

●●● Ergonomics: Frugal to flamboyant



National
Ergonomics
Conference
& Expo 2005

Rani Lueder, cpe
Humanics ErgoSystems, Inc.
ergonomics@humanics-es.com
www.humanics-es.com



Edgar Degas - Les repasseuses (Women Ironing) [1884]



Expensive ergonomic products don't always create a fit!



●●● What they say...

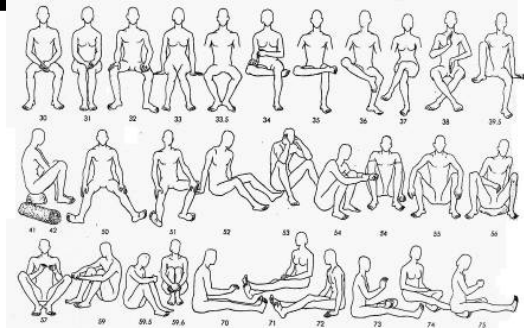
- I need an ergonomic chair!
- I can't reach my backrest!
- I need to work standing!
- I need to sit high!
- I need ergonomic products!



●●● I need an ergonomic chair!

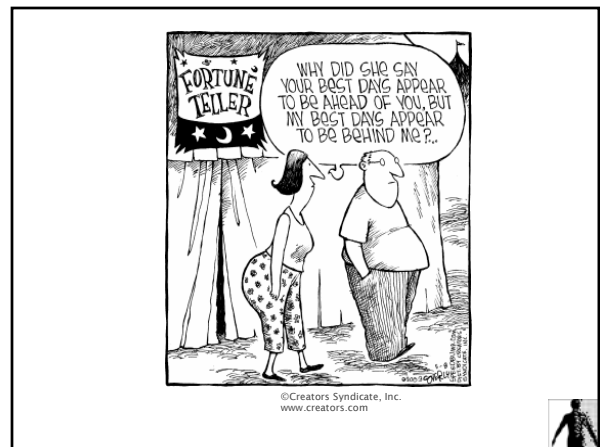
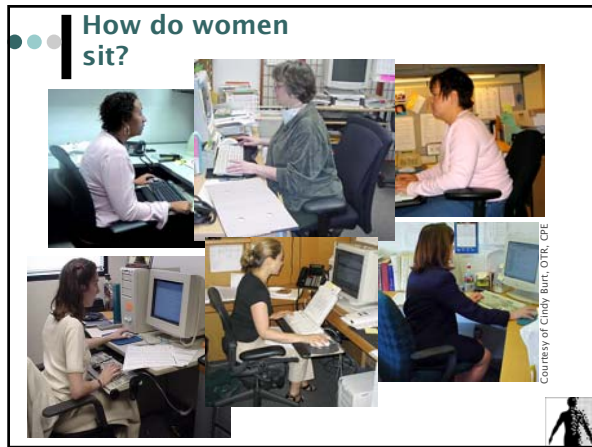
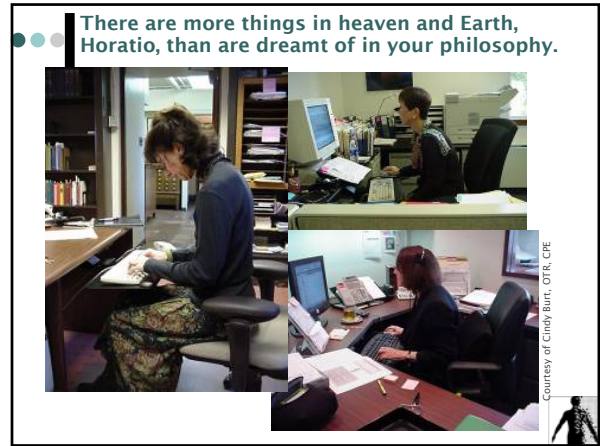
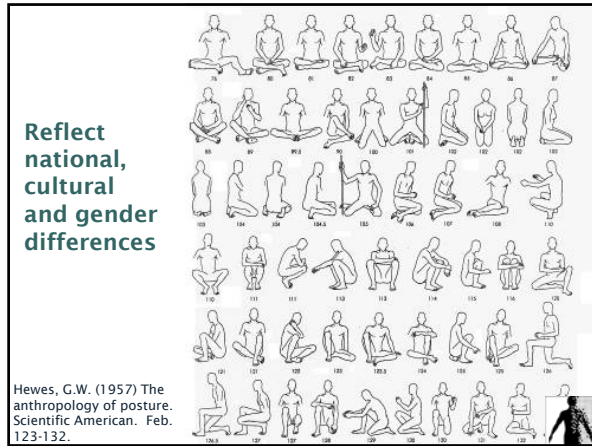


●●● People sit in many different ways




Hewes, G.W. (1957) The anthropology of posture. Scientific American. Feb. 123-132







●●● I can't reach my backrest!






Courtesy of Cindy Bunn, OTR, CPE



Courtesy of Sitmatic






●●● I need to work standing!



●●● Sit-stand station



●●● More than one way to stand



●●● More than one way to stand



I need to sit higher!



Courtesy of Cindy Burt, OTR, CPE



If only we had X-ray vision...
(to see through the monitor in front)



and our clients were shorter...



Courtesy of Cindy Burt, OTR, CPE



Eye height, sitting and standing

	Eye height, standing	Eye height, sitting
1st female	54	44
5th female	56	45
95th male	69	54
99th male	70	55

Tallest male (99th pc, seated) looks into the eyes of the smallest female client (standing)



Solutions



Courtesy of Cindy Burt, OTR, CPE



... Sit standing (the European way)



Using the seat at this height the mechanic can sit, or stand, at the bench with ease. The seat shown is a development versus that sits to the required angle automatically as the seat is raised.




●●● I need ergonomic products!




"Tired at Three O'clock?"
"No Sir! I use the Monarch"



●●●




●●● Never assume




Calm down. I'm not a jumper - I'm a smoker.

© Dan Piraro 1999.
www.uexpress.com




●●● People don't use products the way we expect.




Vivian uses her kitchen shoes to reach the top shelves.


© Creators Syndicate, Inc.
www.creators.com



●●● Band-aid fixes often → more problems



Courtesy of Cindy Burt, OTR, CPE



●●● Screw up one thing, screw up everything!



