coupling

Negishi, E.; King, A.O.; Okukado, N. *J. Org. Chem.* **1977**, 42, 1821

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Costin D. Nenitzescu

15 July 1902 - 28 July 1970

Romanian, b. Bucharest, Romania

Nenitzescu indole synthesis

Nenitzescu, C.D. *Bull. Soc. Chim. Romania* **1929**, 11, 37

Nenitzescu reductive acylation

Nenitzescu, C.D.; Cioranescu, E. *Chem. Ber.* **1936**, 69, 1820

Balaban-Nenitzescu-Prail synthesis of pyrylium salts

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Aleksandr Nikolaevich Nesmeyanov

9 September 1899 - 17 January 1980

Russian, b. Moscow, Russia

Nesmeyanov's diazo method

Nesmeyanov, A.N. *Chem. Ber.* **1929**, 62, 1010

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Carl Neuberg

29 July 1877 - 30 May 1956

German, b. Hannover, Germany

Neuberg degradation

Neuberg, C.; v. May, A. *Biochem. Z.* **1923**, 140, 311

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Auhagen, E. *Biochem. Z.* **1956**, 328, 323

Nord, F.F. *Adv. Carbohydrate Chem.* **1958**, 13, 1

Melvin Spencer Newman

10 March 1908 - 30 May 1993

American, b. New York, New York, USA

Newman-Kwart rearrangement

Kwart, H.; Evans, R. *J. Org. Chem.* **1966**, 31, 410

Newman, M.S.; Karnes, H.A. *J. Org. Chem.* **1966**, 31, 3980

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Kenneth N. Nicholas

20 July 1947 -

American, b. Jamaica, New York, USA

Nicholas reaction

Nicholas, K.M. *Acc. Chem. Res.* **1987**, 20, 207

Nicholas, K.M.; Pettit, R. *J. Organometallic Chem.* **1972**, 44, C21

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New Providence, New Jersey, 1998

Julius Arthur Nieuwland

14 February 1878 - 11 July 1936

Belgian-American, b. Hansbeke, near Ghent, Belgium

Nieuwland enyne synthesis

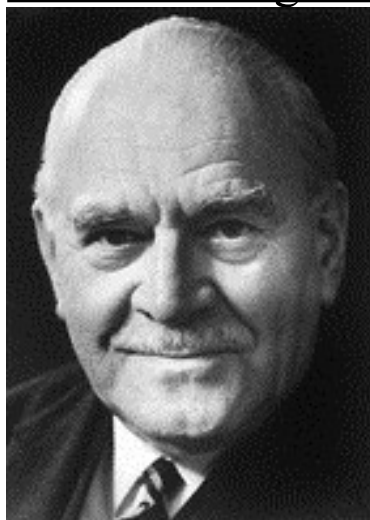
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Ronald George Wreyford Norrish



9 November 1897 - 7 June 1978

British, b. Cambridge, England

Nobel Prize Chemistry 1967

Norrish Type I and Type II reactions

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Ryoji Noyori



3 September 1938 -
Japanese, b. Kobe, Japan

Nobel Prize Chemistry 2001

Noyori hydrogenation

Ikariya, T.; Ishii, Y.; Kawano, H.; Arai, T.; Saburi, M.; Yoshikawa, S.; Akutagawa, S., *Chem. Commun.* **1985**, 922

Noyori, R.; Ohta, M.; Hsiao, Y.; Kitamura, M.; Ohta, T.; Takaya, H., *J. Am. Chem. Soc.* **1986**, 108, 7117

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Noyori, R. *Green Chem.* **2003**, 5, G37

Hitosi Nozaki

Japanese, b. ?

Nozaki reaction

Takai, K.; Kimura, K.; Kuroda, T.; Hiyama, T.; Nozaki, H., *Tetrahedron Lett.* **1983**, 24, 5281

Biographical references:

Rupert Viktor Oppenauer

3 February 1910 - 1969

Austrian, b. Burgstall, Südtirol, Austria

Oppenauer oxidation

Oppenauer, R.V., *Rec. Trav. Chim.* **1937**, 56, 137

Biographical references:

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Kennedy Joseph Previté Orton

21 January 1872 - 16 March 1930

British, b. St. Leonards-on-Sea, England

Orton rearrangement

Orton, K.J.P. *Proc. Roy. Soc. London* **1903**, 71, 153

Orton, K.J.P.; Jones, W.J. *Trans. Chem. Soc.* **1909**, 95, 1456

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Shorter, J. *Chem. Soc. Rev.* **1998**, 27, 355

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Carl Paal

1 July 1860 - 11 January 1935

Austrian, b. Salzburg, Austria

Paal-Knorr pyrrole synthesis

see Ludwig Knorr

Biographical references:

Bauer, K.H., *Chem. Ber.* **1935**, 68A, 43

Busch, M., *Angew. Chem.* **1930**, 43, 631

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Mario Torquato Luigi Passerini

29 August 1891 - 1962

Italian, b. Scandicci, Italy

Passerini reaction

Passerini, M. *Gazz. Chim. Ital.* **1921**, 51, 126; 181

Passerini, M. *Gazz. Chim. Ital.* **1923**, 53, 410

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Biographical references:

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Emanuele Paternó, Marquis di Sessa

12 December 1847 - 18 January 1935

Italian, b. Palermo, Sicily, Italy

Paternó-Büchi reaction

See George Hermann Büchi

Biographical references:

Pope, W.J., *J. Chem. Soc.* **1937**, 181

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Peter Ludwig Pauson

1925 -

British-German, b. Bamberg, Germany

Pauson-Khand reaction

see Ihsan U. Khand

Biographical references:

Watts, W.E. *J. Organomet. Chem.* **1991**, 413, xi

Pauson, P.L. *J. Organomet. Chem.* **2001**, 637-639, 3

Hans von Pechmann

1 April 1850 – 19 April 1902

German, b. Nürnberg, Germany

von Pechmann condensation

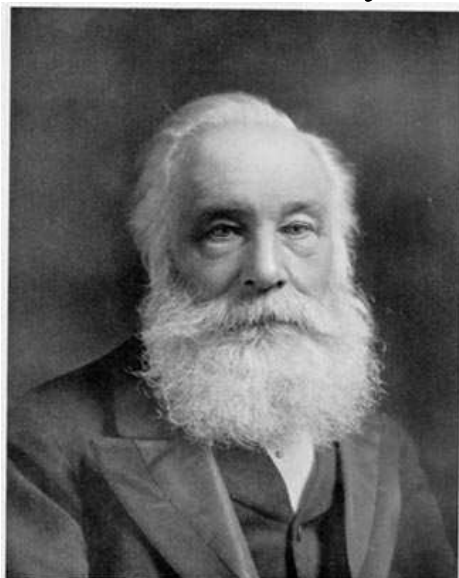
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Königs, W., *Chem. Ber.* **1903**, 36, 4417

Sir William Henry Perkin



*Yours sincerely
W. H. Perkin*

12 March 1838 - 14 July 1907

British, b. Shadwell, South London, England

Perkin reaction

Perkin, W.H., *J. Chem. Soc.* **1868**, 21, 53

Perkin rearrangement

Perkin, W.H., *J. Chem. Soc.* **1870**, 23, 368

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