**Scope**
Ergonomics standardization of the interaction between systems (often computer based) and the people who design, manufacture, use and maintain them. Areas of standardization include hardware ergonomics (including input, display and interactive devices, software ergonomics (including dialogue and interaction design) and human centred design processes and methods (including usability engineering and participative design methods).

**Chair**
Thomas Stewart, UK

**Secretary**
Ben Hedley, BSI (UK)

**Participating Countries**

**Observer Countries**

(13)

**Working Groups**

WG 1 – Fundamentals of controls and signalling methods
Convenor: Shinichiro Fukuzumi, Japan

WG 2 – Visual display requirements
Convenor: Floris van Nes, Netherlands

WG 3 – Control, workplace and environmental requirements
Convenor: Ahmet Cakir, Germany

WG 5 – Software ergonomics and human computer dialogue
Convenor: Susan Harker, United Kingdom

WG 6 – Human centred design processes for interactive systems
Convenor: Johnathan Earthy, United Kingdom

WG 8 – Ergonomics design of control centres
Convenor: John Wood, United Kingdom

WG 9 – Haptic and tactile interactions
Convenor: Ian Sinclair, Canada

WG 10 – Accessible design – Doors and handles of consumer products
Convenor: Kenji Kurakata, Japan

WG 11 – Ease of operation for everyday products
Convenor: Nigel Bevan, United Kingdom

WG 12 – Image safety
Convenor: Dr Hiroyasu Uijjke, Japan

JWG 28 (TC1 SC7 & TC159/SC4) – Common Industry Format (CIF)
Convenors: Thomas Geis, Germany; Mary Theofanos, USA

**Published Standards**

**ISO 1503:2008 (revision)**
Spatial orientation and direction of movement – Ergonomic requirements

**ISO 9241**
Ergonomic requirements for office work with visual display terminals (VDTs)

- **Part 1:1997** General introduction;
- **Part 2:1992** Guidance on task requirements;

**ISO 9241-20:2008**
Ergonomics of human-system interaction – Part 20: Accessibility guidelines for information/communication technology (ICT) equipment and services

**ISO 9241-110:2006**
Ergonomics of human-system interaction – Part 110: Dialogue principles (Revision of 9241-10)

**ISO 9241-129:2010**
Ergonomics of human-system interaction – Part 219: Guidance on software individualization

**ISO 9241-143:2011**
Ergonomics of human-system interaction – Part 143: Forms

**ISO 9241-171:2008**
Ergonomics of human-system interaction – Part 171: Guidance on software accessibility

**ISO 9241-210:2010**
Human-centred design process for interactive systems (Revision of ISO 13407)

**ISO 9355**
Ergonomic requirements for the design of displays and control actuators: **Part 1:1999** Human interactions with displays and control actuators;

**ISO 9355**
Displays; **Part 2:1999** Controls actuators;

**ISO 11064**
Ergonomic design of control centres: **Part 1:2000** Principles for the design of control centres; **Part 2:2000** Principles for the arrangement of control suites; **Part 3:1999** Control room layout; **Part 4:2005** Environmental requirements for control centres; **Part 7:2006** Principles for the evaluation of control centres

**ISO 13406-1:2:1999,2001**
Ergonomic requirements for work with visual displays based on flat panels

Software ergonomics for multimedia user interfaces

**ISO/TR 16982:2002**
Ergonomics of human-system interaction – Usability methods supporting human-centred design

**ISO/PAS 18152:2003**
Ergonomics of human-system interaction – Specification for the process assessment of human-system issues

**ISO/TR 18529:2000**
Ergonomics of human-system interaction – Human-centred lifecycle process descriptions

**ISO 24503:2011**
Ergonomics – Accessible design – Tactile dots and bars on consumer products

**Organizational Structure**

**Current Projects:**

**ISO 9241-11 (rev.)**
Ergonomics of human system interaction – Part 11: Usability definitions and concepts (WG6). Committee Draft (CD) stage

**ISO/TR 9241-1**
Ergonomics of human system interaction – Part 1: Introduction to the ISO 9241 series (WG6). Working Draft (WD) stage

**ISO 9241-112 and 125**

**ISO 9241-220**
Ergonomics of human system interaction – Part 220: Processes for enabling, executing and assessing human-centred design within organizations (WG6). CD stage

**ISO 9241-300 series**
Ergonomics of human system interaction – Electronic visual displays (WG2) – Part 306: Field assessment methods CD voted; Part 333: Stereoscopic displays using glasses (CD stage). 391 at FDIS stage and 392 FDIS approved (WG12)

**ISO 9241-400 series**
Ergonomics of human-system interaction – Physical input devices (WG3) – Parts 400, 410, 411, 420 published

**ISO 9241-900 series**
Ergonomics of human-system interaction – Tactile and haptic interactions (WG9) – Parts 910, 920 published; Part 940 (Evaluation) and Part 960 (Gesture interaction) at DIS stage

**ISO 20282-1**
Ease of operation of everyday products – Part 1: Design requirements for context of use and user characteristics – rev. (WG11)

**ISO/IEC 2506X Series**

**How to get involved:**
Find out more about the ANSI/HFES TAG to ISO TC 159/SC4 by contacting: Tom Albin at talbinus@comcast.net