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. Ken Parsons (United Kingdom)
**Secretary** Mr. Amit Patel

**Participating Countries** (11)

**Observer Countries** (19)

**Working Groups**

1 - Thermal environments
4 - Integrated environments
5 – Physical environments for people with special requirements

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**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

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**Current Projects:**

- **Revision of ISO 7243**
  - Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)

- **Revision of ISO 7726**
  - Ergonomics of the thermal environment – Instruments for measuring physical quantities

- **Revision of ISO 7933**
  - Analytical determination and interpretation of heat stress using calculation of the predicted heat strain

- **Revision of ISO 10551**
  - Assessment of the influence of the environment using subjective judgement scales

- **Revision of ISO 13731**
  - Ergonomics of the thermal environment – Vocabulary and symbols

- **Revision of ISO 7730**
  - Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local comfort criteria

- **ISO/FDIS 24505**
  - Method for creating colour combinations taking account of age-related changes in human colour vision

- **ISO/NP TR 15742**
  - The determination of the combined effects of environmental components on people

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**Published Standards**

ISO 24504: 2014 Sound pressure levels of spoken announcements for products and public address systems
ISO 7243:1995 Hot environments – Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)
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 7731:2002 Ergonomics – Danger signals for public and work areas – Auditory danger signals

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ISO 7913:2004 Ergonomics of the thermal environment – Analytical determination and interpretation of heat stress using calculation of the predicted heat strain
ISO 8996:2004 Ergonomics of the thermal environment – Determination of metabolic rate
ISO 9886-2004 Ergonomics – Evaluation of thermal strain by physiological measurements
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 11429:1996 Ergonomics – System of auditory and visual danger and information signals
ISO 13731:2001 Ergonomics of the thermal environment – Medical supervision of individuals exposed to extreme hot or cold environments
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/TC 19358:2002 Ergonomics – Construction and application of tests for speech technology
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 (in press)