

# NIKOS J. MOURTOS

<http://www.engr.sjsu.edu/nikos/>

## EDUCATION

- '83-'87: Ph.D., Aeronautical & Astronautical Engineering, Stanford University.  
'82-'83: ENGINEER, Aeronautical & Astronautical Engineering, Stanford University.  
'80-'82: M.S., Aeronautical & Astronautical Engineering, Stanford University.  
'75-'80: B.S., Mechanical Engineering, University of Patras, Greece.

## PROFESSIONAL CAREER

- 1999-present: **Professor**, Department of Mechanical & Aerospace Engineering, San Jose State University, California.  
1996-2002: **Faculty Instructional Development Coordinator**, College of Engineering, San Jose State University, California.  
1998-2002: **Faculty-in-Residence for Innovative Pedagogy**, Institute for Teaching & Learning, San Jose State University, California.  
1991-1999: **Associate Professor**, Department of Mechanical & Aerospace Engineering, San Jose State University, California.  
1988-1991: **Assistant Professor**, Department of Aerospace Engineering, San Jose State University, California.  
1985-1988: **Lecturer**, Departments of Mechanical and Aerospace Engineering, San Jose State University, California.  
1980-1987 : **Research Assistant**, Joint Institute for Aeronautics and Acoustics, Department of Aeronautics and Astronautics, Stanford University, California.

## HONORS & AWARDS

- '04: Honorable Mention Award for Research on College Teaching and Learning from the SJSU Center for Faculty Development.  
'03: UNESCO International Centre for Engineering Education Silver Badge of Honour for distinguished contributions to engineering education, outstanding achievements in the globalization of engineering education through the activities of the Centre, and, in particular, for remarkable service to the UICEE.  
'02: College of Engineering McCoy Family Award for Excellence in Faculty Service  
'98 and '00: Outstanding Zone Campus Representative Award, from the American Society for Engineering Education, for outstanding initiative in representing ASEE on the campus and for stimulating interest among faculty.  
'99 and '00: Campus Representative Award, from the American Society for Engineering Education, for outstanding achievement in promoting membership in the PSW section.  
'97: Ralf R. Teetor Educational Award from the Society for Automotive Engineering for outstanding contributions in engineering education.  
'96: Presidential Special Recognition Award, for exceptional achievements in advancing the University's mission.  
'96: College of Engineering Excellence in Teaching Award, SJSU.

## PUBLICATIONS

- Okamoto, N., Rhee, J., Mourtos, N.J., *Incorporating the Impact of Engr. Solutions on Society into Technical Engr. Courses*, Invited Paper, *Global J. of Engr. Educ.*, vol.9, no. 1, 2005.  
Du, W.Y., Furman, B.J., Mourtos, N.J., *On the Ability to Design Engr. Experiments*, Proc., 8<sup>th</sup> Annual UICEE Conf. on Engr. Educ., Feb. 2005.  
Okamoto, N., Rhee, J., Mourtos, N.J., *Educating Students to Understand the Impact of Engr. Solutions in a Global / Societal Context*, Proc., 8<sup>th</sup> Annual UICEE Conf. on Engr. Educ., Feb. 2005.  
Mourtos, N.J., Okamoto, N., Rhee, J., *Open-Ended Problem Solving Skills in Thermal Fluids Engr.*, Invited Paper, *Global J. of Engr. Educ.*, vol.8, no. 2, 2004.

- Mourtos, N.J., Okamoto, N., Rhee, J., *Defining, Teaching and Assessing Problem Solving Skills*, Proc., 7<sup>th</sup> Annual UICEE Conf. on Engr. Educ., Feb. 2004 (Silver Award)
- Mourtos, N.J., *Defining, Teaching and Assessing Lifelong Learning Skills*, Proc., 33<sup>rd</sup> ASEE / IEEE Frontiers in Education Conf., Nov. 2003.
- Mourtos, N.J., *From Learning to Talk to Learning Engr.: Drawing Connections across the Disciplines*, UICEE World Transactions on Engr. and Tech. Educ., vol.2, no.2, pp. 195-200, June 2003.
- Mourtos, N.J., Allen, E.L., *Assessing the Effectiveness of a Faculty Instructional Development Program, part 2: Teaching and Learning Styles*, Lead Paper, Proc., 6<sup>th</sup> Annual UICEE Conf. on Engr. Educ., Feb. 2003.
- Mourtos, N.J., Furman, B.J., *Assessing the Effectiveness of an Introductory Engr. Course for Freshmen*, Proc., 32<sup>nd</sup> ASEE / IEEE Frontiers in Educ. Conf., Nov. 2002.
- Nelson, C., Kirk, D., McMullin, K., Meyers, S., Mourtos, N.J., Viajar, P., *Technological Literacy for K-6 Teachers: How Things Are Designed and Work*, Invited Paper, Proc., ASEE Annual Conf., Jun. 2002.
- Mourtos, N.J., Allen, E.L., *Introducing Cooperative Learning through a Faculty Instructional Development Program*, ASEE J. of Engr. Educ., Oct. 2001.
- Mourtos, N.J., McMullin, K., *A Comparison of Student Learning and Satisfaction in Online and Onground Engr. Courses*, Proc., 4<sup>th</sup> Annual UICEE Conf. on Engr. Educ., Feb. 2001.
- Mourtos, N.J., Allen, E.L., *Assessing the Effectiveness of a Faculty Development Program, part 1: Cooperative Learning*, Lead Paper, Proc., Global Congress on Engr. Educ. Conf., Jul. 2000.
- Mourtos, N.J., *Portfolio Assessment in Aerodynamics*, ASEE J. of Engr. Educ., Apr. 1999.
- Mourtos, N.J., *The Nuts & Bolts of Cooperative Learning in Engr.*, ASEE J. of Engr. Educ., Jan. 1997(1998 SJSU Award on Research in Teaching & Learning from the Institute for Teaching & Learning).
- Mourtos, N.J., *A Model of Learning as it Applies to Engr.*, Proc., ASEE / IEEE Frontiers in Educ. Conf., Nov. 1996.
- Mourtos, N.J., *Flow past a Flat Plate with a Vortex / Sink Combination*, ASME J. of Applied Mechanics, Jun. 1996.
- Mourtos, N.J., Couillaud, S., Carter, D., Hange, C., Wardwell, D., Margason, R.J., *Flow Visualization Studies of VTOL models during Hover in Ground Effect*, NASA TM 108860, Jan. 1995.
- Mourtos, N.J., *The Nuts & Bolts of Cooperative Learning in Engr.*, Honorable Mention, Ben Dasher Award Committee, Proc., ASEE / IEEE Frontiers in Educ. Conf., Nov. 1994.
- Mourtos, N.J., *Using Cooperative Learning in Engr. Courses*, Proc., ASEE PSW Conf., Sep. 1994.
- Desautel, D., Hunter, J., Mourtos, N.J., Pernicka, H., *Development and Integration of Modern Laboratories in Aerospace Educ.*, Proc., AIAA Aerospace Ground Testing Conf., Jul. 1992.
- Mourtos, N.J., Margason, R.J., *Evaluation of a Prediction Method for V/STOL Aircraft Hot-Gas Ingestion*, NASA TM 103828, Jan. 1991.
- Mourtos, N.J., *Control of Vortical Separation on a Circular Cone*, The Aeronautical J., Jul. 1990. Also, AIAA paper No. 88-0482.
- Mourtos, N.J., *An Integrated Lecture / Laboratory Sequence in Aerodynamics*, Proc., ASEE Annual Conf., Jun. 1990.
- Mourtos, N.J., *SJSU Development of Aircraft Design Laboratory*, Proc., ASEE Annual Conf., Jun. 1990.
- Mourtos, N.J., Roberts, L., *Control of Vortical Separation on Conical Bodies*, JIAA TR 78, Jun. 1987.
- Mourtos, N.J., Tavella, D.A., *The Aerodynamics of Delta Wings of Elliptical Cross-Section with Separated Flow*, JIAA TR 69, Dec. 1985.
- Mourtos, N.J., *Flow past a Flat Plate with a Vortex / Sink Combination*, JIAA TR 58, Sep. 1984.
- Mourtos, N.J., *The Aerodynamic Design of a Remotely Piloted Vehicle*, B.S. Thesis, Mechanical Engr., University of Patras, Greece, Jun. 1980.