

**Johannes Peter MUELLER**  
(Bonn, MD 1823)

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**Hermann von HELMHOLTZ**  
(Berlin, 1842)  
- conservation of energy 1847  
- Helmholtz equation 1882

**Wilhelm WIEN**  
(Berlin, 1886)  
Physics Nobel 1911  
- Wien displacement  
law 1893

**Hans RAU**  
(Wuerzburg, 1906)

 **Gerhard HERZBERG**  
(TU Darmstadt, 1928)  
Chemistry Nobel Prize 1971  
- detection of methyl radical 1956  
- singlet and triplet carbenes  
1959

**William F. MAGIE**  
(Berlin, 1885)

**Claude S. HUDSON**  
(Princeton, 1907)  
- Hudson's rules for  
predicting sign and  
magnitude of optical  
rotation of carbohydrates  
1924

**Edward L. NICHOLS**  
(Goettingen, 1879)

**William W. COBLENTZ**  
(Cornell, 1903)  
- infra-red spectroscopy 1905