

## **Faculty Vita**

William D. Thacker

## **Education**

B. S., Physics, Massachusetts Institute of Technology, 1978

M. S., Physics, University of Illinois Urbana, 1980

Ph. D., Physics, University of Colorado Boulder, 1984

## **Academic experience**

2004-present, Saint Louis University, Professor, Physics Department Chair

2001-present, Saint Louis University, Tenured Professor

1993-2001, Saint Louis University, Tenured Associate Professor

1989-1993, Saint Louis University, Assistant Professor

1987-1989, University of Kaiserslautern, Wissenschaftlicher Mitarbeiter (research and teaching)

1985-1987, Max Planck Institute of Physics and Astrophysics, Munich, Post Doc

1984-1985, University of Maryland, European Division, Mathematics Instructor

## **Non-academic experience**

Intergovernmental Personnel Act (IPA) assignment to NASA Langley Research Center as Senior Research Scientist, 2003

## **Current membership in professional organizations**

American Physical Society, since 1990

## **Honors and awards**

Outstanding Faculty of the Year, awarded by the Association of Parks College Students of Saint Louis University, 2006

NASA Grants issued by NASA Langley Research Center each year 1998 – 2004 for joint research on turbulence modeling

NASA/ASEE Summer Faculty Fellowship for research at NASA Langley Research Center, 1997

Awards from Beaumont Faculty Development Fund of Saint Louis University 1991, 1994

Fulbright Grant for Research at the Max Planck Institute for Physics and Astrophysics, 1985-1987

### **Service activities (within and outside of the institution)**

External Reviewer for application for promotion to the rank of Professor at Illinois State University 2012, and at Cleveland State University 2016

Referee for Journal of Physics A: Mathematical and General, Journal of Physics G: Nuclear and Particle Physics, Journal of Physics C, Condensed Matter, Physics Letters A, Theoretical and Computational Fluid Dynamics

Preprofessional Health Evaluations Committee, Saint Louis University (SLU), 2007-2013

Search Committee Chair for Oliver L. Parks Endowed Chair and Director of Graduate Studies, Parks College, 2009-2010

Search Committee Chair for the Civil Engineering Department Chair, 2009

Search Committee Chair for the Biomedical Engineering Chair, 2013-2014

Rank and Tenure Committee, Parks College, 2002, 2003 and as ad hoc member in 2010

Taught Roller Coaster Physics class for gifted fifth grade pupils, 2002

### **Most Important Recent Publications**

Amy Warnke Lang and William D. Thacker, "On the Interaction of Water Waves with a Surface-Parallel Vortex", Journal of Fluids Engineering -- May 2008 -- Volume 130, Issue 5, 051302

W. D. Thacker, S. Sarkar, and T. B. Gatski, "Analyzing the Influence of Compressibility on the Rapid Pressure-Strain Rate Correlation in Turbulent Shear Flows", Theoretical and Computational Fluid Dynamics Vol. 21, pp. 171-199 (2007)

C. D. Pruett, T. B. Gatski, C. E. Grosch, and W. D. Thacker, "The temporally filtered Navier-Stokes equations: Properties of the residual stress", Physics of Fluids, Vol. 15, pp. 2127-2140 (2003).

W. D. Thacker, T. Gatski, and C. Grosch, "Modeling the dynamics of ensemble-averaged linear disturbances in homogeneous shear flow", Flow, Turbulence and Combustion, Vol. 63, pp. 39-58 (2000).

W. D. Thacker, T. Gatski, and C. Grosch, "Analyzing mean transport equations of turbulence and linear disturbances in decaying flows", Physics of Fluids, Vol. 11, pp. 2626-2631 (1999).

### **Recent Professional Development Activities**

Attended ABET Faculty Workshop on Sustainable Assessment Processes, Louisville KY, June 2010

Attended American Physical Society Meetings of Physics Department Chairs, 2004, 2006

Started Research Group on Quantum Entangled States with Dr. Dixit and Dr. Santhanam, paper in progress.