

**Justus LIEBIG**  
(Erlangen, 1822)  
- benzylic acid rearrangement 1838

**Carl SCHMIDT**  
(Giessen, 1844)

**Wilhelm OSTMWALD**  
(Dorpat, 1878) Chemistry Nobel Prize 1909  
- Berzelius-Ostwald catalysis concept 1836

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**Louis KAHLENBERG**  
(Leipzig, 1895)

**Francis C. KRAUSKOPF**  
(Wisconsin, 1909)

**Clarence H. SORUM**  
(Wisconsin, 1927)

**John O. EDWARDS**  
(Wisconsin, 1951)  
- Edwards equation 1956  
- alpha effect nucleophiles  
1962

**William LASH MILLER**  
(Leipzig, 1892)

 **Andrew R. GORDON**  
(Toronto, 1925)

 **Harry E. GUNNING**  
(Toronto, 1942)

 **Otto P. STRAUSZ**  
(Alberta, 1962)  
- evidence for oxirene  
intermediate in Wolff  
rearrangement 1968  
- generation of carbynes  
1974