



## **Genevieve E. Long, P.E., LEED AP**

### **Program Director**

### **Education**

M.S., Civil Engineering,  
University of Illinois, 2003

B.S., Civil Engineering,  
University of Illinois, 2002

### **Professional Registration**

Professional Engineer, Illinois,  
2006; also New York

Leadership in Energy &  
Environmental Design (LEED)  
Accredited Professional,  
United States Green  
Building Council, 2009

### **INTRODUCTION**

Ms. Long is the Program Director for the Commercial Airport and Department of Defense Program at Applied Pavement Technology, Inc. (APTech). She has 16 years of experience in pavement engineering, and is involved with pavement evaluation, pavement design, pavement management, training, and research projects.

Ms. Long has served as Project Manager for airport pavement management programs (PMPs) and across North America, with many of the projects including a structural analysis component in addition to the typical tasks of performing Pavement Condition Index (PCI) inspections, PAVER database updates, geographic information system (GIS) integration, and developing maintenance and rehabilitation (M&R) recommendations.

Ms. Long's pavement evaluation and design experience includes analyzing falling weight deflectometer (FWD) deflection data, calculating Pavement Classification Numbers (PCNs), developing pavement design alternatives, conducting life-cycle analyses (LCCAs), and training clients in these various pavement management, evaluation, and design items. She is considered an expert on the use of PAVER and has served as an advanced beta tester for PAVER 7 software. She is also an experienced user of Federal Aviation Administration (FAA) pavement design and structural capacity analysis software including FAARFIELD and COMFAA. She has served as an instructor for the Airport Consultants Council (ACC) 2.5-day *Airport Pavement Design, Evaluation, and Analysis* workshop, and has also presented on the Pavement Classification Number—Aircraft Classification Number (PCN-ACN) airfield pavement strength reporting method at several conferences throughout the country.

### **REPRESENTATIVE EXPERIENCE**

- Project Manager for Charlotte Douglas International Airport (North Carolina) Apron PMP Implementation, including approximately 15 million square feet of apron pavement. Oversaw APTech's work, which included reviewing pavement records, defining the pavement network, developing the PAVER pavement management database, performing FWD testing as associated analysis, developing a detailed coring plan, performing PCI inspections, calculating PCNs and structural remaining life, determining M&R needs and a recommended capital improvement plan (CIP), and documenting the results in a detailed project report.
- Project Manager for the American Samoa PMP Implementation, as a subcontractor to PPG Consultants, Ltd. Overseeing APTech's work, which includes reviewing relevant pavement records, defining the pavement network, developing the PAVER pavement management

database, performing PCI inspections, calculating PCNs, providing M&R recommendations, and documenting the results in a project report.

- Project Manager for the 2019 Eastern Iowa Airport (Iowa) PMP Update, as a subcontractor to Foth Infrastructure and Environment, LLC. Overseeing all aspects of the project, including incorporating pavement shoulders into the PMP, updating the PAVER database, updating maps, conducting PCI inspections, determining PCNs, and developing M&R recommendations. Served as Project Manager for the 2011 update.
- Project Manager for the 2018 to 2019 Columbus Regional Airport Authority (Ohio) PMP Update, which includes John Glenn Columbus International, Rickenbacker International, and Bolton Field Airports. Oversaw all aspects of the project, which included conducting PCI inspections, conducting automated data collection for the roads at John Glenn Columbus International, updating the PAVER database, developing M&R recommendations, providing training in the PCI procedure and PAVER, calculating the PCN for a recently rehabilitated runway, and updating the reporting through simplification of traditional reports and incorporation of a web-hosted IDEA. Served as Lead Engineer on the previous 2009, 2006, and 2003 updates.
- Project Manager for the 2018 Des Moines International (Iowa) PMP Update, as a subcontractor to Foth Infrastructure and Environment, LLC. Oversaw all aspects of this project, which included reviewing pavement records, updating the PAVER database and maps, conducting PCI inspections, performing distress mapping on the runways, identifying M&R needs and associated recommendations, and preparing a project report. Also served as a Project Engineer for the 2006 update and as a Project Manager for the 2010 and 2014 updates. The 2010 project also included calculating PCNs for the runways and taxiways along with the terminal and cargo aprons.
- Project Manager for the Tyler Pounds Regional Airport (Texas) Runway PCN Assessment, as a subcontractor to KSA Engineers, Inc. Oversaw APTech's work, which included reviewing pavement records and traffic information, performing FWD testing and analysis, identifying core locations, completing PCN calculations, and documenting the results in a project report.
- Project Manager for the Dallas Love Field (Texas) Runway 13R-31L Pavement Design, as a subcontractor to HNTB Corporation. APTech reviewed available records, used the provided information to develop rehabilitation and reconstruction design alternatives, performed an LCCA to compare these alternatives, provided a detailed pavement design report, and determined the PCN for the selected pavement reconstruction design.
- Project Manager for the Indianapolis International Airport (Indiana) Runway 5R-23L and Taxiway D Rehabilitation, as a subcontractor to Kimley-Horn and Associates, Inc. Oversaw APTech's work, which included reviewing records, conducting FWD testing and associated data analysis, developing pavement designs, and documenting details in a project report. Also led a pavement design overview, providing training to Indianapolis Airport Authority staff and serving as a mentoring opportunity for teaming partners.
- Project Manager for the Spokane International Airport (Washington) Runway 7-25 and Taxiway C Improvements, as a subcontractor to RS&H, Inc. Oversaw APTech's work, which included performing a detailed evaluation of the existing shoulder pavement areas and providing design alternatives for pavement repair, improvements, rehabilitation, and reconstruction.
- Project Manager for the Kansas City International Airport (Missouri) Taxiway B Rehabilitation, as a subcontractor to HNTB Corporation. Oversaw a project-level pavement evaluation and structural analysis of Taxiway B to determine appropriate rehabilitation methods and reconstruction design alternatives. Reviewed construction records, conducted FWD testing, analyzed subgrade material properties, performed detailed distress mapping, developed rehabilitation and reconstruction design alternatives, performed an LCCA, prepared a project report, and determined the PCN for the selected pavement reconstruction design.