

September 27, 2003

Colorado-Wyoming Chapter

Previous

Up

Next

Saturday, September 27, 2003
Long's Peak Room - Lory Student Center
Colorado State University
9am

The fall meeting of the Colorado-Wyoming Chapter of ASA will be held on Saturday, September 27, 2003 in the Long's Peak Room at the Lory Student Center on the campus of Colorado State University in Fort Collins. The meeting will focus on statistics in industry. The keynote talk will be presented by **Terry Callanan, Eastman Kodak Company**

9:00-9:30	Registration & Social Time
9:30-10:00	<p>"Load Research: Applied Statistics for Understanding Energy Use" <i>Craig Williamson, Research Director</i> <i>Energy Use, Primen</i></p> <p>Abstract: Utility companies need to understand not only how much energy their customers use, but when during the day they use energy. Getting this information is very expensive, and load research is the practice of using statistical sampling to estimate customer group loads by hour of the day. I'll talk about sampling and analysis for load research, and cover other areas of statistical application at energy companies.</p>
10:00-10:30	<p>"Statistics at the US Geological Survey" <i>Dennis Helsel, Research Geologist</i> <i>Crustal Imaging and Characterization Team</i> <i>U.S. Geological Survey</i></p> <p>Statistical methods are used in a variety of ways at the Department of Interior's natural resources agency, the U. S. Geological Survey. Within the four broad disciplines of the USGS, Geology, Water, Biology and Mapping, statistical methods are used to estimate probabilities of extreme events (flooding, earthquakes, landslides), to model and forecast conditions of concern (wildlife disease, degraded water quality), and to set the design of field experiments. A quick tour of the ways that statistics contribute to work at the USGS, including the author's use of survival analysis methods as applied to investigations of water quality, will be presented.</p>
10:30-10:45	BREAK
10:45-11:15	<p>"The Statistician and Industry: Tools, Techniques and Guidelines for the Industrial Statistician" <i>Tony Gojanovic, Quality, Environmental, Health and Safety Manager</i> <i>Metal Container Division, End Manufacturing, Coors Brewing Company</i></p> <p>Abstract: This talk will present an overview of statistical practice within the context of industry. Specifically, some basic "rules of thumb" on how to be an effective statistician in industry, statistical tools that are useful in industry, and examples of some very simple statistical techniques that have dramatic business impacts. The subject should be interesting to students as well as people who have been working in industry for some period of time.</p>
11:15-11:45	<p>"Statistics in Manufacturing: Theory Meets Production" <i>Jack Powers, Manager</i> <i>Chemistry Laboratory, Ball Corporation</i></p> <p>Abstract: The purpose of this talk is to give students and others insights into the application of statistics and the duties of statisticians in a manufacturing operation. Statistical process control (SPC) is a major undertaking with the capacity to manufacture 35 billion</p>

	cans per year. The application of SPC is not always straightforward and statisticians have to find ways to balance customer mandates, production requirements, and the limitations of software while still providing meaningful statistical analysis to the manufacturing arm. The research, development and engineering divisions of the corporation are supported through DOE, sample size calculations and gauge studies.
11:45-1:00	LUNCH BREAK
1:00-1:30	<p>"Six Sigma and Seagate: How robust statistical approaches help us build better disc drives" Craig Miller Seagate LLC</p> <p>Abstract: Designing quality hard disc drives (HDDs) that are also inexpensive and first to market is the challenge of the disc drive engineer. Six Sigma design practices have been implemented by Seagate's design and manufacturing communities to respond to these challenges. An overview of Six Sigma's most important contributions to the design process is presented, including examples of the improved statistical methodology.</p>
1:30-2:30	<p>"Six Sigma at Kodak (and the roles of Statistics and Statisticians)" Terry Callanan, Director Health Imaging Group, Six Sigma Team, Eastman Kodak Company</p> <p>Abstract: "Six Sigma Programs led by Green and Black Belt problem solvers have the potential to fundamentally improve our business, by freeing up resources to work on the most critical problems and by improving customer satisfaction. We use it widely in Manufacturing. Now is the time to take it more broadly across all of Kodak." These words were spoken by Dan Carp, Chairman and Chief Executive Officer of Eastman Kodak Company, in the fall of 2002. This presentation will define what is meant by Six Sigma, and describe the Kodak Six Sigma strategy. The results have been remarkable - over \$500M saved since 1997. Several examples will be shared. Leading our Six Sigma journey have been highly skilled practitioners called Green Belts and Black Belts. This talk will describe their roles and the training they receive. The Six Sigma journey presents statisticians the opportunity to be in these roles or to take advantage of other opportunities that are fundamentally different from traditional consulting roles.</p> <p>Bio: Terry Callanan is the Worldwide Six Sigma Director for the Health Imaging Business Unit of Eastman Kodak Company. He graduated from Colorado State University in 1979 with a B.S. in Statistics, and from Iowa State University in 1985 with a M.S. and Ph. D. in Statistics. During his 18 years at Kodak, Terry has also been certified as a Six Sigma Black Belt and is an adjunct instructor in the company's Six Sigma training programs. Terry has driven business results at Kodak through the application of statistics and quality methods in research and development, manufacturing, and business processes. His areas of expertise include design of experiments, robust design, statistical tolerancing, and variance component estimation.</p>
2:30	Meeting Concludes

Coffee, bagels and registration are at 9am, with talks beginning at 9:30. With lunch and coffee breaks, the meeting is expected to conclude between 3 and 4 pm.

Fall Meeting prices: Students \$5 and Others \$10

A map to the CSU campus http://www.map.colostate.edu/loc_main.html

A map to the Lory Student Center on the CSU campus http://www.map.colostate.edu/fullmap_main.html

A room map of the Lory Student Center <http://www.sc.colostate.edu/maps.asp?Level=upper>