

Dr. James R. Huddle

Vice President of Technical Operations, Aerospace & Electronics Systems Society

Position in Industry

Chief Scientist & Head of Advanced Projects, Technology Center
Northrop Grumman Navigation & Space Sensors Division

Expertise

Technical expertise in multi-sensor navigation system mechanization design, analysis & evaluation. Internationally recognized expert in multi-sensor integrated inertial navigation and referencing systems and their applications. Has held lead management positions in systems analysis and advanced systems engineering.

Education

PhD Control Systems, Applied Mathematics & Computers, UCLA
MSE Instrumentation Engineering, University of Michigan
BSE Science Engineering, University of Michigan

Honors & Professional Activities

Winner of the Colonel Thomas L. Thurlow Award of the Institute of Navigation (ION) for the year 1988. Highest award given by the ION for:
“Outstanding Contributions to the Science of Navigation”.

Recipient of a Litton Industries Advanced Technology Achievement Award in 1983.

Member of the initial class of inductees into the Northrop Grumman Hall of Fame for *“Lifetime Achievement and Excellence in Navigation Technology”* in 2004.

Engineers’ Council Distinguished Engineering Achievement Award 2000.
Award was *“For significant contributions to the science & engineering of inertial navigation that have produced benefits on the national level and led to the enhancement of the general body of knowledge”*.

Fellow, Institute of Electrical and Electronic Engineers (IEEE). Served on the Board of Governors of the IEEE Aerospace and Electronic Systems Society (AESS), 1989 to 1996. Currently serving as AESS Vice President, Technical Operations. Responsibility for administration of the AESS Distinguished Lecturers program and leadership of the AESS Technical Panels.

Currently serving on the Position, Location & Navigation Systems (PLANS) Conference Executive Committee as the IEEE/AESS representative.

IEEE Millennium Medal, 2000.

Fellow, International Association of Geodesy (IAG).

Past President of the IAG Special Study Group on the Application of Inertial Techniques to Geodesy and Surveying, 1987-1991. Responsibility was to coordinate the research of an international group of scientists and university professors on the topic over a four-year period and reporting on significant results at international conferences.

Associate Fellow, American Institute of Aeronautics & Astronautics (AIAA).

Served on the AIAA Missile Systems Technical Committee, 1992 to 1996.

Served on the Naval Studies Board Panel for Advanced Navigation Technology for the National Academy of Sciences, 1982 to 1984.

Served on committees for the National Research Council as an invited expert on integrated inertial navigation systems and their applications.

Numerous archival publications in journals and reference texts on the subject of integrated inertial navigation and surveying systems.

Seven patents with five pending and one under secrecy order.

