ISO TC 159/SC5
Ergonomics of the Physical Environment

Scope  To develop International Standards in the area of Ergonomics of the Physical Environment, including:
• Thermal environments
• Vision and lighting
• Danger signals and communication in noisy environments
• People with special requirements
• Surface temperatures
• Integrated environments
• Perception of air quality

Chair  Prof. Ken Parsons (United Kingdom)
Secretary  Mr. Jose Alcorta
Participating Countries  (17)
Observer Countries  (10)

Working Groups
1 - Thermal environments
4 - Integrated environments
5 - People with Special Requirements
6 - Perception of Air Quality

How to get involved:
1) Find out more about the ANSI/HFES TAG to ISO TC 159/SC5 by contacting:
   Daryle Gardner-Bonneau at JDNBonneau@charter.net
2) Participate in the HFES Standardization and Best Practices Working Group by contacting: Al Poston at aposton86@comcast.net

Organizational Structure

Current Projects:

ISO/FDIS 24500
Guidelines for all people, including elderly persons and persons with disabilities -- Auditory signals on consumer products

ISO/DIS 24501
Guidelines for all people including elderly persons and persons with disabilities - Auditory signals on consumer products- Sound pressure levels of signals for the elderly and in noisy conditions

ISO/CD 24502
Guidelines for all people including elderly persons and persons with disabilities -- Visual signs and displays -- Specification of age-related relative luminance and its use in assessment of light

ISO/DIS 28802
Ergonomics of the physical environment -- The assessment of environments by means of an environmental survey involving physical measurements of the environment and subjective responses of people

ISO/DIS 28803
Ergonomics of the physical environment -- Application of international standards to people with special requirements

NWIP N492
Sound pressure levels of spoken announcements for consumer products and public address

NWIP N502
Mathematical model for predicting and evaluating the dynamic human physiological response to thermal environments

Published Standards

ISO 7243:1989 Hot environments -- Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)
ISO 7726:1998 Ergonomics of the thermal environment -- Instruments for measuring physical quantities
ISO 7730:2005 Ergonomics of the thermal environment -- Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria
ISO 7731:2003 Ergonomics -- Danger signals for public and work areas -- Auditory danger signals
ISO 8996:2004 Ergonomics of the thermal environment -- Determination of metabolic rate
ISO 9886:2004 Ergonomics -- Evaluation of thermal strain by physiological measurements
ISO 9920:2007 Ergonomics of the thermal environment -- Estimation of thermal insulation and water vapour resistance of a clothing ensemble
ISO 9921-2003 Ergonomics -- Assessment of speech communication
ISO 10551:1995 Ergonomics of the thermal environment -- Assessment of the influence of the thermal environment using subjective judgement scales
ISO 11079:2007 Ergonomics of the thermal environment -- Determination and interpretation of cold stress when using required clothing insulation (IREQ) and local cooling effects
ISO 11399:1995 Ergonomics of the thermal environment -- Principles and application of relevant International Standards
ISO 11428:1996 Ergonomics -- Visual danger signals -- General requirements, design and testing
ISO 11429:1996 Ergonomics -- System of auditory and visual danger and information signals
ISO 12894:2001 Ergonomics of the thermal environment -- Medical supervision of individuals exposed to extreme hot or cold environments
ISO 13731:2001 Ergonomics of the thermal environment -- Medical supervision of individuals exposed to extreme hot or cold environments
ISO 13732:2-2001 Ergonomics of the thermal environment -- Methods for the assessment of human responses to contact with surfaces -- Part 2: Cold surfaces
ISO/TS 14415:2005 Ergonomics of the thermal environment -- Application of International Standards to people with special requirements
ISO 15265:2004 Ergonomics of the thermal environment -- Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions
ISO 15743:2008 Ergonomics of the thermal environment -- Cold workplaces -- Risk assessment and management
ISO/TR 19358:2002 Ergonomics -- Construction and application of tests for speech technology