

# **CODES AND STANDARDS AND ALTERNATE CODE COMPLIANCE MODEL FOR ADVANCED TECHNOLOGY ENVIRONMENTS**

Jennifer A Jones, Del E Webb School of Construction, Arizona State University

*Allan D Chasey, Del E Webb School of Construction Arizona State University*

## *Abstract*

This paper deals with the extension of the Codes and Standards model with a database of Alternative Means and Methods (AMMs). The resulting Codes and Standards and Alternate Code Compliance model which is a web-based tool that deals with two very important areas in the programming, design, construction, commissioning, operations, and decommissioning of advanced technology facilities. The model compiles all the Codes and Standards that deal with advanced technology environments and it provides an executive summary of the codes and where they can be found. Many times professionals in the semiconductor industry find it difficult or non-profitable to comply with codes exactly as prescribed and hence find themselves looking for alternate means of compliance. Hence this model has been extended to include a database of Alternate Means and Methods of Code Compliance used in the semi-conductor industry. This paper will outline the use and value of this model within the industry and also focus on the continuing research being conducted by CREATE in this area. CREATE (Construction Research and Education for Advanced Technology Environments) an industry/university research consortium, based at Arizona State University in the Del E. Webb School of Construction, is currently involved in many research projects associated with the design and construction of semiconductor facilities.