

## Iowa Statewide Airport Pavement Management System



The Iowa Department of Transportation (DOT) Office of Aviation has been consistently proactive in the management of the pavements at Iowa airports. In the early 1990s, the Office of Aviation implemented an airport pavement management system (APMS) for the general aviation airports in Iowa. Ms. Zimmerman, now the President of Applied Pavement Technology, Inc. (APTech), was the project manager on this initial implementation.

In 1997, the Office of Aviation became APTech's first state airport pavement management client. During that project, APTech performed a records review, a network definition, pavement condition index (PCI) inspections, data analysis, preparation of annual maintenance plans and multi-year prioritized capital improvement programs, a geographic information system map link, and report generation in addition to establishing a MicroPAVER database. APTech provided training to forty-four maintenance and engineering staff members of the commercial airports and Iowa DOT staff on the PCI procedure and trained more than twenty-four attendees on the use of the MicroPAVER software so that the air carrier airports could continue pavement efforts on their own.

One unique aspect of this project is that the Office of Aviation shares many of the project activities with APTech. The Office of Aviation performs the records review and has often assisted during the PCI inspections. This involvement provides the Office of Aviation with reduced costs and excellent training on the pavement management process.

In 2002, APTech was selected to update the general aviation portion of the Iowa APMS on an annual basis. As part of this project, APTech evaluated approximately twenty-five airports each year, developed long range maintenance and rehabilitation plans for preserving the pavement infrastructure, and prepared individual airport pavement management reports and a statewide airport management report. From 2006 to 2008, APTech completed another update of the system, and was selected to complete the next update from 2009 to 2011.