JOHN W. HUTCHINSON April 24, 2024
Abbott and James Lawrence Research Professor of Engineering Emeritus
School of Engineering and Applied Sciences, Harvard University
Cambridge, Massachusetts 02138

EDUCATION:

B.S. Lehigh University (Engineering Mechanics) 1960
Ph.D. Harvard University (Mechanical Engineering) 1963

PROFESSIONAL EXPERIENCE:

1963-64 Research Fellow, Technical University of Denmark & Harvard University
1964-68 Assistant Professor of Structural Mechanics, Harvard University
1968-69 Associate Professor of Applied Mechanics, Harvard University
1969- Gordon McKay Professor of Applied Mechanics, Harvard University
2000-2012 Abbott and James Lawrence Professor of Engineering, Harvard University
2012-2018 Abbott and James Lawrence Research Professor of Engineering, Harvard University
2000-2005 Associate Dean of Academic Programs, SEAS, Harvard University
2004- Adjunct Professor, Dept. Mechanical Engineering, Technical University of Denmark
2005- Distinguished Visiting Professor, Dept. of Materials, U. California, Santa Barbara

MEMBERSHIPS:

Member, National Academy of Engineering
Member, National Academy of Sciences
Foreign Member, Royal Society of London
Member, American Academy of Arts and Sciences
Foreign Member, Danish Center for Applied Mathematics and Mechanics
Fellow, American Society of Mechanical Engineers

AWARDS & HONORS:

ASTM: Irwin Medal (1982), Swedlow Award (1993); SES: Prager Medal (1991)
ASME: Nadai (1991) & Thurston (2000) Awards, Timoshenko (2002) & Melville (2024) Medals
German Aerospace Society (DGLR): Ludwig Prandtl Ring (2012)
WASI: Irwin Gold Medal (2013); Sigma Xi Ferst Award (2015); MIT Den Hartog Lecture (2019)
Harvard Graduate School Centennial Medal (2021)
Honorary Doctoral Degree, The Royal Institute of Technology, Stockholm, Sweden (1985)
Honorary Doctoral Degree, The Technical University of Denmark, Copenhagen, Denmark (1992)
Honorary Doctoral Degree, Northwestern University, Evanston (2002)
Honorary Doctoral Degree, Lehigh University (2004)
Honorary Doctoral Degree, University of Illinois (2005)

COMMITTEES & SERVICE:

Defense Sciences Research Council (formerly Materials Research Council) (1978-2002)
Naval Studies Board of the National Research Council (2004-2009)
Board of Army Science and Technology (2011-2017)
Former Member of Executive Committee and Chair of the Applied Mechanics Division of ASME

RESEARCH INTERESTS:

Hutchinson and his collaborators work on problems in solid mechanics concerned with engineering materials and structures. Buckling and structural stability, elasticity, plasticity, fracture and micro-mechanics all figure prominently in their research. Examples of ongoing research activities are (1) efforts to extend plasticity theory to small scales, (2) development of a mechanics framework for assessing the durability of thermal barrier coatings for gas turbine engines, (3) the mechanics of ductile fracture, (4) the mechanics of films, coatings and multilayers, (5) shell buckling.

PUBLICATIONS & FURTHER INFORMATION AVAILABLE ON THE FOLLOWING WEBSITE:

https://groups.seas.harvard.edu/hutchinson/