CV – Stan White

Field: at the intersection of aerospace and electrical engineering.

USAF Strategic Air Command, Korean War and 2 tours of duty in the Atlantic Missile Range evaluating both US-developed and captured German WWII rockets and components.

BSEE, MSEE, PhD (EE, Aero & Engineering Sciences) all from Purdue University (*alma mater* to 23 US astronauts and where Amelia Earhart had been on faculty.) North American Aviation Science-Engineering Fellow. Additional engineering work at UCLA.

Professional Engineer Licenses from Indiana and California

4 years at Allison Div. GM; research, development and testing of jet-aircraft engines

31 years at North American Aviation/North American Rockwell/Rockwell International developing guidance, navigation and control (GN&C) and communications systems for aircraft, missile and space systems. Climbed dual technical and management ladders to department Manager. Retired in 1990 as Senior/Chief Scientist. Retained for another decade as Scientific Advisor to Boeing North American. Programs: XB-70 and B-1A bombers, Minuteman ICBM and many tactical missiles, assorted space hard-ware, space and classified communications systems, from system level to IC design. Also developed manufacturing and testing methods. Voyager spacecraft GN&C systems engineer, performed mission requirements and trajectory analysis under JPL/NAA contract.

13 years as CEO of SPACECorp™, a lean specialty shop for rapid development of novel GN&C products. Worked with Honeywell on development of "digital gyro," Army "smart" artillery shell; developed and evaluated methods and equipment in oil exploration for precision positioning of drill-bit heads located miles from the wellhead. Retired in 2003.

Concurrently was Adjunct Prof. of Aerospace Engineering at UCLA and of Electrical & Computer Engineering at UCI for 36 years. Earlier full-time academic faculty for 2 years at Purdue.

NSF consultant on signal processing Centers of Excellence; chaired 6 major international engineering conferences. Served on professional, industrial and government administrative and technical committees.

Inventor with 82 US and several foreign patents; coauthored 3 engineering texts, 15-year contributor to McGraw-Hill Encyclopedia of Science and Technology. Published dozens of peer-reviewed engineering research papers.

Elected Fellow of the AAAS, IAE, IEEE, IIMBE (Paris), NYAS, Royal Sorensen Fellow; Assoc Fellow of AIAA.

Awards: IEEE Centennial and Millennium Medals, Circuits and Systems Society Golden Jubilee and Technical Achievement Awards, Signal Processing Society Distinguished Lecturer Award; 1986 Leonardo da Vinci Medallion (space communications), 2005 Vladimir Karapetoff Outstanding Technical Achievement Award (navigation, flight control); elected to American Association of Engineering Societies' Who's Who in Engineering; Engineer-of-the-Year awards from Rockwell International Corp., Orange County Engineering Council, IEEE; Purdue University DEA (1988) and OEE(1992) Awards.

Now retired. High-school classroom calculus/physics volunteer 2003 – 2010. Left over bureaucracy clashes. Since 2010 Chairman of Clinical Volunteers in Cardiac Telemetry and Cardiac Intensive Care Units at the 582-bed Mission Hospital Medical Center, Mission Viejo, CA; VA "Vet-2-Vet" weekly visitor to homebound vets; take cancer patient to their treatments, stay with them and assist their families. Founding and current President of Orange County CA Sigma XI Chapter (served as President for 23 years total, Treasurer for 4 years.) Hydrocephalus Association peer counselor.