

WEAR newsletter Year 4 No.1 – February 2009



This Newsletter appears in English, Japanese, French and Portuguese
Language of this newsletter: English

What is WEAR?

WEAR (world engineering anthropometry resource) is an international collaborative effort with the goal to contribute actively to the diffusion and the advancement of knowledge of anthropometry, ergonomics and human factors engineering for health, safety and well-being for all people.

Target group of this newsletter

This newsletter aims to inform all the people interested in applied anthropometry about the progress in the realization of the strategic plan for WEAR.

WEAR Marco Island Report

February 2 and 3 2009 the WEAR group met in Marco Island, Florida, USA. February 4 and 5 were dedicated to a short course on Engineering Anthropometry. The program was:

WEAR Short Course Program 4-5 February 2009 – Marco Island, Florida

Wednesday Feb. 4 Introduction to Engineering Anthropometry

8:00 – 8:30 - Registration and Welcome (WEAR Group)

8:30 - 8:45 - Introduction (K. Robinette)

8:45 – 9:15- W.E.A.R. presentation - Course overview (K. Robinette)

9:15 – 10:00- Anthropometric data types (R. Mollard)

10:00 - 10:15 - Coffee break

10:15 - 11:15- Quality control of anthropometric databases (K. Robinette, M. Kouchi)

11:15-12:00 - 3D anthropometric data collection: overview of scanners and software (H. Daanen)

12:00 - 13:00 - Lunch

13:00 - 13:45- Use of an online database system : WEAR Demo (R. Mollard, A. Bouillet)

13:45 - 14:30- Basic statistical methods for engineering anthropometry (K. Robinette)

14:30 - 15:00 - Coffee break

15:00 – 16:00- Scan processing – use of INTEGRATE (D. Burnside)

16:00 – 16:30- Survey practical aspects: CAESAR (K. Robinette, H. Daanen)

16:30 – 17:00 – Size china (J. Molenbroek, R. Ball, H. Daanen)

Thursday Feb. 5 - Advanced Tools and Applications

8:30 - 9:30 - Statistical shape analysis (C. Shu)

9:30 - 10:00 – 3D data forms (C. Shu)

10:00-10:15 - Coffee break

10:15 - 11:00- Introduction to fit mapping (K. Robinette, H. Daanen)

11:00 - 11:30- Practical application of 3D data for human apparel manikins (D. Veitch)

11:30 - 12:00 - Summary

Attendees came from the USA, France and New Zealand.



The instructors and participants of the short course in the Pelican Bend restaurant

Legal body

WEAR is a legal body. The not-for-profit organization is based in Paris. The IBAN Bank Account number is FR76 1020 7000 7120 2192 9508 654. The SWIFT code is CCBPFRPPMTG. The mail address contact.wear@orange.fr is open for new participants.

New Developments

In Florida, the focus was on the preparation of the WEAR launch in Beijing, scheduled in August 2009. Four tools were presented that form the core of the WEAR website:

- AMI (Anthropometric Measurement Interface); an XML-tool developed by the US Air Force that allows the user to enter anthropometric survey data in an easy way. Every measurement is coded unambiguously.
- ARIS (Antropometry Resource Information System), a program developed by the US Air Force to interact with anthropometric data. Subsets can be derived and transferred to excel for further processing.
- ERGODATA, a web based interface to a large set of anthropometric data, built in Paris.
- PCA tool, built by NRC Canada, which allows the user to select and visualize the principle components of 3D scans of a selected population.

Paris will host the site that will contain the first WEAR datasets and tools.

The WEAR board discussed the business model for the WEAR foundation. It appeared to be difficult to interest companies and users to invest in WEAR before the WEAR site is up and running. However, the need for access to recent anthropometric data of good quality is unquestioned. Therefore, the current partners will continue to invest until the launch in Beijing, as efficient as possible. Paris will mainly invest in technical set-up of the site, and the US Air Force will seek for a manager. When the WEAR site is in the air, users have to pay a fee for access to the data and tools. Since WEAR is not-for-profit, it is intended that the fee will cover the costs of a small WEAR-office only.

In Australia, a recent report evaluated the interest and perceptions concerning a national anthropometric survey. The report is available at:

www.ascc.gov.au/NR/rdonlyres/82B6EA84-E51A-4636-9185-6C6BC80C8995/0/Sizing_up_Australia_report.pdf

Next WEAR meetings

The next WEAR meeting will be in Beijing, in conjunction with the IEA conference, August 9-14, 2009 (www.iea2009.org). During this meeting, the WEAR web portal will be launched by the president of the IEA, David Caple.

In 2010 a winter meeting is planned in New Zealand and the summer meeting may take place in Spain.