

CURRICULUM VITAE OF MITCH WOLFF

Personal Data

Citizenship: United States
Date of Birth: October 30, 1960
Marital Status: Married

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Department of Mechanical and Material Engineering
College of Engineering and Computer Science
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Education

Purdue University	Mechanical Engineering	Ph.D. 1995
Purdue University	Mechanical Engineering	M.S. 1989
Purdue University	Mechanical Engineering	B.S. 1983

Professional Experience

Professor present	Wright State University	Sept. 2003 to
Associate Professor Aug. 2003	Wright State University	Sept. 2000 to
Assistant Professor Aug. 2000	Wright State University	Sept. 1995 to
Research Assistant 1995	Purdue University	Aug. 1988 to Aug.
Research Engineer 1988	Garrett Turbine Engine Company	May 1988 to Aug.
Research Assistant 1988	Purdue University	Aug. 1987 to May
Research Engineer 1987	Garrett Turbine Engine Company	May 1987 to Aug.
Research Assistant 1987	Purdue University	Aug. 1986 to May
Research Engineer 1986	Garrett Turbine Engine Company	May 1986 to Aug.
Development Engineer 1986	Dean Pump Company	July 1984 to May
Development Engineer 1984	Ohio Brass Company	June 1983 to April

Honors and Awards

Fellow, American Society of Mechanical Engineers July 2004
Academic Visitor, Laboratory of Applied Thermodynamics & Turbomachinery, April to July 2004
Swiss Federal Institute of Technology Lausanne, Switzerland
Affiliate Societies Council, Dayton, Outstanding Engineers & Scientists Award Feb. 2003
College of Engineering and Computer Science Outstanding Faculty Member June 2001
CLICK-IT! Honoring innovative use of instructional technology, WSU, CTL June 2001
Associate Fellow, American Institute of Aeronautics and Astronautics Jan. 2001
College of Engineering and Computer Science Excellence in Teaching Award June 1999
ASEE Dow Outstanding New Educator Award - North Central Section June 1999
SAE Ralph R. Teetor Educational Award March 1999
AFOSR Summer Faculty Research Associate, Wright Laboratory June to Sept. 1998
AFOSR Summer Faculty Research Associate, Wright Laboratory June to Aug. 1997
AFOSR Summer Faculty Research Associate, Wright Laboratory June to Sept. 1996
Air Force Research in Aero-Propulsion Technology (AFRAPT) Fellowship Aug. 1986 to Aug. 1995

Professional Activities

ASEE Campus Representative, 1996 to present.
Ohio Space Grant Consortium WSU Representative, 2000 to present.
ASME Student Section Faculty Advisor, 1997 to 2003.
ASME Dayton Section Executive Committee, 1997 to 2003.
West District Science Day Judge, 1996 to present.
24th Dayton-Cincinnati Aerospace Science Symposium, Turbomachinery Session Chair.
AIAA 30th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for Publications, 2005.
AIAA 30th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for the Career Opportunities Fair, 2005.
AIAA 29th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for Publications, 2004.
AIAA 29th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for the Career Opportunities Fair, 2004.
AIAA 28th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for the Art-in-Science Contest, 2003.
AIAA 28th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for the Career Opportunities Fair, 2003.
AIAA 27th Dayton-Cincinnati Aerospace Science Symposium Organization Committee, Responsible for the Art-in-Science Contest, 2002.
40th AIAA Aerospace Science Meeting, Reno, Nevada, Jan. 8-11, 2002, Session Chair – Jet Flows II.
9th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery, Honolulu, HI, Feb. 10-14, 2002, Unsteady Aerodynamics III Session Chair.
9th OSGC Student Research Project Symposium, OAI, Cleveland, OH, April 27, 2001, Mechanical Engineering Session Chair.

Seventh National Turbine Engine High Cycle Fatigue (HCF) Conference, West Palm Beach, FL, May 14-17, 2002, Forced Response Session Chair.

Refereed Journal Publications

1. Zhou, J., Dasgupta, S., Kobayashi, H., Wolff, J. M., Jackson, H. E., and Boyd, J. T., "Optically Interrogated MEMS Pressure Sensors for Propulsion Applications," *Optical Engineering*, Vol. 40, No. 4, April 2001, pp. 598-604.
2. Maple, R. C., King, P. I., Wolff, J. M. and Orkwis, P. D., "Split-Domain Harmonic Balance Solutions to Burger's Equation for Large Amplitude Disturbances," *AIAA Journal*, Vol. 41, No 2, Feb. 2003, pp. 206-212.
3. Maple, R. C., King, P. I., Orkwis, P. D. and Wolff, J. M., "Adaptive Harmonic Balance Solutions for an Unsteady Quasi-1D Nozzle," *Journal of Computational Physics*, Vol. 193, Jan. 2004, pp. 620-641.
4. Hutton, T. M., Leger, T. J., Johnston, D. A., and Wolff, J. M., "High Spatial Resolution Upstream Forced Response in a Transonic Compressor," *AIAA Journal of Propulsion and Power*, Vol. 20, No 4, 2004, pp. 790-792.
5. Leger, T. J., Johnston, D. A., and Wolff, J. M., "Flex Circuit Sensor Array for Surface Unsteady Pressure Measurements," *AIAA Journal of Propulsion and Power*, Vol. 20, No 4, 2004, pp. 786-789.
6. Harff, M. R., Wolff, J. M., Copenhaver, W. W., Car, D., and Estevadeordal, J., "Stator Cascade Flow Vectoring Through Counter Flow Blowing," *International Journal of Turbo and Jet Engines*, Vol. 21, No 3, 2004, pp. 155-168.
7. Zhou, X. and Wolff, J. M., "CFD Analysis of Unsteady Separated Transonic Oscillating Cascade Aerodynamics," *International Journal of Turbo and Jet Engines*, Vol. 21, No 3, 2004, pp. 143-153.
8. Zhou, X. and Wolff, J. M., "Unsteady Tip Leakage, Bow Shock, IGV Wake Interaction in a Compressor," *International Journal of Turbo and Jet Engines*, Vol. 22, No 3, 2005, pp. 185-200.
9. Urbassik, R. M., Wolff, J. M., and Polanka, M. D., "Unsteady Aerodynamics and Interactions Between a High Pressure Turbine Vane and Rotor," *ASME Journal of Turbomachinery*, Vol. 128, No. 1, 2006, pp. 35-42.
10. Corbett, M., Williams, J., Wolff, M., Walters, E., Wells, J., and Lamm, P., "Transient Turbine Engine Modeling and Real-Time System Integration Prototyping," *SAE Transactions Journal of Aerospace*, March 2007, in press.
11. McQuilling, M. W., Wolff, M., Fonov, S., Crafton, J. W., and Sondergaard, R., "An Experimental Investigation of Low-Pressure Turbine Suction Surface Using a Shear and Stress Sensitive Flim," *Experiments in Fluids*, under review.

Teaching Experience

Undergraduate Level
I & II

Fluid Dynamics, Thermodynamics I, Statics, Senior Design

Graduate Level

Computational Fluid Dynamics (CFD), Advanced CFD,
CFD III – Viscous Flows