

# NAMED ORGANIC REACTIONS (I-L)

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

## Robert Ellsworth Ireland

12 April 1929 –

American, b. Cincinnati, Ohio, USA

### Claisen-Ireland rearrangement

Ireland, R.E.; Mueller, R.H., *J. Am. Chem. Soc.* **1972**, 94, 5897

Ireland, R.E.; Willard, A.K., *Tetrahedron Lett.* **1975**, 3975

### Biographical references:

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

## Eric Niels Jacobsen

1960 –

### Sharpless-Jacobsen hydroxylation

Jacobsen, E.N.; Marko, I.; Mungall, W.S.; Schroder, G.; Sharpless, K.B.,  
*J. Am. Chem. Soc.* **1988**, 110, 1968

Wai, J.S.M.; Marko, I.; Svendsen, J.S.; Finn, M.G.; Jacobsen, E.N.; Sharpless, K.B., *J. Am. Chem. Soc.* **1989**, 111, 1123

### Biographical references:

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

## Francis Robert Japp

8 February 1848 – 1 August 1925

Scottish, b. Dundee, Scotland

Japp-Klingemann reaction

Japp, F.R.; Klingemann, F., *Ann. Chem.* **1888**, 247, 190

Biographical references:

Pogg. **1898**, 3, 686; **1904**, 4, 700; **1926**, 5, 584; **1937**, 6(2), 1226

Findlay, A., *J. Chem. Soc.* **1926**, 129, 1008

J.F.T., *Proc. Roy. Soc. London Ser. A* **1928**, 118, iii

William Summer Johnson

24 February 1913 - 19 August 1995

American, b. New Rochelle, New York, USA

Lemieux-Johnson reaction

Pappo, R.; Allen, D.S., Jr.; Lemieux, R.U.; Johnson, W.S., *J. Org. Chem.* **1956**, 21, 478

Biographical references:

Johnson, W.S., *A Fifty-Year Love Affair with Organic Chemistry*, ACS: Washington, 1998

Sir Ewart Ray Herbert Jones

16 March 1911 -

British, b. Wrexham, Denbighshire, Wales

Jones oxidation

Bowden, K.; Heilbron, I.M.; Jones, E.R.H.; Weedon, B.C.L., *J. Chem. Soc.* **1946**, 39

Curtis, R.G.; Heilbron, I.M.; Jones, E.R.H.; Woods, G.F., *J. Chem. Soc.* **1953**, 457

Halsall, T.G.; Hodges, R.; Jones, E.R.H., *J. Chem. Soc.* **1953**, 3019

Bowers, A.; Halsall, T.G.; Jones, E.R.H.; Lemin, A.J., *J. Chem. Soc.* **1953**, 2548

Biographical references:

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

Anon., *Chem. Eng. News.* **1962**, 40(13), 93

## Marc Julia

1922 -

French, b. ?

Julia synthesis

Julia, M.; Paris, J.M., *Tetrahedron Lett.* **1973**, 4933

Biographical references:

*Chemical Research Faculties: An International Directory 1996*, American Chemical Society: Washington, D.C., 1996

## Daniel Schaeffer Kemp

20 October 1936 -

American, b. Portland, Oregon, USA

Kemp reaction

Kemp, D.S., *Tetrahedron* **1967**, 23, 2001

Biographical references:

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

## I.U. Khand

Pauson-Khand reaction

Khand, I.U.; Knox, G.R.; Pauson, P.L.; Watts, W.E.; Forman, M.I., *J. Chem. Soc. Perkin Trans. I*, **1973**, 977

Biographical references:

## Morris Selig Kharasch

24 August 1895 – 7 October 1957

Ukrainian-American, b. Kremenents, Ukraine (formerly Krzemieniec, Poland)

## Kharasch cyclization

Kharasch, M.S.; Jensen, E.V.; Urry, W.H., *Science* **1945**, 102, 128

## Biographical references:

Westheimer, F.H., *Biog. Mem. Natl. Acad. Sci.* **1960**, 34, 123

## Heinrich Kiliani

30 October 1855 - 25 February 1945

German, b. Wurzburg, Bavaria, Germany

## Kiliani-Fischer synthesis

see Emil Hermann Fischer

## Biographical references:

Kiliani, H., *J. Chem. Educ.* **1932**, 9, 1908

Huckel, W., *Chem. Ber.* **1949**, 82, 1

## C.U. Kim

## Corey-Kim oxidation

see Elias James Corey

## Biographical references:

## Nikolai Matveevich Kishner (Kizhner)

1867 - 1935

Russian, b. Moscow, Russia

## Wolff-Kishner reduction

Kishner, N., *J. Russ. Phys. Chem. Soc.* **1911**, 43, 582

Wolff, L., *Ann. Chem.* **1912**, 394, 86

## Biographical references:

Morris, Peter Biographies of Chemists, Royal Society of Chemistry,  
<http://www.chem.qmw.ac.uk/rschg/biog.html>

Nametkin, S.S., Zhur. Obshchei Khim. **1936**, 6, 1379

## F. Klingemann

Japp-Klingemann reaction

see F.R. Japp

Biographical references:

## Emil Knoevenagel

18 June 1865 - 11 August 1921

German, b. Hannover-Linden, Germany

Knoevenagel condensation

Knoevenagel, E., Chem. Ber. **1898**, 31, 2596

Biographical references:

Wilke, E., Angew. Chem. **1922**, 35, 29

Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.:  
London, 1964, p. 838

## Ludwig Knorr

2 December 1859 - 5 June 1921

German, b. Munich, Germany

Knorr pyrrole synthesis

Knorr, L., Ann. Chem. **1886**, 236, 290

Knorr, L., Chem. Ber. **1884**, 17, 1635

Paal-Knorr pyrrole synthesis

Paal, C., Chem. Ber. **1885**, 18, 367

Knorr, L., Chem. Ber. **1885**, 18, 299

### Biographical references:

Duden, P.; Kaufmann, H.P., Chem. Ber. **1927**, 60A, 1

Morris, Peter Biographies of Chemists, Royal Society of Chemistry,  
<http://www.chem.qmw.ac.uk/rschg/biog.html>

Duden, P., Angew. Chem. **1921**, 34, 269

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

Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 837

## Julius Arnold Koch

1864 - ?

American, b. ?

Gattermann-Koch reaction

see Ludwig Gattermann

### Biographical references:

Biography and Genealogy Master Index,  
<http://www.library.yale.edu/pubstation/databases/biogen.html>

## Jay Kazuo Kochi

17 May 1927 -

American, b. Los Angeles, California, USA

Kochi reaction

Kochi, J.K., J. Am. Chem. Soc. **1965**, 87, 2500

### Biographical references:

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

## Adolphe Wilhelm Hermann Kolbe

27 September 1818 - 25 November 1884  
German, b. Elliehausen, near Göttingen, Germany

### Kolbe-Schmitt reaction

Kolbe, H., *Ann. Chem.* **1860**, 113, 125  
Schmitt, R., *J. Prakt. Chem.* **1885**, 31, 397

### Biographical references:

Porter, Roy (ed.), *The Biographical Dictionary of Scientists*, 2nd ed.,  
Oxford University Press: New York, 1994

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

Abbott, David (ed.), *The Biographical Dictionary of Scientists: Chemists*, Peter  
Bedrick Books: New York, 1983

Partington, J.R., *A History of Chemistry*, Vol. IV, Macmillan and Co., Ltd.: London,  
1964, p. 500

## Oleg G. Kulinkovich

Russian, b. ?

### Kulinkovich reaction

Kulinkovich, O.G.; Sviridov, S.V.; Vasilevskii, D.A.; Pritytskaya, T.S.,  
*Zh. Org. Khim.* **1989**, 25, 2244

Kulinkovich, O.G.; Sviridov, S.V.; Vasilevskii, D.A.; Savchenko, A.I.; Pritytskaya, T.S.,  
*Zh. Org. Khim.* **1991**, 27, 294

Kulinkovich, O.G.; Vasilevskii, D.A.; Savchenko, A.I.; Sviridov, S.V.,  
*Zh. Org. Khim.* **1991**, 27, 1428

Kulinkovich, O.G.; Sviridov, S.V.; Vasilevskii, D.A., *Synthesis* **1991**, 234

### Biographical references:

## Arthur Lapworth

10 October 1872 - 5 April 1941  
Scottish, b. Galashiels, Scotland

### Lapworth reaction

Lapworth, A., *J. Chem. Soc.* **1903**, 83, 995  
Lapworth, A., *J. Chem. Soc.* **1904**, 85, 1206

### Biographical references:

Robinson, R., J. Chem. Soc. **1947**, 989

Abbott, David (ed.), The Biographical Dictionary of Scientists: Chemists, Peter Bedrick Books: New York, 1983

Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.: London, 1964, p. 852

Robinson, Sir R., Roy. Soc. Obit. Not. Fellows **1945 - 1946**, 5, 555

## Raymond Urgel Lemieux

16 June 1920 – 22 July 2000

Canadian, b. Lac la Biche, Alberta, Canada

Lemieux-Johnson reaction

see William Summer Johnson

### Biographical references:

Lemieux, R.U., Acc. Chem. Res. **1996**, 29, 373

Lemieux, R.U., Explorations with Sugars: How Sweet It Was, ACS: Washington, 1990

## Carl Louis Rudolf Alexander Leuckart

23 June 1854 - 24 July 1889

German, b. Giessen, Germany

Leuckart reaction

Leuckart, R., Chem. Ber. **1885**, 18, 2341

### Biographical references:

Buchka, K., Chem. Ber. **1889**, 22, 855

## Karl Löffler

4 December 1878 - ? October 1910

German, b. Reichenberg, Böhmen, Germany

Hofmann-Löffler-Freytag reaction

see August Wilhelm von Hofmann

Biographical references:

World Biographical Index, K.G. Saur Publishing,  
[http://www.biblio.tu-bs.de/acwww25u/wbi\\_en/](http://www.biblio.tu-bs.de/acwww25u/wbi_en/)

Pogg. **1926**, 5, 758

Wilhelm Lossen

8 May 1838 - 29 October 1906

German, b. Kreuznach, Germany

Lossen rearrangement

Lossen, W., Ann. Chem. **1872**, 161, 347

Biographical references:

World Biographical Index, K.G. Saur Publishing,  
[http://www.biblio.tu-bs.de/acwww25u/wbi\\_en/](http://www.biblio.tu-bs.de/acwww25u/wbi_en/)

Partington, J.R., A History of Chemistry, Vol. IV, Macmillan and Co., Ltd.:  
London, 1964, p. 806