

PATRICK C. SUERMANN, PhD, P.E., LEED AP
Department Head, Associate Professor

EDUCATION:

BS, Civil Engineering, U.S. Air Force Academy, 1997
MS, Construction Management, Texas A&M University, 2003
PhD, Design, Construction, and Planning, University of Florida, 2009

ACADEMIC EXPERIENCE:

Texas A&M University, College Station, TX, Associate Prof, Dept Head, 2017-Present
United States Air Force Academy (USAFA), Instructor, 2003-2006, Associate Professor, 2012-2015

NON-ACADEMIC EXPERIENCE:

- Commander, 821 Support Squadron, Thule Air Base, Greenland, 2011-2012
 - Led seven flights supporting remote active duty units in a combined U.S., Canadian, Danish, and Greenlandic environment with 550 military, civilian and contractor personnel. Responsible for the infrastructure, facilities, and day-to-day operations for enhancing missile early warning, space surveillance, space control and operational readiness by providing engineering, medical, communication, logistics, services, and airfield operations
- Executive Officer, Air Force Center for Engineering and the Environment, Lackland AFB, TX, 2011
 - Assisted SES director, O-6, & GS-15 deputies in developing, integrating and executing AFCEE's goals & objectives across 11 divisions, consisting of 700+ personnel and \$16B annually in projects worldwide
- MILCON Program Manager, Camp Bastion, Afghanistan, 2010
 - Led 17 military and civilian engineers and managed \$1B in construction for Helmand Province airpower amid troop surge
- MILCON Project Manager, Air Force Center for Engineering and the Environment, TX, 2009-11
 - Led 10-engineer team executing 175 MILCON projects at \$3.4B; lead visionary in future construction innovation & development

CERTIFICATIONS/PROFESSIONAL REGISTRATIONS:

Professional Engineer, CO, 2006
LEED AP, 2009

PROFESSIONAL ORGANIZATIONS:

Associated General Contractors of America
Society of American Military Engineers
American Society for Engineering Education
Associated Schools of Construction

HONORS AND AWARDS:

AGC Internship with Industry, Swinerton, Inc. 2014
Toulmin Medal Winner for excellence from "The Military Engineer", #1 article of 2010
Federal Engineer of the Year, Air Force (military), NSPE, 2009
USAFA Outstanding Academy Educator, 2006
DFCE Company Grade Officer of the Year, 2004
Air Force Meritorious Service Medals (4), 2006, 2009, 2010, 2012

Air Force Commendation Medal (2), 2000, 2002

INSTITUTIONAL AND PROFESSIONAL SERVICE IN THE LAST FIVE YEARS:

Cadet Character Coach, 2013

Technical Reviewer for ASCE Journal of Engineering Management

Led USAF BIM training, on behalf of Air Force A7/CRT, Nellis Air Force Base, NV, 7-9 Dec 10

University of Texas, Graduate BIM Class guest lecturer, Dr. Fernanda Leite, 11 Nov 10

Led USAF BIM training, Lackland Air Force Base, TX, 2-4 Nov 10

PRINCIPAL PUBLICATIONS OF THE LAST FIVE YEARS:

Christ, J. Heiderscheidt, J; Pickenpauh, M., Phelan, T., Pocock, J., Stanford, M., Seely, G., **Suermann, P.**; Twesme, T., "Incorporating Sustainability and Green Engineering into a Constrained Civil Engineering Curriculum" *J. of Professional Issues in Engineering and Educational Practice* XX(?) XX-XXX

Suermann, P. & Maddox, L. 2014 "MILCON in the Department of Defense: Estimating, Building Information Modeling (BIM) Based Design, and Impact on United States Army and Air Force Construction," Chapter 15, *ASCE BIM Monograph*, University of Florida, publication pending

Engelhardt, A. & **Suermann, P.** 2014. Evaluating Computer Technology in Construction Education: Hardware & Software, *Associated Schools of Construction International Conference*, 27 Mar 2014, Washington, D.C.

Suermann, P., Pocock, J., Senseney, C. 2013. "Evaluating Afghan Construction in the U.S. Air Force: Austere Construction Initiatives and Analysis," *Construction in the Twenty First Century Conference (CITC) VII Proceedings*, Bangkok, Thailand, December 19-21.

McCuen, T., **Suermann, P.**, and Krogulecki, M. (2012). "Evaluating Award-Winning BIM Projects Using the National Building Information Model Standard Capability Maturity Model." *J. Manage. Eng.*, 28(2), 224–230.

Hutchison, M. & **Suermann, P.** 2010. Air Force BIM for MILCON Transformation", *The Military Engineer*, pp71-72. Vol 102 (668). Nov-Dec 2010.

Suermann, P. and McCuen, T., "AIA-TAP BIM Repeat Award Winners: Strengths and Opportunities," *Journal of Building Information Modeling*. pp 21-25. Fall 2009.

Suermann, P. and Issa, R. 2010 "United States Air Force MILCON Transformation: Building Information Modeling Case Studies." *Proceedings of the 2010 CIB-W78 27th International Conference – Cairo, Egypt*, 16-18 November.

Suermann, P. and Issa, R. "Dynamic Prototyping: Building Information Modeling in the United States Air Force." *Proceedings of the ASCE International Conference on Computing in Civil Engineering*, 2009. June, 2009, Austin, TX.