

## Memorial Tablets\*

### **Gregori Aminoff 1883-1947**

Born 8 Feb. 1883 in Stockholm; died 11 Feb. 1947 in Stockholm.

1905 First academic degree, U. of Uppsala, after studying science in Stockholm.

1905 to about 1913 studied painting in Florence and Italy.

1913 Returned to science.

1918 Ph.D.; appointed Lecturer in Mineralogy and Crystallography U. of Stockholm. Thesis: *Calcite and Barytes from Långsbanshütten* (Sweden).

1923-47 Professor and Head of the Department of Mineralogy of the Museum of Natural History in Stockholm.

1930 Married Birgit Broomé, herself a crystallographer.  
*see Nature* (London) 1947, 159, 597 (G. Hägg).

### **Dirk Coster 1889-1950**

Born 5 Oct. 1889 in Amsterdam; died 12 Feb. 1950 in Groningen. Studied in Leiden, Delft, Lund (with Siegbahn) and Copenhagen (with Bohr).

1922 Dr.-ing. Tech. University of Delft.

Thesis: *X-ray Spectra and the Atomic Theory of Bohr*.

1923 Assistant of H. A. Lorentz, Teyler Stichting in Haarlem.

1924-50 Prof. of Physics and Meteorology, U. of Groningen.

### **Bergen Davis 1869-1951**

Born 31 March 1869 in White House, New Jersey; died 1951 in New York.

1896 B.Sc. Rutgers University.

1900 A.M. Columbia University (New York).

1901 Ph.D. Columbia University.

1901-02 Postgraduate work in Göttingen.

1902-03 Postgraduate work in Cambridge.

\* The author (P.P.E.) is particularly aware of the incompleteness of this section and would be grateful for being sent additional data.

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|------|----------------------|----------------------------------|
| 1903 | Instructor           | } Columbia University, New York. |
| 1910 | Assistant Professor  |                                  |
| 1914 | Associate Professor  |                                  |
| 1918 | Professor of Physics |                                  |
- Work on ionization, radiation, electron impact, physics of X-rays, X-ray spectroscopy with first two-crystal spectrometer.

### Clinton J. Davisson 1881-1937

Born 22 October 1881 in Bloomington, Ill.; died 1 February 1958 in Charlottesville, Virginia.

Educated: Bloomington public schools; scholarship for U. of Chicago for proficiency in mathematics and physics.

- 1908 B.Sc. U. of Chicago.  
 1911 Ph.D. Princeton University.  
 1911-17 Instructor in Physics, Carnegie Institute of Technology in Pittsburgh.  
 1917 War-time employment with Western Electric Co., engineering department, which later became Bell Telephone Labs.  
 1919-29 Studied thermionics, thermal radiation and electron scattering (first with C. M. Kunsman, later with L. H. Germer).  
 1927 Electron diffraction by nickel crystal observed.  
 1928 Comstock Prize of National Academy of Sciences.  
 1931 Elliott Cresson Medal of Franklin Institute.  
 1935 Hughes Medal of Royal Society.  
 1937 Nobel Prize (shared with G. P. Thomson).  
 1930-37 Electron Optics, especially of very slow electrons.  
 1946 Retired from Bell Telephone Labs.  
 1947-49 Visiting Professor U. of Virginia, Charlottesville.  
*see Science* 1945, 102, 216.

### Rosalind E. Franklin 1920-1958

Born 25 July 1920 in London; died 16 April 1958 in London.

- 1938-41 Cambridge Univ. (Chem., Phys., Miner., Math.)  
 1945 Ph.D. Cambridge. Thesis: *Physical Structure of Coal and related Materials*. Supervisor Dr. D. H. Bangham.  
 1942-46 Employed by Brit. Coal Utilisation Res. Ass.  
 1947-51 Worked at Lab. central des services chimiques de l'Etat in Paris; diffraction studies of coal and carbons.

- 1951–53 Introduced X-ray diffraction at King's College, London; work on DNA.
- 1953–58 Birkbeck College, London. Directed research on plant viruses by X-ray diffraction until her death from cancer. Papers in *Acta Cryst.* 1950, '51, '58 and *Nature* 1953 (172) and 1956 (177).

### **Hermanus Haga 1852-1936**

- Born 24 Jan. 1852 in Oldeboorn (Netherlands); died 11 Sept. 1936 in Zeist.
- 1871–76 Studied mathematics and physics at Leiden U.
- 1876 Ph.D. U. of Leiden. Thesis: *Absorption of radiant heat by water vapour.*
- 1886–1922 Professor of Physics, U. of Groningen.
- 1907 *Diffraction of X-rays by slit* (with C. H. Wind).
- 1914–16 *The symmetry of Laue diagrams* (with F. M. Jaeger).

### **Frans Maurits Jaeger 1877-1945**

- Born 11 May 1877 in 's-Gravenhage; died 2 March 1945 in Groningen.
- 1895–1900 Studied Chemistry in Leiden.
- 1900–02 Post-graduate work in Berlin.
- 1903 Ph.D. U. of Amsterdam. Thesis: *Crystalline and molecular symmetry of position-isomeric benzene derivatives.*
- 1904–07 Reader in Chemistry, U. of Amsterdam.
- 1909–42 Professor of Inorganic and Physical Chemistry, U. of Groningen.
- 1917 Book: *Lectures on the Principle of Symmetry and its Applications in all Natural Sciences.*
- 1919 *Historical Studies.*
- 1924 *Introduction to the Study of Crystals.*
- 1930 *Methods, Results, and Problems of Precise Measurement at High Temperatures* (George Fisher Baker Lectures).

### **Willem Hendrik Keesom 1876-1956**

- Born 21 June 1876 in Texel; died 4 March 1956 in Leiden.
- 1904 Ph.D. U. of Amsterdam. Thesis: *Isotherms of mixtures of oxygen and carbon dioxide.*
- 1900–09 Assistant, Physical Laboratory, Leiden.
- 1909–17 Conservator Physical Laboratory, Leiden.
- 1918–23 Prof. of Physics, Veterinary College, Utrecht.

- 1923-46 Prof. of Physics, U. of Leiden.  
 1924 X-ray structure analysis of solid CO<sub>2</sub>, N<sub>2</sub>O.  
 1926 Same for O<sub>2</sub>, N<sub>2</sub>, A and for ordinary and superconducting lead.  
*see Nature* (London) 1956, 177, 825 (Van Itterbeek).

### **Nicolaas Hendrik Kolkmeijer 1875-1950**

- Born 26 July 1875 in Amsterdam; died 15 June 1950 in Hilversum.  
 1915 Ph.D. U. of Amsterdam. Thesis: *Elimination of the concepts of axial system, length and time from the equations for the planetary movement.*  
 1915-40 Assistant, Physical Laboratory, U. of Amsterdam; Conservator, Veterinary College and Van 't Hoff Laboratory, Utrecht.  
 1920-21 Papers on time-space symmetry.  
 1928 Book: *Röntgenanalyse van Kristallen* (together with J. M. Bijvoet and A. Karssen).  
 1932 Co-author, *Internat. Tabellen zur Bestimmung von Kristallstrukturen.*

### **Walter Kossel 1888-1956**

- Born 4 January 1888 in Berlin; died 22 May 1956 in Tübingen.  
 1911 Ph.D. Heidelberg, in Physics (with Lenard).  
 1918-21 Privatdozent with Sommerfeld in Munich.  
 1921-31 Prof. Theoret. Physics, U. of Kiel.  
 1932-45 Prof. Theoret. Physics, T. H. Danzig.  
 1947-56 Prof. of Physics, U. of Tübingen.  
*see Naturwiss.* 1957, 44, 293.

### **Sir Kariamanikkam Srinivasa Krishnan 1898-1961**

- Born: 3 December 1898; died 14 June 1961 in New Delhi.  
 Educated: Christian Coll., Madras; U. Coll. of Science, Calcutta.  
 1923-28 Res. Asst. Ind. Assoc. for the Cultiv. of Science, Calcutta.  
 1929-33 Reader in Physics, U. of Dacca.  
 1933-42 Mahendral Sircar Prof. of Physics, Calcutta.  
 1942-47 Prof. of Physics and Head of Dept., U. of Allahabad.  
 1947-61 Director, National Physical Laboratory, New Delhi.

### **Alexander Müller 1889-1947**

- Born 29 April 1889 in Zürich; died 2 July 1947 in Essex (England).  
 1908 Leaves Industrieschule, Zürich.

- 1908–15 Studies Physics at the University of Zürich.  
 1915 Ph.D. Zürich. Thesis: *Messungen der thermischen Ausdehnung von kristallisiertem Quarz und von Gold zwischen 18° und 540°C.* (Supervisor Prof. A. Kleiner).  
 1915–18(?) University of Göttingen.  
 1918(?)–22 University of Cambridge (with G. I. Taylor).  
 1922 Research Assistant to Prof. W. H. Bragg, first at University College, London, then at Royal Institution.  
 1928 Assistant Director } Davy-Faraday Lab. at the R.I.  
 1946 Deputy Director }  
 1923 Fatty acids, paraffins.  
 1927–31 Rotating target X-ray generator.  
 1936–40 Physical properties of long-chain compounds.  
*see Nature* (London) 1947, 160, 323 (K. Lonsdale).

### Paul Niggli 1888-1953

- Born 26 January 1888 in Zofingen, Switzerland; died 13 January 1953 in Zürich.
- 1907–11 Student of geology and petrography at the Fed. Polytechnic School.  
 1912 Ph.D. U. of Zürich. Thesis: *Die Chloritoidschiefer des nordöstlichen Gotthardmassives.*  
 1913 Post-graduate work at the Geophysical Laboratory of the Carnegie Institution in Washington.  
 1915 Assistant Prof. of Mineralogy, U. of Leipzig (with F. Rinne).  
 1918–20 Prof. of Mineralogy, U. of Tübingen.  
 1920–53 Prof. of Mineralogy at the University of Zürich and the Federal Polytechnic School.  
 1921–39 Editor of *Zeitschrift für Kristallographie*, Vol. 56–101.  
 1919 *Geometrische Kristallographie des Diskontinuums*  
*see Experientia* (Basel) 1953, 9, 197–203 (F. Laves)  
*Neues Jahrbuch für Mineralogie*, Monatshefte 1953, pg. 51–67  
 (H. O'Daniel, K. H. Scheumann, H. Schneiderhöhn)  
*Acta Cryst.* 1953, 6, 225 (P. P. Ewald)  
*Schweiz. Min. Petr. Mitt.* 1953, 33, 1–9 (F. de Quervain, and bibliography.)  
*Nature* 1953, 171, 675 (W. Campbell-Smith)  
*Zs.f. angew. Math. Phys.* 1953, 4, 415–418 (E. Brandenberger).