

Keynote Speech

Speaker: **Dr Bruce Bradtmiller**
President, Anthrotech (<https://anthrotech.net/meet-the-team/>)

Title: **Human Dimensional Variability: A Safety Problem and Opportunity**

Short Summary: We often think of anthropometry in the realm of personal comfort, fit of clothing and adjustments on the power seats in our automobiles. But human variation is very much a safety problem in the workplace. Protective equipment needs to fit a wide – and widening – range of human body size and shape, and the workplaces themselves must accommodate a diverse workforce. In this overview of anthropometry in the context of safety, we will consider some previous work in the area of fall protection, respiratory protection and workspace layout. We will also see what can be learned from the US military in trying to protect very different populations. The talk will conclude with a discussion of changing body size and shape in the US and abroad.