

MELVILLE S. GREEN

**NBS/NIST: 1954-1968**

**EDUCATION:**

Columbia College, BA (Physics), 1944  
Princeton University, MA (Physics), 1947  
Princeton University, PhD (Physics), 1951

**CITATION:**

For securing for NBS an international reputation in the field of statistical physics.

**POSITIONS HELD AT NBS/NIST:**

Physicist, Thermodynamics Section, Heat and Power Division, Lab 3, 1954-1958  
Chief, Statistical Physics Section, Heat Division, Institute for Basic Standards, 1960-1968

**HONORS:**

Fulbright Travel Grant (1957-1958)  
J.S. Guggenheim Fellowship Award (1957-1958)  
US Department of Commerce Gold Medal for Distinguished Achievement in Federal Service (1965)  
Portrayed in the American Physical Society Centennial's Photo Gallery of 50 most famous scientists in the history of statistical and nonlinear physics (1999)

**MEMBERSHIPS:**

Fellow, American Physical Society  
Member, Washington Academy of Sciences  
Member, Washington Philosophical Society  
Member of the Board of Editors:  
Journal of Mathematical Physics (1963-65)  
Physical Review (1964-1966)  
Journal of Physics of Fluids (1966-69)

**PUBLICATIONS:**

More than 65 publications including:  
Green, M.S., "Boltzmann Equation from the Statistical Mechanical Point of View", *J. Chem. Phys.* 25, 836 (1956)  
Green, M.S. and Piccirelli, R.A., "Basis of the Functional Assumption in the Theory of the Boltzmann Equation", *Phys. Rev.* 132, 1388 (1963)  
Green, M.S. and Sengers, J.V., eds., *Critical Phenomena, Proceedings of a Conference*, NBS Miscellaneous Publ. 273, 242 pp., GPO (1966)  
Vicentini, M., Levelt Sengers, J.M.H., and Green, M.S., "Scaling-law Equation of State of Gases in the Critical Region", *Phys. Rev. Letters* 18 1113 (1967)  
Green, M.S., "Bose-Einstein Condensation and the  $\lambda$ -transition in Liquid Helium", *Phys. Rev. Letters* 1, 409 (1958)  
Beckett, C.W., Woolley, H.W., and Green, M.S., "Thermochemistry and Thermodynamics of Substances", *Ann. Rev. Phys. Chem.* 7 287 (1956)