

## A Once in a Lifetime Project Every 10 Years

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Adjunct Lecturer

University of Illinois, Urbana-Champaign

**Thursday, March 5, 2020**

12:00 to 1:15 PM US Arizona

College Avenue Commons, Room 559 ([map](#))



### About the Speaker

Mr. Greer, P.E., F.ASCE holds BS(71) and MS(73) in Civil Engineering from the University of Illinois. He is a registered engineer in Georgia and Florida. During his 41-year career with Law Engineering, MACTEC E&C, and AMEC E&I he worked on a broad range of projects around the world. He served as Director of Engineering for Law and MACTEC and Director of QA for MACTEC and AMEC. Since 2016, as an Adjunct Lecturer at the U of I, he has taught “Case Histories in Infrastructure Engineering”. He served on the Civil Engineering Advisory Board for the combined engineering school for Florida State University and Florida A&M University. He taught the inaugural course entitled “Maintenance Management of Built Assets” for the Master’s Program in Facilities Management at Georgia Tech in Atlanta, Georgia.

His awards include the C. C. Wiley Award at the U of I, Engineer of the Year in Georgia by GSPE (1987), and Honorary Member of the International Society for Concrete Pavements (2014). He received ASCE’s Robert Horonjeff Award (2016) for his contributions to aviation engineering. He is a member of the American Concrete Institute and Transportation Research Board where he serves on several technical committees. He is an Emeritus Member of ASCE’s Airfield Pavement Committee. He has been involved with construction and management issues for numerous engineering projects around the world including places such as Hong Kong, Shanghai, Barbados, Costa Rica, Cayman Islands, Canada, Turks and Caicos Islands, and Haiti.

### About the Talk

Three interesting Once in a Lifetime Projects will be presented. The projects are: Move of Two Nuclear Reactor Pressure Vessels (RPV), 40 Years of Projects at the Hartsfield-Jackson Atlanta International Airport (ATL), and the Relocation of the Cape Hatteras Light Station. The move of the two RPVs involved transporting the RPVs across 46 miles of state, county, and private roadway for the Phipps Bend Nuclear Plant in Northeast Tennessee. Each RPV (1050 tons) was supported on a trailer assembly with 24 axle lines and 384 tires. The combined vehicle weight was 1500 tons. The ATL (the world’s busiest airport in terms of passengers) projects include the Pavement Management System (PMS) considered one of the most comprehensive in the world. This program resulted in the useful life extension of the two take-off runways by more than 20 years. The estimated savings was more than \$100 million in capital cost. The Relocation of the Cape Hatteras Light Station involved the successful move of the 200-foot tall lighthouse structure (5000 tons) across 2900 feet of loose dune sand. The lighthouse was supported on one hundred 100-ton hydraulic jacks that rode on 100 industrial rollers. This project received ASCE’s OCEAA for 2000.

This seminar is webcast live to a worldwide audience by ASU Engineering – Global Outreach and Extended Education (GOEE). To access the live webcast and archive of previous seminar recordings, please visit:

<http://links.asu.edu/ASU-Transportation-Seminar>

Light refreshments will be served. Event is open to the public.