

CURRICULUM VITA

RICHARD T JACOBSEN

EDUCATION:

Ph.D.	Engineering Science	1972	Washington State University
M.S.	Mechanical Engineering	1965	University of Idaho
B.S.	Mechanical Engineering	1963	University of Idaho

PROFESSIONAL EXPERIENCE:

Idaho State University

2013 – present Executive Director for Strategic Management, ISU-Meridian
2011 – 2012 Executive Director for Research and Technology Transfer; Associate Director, Center for Advanced Energy Studies
2010 – 2011 ISU Technology Transfer Officer and Associate Director, Center for Advanced Energy Studies
2010 – present Professor, Department of Nuclear Engineering
2006 – 2010 Dean and Professor, College of Engineering

Idaho National Engineering & Environmental Laboratory, Bechtel BWXT Idaho LLC, Idaho Falls

2003 – 2005 Associate Laboratory Director for Energy & Environmental Sciences and Chief Scientist
2001 – 2003 Associate Laboratory Director for Strategic Management and Chief Scientist
1999 – 2001 Deputy Laboratory Director for Research & Development and Chief Scientist

University of Idaho

2006 – present Professor Emeritus
2005 – 2006 Director, Center for Applied Thermodynamic Studies, Idaho Falls
1990 – 1999 Dean, College of Engineering, Moscow
1986 – 1999 Director, Center for Applied Thermodynamic Studies, Moscow
1985 – 1990 Associate Dean for Administration & Research, College of Engineering, Moscow
1980 – 1985 Professor and Chairman, Department of Mechanical Engineering, Moscow
1975 – 1986 Associate Director, Center for Applied Thermodynamic Studies, Moscow
1977 – 2006 Professor, Department of Mechanical Engineering, Moscow
1972 – 1977 Associate Professor, Department of Mechanical Engineering, Moscow
1966 – 1972 Assistant Professor, Department of Mechanical Engineering, Moscow
1964 – 1966 Instructor, Department of Mechanical Engineering, Moscow

OTHER PROFESSIONAL EMPLOYMENT:

Sept 2009 Idaho National Laboratory, Idaho Falls ID – Consulting: Peer Review Committee for Energy and Environment Science & Technology Directorate
Jan, Aug 2007 Idaho National Laboratory, Idaho Falls ID – Consulting: Peer Review Committee for Science & Technology Directorate (January) and Energy & Environmental Directorate (August)
Jan-Jun 1999 National Institute of Standards and Technology, Physical and Chemical Properties Division, Boulder, CO (guest worker, sabbatical leave)
Jan-Jun 1986 National Bureau of Standards, Thermophysical Properties Division, Boulder, CO (consulting; sabbatical leave)
Jan-Aug 1979 National Bureau of Standards, Thermophysical Properties Division, Boulder, CO (consulting; sabbatical leave)
Summer 1964 Boeing Co., Airplane Division, Associate Test Engineer, Propulsion Test Group, Seattle, WA
Summer 1963 Boeing Co., Aerospace Division, Associate Engineer, Electronic Products Mfg. Group, Seattle, WA

REGISTRATION: Idaho Professional Engineering Certificate No. 2012

MEMBERSHIP AND ASSIGNMENTS IN PROFESSIONAL ORGANIZATIONS:

2010 -- present Association of University Technology Managers (AUTM)
2003 – present American Institute of Chemical Engineers
2002 – present American Nuclear Society
1999 – present American Association for the Advancement of Science
1990 – present American Society for Engineering Education
1990 – present Idaho Society of Professional Engineers
1990 – present National Society of Professional Engineers
1985 – present American Society of Heating, Refrigerating, and Air-Conditioning Engineers
1990 – present Corresponding Member, Technical Committee TC 3.1, Refrigerants and Secondary Coolants
1966 – present American Society of Mechanical Engineers
2012 – present Committee on Finance and Investment
2007 -- present Board on Research and Technology Development; Executive Committee, Chair, 2007-2010
2005 – 2007 Vice President, Finance, Knowledge and Community Sector
2004 – 2005 Vice President, Research
1998 – 2001 Vice President, Professional Practice
1995 – 1998 Chair, BPPE, Committee on Professional Registration
1991 – 2004 Board on Professional Practice and Ethics (BPPE)
1988 – present Research and Technology Committee on Water and Steam in Thermal Power Systems; Main Committee, Second Vice Chair, 2002 – 2003; Subcommittee on Thermophysical Properties of Water and Steam, 1988 – present
1988 – 1999 Committee on Honors; Vice Chair 1995 – 1999
1985 – 1991 Chair, Region VIII Honors and Awards Committee
1985 – 1991 Region VIII Representative, General Awards Committee; Chair 1988 – 1991
1985 – present Technical Committee K-7, Thermophysical Properties, Heat Transfer Division; Chair, 1986 – 1989, 1992 – 1995, 2001 – 2004
1983 – 1985 Chair, Region VIII Mechanical Engineering Department Heads Committee
1972 – 1975 & 1978 - 1981 Faculty Advisor to UI Student Branch
1966 – present Society of Automotive Engineers
Tau Beta Pi; Former Chapter Advisory Board Member
Phi Eta Sigma
Society of the Sigma Xi
Phi Kappa Phi

OTHER COMMITTEE AND BOARD ASSIGNMENTS:

2012 – 2013 Idaho Global Entrepreneurial Mission (IGEM) Council
2011 – present Board of Trustees, Museum of Idaho, Idaho Falls, ID
and 2001 – 2008
2011 – 2012 Board of Directors, Bannock Development Corporation
2002 – present National Advisory Council for the Federal Laboratory Consortium for Technology Transfer
2000 – 2006 Advisory Council, Idaho State University College of Engineering
2000 – 2005 Board of Directors, Center for Subsurface Sensing and Imaging Systems (CenSSIS), National Science Foundation Engineering Research Center, Northeastern University
2002 General Chair, SPECTRUM2002 – 9th Biennial International Conference on Nuclear and Hazardous Waste Management, American Nuclear Society, Reno, NV, August 4-8 2002
1994 – 1996 Advisory Council, Technical and Industrial Extension Service
1993 – 1995 UI Ad Hoc Committee on Telecommunications
1991 – 2006 Board of Directors, Idaho Research Foundation

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1991 – 1998	International Energy Agency Annex 18, Thermophysical Properties of the Environmentally Acceptable Refrigerants
1990 – 1999	Board of Directors, UI Foundation; Membership Committee, 1995 – 1999
1990 – 1996	Advisory Board, North Central Idaho Business Technology Incubator
1990 – 1993	Board of Directors, Northwest College and University Association for Science
1988 – 1990	Idaho Higher Education Research Council
1981 – 1987	UI Graduate Council; Petitions Subcommittee, 1984 – 1985
1982 – 1999	Organizing Committee, International Workshops on Equations of State
1978 – 1981	UI Faculty Council
1975 – 1978	UI University Curriculum Committee; Chair, 1977 – 1978; Chair, External Studies/Experience Subcommittee, 1976 – 1977
1975 – 1977	UI Summer Sessions and Continuing Education Committee

HONORS AND AWARDS:

2012	Elected to Idaho Academy of Engineers, University of Idaho; IAC President 2012-2013
2007	Idaho Excellence in Engineering Education Award, Idaho Society of Professional Engineers
2003	ASME Dedicated Service Award
2002	Outstanding Engineer Award, Idaho State University
1999	Engineer of the Year Award, American Society of Mechanical Engineers, Inland Empire Section
1989	Elected Fellow of the American Society of Mechanical Engineers
1989	Distinguished Faculty Award, Phi Kappa Phi and UI Alumni Association, May 15, 1989
1984	Best Technical Paper Award, American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE), June 1984 (with R.B. Stewart and J.H. Becker)
1983	Outstanding Faculty Research Paper Award, UI Chapter of Sigma XI
1981	Invited participant in American Society of Mechanical Engineers Faculty Advisor Program, grant to ASME Winter Annual Meeting
1972	Invited participant in American Society of Mechanical Engineers Faculty Advisor Program, grant to ASME Winter Annual Meeting
1968-69	Science Faculty Fellowship, National Science Foundation
1968	Ralph R. Teetor Educational Award, Society of Automotive Engineers

GRANTS AND CONTRACTS:

- 1971 – 2006 A total of \$12M in grants and contracts:
- \$8M through the U.S. Dept. of Transportation's Intermodal Surface Transportation Efficiency Act to establish the National Institute of Advanced Transportation Technology on the University of Idaho campus in Moscow
 - The remaining \$4M involved research and development as follows:
 - Thermodynamic properties of various gases and mixtures, including those used in manned space flights and energy production and utilization systems
 - Thermodynamic properties instrumentation development
 - Development of the UI Nuclear Engineering PhD program and the Waste Management and Environmental Restoration Master's programs in Idaho Falls

PUBLICATIONS:

- Books and Chapters in Books (11)
- Refereed Journal Publications (60)
- Refereed Conference Proceedings (11)
- Center for Applied Thermodynamic Studies (CATS) Reports and Notes (69)
- Technical Reports (39)
- Thesis and Dissertation (2)