Workshop Description
The workshop will cover the traditional summer institute topics necessary to set up and start a successful AP Statistics course. This will include how to recruit students and where the AP Statistics course fits into your school’s mathematics sequence. Textbook selection, grading and preparing students for the AP Exam will also be covered. The workshop will be different in that it will look at teaching AP Statistics using simulation based on the computer/graphing calculator as a tool to explore and discover Statistics.

The four main topics of the AP Statistics syllabus – Data Analysis, Producing Data, Probability and Inferential Statistics will be introduced with an exploration/hands-on approach based on simulation, which will motivate students as well as teachers. The morning sessions will be devoted to the academic content of the AP syllabus, with the afternoon sessions stressing hands-on activities and explorations emphasizing computer/graphing calculator technology, computer software packages will include Fathom, as well as extensive use of the TI-83/84 graphing calculator as well as the TI-Nspire.

This workshop will provide the first year AP teacher with all the materials necessary to successfully start an AP Statistics class, as well as offer the experienced AP teacher different and innovative approaches to presenting the traditional statistics topics using the latest computer and graphing calculator technology. All participants will receive copies of a variety of different AP Statistics textbooks. Participants are asked to bring their favorite textbook and a couple of their favorite projects/activities to share.

Consultant Bio
Dennis Williams has taught mathematics for the past thirty years in Colorado and New Mexico. For the last twenty-seven years he has taught with the Farmington School District, located in the Four Corners region of northwestern New Mexico. He was the Mathematics Department Chair at Piedra Vista High School in Farmington the last fifteen years teaching AP Statistics, AP Calculus AB and BC up until his retirement in June 2013. Currently he is a consultant with the College Board and the National Math and Science Initiative mentoring AP Statistics teachers.

Mr. Williams has been involved with the College Board since the conception of AP Statistics course in 1997 and has taught AP Statistics Summer Institutes (new and experienced teachers) for the last fifteen years. He has also taught/presented various 1 and 2-day conferences emphasizing AP Statistics, AP Calculus AB/BC, Vertical Team Building, Problem Solving in Mathematics and Pre-AP Mathematics Middle/High School throughout New Mexico and the southwestern region for the last fifteen years. Please read his entire bio on our website!