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
- Accessible design of the physical environment
- Surface temperatures
- Integrated environments

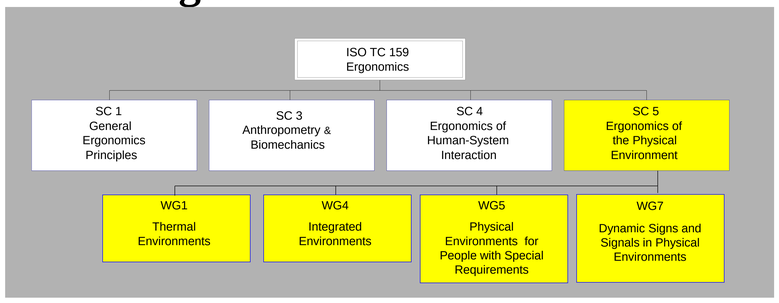
Chair Prof. Simon Hodder (United Kingdom)
Secretary Mr. Amit Patel
Participating Countries (20)
Observer Countries (15)

Working Groups
WG1: **Thermal Environments**
Dr. Simon Hodder
WG 4: **Integrated Environments**
Prof. Ken Parsons
WG 5: **Physical Environments for People with Special Requirements**
Dr. Nana Itoh
WG 7: **Dynamic Signs and Signals in Physical Environments**
Prof. Hiroshi Watanabe, Ph.D.

How to get involved:

1) **Find out more about the ANSI/HFES TAG to ISO/TC/159/SC5 by contacting: Amrita Sidhu Maguire at Amrita.Maguire@Dell.com**

Organizational Structure



Current Projects:

ISO/CD 7726 - Ergonomics of the thermal environment — Instruments for measuring and monitoring physical quantities

ISO/DIS 7730 - 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/DIS 7933.2 - Ergonomics of the thermal environment — Analytical determination and interpretation of heat stress using calculation of the predicted heat strain

ISO/CD 8025 - Ergonomics of the thermal environment — Determination of metabolic rate

ISO/DTR 23454-1 - Human performance in physical environments — Part 1: A performance framework

ISO/CD 24505-2 - Ergonomics — Accessible design — Method for creating colour combinations — Part 2: For people with defective colour vision and people with low vision

ISO/DIS 24505 – Ergonomics — Accessible design — Method for creating colour combinations taking account of age-related changes in human colour vision

Published Standards

ISO 7243:2017 Ergonomics of the thermal environment — Assessment of heat stress using the WBGT (wet bulb globe temperature) index
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 7933:2004 Ergonomics of the thermal environment — Analytical determination and interpretation of heat stress using calculation of the predicted heat strain
ISO 8996:2021 Ergonomics of the thermal environment : Management of working conditions in hot environments
ISO 10551:2019 Subjective judgment scales for assessing physical environments
ISO 7243:2017 Ergonomics of the thermal environment – Assessment of heat stress using the WBGT(wet bulb globe temperature) index

ISO 7731:2003 Ergonomics -- Danger signals for public and work areas -- Auditory danger signals

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 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 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 13732-1:2006 Ergonomics of the thermal environment -- Methods for the assessment of human responses to contact with surfaces -- Part 1: Hot surfaces

ISO/TS 13732-2:2001 Ergonomics of the thermal environment -- Methods for the assessment of human responses to contact with surfaces -- Part 2: Human contact with surfaces at moderate temperature

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 13732-3:2005 Ergonomics of the thermal environment -- Methods for the assessment of human responses to contact with surfaces -- Part 3: Cold surfaces

ISO/TS 14505-1:2007 Ergonomics of the thermal environment -- Evaluation of thermal environments in vehicles -- Part 1: Principles and methods for assessment of thermal stress

ISO 14505-2:2006 Ergonomics of the thermal environment -- Evaluation of thermal environments in vehicles -- Part 2: Determination of equivalent temperature

ISO 14505-3:2006 Ergonomics of the thermal environment -- Evaluation of thermal environments in vehicles -- Part 3: Evaluation of thermal comfort using human subjects

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 24500:2010 Ergonomics – Accessible Design – Auditory signals for consumer products

ISO 24501:2010 Ergonomics – Accessible Design – Sound pressure levels of auditory signals for consumer products

ISO 24502:2010 Ergonomics – Accessible Design – Specification of age-related luminance contrast for coloured light

ISO 28802:2012 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 28803:2012 Ergonomics of the Physical Environment - Application of international standards to people with special requirements

ISO 24504:2014 Accessible design - Sound pressure levels of spoken announcements for products and public address systems

ISO 24505:2016 Ergonomics – Accessible design – Method for creating colour combinations taking account of age-related changes in human color vision

ISO/TR 19358:2002 Ergonomics — Construction and application of tests for speech technology