

Robert J. Niewoehner

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Education

Degree	Discipline	Institution	Year
Ph.D.	Aerospace Engineering (Flight Dynamics & Control)	Naval Postgraduate School	1994
M.S.	E.E. (Electro-Optics)	The Johns Hopkins University	1981
B.S.	Physics	U. S. Naval Academy	1981

Academic Experience

Institution	Rank	Title	Dates	Full or Part Time
U.S. Naval Academy	Professor	David F. Rogers Distinguished Professor of Aeronautics	2011 - present	Full
U. S. Naval Academy	Asst., Assoc., Full Professor	Permanent Military Professor Chairman	1998-2011 1999-2003	Full

Non-Academic Experience

- 1994-1998 Chief Test Pilot, F/A-18 E/F Super Hornet Development
- 1988-1991 Project Officer and Engineering Test Pilot, NAS Patuxent River, MD
- 1981-1988 US Navy fleet F-14 pilot and instructor pilot, NAS Oceana, VA

Certifications and Professional Registrations

- Engineering Test Pilot, US Naval Test Pilot School
- Certified Flight Instructor, ASE

Current Membership in Professional Organizations

- Associate Fellow, Society of Experimental Test Pilots
- Associate Fellow, American Institute of Aeronautics and Astronautics
- Member, International Council of Systems Engineers
- Member, American Society of Engineering Educators

Honors and Awards

- Raouf Ali Raouf Award for Teaching Excellence in Engineering (US Naval Academy, 2011)
- *Best Conference Papers* (American Society of Engineering Education, 2008)

- Collier Trophy for “the greatest achievement in aeronautics or astronautics in America,” (National Aeronautics Association, 1999). Team award to F/A-18 E/F Program.
- Ray Tenhoff Award for Best Paper (Society of Experimental Test Pilots, 1998).

Service Activities

- USNA
 - Chair, Senate Finance Committee (2009 to 2011).
 - Member, Superintendent’s Strategic Initiative Working Group (Fall 2008).
 - Member Faculty Senate, representing the Engineering Division (2009-present)
 - Chair, Faculty Senate Core Curriculum Committee (2006-2009)
 - Chair, Dean's committee on Critical Thinking across the Curriculum (2005-2006)
 - Faculty Director, Fluids Laboratory (2003-2007)
- External
 - Co-Director, Region of the Americas, CDIO Initiative
 - Naval Academy Representative, Navy Systems Engineering Stakeholder’s Group (2007-present). Council of Navy Chief Engineers.
 - Co-Chair, Curriculum Committee, International CDIO consortium (2007-2009)
 - Co-Director, National Aerospace Initiative (2009 to 2011).

Selected Publications and Presentations

Books

Ward, D., Stragnac, T., and Niewoehner, R.J., *Introduction to Flight Test Engineering, 3e (Volume 2)*, Kendall-Hunt, Dubuque, IA, September, 2007.

Paul, R., Niewoehner, R.J. and Elder, L., *Engineering Reasoning*, Foundation for Critical Thinking, Sonoma, CA, July, 2006 [Booklet- ~50 pages]

Journals

A.N. Flint and R. J. Niewoehner, “Technical Comment on ‘Refining Satellite Methods for Pitot-Static Calibration’”, *Journal of Aircraft*, May-June 2011, vol.48, no.3 (pgs. 1119-1120).

W. F. Phillips, and R. J. Niewoehner, “Characteristic Length and Dynamic Time Scale Associated with Aircraft Pitching Motion,” *Journal of Aircraft*, March–April 2009, Vol. 46, No. 2, pp. 572-582.

R.J. Niewoehner, C. Steidle, “The Loss of the *Space Shuttle Columbia*: Portaging the Leadership Lessons with a Critical Thinking Model,” *Engineering Management Journal*, March 2009, Vol. 21, No. 1, pp. 9-18.

Recent Professional Development Activities

Faculty/Professional/Student development workshops taught

R.J. Niewoehner, “A Systems Thinking System,” Workshop for Commander Operational Test and Evaluation Force and his executive staff, Norfolk, VA, August 23, 2011.

R.J. Niewoehner, “Critical Thinking in Higher Education,” LASPAU Center, Harvard University, Cambridge, MA, November 12, 2010 and April 5, 2011.