

Name and Academic Rank:**Jin Tso****Professor, Aerospace Engineering Program****Degrees:**

Ph.D. Engineering Mechanics, Johns Hopkins University, 1983.
M.S. Engineering Mechanics, National Taiwan University, 1973.
B.S. Civil Engineering, National Taiwan University, 1971.

Number of years of service on this faculty:

Appointment date: 9/88
Associate Professor Appointment: 9/90
Professor Appointment: 9/94

Other related experience:

PI of NASA grants in applied aerodynamics and aeroacoustics
Reviewer for AIAA Journal, ASME Journal of Fluids Engineering, and AIAA Journal of Space and Missiles

Consulting, patents, etc:

None

State(s) in which registered:

None

Principal publications of last five years:

Biezad, D., and Tso, J., "Adapting Graduate Aerospace Degree Programs to the Distance-Learning Environment," 2001 Annual ASEE Conference & Exposition, June 24-27, 2001, Albuquerque, New Mexico.
Diaz, C., and Tso, J., "A Comparison of Turbulence Models for an Impinging Jet in a Crossflow," Computational Methods and Experimental Measurements X, WIT Press, England, June 2001, pp. 65-74.
Buchholz, M., and Tso, J., "Lift Augmentation on 60-Degree Delta Wing With Leading-Edge Fences and Gurney Flap," J. Aircraft, Vol. 38, No. 1, 2001, pp. 1050-1057.
Riddle, T.W., Wadcock, A.J., Tso, J., and Cummings, R., "An Experimental Analysis of Vortex Trapping Analysis," J. Fluids Engineering, Vol. 121, No. 3, Sept. 1999.
Keidel M., and Tso, J., "Prediction of Jet Plume Deflection of the F/A 18 HARV Using Neural Networks," 35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, June 20-24, 1999, Los Angeles.
Weaver, D., McAlister, K.W., and Tso, J., "Suppression of Dynamic Stall by Steady and Pulsed Upper-Surface Blowing," AIAA Paper No. 98-2413, 16th AIAA Applied Aerodynamics Conference, June 15-18, 1998, at Albuquerque, New Mexico.
Fields, R.S., Tso, J., and Soderman, P.T., "An Experimental Investigation of Flow-Induced Oscillations of the B&K In-Flow Microphone," 3rd AIAA/CEAS Aeroacoustics Conference, Atlanta, Georgia, May, 1997.
Tso, J. and Margason, R.J., "Developing Region of a Hot Jet in a Crossflow" AIAA paper No. 96-0025, 34th Aerospace Sciences Meeting and Exhibit, Reno, NV, January 15-18, 1996.
Weaver, D., McAlister, K.W., and Tso, J., "Suppression of Dynamic Stall by Steady and Pulsed Upper-Surface Blowing," NASA TP-3600, February, 1996.

Scientific and professional societies of which a member:

American Institute of Aeronautics and Astronautics
American Society of Engineering Education

Honors and awards:

Associate Fellow of AIAA
CENG Lockheed Endowed Professor, 1994-1996
CENG Northrop Grumman Excellence in Teaching & Applied Research Award, 1998
AIAA Best Paper Award in Applied Aerodynamics, 1999

Subjects or courses taught this year by terms:

Fall, 2001
Aero 301 Aerothermodynamics
Aero 405 Supersonic and Hypersonic Aerodynamics

Winter 2002

Aero 304 Experimental Aerothermodynamics
Aero 306 Aerodynamics and Flight Performance

Spring 2002

Aero 307 Experimental Aerodynamics

Other duties performed during the academic year

Faculty advisor of Sigma Gamma Tau
Faculty advisor of the Micro Air Vehicle project
Co-op advisor

Institutional and professional service in the last five years:

College

Department Chair, 1995-summer, 2001
Member of CENG ABET Committee, 1995-summer, 2001
Member of CENG Co-op Advisement Committee, 1993-present
Member of the CENG Lockheed Endowed Professorship Committee, 1996-present

Community

Member of CSTA (California Space and Technology Alliance) Statewide Space
Industry Strategic Plan working groups

Professional development activities in the last five years:

ASEE ABET Assessment Workshop, New Orleans, February 11-12, 2000.
AIAA short course, "Liquid Rocket Propulsion—Evolution and Advancement II," June 20-24, 1999, Los Angeles.
NASA V/STOL Alliance Workshop, August 16-17, 1999, Northern Virginia Graduate Center, Virginia Tech.
AIAA short course: "Computational Intelligence Through Soft Computing: Techniques & Applications with C/C++ MATLAB Objects," Reno, Nevada, January 15-17, 1998.