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**Teri J Murphy\*** (tjmurphy@math.ou.edu), Dept of Mathematics, Univ of Oklahoma, 601 Elm Ave PHSC 423, Norman, OK 73019. *The Statistics Concept Inventory: An Instrument for Assessing Student Understanding of Statistics Concepts.*

A multi-disciplinary team (engineering, psychology, and undergraduate mathematics education,) has developed a multiple choice instrument for assessing student understanding of basic statistics concepts (NSF award 0206977). The project was inspired by the Force Concept Inventory that has helped the physics community document misconceptions and improve the teaching of basic concepts. The SCI is divided into the categories: descriptive, probability, inferential, and graphical. The instrument has been tested for multiple semesters in introductory statistics courses at a variety of institutions. An online version is available. This talk will give examples of items on the test, describe typical results, and explain how instructors can gain access to the test for use in their courses. (Received September 27, 2005)