

Nikos J. Mourtos

I. PERSONAL

URL: <www.sjsu.edu/ae/faculty_staff/nikos_mourtos/>
Phone: Office (408)

1999-2013

93 02 Nov. Preparing Engineers for the 21st
2015 Century: How to Teach Engineering
Students Process Skills

77	14 Feb. 2008	Course Design: Blueprint for Success: What does it take for Your Students to Learn Something New? Conditions of Learning	1.5 hr	5	SJSU Center for Faculty Development & Support
76	07 Feb. 2008	Scholarly Circle: Getting Started on the Scholarship of Teaching & Learning – Part 2: Methods	2 hr	4	SJSU Center for Faculty Development & Support
75	30 Jan. 2008	Course Design: Blueprint for Success: How to Teach & Assess Design of Experiments	1.5 hr	1	SJSU Center for Faculty Development & Support
74	25 Jan. 2008	A			

	2007	The Felder/Silverman model			Science, SJSU
56	02 Apr. 2007	Assessment Tools: Keep in Mind what ABET is looking for!	2-hr	50	College of Engineering, King Abdul-Aziz University, Jeddah, Saudi Arabia
55	31 Mar. 2007	Engineering Accreditation Process at SJSU	2-hr	50	College of Engineering, King Abdul-Aziz University, Jeddah, Saudi Arabia
54	14 Mar. 2007	Course Design: Blueprint for Success			

40	21 Sep. 2006	Course Design to Meet the Specs: Lectures, Activities, and Assignments to Address Specific Instructional Objectives	1.5 hr	6	SJSU Center for Faculty Development & Support
39	13 Sep. 2006	Well-Rounded Teaching for Well- Rounded Learning: The Kolb Learning Cycle			

2001 to Learn Something New? Conditions
of Learning

Development & Support

B. Courses Developed / Taught

Aerospace AE 10 *Introduction to Aerospace Engineering* (developed as a new course)
Engineering: AE 15

IV. HONORS & AWARDS

2019 Award of Excellence, Distinguished Faculty Mentor for MSAE student Sarah Ortega, who won 1st Place in the 2019 CSU Student Research Competition.

2017 Nominated for the SJSU Distinguished Service Award; selected as one of the top three finalists.

2014 Nominated for the SJSU Student Org. 8.4(g) 24 (U) 7.7 () -11.9 rgU u.7 (-8.4 (d) 11.9 (f) A) 7.7 (w) 7.7 (a) -896 Tm /TT

- 1990 Meritorious Performance & Professional Promise Award for outstanding contributions to the academic community at SJSU
- 1980

01. Mourtos, N.J. (1990, July).

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04. Morisetty, P. & Mourtos, N.J. (2009, April). Design of a 100-seat regional aircraft. *Proceedings, Aerospace Engineering Systems Workshop, WSEAS*.
03. Shah, S., Martinez, R., Fernandez, N. & Mourtos, N.J. (2008, August). Double wedge shockwave interaction flow characterization. *Proceedings, Thermal-Fluids Analysis Workshop, TFAWS-08-1033*.
- 02.

28. Service-learning in aerodynamics at San Jose State University. *2nd International Engineering Education & Technology Conference (IETEC), Ho Chi Minh City, Vietnam*

02. SJSU development of aircraft design laboratory, *ASEE Annual Conference*, **Toronto, Canada**, June 1990.
01. Control of vortical separation on a circular cone. *AIAA 26th Aerospace Sciences Meeting*, **Reno, Nevada**, January 1988.

VII. OTHER INVITED TALKS

General

- 0.1 Face to face: Experiences with Different Cultures, Global Student Network, San Jose State University, **California, USA**, 14 October 2014.

Education

- 0.5 Course Learning Objectives & Their Taxonomy: Understanding by Design,

- 1997–1998 \$ 41 K, ITL Learning Productivity Grant, *Problem-Based, Integrated Interdisciplinary Course-Sequence in Math, Physics, and Engineering* (PI).
- 1995 \$ 11K, NASA Ames Research Center, *An Experimental Investigation of the Effects of Turbulence on Microphone Forebodies* (cont'd).
- 1994 \$ 33 K, NASA Ames Research Center, *An Experimental Investigation of the Effects of Turbulence on Microphone Forebodies*.
- 1993 \$ 2.5 K, Graduate Student Stipend Program, *Automobile Aerodynamics*.
- 1993 \$ 7.2 K, ESL,

- 34.2012 Miniturization, integration, flight testing, and performance analysis of a scalable, autonomous, GPS-guided parafoil system for targeted payload return. *Joshua Benton*. **2012 Outstanding Research Award in Aeronautics**
- 33.2011 Airworthiness analysis of a modified KR-2 experimental aircraft. *Boris Bravo*. Presented at the 2012 AIAA Region VI Student Conference.
- 32.2011 Design of a new stratotanker. *I-Chiang Wu*.
- 31.2011 Design of a small, solar-powered UAV. *Chris Hartney*. **1st Place, Masters Division, 2011 AIAA Region VI Student Conference**
- 30.2011 HALE solar - powered aerial communicator. *Yaser Najafi*.
- 29.2011 VASIMR rocket design for a mission to Mars. *Mitesh Patel*.
- 28.2011 Design of a hoverwing aircraft. *Nita Shah*.
- 27.2011 Subsonic wind tunnel wall corrections on a wing with a Clark Y-14 airfoil. *Tommy Blackwell*.
- 26.2010 Propeller design for a "Downwind, faster than the wind" vehicle. *Shethal Thomas Kodiyattu*.
- 25.2010 CFD wing optimization for a 310-passenger / 120-ton cargo aircraft. *Kapil Chaitanya*.
- 24.2010 Design of a 50-seat commuter aircraft. *Rahail Ahmed*.
- 23.2009 Design of an advanced VTOL dropship. *Dwayne E. Hickman Jr.*
- 22.2009 Fly-by-wire flight control system for jet transport aircraft, *Deeptanshu Arnold*.
- 21.2009 Design of a 100-seat regional aircraft. *Praveen Kumar Morisetty*.
- 20.2007 Feasibility study of the effectiveness of high-lift devices on a blended wing body transport. *Mark Demann*. **3rd Place, Masters Division, 2007 AIAA Region VI Student Conference**
- 19.2007 Design of a medium range blended wing body transport. *Dave Matson*. **1st Place, Masters Division, 2007 AIAA Region VI Student Conference**
- 18.2007 Conceptual design of a small hypersonic transport. *John Candeias*.
- 17.2006 Design of an annular wing. *Ben Affleck*.
- 16.2006 Verification of airworthiness of modified KR-2 aircraft. *Michael Nordin*.
- 15.2006 Formation flying of jet transports. *Woon-Ho Cho*.
- 14.2006 Mechanical inte52cm BT 4 ica

- 2016 – present Member, Management Committee, Asia Pacific Alliance for Quality Assurance in Higher Education < <http://apaqa.org>>
- 2014 – 2018 Faculty Mentor, *Preparing Future Professors*, Stanford University
- Mentored Ph.D. students who intend to pursue academic careers
- 2011 – 2018 International Journal for Quality Assurance in Engineering & Technology Education, Associate Editor, appointed in 2016; Member, Editorial Board since 2011.
- 2010 – 2014 Member, Editorial Advisory Board, Global Journal for Engineering Education.
- 1989 – 1996 Democritos Professional Society
- President, 1993 – 1996
- Vice President, 1991 – 1993
- Board Member, 1989 – 1991

Service to San Jose State University

- 2009 – present ***Ed.D. Leadership Program faculty member***
- 2016-2017 SJSU Associate Dean for Graduate Studies Recruitment Committee
- 2011-2014 University Library Board
- 2011-2013 University Assessment Committee:
- 2009-2010 Chair, Student Evaluation Revi

*Service to the Department of
Aerospace Engineering (1987–1996, 2013–present)
Mechanical & Aerospace Engineering (1996 – 2013)*

2006 – 2020 ***BSAE / MSAE Assessment Coordinator***
Design assessment process for program educational objectives and student outcomes, collect
and analyze data, prepare self study reports for the University, ABET, WASC.

2004 – present Chair, AE Faculty Search Committee

1995 – 2018 Faculty Advisor, !"# (Aerospace Honor Society) Student Chapter

2010 – 2011 MAE Department Chair Search Committee

2009 – 2012 MAE Undergraduate Studies Committee; Chair, 2010–2012

1990 – 1998 Faculty Advisor for the AIAA Student Chapter
1994:

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