

# Short Invited to Present Research at NAIT Conference

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Jeffrey Short, an instructor in the Technology Department at Southwestern Oklahoma State University in Weatherford, has been invited to present some of his research work at the annual conference of the National Association of Industrial Technology.

Short's peer-reviewed work on "Simulation of Shewhart's Bowl Experiment Using Excel" will be presented at the conference later this year in St. Louis, Mo.

His research interests have focused on the development of simulation methods and complex problem solutions using commonly-available software applications such as Microsoft's Excel spreadsheet application. While in industry, Short found many educational software packages were not available to the practicing technologist and engineer, so it was necessary to develop methods using the more popular software.

Since becoming an instructor at SWOSU in 1997, Short has developed many laboratory experiences and assignments to teach complex problem-solving using common software.

His NAIT presentation will outline one such effort to simulate Dr. Walter Shewhart's famous experiment that aptly demonstrated the concepts of statistical process control using sampling and inferential statistical analysis. Short developed the methods to teach statistical process control to undergraduate students in his Quality Control courses. He continues his research in the area of simulating other important concepts of manufacturing engineering using

Excel and Visual Basic for applications methods.

Short teaches manufacturing and engineering science courses as part of the accredited degree program in manufacturing engineering technology at SWOSU. He is a registered professional engineer in Oklahoma, a certified manufacturing engineer and a certified senior industrial technologist. He is currently serving as president-elect of the manufacturing division of the NAIT.