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John H. Lienhard V

*Samuel C. Collins Professor of Mechanical Engineering
Director, Center for Clean Water and Clean Energy at MIT
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Director, Rohsenow Kendall Heat Transfer Laboratory*

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[Curriculum Vitae](#)

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Research Interests

Desalination; Water Supply; Energy;
Heat and Mass Transfer; Fluid Mechanics; Convective Transport;
Extremely High Heat Fluxes; Electronics Thermal Management

Teaching Interests

Heat and Mass Transfer ([2.51](#), [2.55](#))
Desalination ([2.500](#))
Modeling and Approximation in Thermal Systems ([2.52](#))
Measurement and Instrumentation

Free electronic textbook: [A Heat Transfer Textbook, Fourth Edition](#)
Instrumentation Textbook: [Mechanical Measurements, Sixth Edition](#)

Education

1982, BS in Engineering, Concentration in Thermal Engineering
Department of Chemical, Nuclear, and Thermal Engineering
University of California, Los Angeles
(Summa Cum Laude)

1984, MS, Heat and Mass Transfer
Department of Chemical, Nuclear, and Thermal Engineering
University of California, Los Angeles

1988, PhD, Fluid Dynamics
Department of Applied Mechanics and Engineering Sciences



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Honors and Awards

1988, Presidential Young Investigator Award, NSF
1991, Best Paper Award, 26th ASME/AIChE National Heat Transfer Conference
1992, Ralph R. Teetor Award, SAE
1993, Ruth and Joel Spira Teaching Award, MIT School of Engineering
1994, Graduate Student Council Teaching Award, MIT
1997, R&D 100 Award
1999, Carl R. Soderberg Distinguished Service Award, MIT
2000, Fellow of ASME
2003, Den Hartog Distinguished Educator Award, MIT
2008, [Samuel C. Collins](#) Chaired Professorship
2011, Best Paper Award, IDA World Congress on Desalination & Water Reuse
2012, ASME Technical Communities Globalization Medal

Some Positions Held

Editorial Board, *Desalination*: October 2011-present
Editorial Board, *Frontiers in Heat and Mass Transfer*: April 2010-present
Editorial Board, *Desalination and Water Treatment*: January 2009-present
Director, Center for Clean Water and Clean Energy at MIT and KFUPM, June 2008-present ([CCWCE](#))
Associate Department Head for Education, Department of Mechanical Engineering: July 2008-April 2012
Undergraduate Officer, Department of Mechanical Engineering: July 2005 - April 2012
ABET Accreditation Coordinator of ME Department: July 2005 - June 2008
Head, Division of Fluids, Energy, and Transport: August 2001 - July 2005
Editorial Board, *Journal of Heat Transfer*: 2003 - 2006
Editorial Board, *Acta Mechanica*: 2003 - 2011
Chairman, ME Faculty Hiring Committee: August 2001 - July 2005
Chairman, ME Strategic Planning Committee: September 1997 - July 2000
Director, Rohsenow Kendall Heat Transfer Laboratory: July 1997 - present
Editorial Board, *Experimental Heat Transfer*: March 1995 - present
State Implementation Plan Steering Cmt. for Air Quality, Massachusetts DEP: August 1994 - present ([Air quality](#))
Hatsopoulos Professor: July 1988 - June 1991
Joined MIT Faculty: January 1988

Memberships

American Society of Mechanical Engineers
American Association for the Advancement of Science
International Desalination Association
PE Registration, Massachusetts
Tau Beta Pi
Scientific Council of the International Centre for Heat and Mass Transfer

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