

## **J. WESLEY HINES**

### **PERSONAL DATA:**

Birthdate/place: April 1, 1963/Columbus, Ohio  
Citizenship: United States  
Office Address: Department of Nuclear Engineering  
The University of Tennessee  
Knoxville, Tennessee 37996-2300  
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### **EDUCATION:**

1994, Ph.D. Nuclear Engineering, The Ohio State University, Columbus, Ohio.  
Dissertation Title: "A Hybrid Approach to Fault Detection and Isolation Merging Analytical Redundancy and Neural Network Techniques".  
Dissertation Advisor: Dr. Don W. Miller

1992, M.S., Nuclear Engineering, The Ohio State University, Columbus, Ohio.  
Advisor: Dr. Don W. Miller

1992, MBA, The Ohio State University, Columbus, Ohio.  
With Honors

1986, Naval Nuclear Power School, Orlando, Florida  
With Distinction

1985, B.S., Electrical Engineering, Ohio University, Athens, Ohio.  
Summa Cum Laude

### **PROFESSIONAL EXPERIENCE:**

2005-present Professor of Nuclear Engineering, The University of Tennessee

2008-2009 Interim Associate Dean for Research and Technology, College of Engineering, The University of Tennessee

2000 – 2005 Associate Professor of Nuclear Engineering, The University of Tennessee

1998-2000 Research Associate Professor, Nuclear Engineering, The University of Tennessee

1995-1998 Research Assistant Professor, Nuclear Engineering, The University of Tennessee

1985-1990 U.S. Naval Officer, Naval Nuclear Submarines  
Force Assistant Nuclear Controls Officer, 1988 - 1990.  
Electrical and Interior Communications Officer, 1987 - 1988

## **HONORS AND AWARDS:**

- 2008 Faculty Associate of the Howard Baker Center for Public Policy.
- 2008 American Association of Physicists in Medicine, Southeast Chapter, Best Therapy Paper Award.
- 2007 University of Tennessee, Chancellor's Research and Creative Achievement Award.
- 2006 Distinguished Alumni, College of Engineering, The Ohio State University.
- 2006 Distinguished Alumni, Mechanical Engineering Department, The Ohio State University.
- 2006 University of Tennessee, College of Engineering, Research Fellow Award.
- 2005 American Society of Engineering Education, Southeastern Section, Thomas C. Evans Instructional Paper Award.
- 2005 University of Tennessee, College of Engineering, Brooks Distinguished Professor Award
- 2004 Outstanding Contribution Award, for outstanding contributions to the field of Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Blankenberge, Belgium.
- University of Tennessee, College of Engineering, 2004 Teaching Fellow Award.
- University of Tennessee, College of Engineering, 2004 Leon and Nancy Cole Superior Teaching Award.
- 2004 American Society for Engineering Education, Southeastern Section Outstanding Mid-Career Teaching Award.
- University of Tennessee, Allen and Hoshall Engineering Faculty Award, 2001-2002.
- Duke Power Distinguished Professor of Nuclear Engineering, 1997.
- Ohio State University, College of Business Administration, Weidler Academic Achievement Award, 1994.
- President of Alpha Nu Sigma Nuclear Engineering Honorary 1993-1994.
- Department of Energy Nuclear Engineering Fellow, 1990-1994.
- Ohio State University, Nuclear Engineering Achievement Award 1991.
- Ohio State University, Nuclear Engineering Achievement Award 1992.
- Eta Kappa Nu Electrical Engineering Honorary, 1983.
- Tau Beta Pi Engineering Honorary, 1983.
- Phi Kappa Phi Academic Honorary, 1983

## **MEMBERSHIPS:**

- Member, Society of Maintenance and Reliability Professionals
- Member of Sigma Xi Research Honor Society
- Member of American Nuclear Society
- Member Institute of Electrical and Electronic Engineers
- Member American Society for Engineering Education
- Member Tau Beta Phi, Alpha Nu Sigma, and Eta Kappa Nu Honoraries

## **SERVICE ACTIVITIES:**

### **The University of Tennessee:**

- Search Committee, IIE Department Head, 2009, NE faculty position, 2007, 2008, 2009,
- Howard Baker Center Faculty Associate, 2008-present
- The Howard Baker Center for Public Policy, Energy Advisory Board Member, 2007-present..

- College of Engineering, Search Committee Chair, Associate Dean for Research and Technology, College of Engineering, 2009, COE Research Office Coordinator II, 2009, COE Research Office Coordinator III, 2009.
- College of Engineering, Reliability and Maintainability Engineering Program Director, 2006-present.
- College of Engineering, Tenure and Promotion Committee, 2006-2008.
- College of Engineering, Extended Education Coordinator, 2001 - 2005.
- College of Engineering, Curriculum Revision Committee, 2003 - 2004.
- College of Engineering, Associate Dean for Research Search Committee, 2003.
- University of Tennessee, Safety Committee, 2008-2009.
- University of Tennessee-ORNL Joint Directed Research Panel, 2009
- University of Tennessee, Research Grant Committee, 2008-2009
- University of Tennessee, Distance Education Task Force, 2004 – 2005.
- University of Tennessee, Academic Outreach Council, 2003 - 2005.
- University of Tennessee, Academic Outreach Council, Advocacy Committee Chair 2004-2005.
- University of Tennessee, Information Technology Committee, 2004 - 2008.
- University of Tennessee, Information Technology Advisory Committee, 2003 - 2004.
- University of Tennessee, Research Council, 2003 – present, Co-Vice Chair 2004-2005.
- University of Tennessee, Faculty Senate 2001 – 2004.
- University of Tennessee, Instruction with Technology Faculty Senate Subcommittee 2001-2004.
- Maintenance and Reliability Center Academic Program Coordinator 1997-2001.
- Faculty Advisor for the student branch of the Society of Maintenance and Reliability Professionals 1998-2001.
- Faculty Advisor for American Nuclear Society Student Branch, 1995-1996, 2001-2004.
- Faculty Advisor for Young Christians, Temple Baptist Church, 1998-2000.
- University of Tennessee, Professional Development Award, Reviewer, 1999.

**National Service Activities:**

- Prognostics and Health Management Society, Board of Directors, 2009-present.
- American Nuclear Society, Fifty International Topical meeting on Nuclear Power Plant Instrumentation, Control and Human-Machine Interface Technologies, Technical Program Co-chair, 2008, 2009.
- Technical Program Committee for the Conference on Nuclear Training and Education, 2008, 2009.
- American Nuclear Society, Fourth International Topical meeting on Nuclear Power Plant Instrumentation, Control and Human-Machine Interface Technologies, Publication Chair and Technical Program Committee, 2006.
- American Nuclear Society, Education and Training Division, Chair, 2008-present.
- American Nuclear Society, Education and Training Division, Vice Chair, 2007-2008.
- American Nuclear Society, Education and Training Division, Treasurer, 2006-2007.
- American Nuclear Society, Education and Training Division, Secretary, 2005-2006.
- American Nuclear Society, Education and Training Division, Program Chair, 2001-2004.
- American Nuclear Society, Fourth International Topical meeting on Nuclear Power Plant Instrumentation, Control and Human-Machine Interface Technologies, Publication Chair and Technical Program Committee, 2004.
- Executive Planning Committee for the Conference on Nuclear Training and Education, 2002.

- American Nuclear Society, Third International Topical meeting on Nuclear Power Plant Instrumentation, Control and Human-Machine Interface Technologies, Technical Program Committee, 2000.

**International Service Activities:**

- International Atomic Energy Agency (IAEA), Coordinated Research Program on Surveillance, Diagnostic, and Prognostic Techniques for Future and Existing Nuclear Power Plants 2008-present.
- International Symposium on the Future of I&C for NPP (ISOVIC 2005), Technical Program Committee, Tongyeong, Korea, 2005.
- International Atomic Energy Agency (IAEA), Technical Working Group on Nuclear Power Plant Control and Instrumentation (TWG NPP-CI), U.S. Committee Representative, 2004-present.
- 6th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Technical Program Committee, Belgium, 2004.
- Editorial board member for the *International Journal of Condition Monitoring & Diagnostic Engineering Management*, Birmingham, UK, 2001-present.
- Editorial board member for the *Journal of Applied Computational Intelligence*, Paris France.
- Editorial board member for *Nuclear Engineering and Technology*, Korea

**FIELDS OF SPECIALIZATION:**

Applied Artificial Intelligence, Surveillance, Diagnostics and Prognostics, Instrumentation and Control, Modeling and Simulation, Nuclear Engineering, Maintenance and Reliability Engineering.