



# Aerospace Systems Technical Group

The Aerospace Systems Technical Group is concerned with the application of human factors to the development, design, certification, operation, and maintenance of human-machine systems in aviation and space environments. The group addresses issues for civilian and military systems in the realm of performance and safety.

## TECHNICAL FOCUS

Human factors practitioners working in the field of aerospace are engaged in basic research, advanced system design, and improvement of current operational systems. The human factors practitioner is the primary user advocate during system development, testing, and operation. Specific areas of emphasis include the following:

- Crewstation design - single and multi-operator
- Control and display technology
- Operator-computer interface-software design
- Training devices and protocols, system usability evaluations
- Anthropometric measurement
- Environmental effects on human performance
- Human performance analysis and subjective Assessment

The government, industry, and academia conduct research related to human factors in aerospace systems. Most of this research is involved with military and civilian aircraft, air traffic control or space systems. Some of the areas of research conducted by members of the ASTG include:

- Effects of fly-by-wire systems on general aviation pilot performance
- Development of an automated measure of air traffic controller workload
- Information requirements of en route air traffic controllers
- Luminance requirements for helmet-mounted displays
- Seating for military aircraft

## MEMBERSHIP

The ASTG has about 400 members. They work for the military services, universities, NASA, and FAA, as well as for aerospace contractors and consulting firms engaged in human factors research related to aerospace systems.

## BENEFITS OF MEMBERSHIP

The Aerospace Systems Technical Group, like other technical groups within the Human Factors and Ergonomics Society, performs a variety of functions and services for its members.

In addition to sponsoring technical sessions at the Annual Meeting of the Human Factors and Ergonomics Society, the ASTG conducts and/or cosponsors special symposia on topics of interest to members.

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A newsletter is sent to all members about four times a year. Annual dues are \$6. Additional information on the ASTG is available on the HFES Web site at <http://hfes.org>.

It is not necessary to belong to the Human Factors and Ergonomics Society in order to join the Aerospace Systems Technical Group.

## HUMAN FACTORS AND ERGONOMICS SOCIETY

The Human Factors and Ergonomics Society is an international, multidisciplinary, nonprofit organization of close to 5,000 members involved in the human factors field. HFES is the largest organization of human factors professionals in the world.

HFES members are concerned with the safety, usability, and maintainability of systems and products that involve the human as an operator or maintainer. Since its formation in 1957, the Human Factors and Ergonomics Society has promoted the discovery and exchange of human factors knowledge, as well as the education and training of students and practitioners.

The Human Factors and Ergonomics Society is a member of the International Ergonomics Association.