

JAMES F. SHOOLEY

NBS/NIST: 1960-1990

EDUCATION:

Indiana University, AB (Chemistry), 1953
UC/Berkeley, MS (Nuclear Chemistry), 1955
UC/Berkeley, PhD (Nuclear Chemistry), 1961

CITATION:

For outstanding technical contributions and exceptional leadership as a pre-eminent research scientist and leader for NBS/NIST both in the laboratory and at the Division Chief level. His research work in temperature helped form the basis for International Temperature Scale of 1990 and his leadership activities helped make NBS/NIST a leader in temperature-based metrology.

POSITIONS HELD AT NBS/NIST:

NRC/NBS Postdoctoral Appointment, Division 3 Heat, 1960
Research Scientist, Low-Temperature Physics, Heat Division, IBS, 1961-1967
Chief, Cryogenic Physics Section, Heat Division, IBS, 1967-1973
Chief, Temperature Section, Heat Division, IBS, 1973-1977
Chief, Temperature Measurements and Standards Division, Center for Absolute Physical Quantities, 1977-1982
Research Scientist, Temperature and Pressure Measurements and Standards Division, Center for Absolute Physical Quantities, 1982-1990

HONORS:

US Department of Commerce Silver Medal (1968) and Gold Medal (1979)
Program Chair and Editor-in-Chief international conference on "Temperature, Its Measurement and Control and Science and Industry" (1982 and 1992)

MEMBERSHIPS:

American Physical Society
Instrument Society of America
Washington Philosophical Society, Phi Beta Kappa
Sigma Xi Scientific Research Society

PUBLICATIONS:

More than 100 publications including:
Schooley, J.F., Hosler, W.R., and Cohen, M.L., "Superconductivity in Semiconducting SrTiO₃", *Phys. Rev. Letters*, Vol 12, 474 (1964)
Schooley, J.F., Soulen, R.J., Jr., and Evans, G.A., Jr., *Preparation and Use of Superconductive Fixed Point Devices*, SRM 767, NBS SP 260-44 (1972)
Schooley, J.F., *Thermometry*, CRC Press (1986)
Edsinger, L.A. and Schooley, J.F., "Differences Between Thermodynamic Temperature and t (IPTS-68) in the Range 230 °C to 660 °C", *Metrologia* 26, pp. 95-106 (1989)
Schooley, J.F., Ed.-in-Chief, *Temperature, Its Measurement and Control in Science and Industry*, Vol. 6, AIP (1992)
Schooley, J.F., *Responding to National Needs: The National Bureau of Standards Becomes the National Institute of Standards and Technology: 1969-1993*, NIST SP955 (2000)