1046-M1-1682 **James H Fife*** (jfife@ets.org), Mail Stop 11-R, Educational Testing Service, Princeton, NJ 08541. *A measure of inter-rater reliability when one rater is rating on a continuous scale.*

Cohen's kappa is a measure of inter-rater reliability that factors out chance agreement. The usual kappa assumes both raters are rating on a discrete scale. This talk presents a generalization of kappa to the case in which one of the raters is rating on a continuous scale. This measure is applied to data consisting of one human score and one automated score for each response in a set of responses to constructed-response test questions, where the human scores are on a discrete scale and the automated scores are on a continuous scale. Results of the analysis are discussed, including indications of conditions under which continuous scores will give more information than discrete scores. The continuous kappa can also be used to define a confidence measure for the automated score. (Received September 16, 2008)