

LYLE H. SCHWARTZ

NBS/NIST: 1984-1997

EDUCATION:

Northwestern University, BS (Science Engineering), 1959
Northwestern University, PhD (Materials Science), 1964

CITATION:

For visionary leadership of the science and engineering of materials at NIST, including world class x-ray and neutron scattering user facilities, and modern computational materials science.

POSITIONS HELD AT NBS/NIST:

Director, Materials Science and Engineering Laboratory, 1984-1997

HONORS:

Fellow, ASM International (1988)
Presidential Meritorious Executive Rank Award (1990)
Distinguished Alumni Award, Northwestern University (1993)
National Academy of Engineering (1994)
National Materials Advancement Award, Federation of Materials Societies (1994)
Leadership Award, The Minerals, Metals, and Materials Society (1995)
Alpha Sigma Mu Lecturer, ASM and TMS (1995)
Department of Commerce Gold Medal (1996)
Distinguished Lectureship in Materials and Society, ASM and TMS (1998)
Honorary Member, ASM International (2002)

MEMBERSHIPS:

ASM International, Board of Trustees (1989-93), Chair, ASM Materials Education Foundation (2006-08)
The Mining, Metallurgical and Materials Society
Materials Research Society (Councilor, 1995-98)
American Physical Society
Sigma XI

PUBLICATIONS:

More than 95 publications and two books including:
Schwartz, L.H., "Quasi-Crystalline Symmetry", *Philosophical Transactions of the Royal Society of London Series a-Mathematical Physical and Engineering Sciences*, 322, (1567), 439 (1987)
Schwartz, L.H., "The Materials Research Laboratories: Reviewing the First Twenty-Five Years," *Advancing Materials Research*, NAS Press, 35-48 (1987)
Schwartz, L.H. and Cohen, J., *Diffraction from Materials* (book) 2nd edition, Springer-Verlag (1987)
Good, M.L. and Schwartz, L.H., "Government Initiatives in Advanced Manufacturing Technology", *Advanced Materials & Processes*, 146, (4), 50-55 (1994)
Schwartz, L. H. "Sustainability: The Materials Role", *Metallurgical and Materials Transactions B-Process Metallurgy and Materials Processing Science*, 30, (2), 157-170 (1999)
Schwartz, L. H. "Undergraduate Materials Education 2010: Status and Recommendations", *JOM*, 62, (3), 34-70 (2010)