

# NAMED ORGANIC REACTIONS

## (M – P)

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

### Louis Camille Maillard

1878 - 1936

French, b. ?

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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Sannie, C., Bull. Soc. Chim. Fr. **1937**, 4, 21

Pogg. **1926**, 5, 793

### Carl 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, I

Debus, Allen G. (ed.) World Who's Who in Science, 1st ed., Marquis-Who's Who, Inc.: Hannibal: Missouri, 1968

## James Cullen Martin

14 January 1928 -

American, b. Dover, Tennessee, USA

Dess-Martin oxidation

see D.B. 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

Hofmann, A.W. *Chem. Ber.* **1874**, 7, 526

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:

R.R. Bowker's *American Men & Women of Science* 1998 - 99, 20th ed., R.R. Bowker:  
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 Lebrecht 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  
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Hesse, G., Angew. Chem. **1949**, 61, 161

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

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

## 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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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:

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Lutz-Riga, O., Angew. Chem. **1907**, 20, 609

Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 585

## Robert Bruce Merrifield



15 July 1921 -  
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:

Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., Biographical Encyclopedia of Scientists, Institute of Physics Publishing: Bristol, UK, 1994

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Merrifield, R.B., Life During a Golden Age of Peptide Chemistry: The Concept and Development of Solid Phase Peptide Synthesis, ACS: Washington, 1993

Kurt 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

Mark, H., Angew. Chem. **1952**, 64, 521

## 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

### Biographical references:

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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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H. Wickelhaus, Chem. Ber. **1916**, 49, 468

## Wilhelm von Miller

9 December 1848 - 1 March 1899

German, b. Munich, Germany

Doebner-Miller reaction

see Oscar Doebner

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[http://www.biblio.tu-bs.de/acwww25u/wbi\\_en/](http://www.biblio.tu-bs.de/acwww25u/wbi_en/)

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

## Oyo Mitsunobu

1934 -

Japanese, b. ?

Mitsunobu reaction

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

Mitsunobu, O., Tetrahedron **1970**, 26, 5731

Biographical references:

## Teruaki Mukaiyama

5 January 1927 –

Japanese, b. ?

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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Banno, K.; Mukaiyama, T. *Chem. Lett.* **1974**, 741

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### Shun-Ichi Murahashi

1937 –

Japanese, b. ?

#### Murahashi reaction

Tanigawa, Y.; Ohta, H.; Sonoda, A.; Murahashi, S.I. *J. Am. Chem. Soc.* **1978**, 100, 4610

Tanigawa, Y.; Kanamaru, H.; Sonoda, A.; Murahashi, S.I., *J. Am. Chem. Soc.* **1977**, 99, 2361

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Murahashi, S.I., *Bull. Chem. Soc. Jpn.* **1996**, 69, 1805

### Sergei Semenovich Nametkin

3 July 1876 - 5 August 1950

Russian, b. Kazan, Russia

#### Nametkin rearrangement

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

#### Biographical references:

Gillispie, Charles Coulston (ed.), *Dictionary of Scientific Biography*, Charles Scribner & Sons: New York, 1980

### 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)

Biographical references:

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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

### Biographical references:

World Biographical Index, K.G. Saur Publishing,  
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Pogg. **1938**, 6(3), 1830

Anon., Angew. Chem. **1943**, 56, 280

Pogg. **1962**, 7A(4II), 151

## 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:

Wolfrom, M.L., Biog. Memoirs Natl. Acad. Sci. **1960**, 34, 204

Farber, Eduard (ed.), Great Chemists, Interscience Publishers: New York, 1961

Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., Biographical Encyclopedia of Scientists, Institute of Physics Publishing: Bristol, UK, 1994

## Julius Arthur Nieuwland

14 February 1878 - 11 July 1936

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

### Nieuwland enyne synthesis

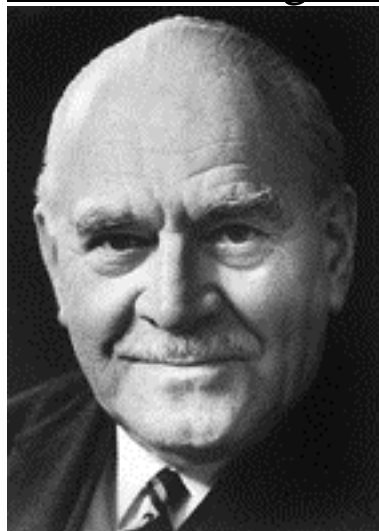
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Calcott, W.S., J. Chem. Soc. **1937**, 708

Daintith, J.; Mitchell, S.; Tootill, E.; Gjersten, D., Biographical Encyclopedia of Scientists, Institute of Physics Publishing: Bristol, UK, 1994

## 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

Bamford, C.H.; Norrish, R.G.W., J. Chem. Soc. **1935**, 1504

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Dainton, Sir F.; Thrush, B.A., Biog. Memoirs Fellows Roy. Soc. **1981**, 27, 379

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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.; Tokunaga, M.; Kitamura, M., *Bull. Chem. Soc. Jpn.* **1995**, 68, 36

Rouhi, A.M. *Chem. Eng. News* **2001**, 79(30), 33

Hitosi Nozaki

Japanese, b. ?

Nozaki reaction

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

Rupert V. Oppenauer

1910 -

Austrian, b. Burgstall, Südtirol, Austria

Oppenauer oxidation

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

Biographical references:

Fieser, L.F.; Fieser, M. *Organische Chemie*, Verlag Chemie GmbH: Weinheim, 1965, p. 469

## Kennedy Joseph Previt  Orton

21 January 1872 - 16 March 1930

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

Orton rearrangement

Orton, K.J.P. *Proc. Roy. Soc. London* **1902**, 71, 156

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

Biographical references:

H.K. *J. Chem. Soc.* **1930**, 1042

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

## 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

Anon., *Angew. Chem.* **1935**, 48, 206

## Emanuele Patern , 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

Bargellini, G., *Chem. Ber.* **1935**, 68A, 47

Debus, Allen G. (ed.) *World Who's Who in Science*, 1st ed., Marquis-Who's Who, Inc.: Hannibal: Missouri, 1968

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Peter Ludwig Pauson

1925 -

Pauson-Khand reaction

see I.U. Khand

Biographical references:

Hans von Pechmann

1 April 1850 – 19 April 1902

German, b. Nürnberg, Germany

von Pechmann reaction

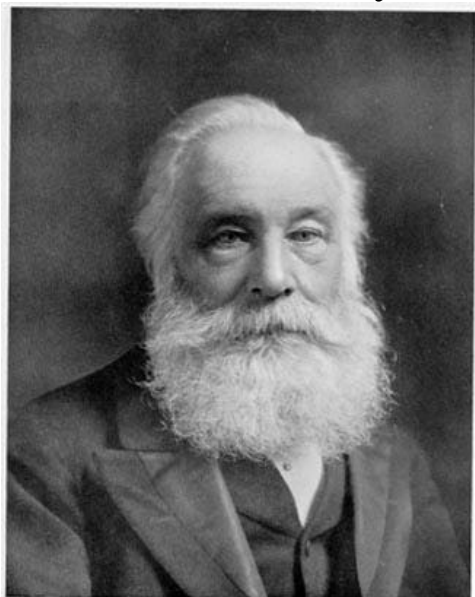
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Biographical references:

Pogg. **1898**, 3, 1011; **1904**, 4, 1126; **1926**, 5, 951

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

### Biographical references:

Meldola, R., J. Chem. Soc. **1908**, 93, 2214

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Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 850

## Donald J. Peterson

19 November 1935 -

American, b. Ladysmith, Wisconsin, USA

Peterson reaction

Peterson, D.J., *J. Org. Chem.* **1968**, 33, 780

Biographical references:

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

## Max Polonovski

20 February 1861 – 8 May 1939

Russian-French, b. Pruzany, Russia

Polonovski reaction

Polonovski, M.; Polonovski, M., *Bull. Chim. Soc. Fr.* **1926**, 39, 147

Polonovski, M.; Polonovski, M., *Bull. Chim. Soc. Fr.* **1927**, 41, 1190

Biographical references:

Pogg. **1926**, 5, 993; **1938**, 6(3), 2045; **1980**, 7B(6), 4077

Delaby, R., *Bull. Soc. Chim. Fr.* **1939**, 6, 1269

## Wolfgang Ponndorf

German, b. ?

Meerwein-Ponndorf-Verley reduction

see Hans Lebrecht Meerwein

Biographical references:

## Nikolai Aleksandrovich Prilezhaev

28 (27) September 1872 – 26 May 1944

Russian, b. Niznij Novgorod, Gorki, Russia

## Prilezhaev reaction

Prilezhaev, N., *Chem. Ber.* **1909**, 42, 4811

### Biographical references:

Akhrem, A.A., *Zh. Ob. Khim.* **1951**, 21, 1925

Schulz, H.E.; Urban, P.K.; Lebed, A.I. (eds.) *Who Was Who in the USSR*, The Scarecrow Press, Inc.: Metuchen, NJ, 1972

## Hendrik Jacobus Prins

18 May 1889 – 14 January 1958

Dutch, b. Zaandam, Netherlands

## Prins reaction

Prins, H.J., *Chem. Weekblad.* **1917**, 14, 932

Prins, H.J., *Chem. Weekblad.* **1919**, 16, 1072; 1510

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### Biographical references:

Pogg. **1938**, 6(3), 2083; **1980**, 7B(6), 4150

Gerding, H., *Chem. Weekbl.* **1958**, 54, 401

## Rudolf Pummerer

26 July 1882 - 11 July 1973

Austrian, b. Wels, Austria

## Pummerer rearrangement

Pummerer, R., *Chem. Ber.* **1910**, 43, 1401

### Biographical references:

Oesper, R.E., *J. Chem. Educ.* **1951**, 28, 243

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