

BERGMAN TREE

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Torbern Olof Bergman
(Uppsala, 1758)

Anders G. Ekeberg
Discovery of element 73
tantalum (1802)

Johann Afzelius
(Uppsala, 1776)

Johann Gadolin
Discovery of element 39
yttrium (1794)

Scheelite (calcium tungstate);
Scheele's green (copper arsenite)
Discovery of element 17 chlorine (1774)
Discovery of element 8 oxygen (1774)

Johann Gottlieb Gahn
Discovery of element 25
manganese (1774)

Peter J. Hjelm
Discovery of element 42
molybdenum (1781)

Jons Jakob Berzelius
Discovery of element 58 cerium (1803)
Discovery of element 90 thorium (1815)
Discovery of element 34 selenium (1817)
Discovery of element 14 silicon (1824)

Sven O. Pettersson
(Uppsala, 1882)

Wohler urea synthesis
(1828)

Heinrich Rose
(Kiel, 1821)

Wilhelm Hisinger
Discovery of element 58
cerium (1803)

Johann A. Arfvedson
Discovery of element 3, lithium
(1817)

Hess' law
(1840)

Carl G. Mosander
Discovery of element 57
lanthanum (1839)
Discovery of element 65
terbium (1843)
Discovery of element 68
erbium (1842)

Arrhenius plot, equation
(1889) Concept of dissociation
of positive and negative ions
in aqueous solution
Chemistry Nobel 1903

Charles F. Chandler
(Goettingen, 1856)

Mitscherlich law of
isomorphism (1821)

Marston T. Bogert
(Columbia School of Mines, 1894)

Gustav's green salt
(1828)

Gustav H. Wiedemann
(Berlin, 1847)

John M. Nelson
(Columbia, 1907)

Ritter reaction
(1948)

Hal Trueman Beans
(Columbia 1904)

Scatchard plot
(1949)

John Northrup
Preparation of pure
forms of enzymes and
proteins
**Chemistry Nobel
1946**

Meyers aldehyde
synthesis (1969)

Hammett equation and constants (1935/7)
Zucker-Hammett hypothesis (1939)
Curtin-Hammett principle (1954)

Taft equation (1952)
Kamlet-Taft solvent parameters (1976)

Paul H.R. von Groth
(Berlin, 1868)

Muthmann's liquid (1899)

Per T. Cleve
Discovery of element 67 holmium (1878)
Discovery of element 69 thulium (1879)
Cleve's alpha acid (1875)
Cleve's beta acid (1887)
Cleve's gamma acid (1886)
Cleve's delta acid (1878)