

ISO TC 159/SC3

Anthropometry and Biomechanics

Scope: to provide basic standards and guidelines for standardization in anthropometry and biomechanics with respect to terminology, methodology & data.

Chair: Dr. Masaaki Mochimaru, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

Secretary: Dr. Yoshiyuki Kobayashi, National Institute of Technology and Evaluation, Tokyo, Japan

Participating Countries (24)

Observer Countries (13)

Working Groups

WG1 Anthropometry

Convener: Dr. Makiko Kouchi (Japan)

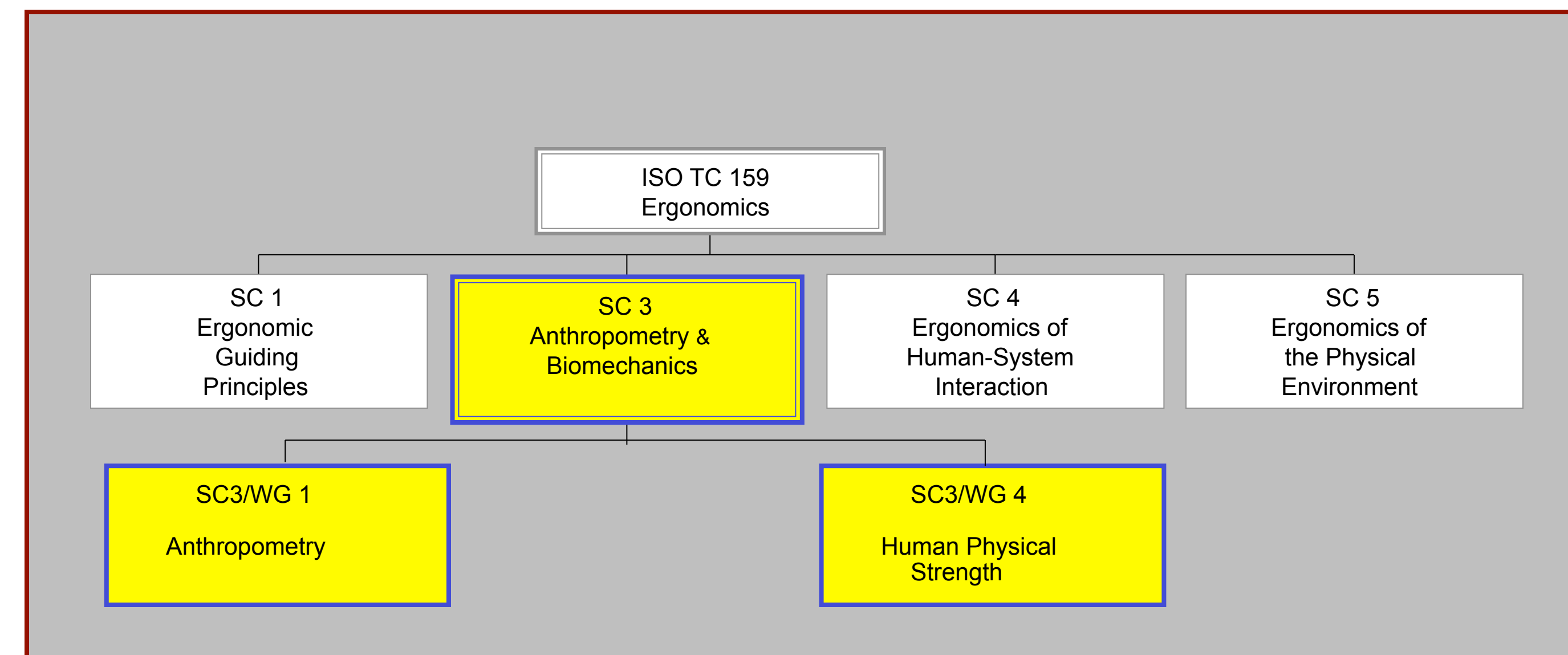
WG4 Human Physical Strength

Convener: Dr. Aleid Ringleberg (Netherlands)

How to get involved:

Find out more about the ANSI/HFES TAG to ISO TC 159/SC3 by contacting: Bob Fox at robert.r.fox@gm.com

Organizational Structure



Current Projects:

Revision of ISO 11228-1:2003 Ergonomics -- Manual handling -- Part 1: Lifting and carrying

ISO Draft New Work Item Proposal: Revision of ISO 14738: Safety of Machinery – Anthropometric requirements for the design of workstations at machinery.

In addition to the current projects, the ANSI/HFES TAG cooperates with other subcommittees to review and provide input to other documents. Anthropometric and strength data are often basic inputs to standards in various Technical Committees and Subcommittees.

Published Standards

ISO 20685-2: 2014 Test Protocols for 3D Body Scanners

ISO 7250-3: 2014 Basic human body measurements for technological design – Part 3: Worldwide and regional design ranges for use in ISO product standards

ISO TR 12295: 2012 Ergonomics: Application Document for ISO Standards on Manual Handling (ISO 11228-1,2,30 and Working Postures ISO 11226)

Published Standards (Continued)

ISO TR 12296:2012 Ergonomics: Manual handling of people in the health care sector

ISO 7250 Basic human body measurements for technological design
Part 1 (2008, revised 2014): Body measurement definitions and landmarks

Part 2 (2009): Statistical summaries of body measurements from individual ISO populations

ISO 11226:2000 Ergonomics -- Evaluation of static working postures

ISO 11228-1:2003 Ergonomics -- Manual handling -- Part 1: Lifting and carrying

ISO 11228-2:2007 Ergonomics -- Manual handling -- Part 2: Pushing and pulling

ISO 11228-3:2007 Ergonomics -- Manual handling -- Part 3: Handling of low loads at high frequency

ISO 14738:2002 Safety of Machinery -- Anthropometric requirements for the design of workstations at machinery

ISO 15534:2000 Ergonomic design for the safety of machinery
Part 1: Principles for determining the dimensions required for openings for whole-body access into machinery

Part 2: Principles for determining the dimensions required for access openings

Part 3: Anthropometric data

ISO 15535:2006 General requirements for establishing anthropometric databases

ISO 15536-1:2005 Computer manikins and body templates – Part 1: General requirements

ISO 15536-2:2007 Ergonomics – Computer manikins and body templates – Part 2: Verification of functions and validation of dimensions for computer manikin systems

ISO 15537:2004 Principles for selecting and using test persons for testing anthropometric aspects of industrial products and designs

ISO/TS 20646-1:2004 Ergonomic procedures for the improvement of local muscular workloads part 1: Guidelines for reducing local muscular workload

ISO 20685:2010 3-D scanning methodologies for internationally compatible anthropometric databases