



## **Monty J. Wade, P.E.**

### **President**

### **Education**

M.S., Civil Engineering,  
University of Illinois, 1993

B.S., Civil Engineering,  
University of Illinois, 1991

### **Professional Registration**

Professional Engineer, Illinois, 1997; also Arizona, Florida, Hawaii, Iowa, Michigan, Mississippi, Missouri, New Jersey, New York, Ohio, South Carolina, Tennessee, Alberta (Canada), British Columbia (Canada), Manitoba (Canada), New Brunswick (Canada), Newfoundland Labrador (Canada), Northwest Territories and Nunavut (Canada), Nova Scotia (Canada), Ontario (Canada), and Saskatchewan (Canada)

### **INTRODUCTION**

Mr. Wade is the President of Applied Pavement Technology, Inc. (APTech). He has 26 years of pavement engineering experience and has worked on commercial airfields and military facilities across North America in the areas of pavement evaluation and design, pavement management, forensic investigations, pavement research, and technology transfer.

Mr. Wade has extensive experience in the evaluation and design of airport pavements for large commercial airports, reliever airports, general aviation airports, and military airfields. Some examples include the structural capacity evaluation and development of pavement rehabilitation designs in anticipation of the Airbus A-380 aircraft on the North Terminal Ramp at Houston George Bush Intercontinental Airport, the development of pavement design recommendations for the O'Hare Modernization Program, and the reconstruction design for Runway 5R-23L at Willow Run Airport. These projects typically involve detailed pavement investigations, falling weight deflectometer (FWD) testing, analysis of coring and boring samples, petrographic evaluation of core samples, and life-cycle cost analyses (LCCAs). Rehabilitation recommendations are developed in accordance with Federal Aviation Administration (FAA) standards, including the use of FAARFIELD to develop pavement designs and COMFAA to determine Pavement Classification Numbers (PCNs).

### **REPRESENTATIVE EXPERIENCE**

- Principal-In-Charge for the Indianapolis International Airport (Indiana) Runway 5R-23L and Taxiway D Rehabilitation, as a subcontractor to Kimley-Horn and Associates, Inc. APTech's work includes reviewing records, conducting FWD testing, and analyzing the collected data to determine subgrade and pavement layer material properties for the portland cement concrete (PCC) and underlying base and subgrade layers. APTech is also assisting with identifying supplemental core locations based on FWD data interpretation and using this information to determine pavement rehabilitation and design recommendations.
- Principal-In-Charge for the Dallas/Fort Worth International Airport (Texas) Runway 17C-35C and Taxiway M Rehabilitation, as a subcontractor to CH2M. APTech's work includes creating distress maps, performing PCI inspections, conducting FWD testing, and developing rehabilitation design alternatives.
- Project Manager for the Charlotte Douglas International Airport (North Carolina) Runway 18L-36R Evaluation and Design, as a subcontractor to Delta Airport Consultants, Inc. Oversaw all aspects of APTech's work, which included performing FWD testing and analysis and developing pavement-related plans and material specifications.

- Project Manager for the Los Angeles International Airport (California) Runway 7R-25L Design Services, as a subcontractor to T.Y. Lin International. Oversaw all aspects of APTEch's work, including evaluating the condition of the runway pavement, mapping the pavement distresses, and determining the appropriate rehabilitation option for each pavement section. Provided rehabilitation or repair recommendations depending on the condition and anticipated long-term performance of the pavement. APTEch served on the Pavement Technical Committee responsible for providing guidance on the pavement components, including the selection of the design alternative, construction techniques, mix designs, and materials specifications
- Principal-In-Charge for the Myrtle Beach International Airport (South Carolina) Taxiway A and B Rehabilitation, as a subcontractor to Delta Airport Consultants, Inc. This project included conducting a pavement condition inspection, performing FWD testing, assisting a geotechnical investigation, and analyzing the data to determine the appropriate rehabilitation recommendations.
- Principal-In-Charge for the Spokane International Airport (Washington) Runway 7-25 and Taxiway C Improvements, as a subcontractor to RS&H, Inc. This project included performing a detailed evaluation of the existing shoulder pavement areas, developing M&R recommendations, and providing design alternatives for pavement repair, improvements, rehabilitation, and reconstruction.
- Principal-In-Charge for the Detroit Metropolitan Wayne County Airport (Michigan) Construct Taxiway B, as a subcontractor to C&S Engineers, Inc. Provided project oversight and review for APTEch's portion of the work, which included developing portland cement concrete (PCC) pavement designs in accordance with FAA standards.
- Project Manager for the Detroit Metropolitan Airport (Michigan) Pavement Condition Indexing Services, as a subcontractor to C&S Engineers, Inc. Overseeing all aspects of APTEch's work, which includes reviewing records, conducting PCI inspections, conducting FWD testing, calculating PCNs on all runways, and developing a pavement management plan, and creating an Interactive Data Exchange Application (IDEA) to display the project results in an easy-to-access format.
- Project Manager for the 2019 Phoenix Sky Harbor International Airport (Arizona) Airside Pavement Assessment. Overseeing all aspects of the project, which includes reviewing records, conducting PCI inspections, performing FWD testing, calculating PCNs, updating the PAVER database, developing M&R recommendations, developing APMS reports, and developing a web-based IDEA. Also served as the Project Manager for the 2013 and 2016 assessments.
- Project Manager for the Los Angeles World Airports (California) APMS Update, including Los Angeles International Airport and Van Nuys Airport, as a subcontractor to Burns & McDonnell Engineering Company, Inc.
- Project Manager for the On-Call Pavement Management Services for the Port Authority of New York and New Jersey.

#### PROFESSIONAL AFFILIATIONS

- Member and Past Chair, Airport Consultants Council (ACC), Engineering Committee
- Member, American Society of Civil Engineers
- Chair, ACC Summer Workshop Series, July 2012