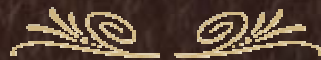


# Activities of the Anthropometric Data Task Group

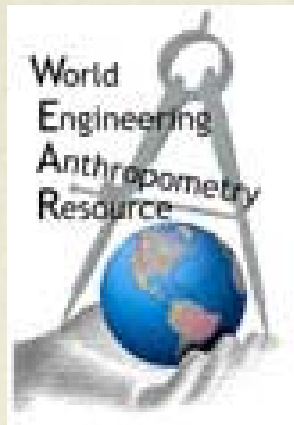


*Sandy Ressler, NIST  
co-chair CODATA TG  
Beijing China, October 2006*

# Overview

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- ❖ Task Group project - What is WEAR?
- ❖ Accomplishments
- ❖ Meetings
- ❖ Future



# What is WEAR?

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- ❖ World Engineering Anthropometric Resource
  - ❖ Developing organization to sustain and manage integration of anthropometry data
  - ❖ Strategic/Business plan - under development
- Make anthropometric and related data available for engineering design applications**

**(fit, comfort, apparel sizing, cockpit, automotive, furniture design and so on)**

# WEAR Resources

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- ❖ TWIKI web site for remote collaboration
- ❖ Project web site for public
- ❖ All parties self funded with some support from CODATA, European & Asian Air Force Research Offices (EORD & AORD), and meeting hosts.
- ❖ Between \$500-750K labor in-kind support each participant.

# Public Web Site



❖ <http://ovrt.nist.gov/projects/wear/>

**WEAR: World Engineering Anthropometry Resource**

WEAR is an international collaborative effort to create a world wide resource of anthropometric data for a wide variety of engineering applications. In addition WEAR is the primary project of a formal CODATA Task Group titled Anthropometric Data and Engineering. The following organizations are participants:

**Members TWIKI Site**

- [AnthroSources](#) - from NIST a collection of resources for anthropometric professionals and standards developers. (several prior links on this page have been moved to AnthroSources page, look there first)
- [CARDLAB](#) - a collection of resources for anthropometry, engineering design and more.

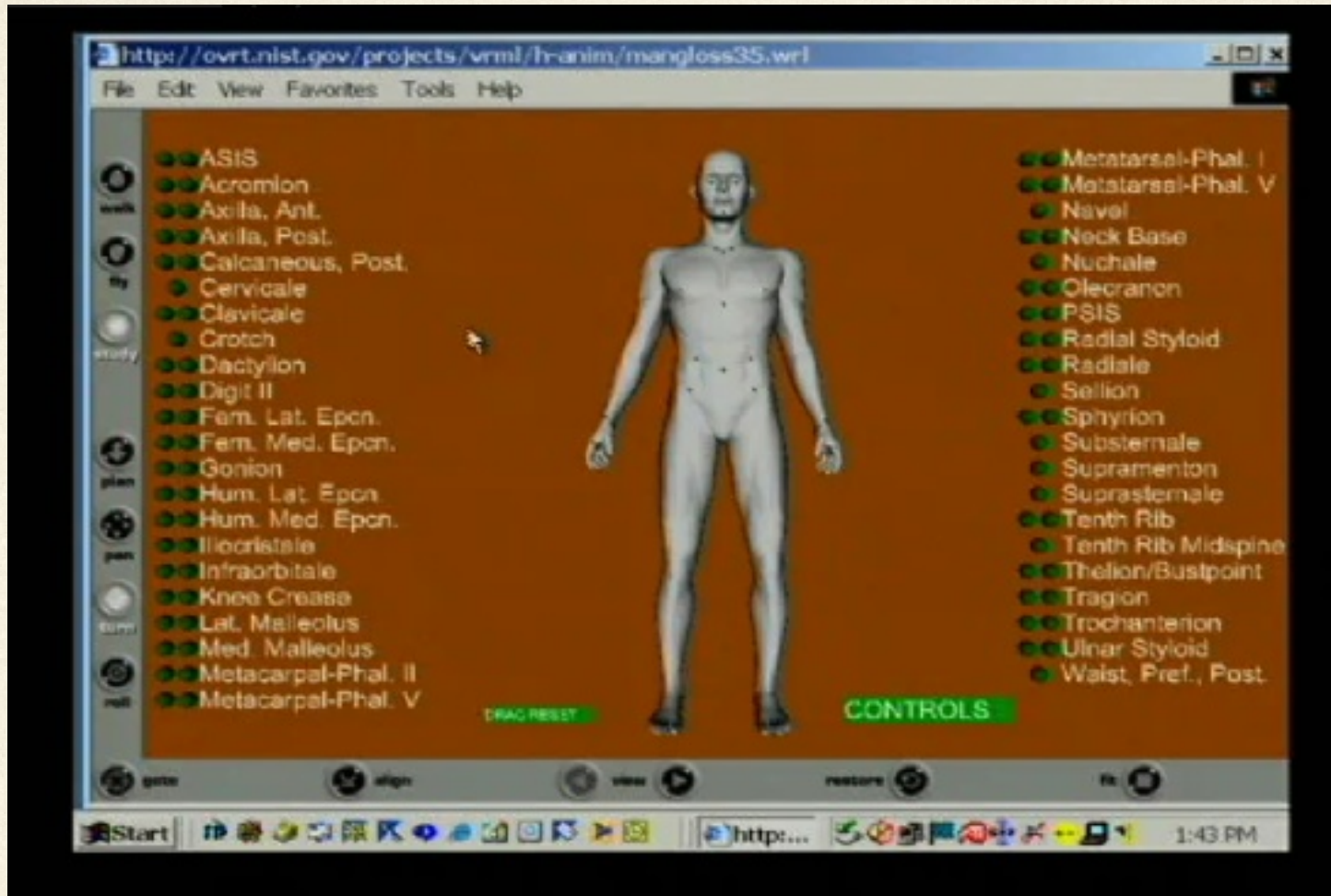
**Events (Past and Future)**

- November 2005, Brazil
- July 2005 (web based)
- April 6-8, 2005: South Africa
- December 10-13 (web based)
- Nov 7-11, 2004 CODATA 2004 (Committee on Data for Science and Technology) WEAR presentations, Berlin Germany
- Aug 24-29, 2003: Workshop on WEAR project, held in collaboration with International Ergonomics Association 2003, Seoul Korea with partial sponsorship by the Asian Office of Aerospace R&D (AOARD) and the European Office of Aerospace R&D (EOARD) of the US Airforce Office of Scientific Research
- June 2004, Dayton Ohio, prior to DHM in Detroit.

The WEAR project website is a product of the [Visualization and Usability Group, Information Access Division, Information Technology Laboratory](#) of the [National Institute of Standards and Technology](#).

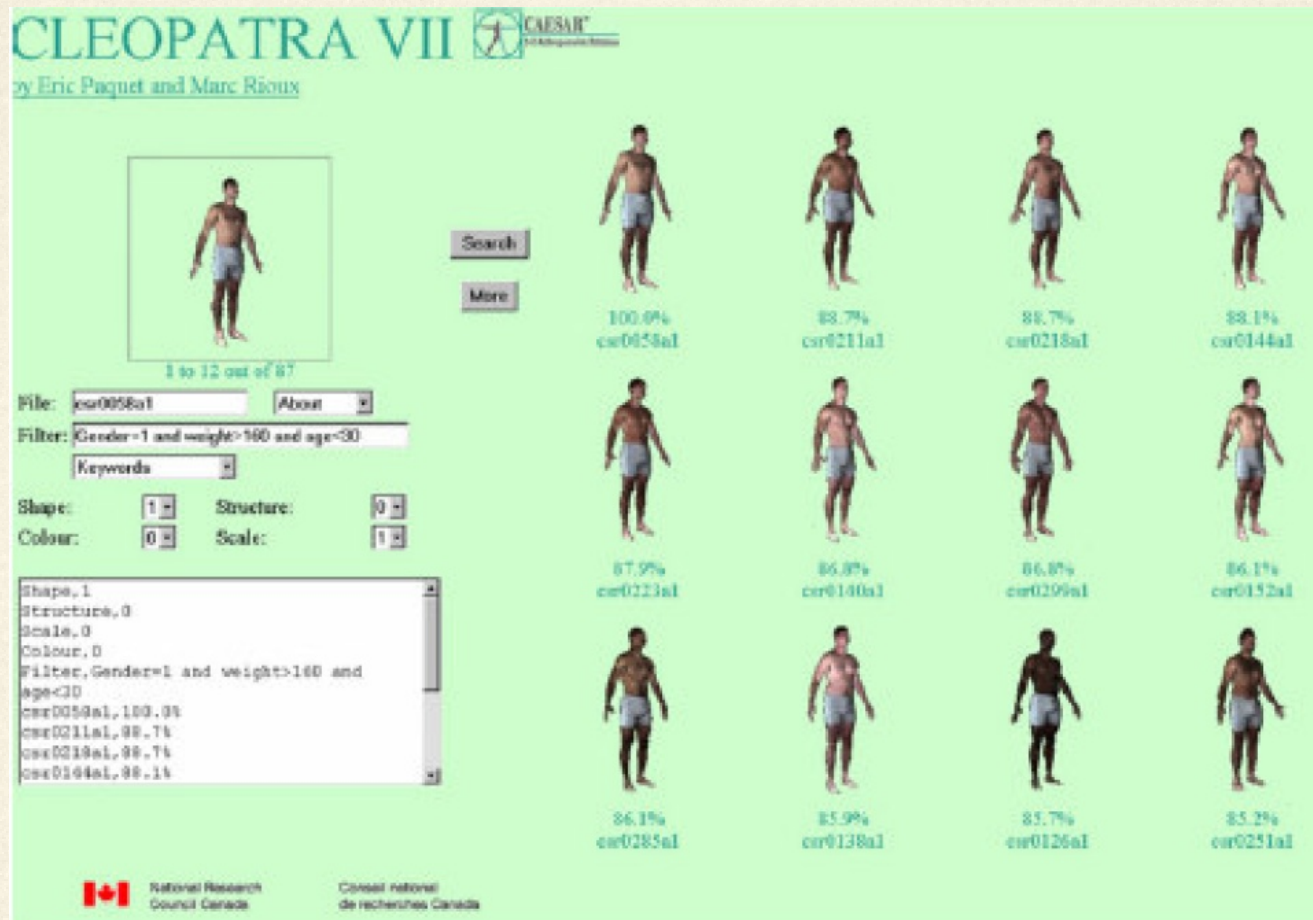
<b>General Information and Comments:</b>	<a href="#">Kathleen Robinette</a>
<b>Webmaster:</b>	<a href="#">Sandy Ressler</a>

NIST Visualization and Usability Group, Information Access Division, Information Technology Laboratory



# Prototype Interfaces

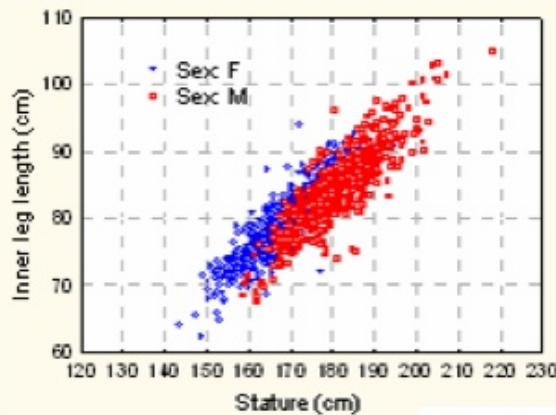
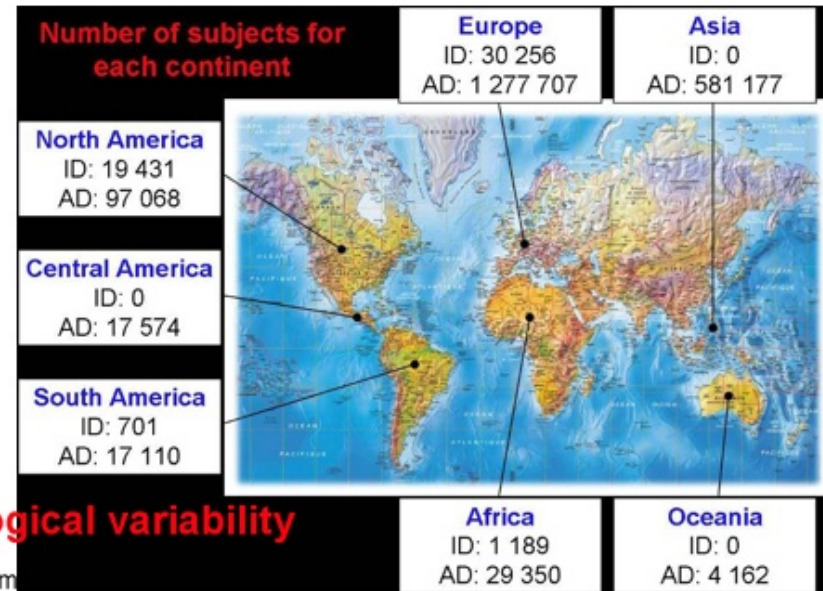
## Visual 3D Glossary



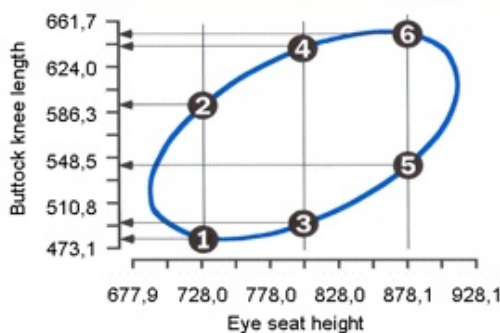
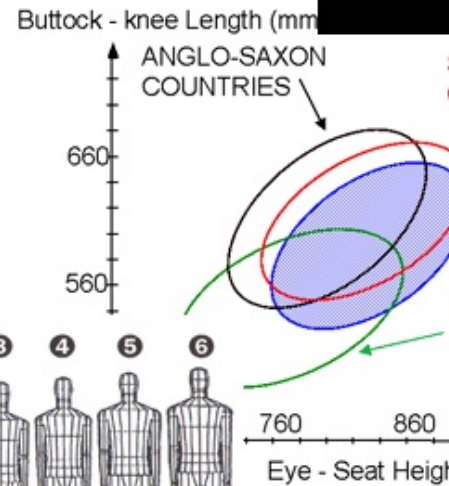
# Prototype Interfaces

## 3D Shape Search

- **IDEAS: Paquette**
- **Visualization and Statistics: Daanen**
- **ERGODATA: Mollard**
- **Dined: Molenbroek**



**Morphological variability**



# Database Tools



# Meetings

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- ❖ Face-to-face meetings approximately every 6 months.
- ❖ Korea (with IEA) Aug. 2003
- ❖ Dayton OH, USA, June 2004
- ❖ South Africa, Brazil; (2005)
- ❖ Netherlands (with IEA) July 2006
- ❖ Working group at CODATA 2006, Beijing
- ❖ Australia (early 07), Canada (mid 07)

**WEAR**  
**International Symposium 2005 - Brazil**

Home Symposium WEAR INT/LABER Búzios Contact

World Engineering Anthropometry Resource

**WEAR  
International  
Symposium  
2005**

**December  
1st - 2005**

Brazil  
UM PAÍS DE TODOS  
GOVERNO FEDERAL

FAPERJ

FINEP

INSTITUTO NACIONAL DE TECNOLOGIA

CODATA

Brazil mtg web site

<http://www.wearbrasil.com>

# Future

- ❖ Complete Strategic/Business Plan
- ❖ Self-Sustaining Organization
- ❖ Sustainable Data Resource
  - ❖ economics
  - ❖ technical (databases, data types, IP issues)
  - ❖ quality is key

**Easy access to quality anthropometric and related databases for engineering design applications.**

# Today's Topics

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- ❖ Visualization, Shape Search and 3D Landmarks
- ❖ XML Networking and Anthropometric Databases
- ❖ Key Sizing Dimensions in Different Countries