

2015 Annual Lecturers

61st Annual Louis H. Bauer Lecturer: Melchor Antuñano, M.D., M.S.

"Advanced Medical Technologies and Their Implications for Aerospace Medicine and Human Performance"

Dr. Antuñano is currently the Director of the U.S. Federal Aviation Administration (FAA) Civil Aerospace Medical Institute (CAMI) in Oklahoma City.



Dr. Antuñano was born in Mexico City and is a graduate of the National Autonomous University of Mexico School of Medicine. He completed the Residency Program in Aerospace Medicine at Wright State University in Dayton, OH. He was awarded a post-doctoral research associateship by the U.S. National Research Council of the National Academy of Sciences at the USAF School of Aerospace Medicine in San Antonio, TX.

He is Past-President of the U.S. Aerospace Medical Association, the U.S. Space Medicine Association, and the Iberoamerican Association of Aerospace Medicine. He is a Fellow of the Aerospace Medical Association and the Aerospace Human Factors Association.

Dr. Antuñano is Chancellor of the International Academy of Aviation and Space Medicine and a member of the International Academy of Astronautics. He is Honorary Member of the Austrian, Brazilian, Colombian, Greek, Mexican, Peruvian, Slovenian and Turkish Societies of Aviation/Aerospace Medicine. He is a faculty member at Wright State University School of Medicine, the University of Texas Medical Branch in Galveston, and the National University of Colombia School of Medicine.

He is credited with 642 professional presentations and invited lectures at national and international conferences in aerospace medicine in 38 countries, and with 58 scientific publications covering a variety of aerospace medicine topics.

2nd Annual Reinartz Lecturer: Thomas Jones, Ph.D.

"Beyond Earth: The Importance of Deep Space Exploration"

Thomas D. Jones, PhD, is a scientist, author, pilot, and former NASA astronaut. He holds a doctorate in planetary sciences, and in more than eleven years with NASA, flew on four space shuttle missions to Earth orbit. On his last flight, Dr. Jones led three spacewalks to install the centerpiece of the International Space Station, the American Destiny laboratory. He has spent 53 days working and living in space. A distinguished graduate of the Air Force Academy, Tom piloted B-52D strategic bombers, studied asteroids for NASA, engineered intelligence-gathering systems for the CIA, and as a NASA contractor, developed advanced mission concepts to explore the solar system.



Tom served on the NASA Advisory Council and is a board member of the Association of Space Explorers and the Astronauts Memorial Foundation. As a senior research scientist at the Florida Institute for Human and Machine Cognition, he focuses on the future direction of human space exploration, uses of asteroid and space resources, and planetary defense. He appears frequently on-air with expert commentary on science and spaceflight.

Tom is the author of three recent space and aviation books: "Planetology" (written with Ellen Stofan), "Hell Hawks! The Untold Story of the American Fliers Who Savaged Hitler's Wehrmacht" (with Robert F. Dorr), and "Sky Walking: An Astronaut's Memoir," which was named by the *Wall Street Journal* as one of its "Five Best" books about space. He also is the author "Mission: Earth and The Scholastic Encyclopedia of the U.S. at War" for young readers. He writes frequently for *Air & Space Smithsonian*, *Aerospace America*, *Popular Mechanics*, and *American Heritage* magazines.

Dr. Jones' awards include the NASA Distinguished Service Medal, four NASA Space Flight Medals, the NASA Exceptional Service award, the NASA Outstanding Leadership Medal, the NASA Exceptional Public Service award, Phi Beta Kappa, and the Air Force Commendation Medal. King's College of Wilkes-Barre, Pennsylvania awarded him an honorary doctorate in 2007 and the Main Belt asteroid 1082 TomJones is named in his honor.

50th Annual Harry G. Armstrong Lecturer: Robert Cabana

"The Kennedy Space Center and NASA's Vision for the Future"

Robert D. Cabana is a former NASA astronaut, currently serving as director of NASA's John F. Kennedy Space Center in Florida. In his current role, Cabana manages all NASA facilities and activities at the spaceport, including the team of civil service and contractor employees who operate and support numerous space programs and projects.



Born in Minneapolis, MN, Cabana graduated from the U.S. Naval Academy in 1971 with a bachelor's degree in mathematics. He was commissioned in the U.S. Marine Corps and completed Naval Flight Officer training in Pensacola in 1972. Cabana then served as an A-6 bombardier/ navigator with Marine Air Wings in Cherry Point, NC, and Iwakuni, Japan. Returning to Pensacola in 1975, Cabana began pilot training and was designated a naval aviator in September of 1976, earning the Daughters of the American Revolution award as the top Marine to complete flight training that year. He graduated with distinction from the U.S. Naval Test Pilot School in 1981 and served in the Flight Systems Branch at the Naval Air Test Center until 1984.

Cabana completed his initial astronaut training in 1986 and was assigned to the Lyndon B. Johnson Space Center Astronaut Office. He has logged 38 days in space, serving as the pilot on STS-41 and STS-53 and mission commander on STS-65 and STS-88. His fourth flight was the first assembly mission of the International Space Station in December of 1998. Following his retirement as a colonel from the Marine Corps in September 2000, Cabana was appointed a member of the Federal Senior Executive Service. He served in numerous, challenging, senior management positions at Johnson Space Center in Houston, ultimately becoming deputy director. In October 2007, Cabana was appointed director of NASA's John C. Stennis Space Center, MS. A year later he was reassigned as the tenth director of the John F. Kennedy Space Center.

Cabana's many achievements have been recognized with induction into the Astronaut Hall of Fame and being named an Associate Fellow in the American Institute of Aeronautics and Astronautics. He has received numerous personal awards and decorations, including the Distinguished Flying Cross, the Presidential Distinguished Rank Award, and the National Space Club Florida Committee's Dr. Kurt H. Debus Award. He is also a Fellow in the Society of Experimental Test Pilots.