

# SMU Systems Engineering Program



Dr. Jerrell Stracener  
Founding Director, SEP  
Associate Professor

Dr. Jerrell Stracener is the founding director of the Systems Engineering Program and an Associate Professor in the Engineering Management, Information, and Systems Department at Southern Methodist University's Lyle School of Engineering. He is the SMU Senior Researcher in the U.S. DoD sponsored Systems Engineering Research Center (SERC). He plans, directs, and administers the Systems Engineering Program and has led its development in partnership with industry and government since inception. Dr. Stracener also develops and teaches graduate courses in systems analysis methods; systems reliability, supportability, and availability analysis; engineering probability and statistics; and systems reliability engineering. He conducts/directs engineering of systems research and supervises masters and doctoral students. Prior to joining SMU full-time in 2000, he served as an adjunct professor at SMU, the University of Texas at Arlington, the National University in Los Angeles, and the University of Dallas.

Dr. Stracener has performed and directed integrated logistics support (ILS) and systems reliability, maintainability & supportability engineering and analysis at LTV / Vought / Northrop Grumman as ILS program manager, director of ILS modeling and analysis, project manager, engineer, and corporate statistician for many of the nation's advanced military aircraft and missiles programs including the Joint Strike Fighter (F-35), A/F-X, JPATS, ATA (A-12), B-2 (including Air Force requested industry loan to Northrop), ATF (YF-23), S-3, V/STOL, MLRS, ASAT, cruise Missile, NFA (F/A-18), A-7D/E/X, as well as classified programs and advanced technology development projects. He also served in the U.S. Navy.

In addition and concurrent with LTV/Vought/Northrop Grumman employment, Dr. Stracener participated in government and industry teams to develop and revise military standards and handbooks, co-founded and served as chairman of the SAE Reliability, Maintainability, Supportability (RMS) Division (G-11), and was the founding director of the CALS/CE Connectivity Center at the University of Texas at Arlington (UTA) Automation & Robotics Research Institute (ARRI).

Dr. Stracener has received numerous awards including SAE Fellow, SAE Forest R. McFarland Award, AIAA Systems Effectiveness & Safety Award, U.S. Navy Reliability, Maintainability & Quality Assurance (RM & QA) Award, and AIAA Associate Fellow.

Dr. Stracener received Ph.D. and M.S. degrees in statistics from Southern Methodist University, a B.S. in mathematics from Arlington State College (now the University of Texas at Arlington), and certificates from U.S. Navy Class A Electronics Schools.

SMU Lyle School of Engineering's Systems Engineering Program (SEP) has long been recognized for providing workplace relevant education and research to the nation's aerospace and defense (A&D) community, both industry and government. The SEP was developed and continues to evolve under the leadership of Dr. Jerrell Stracener in partnership with government agencies and A&D companies. The Lyle's system engineering research program is being driven by needs of A&D systems developers, including Lockheed Martin, Raytheon, Bell Helicopter, Elbit Systems and L-3 Communications. Its doctoral program was introduced in 2009 in response to needs of the United States A&D sector, both industry and government.

## ABOUT THE BOBBY B. LYLE SCHOOL OF ENGINEERING

SMU's Bobby B. Lyle School of Engineering, founded in 1925, is one of the oldest engineering schools in the Southwest. The school offers eight undergraduate and 29 graduate programs, including both master's and doctorate levels. A private university located in the heart of Dallas, SMU is building on the vision of its founders, who imagined a distinguished center for learning emerging from the spirit of the city. Today, 11,000 students benefit from the national opportunities and international reach afforded by the quality of SMU's seven degree-granting schools.

For more information, contact Dr. Jerrell Stracener,  
Department of Engineering Management,  
Information, and Systems, 214-768-1535, or  
jerrell@lyle.smu.edu

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