

## CORNELIUS LANCZOS

### NBS/NIST: 1943-44 and 1949-1952

#### EDUCATION:

University of Budapest, Hungary, BA (Mathematics, Physics, and Philosophy), 1915

University of Szeged, Hungary, PhD (Mathematics and Physics), 1921

#### CITATION:

For exceptional contributions to the numerical solution to eigenvalue problems of wide impact in computational physics and engineering.

#### POSITIONS HELD AT NBS/NIST:

Staff Member, Mathematical Tables Project, National Applied Mathematics Laboratory, 1943-1944

Senior Researcher, NBS Institute for Numerical Analysis, National Applied Mathematics Laboratory, 1949-1952

#### HONORS:

Scientific Assistant to Albert Einstein (1928-29)

Walker-Ames Lecturer, University of Washington (1947)

Chauvenet Prize, Mathematical Association of America (1960)

ScD, Trinity College, Dublin, Ireland (1962), National University of Ireland (1970), University of Lancaster,

England (1972), University of Frankfurt am Main (1972)

#### MEMBERSHIPS:

Royal Irish Academy (1958)

Honorary Member, Roland Eötvös Physical Society, Budapest, Hungary (1973)

#### PUBLICATIONS:

More than 150 publications including:

Lanczos, C., *The Variational Principles of Mechanics*, University of Toronto Press, [962] (1949)

Lanczos, C., "An Iteration Method for the Solution of the Eigenvalue Problem of Linear Differential and Integral Operators," *J. Res. Natl. Bur. Stand.* 45, 255-282 [1699] (1950)

Rosser, J.B., Lanczos, C., Hestenes M.R., and Karush, W., Separation of Close Eigenvalues of a Real Symmetric Matrix, *J. Res. Natl. Bur. Stand.* 47, 291-297 [11] (1951)

Lanczos, C., Solution of Systems of Linear Equations by Minimized Iterations, *J. Res. Natl. Bur. Stand.* 49, 33-52 [390] (1952)

Lanczos, C., *Tables of Chebyshev Polynomials  $S_n(x)$  and  $C_n(x)$* , NBS Applied Mathematics Series 9, US Government Printing Office, [15] (1952)

Davis, W.R., ed., *Cornelius Lanczos, Collected Published Papers with Commentaries*, in six volumes, North Carolina State University (1998)