

Dr. R. Buzz Powell, P.E.

Assistant Director & Test Track Manager
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Professional Experience

- Assistant Director, National Center for Asphalt Technology, Auburn University, Alabama, October 2007 – Present
- Test Track Manager, National Center for Asphalt Technology, Auburn University, Alabama, September 1999 – October 2007
- Principal Engineer, REGIS Engineering Solutions, Inc., Montgomery, Alabama, September 1997 – September 1999
- Assistant Testing Engineer, Alabama Department of Transportation, Montgomery, Alabama, July 1996 – September 1997
- Research Engineer, Alabama Department of Transportation, Montgomery, Alabama, August 1993 – July 1996
- Geotechnical Engineer, Alabama Department of Transportation, Montgomery, Alabama, March 1990 - August 1993
- Pavement Management Engineer Trainee, Alabama Department of Transportation, Montgomery, Alabama, September 1987 - March 1990
- Pavement Parameters Technician, Alabama Department of Transportation, Montgomery, Alabama, May 1986 - September 1987
- Laborer (Highway Construction and Research), Alabama Department of Transportation, Montgomery, Alabama, January 1986 - May 1986

Education

- Ph.D. (Civil Engineering), Auburn University, 2006
- MSCE, Auburn University, 1996
- BCE, Auburn University, 1990

Professional Development Courses

- AASHTO Management Course, Corpus Christi, Texas, 1994
- NHI Instructor Course, Auburn, Alabama, 2007

Professional Registration

- Registered Professional Engineer, State of Alabama, #20126

Honors and Awards

- McCartney Construction Company Scholarship, 1989 - 1990
- Chi Epsilon, National Civil Engineering Honor Society, 1989

- Tau Beta Pi, National Engineering Honor Society, 1989
- Eisenhower Undergraduate Research Fellowship, 1989
- Phi Kappa Phi, National All-Discipline Honor Society, 1990
- Eisenhower Graduate Research Fellowship, 1994

Professional Associations

- Transportation Research Board, Chair of AFD40(2) APT International Alliance Subcommittee

Refereed Publications

Installation and Performance of a Fiberglass Geogrid Interlayer on the NCAT Pavement Test Track, R. Buzz Powell, 6th RILEM International Conference on Cracking in Pavements, Compendium of Papers CD-ROM and Proceedings Volume, June 2008.

Modeling Rutting Performance on the NCAT Pavement Test Track, R. Buzz Powell, TRB 87th Annual Meeting, Compendium of Papers CD-ROM, January 2008.

Laboratory Performance Testing for the NCAT Pavement Test Track, R. Buzz Powell, TRB 82th Annual Meeting, Compendium of Papers CD-ROM, January 2003.

MMLS3 Testing at the NCAT Test Track, Andre' de Fortier Smit, Fred Hugo, Dale Rand, and Buzz Powell, TRB 82th Annual Meeting, Compendium of Papers CD-ROM, 2003.

Field Performance Testing on the NCAT Pavement Test Track, R. Buzz Powell, International Conference on Highway Pavement Data, Analysis and Mechanistic Design Applications, 2003.

Representative Sampling for Construction Quality Control at the 2000 NCAT Pavement Test Track, R. Buzz Powell, , TRB 82th Annual Meeting, Compendium of Papers CD-ROM, 2003.

A General Overview of Research Efforts at the NCAT Pavement Test Track, E. Ray Brown and R. Buzz Powell, International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control, 2001.

The Effect of Style on Memory and Comprehension: Results of An Exploratory Research, Technical Writing Class Project, Southeast Regional Meeting of the Association of Business Communication, 1987.

Technical Reports

Predicting Field Performance on the NCAT Pavement Test Track, R. Buzz Powell, Dissertation, Auburn University, 2006.

Phase II NCAT Test Track Results, David Timm, Randy West, Angela Priest, Buzz Powell, Immanuel Selvaraj, Jingna Zhang, and Ray Brown, NCAT Report 2006.

NCAT Test Track Findings, E. Ray Brown, Buzz Powell, Randy West, and David Timm, NCAT Report 06-05, 2005.

Construction of the 2003 NCAT Pavement Test Track, R. Buzz Powell and E. Ray Brown, NCAT Report, 2004.

NCAT Test Track Design, Construction and Performance, E. Ray Brown, L. Allen Cooley, Doug Hanson, Cynthia Lynn, Buzz Powell, Brian Prowell, Don Watson, NCAT Report 02-12, 2002.

As-Built Properties of Experimental Sections on the 2000 NCAT Pavement Test Track, R. Buzz Powell, NCAT Report 01-02, 2001.

Instrumentation at the National Center for Asphalt Technology Test Track, Reed Freeman, H. Tommy Carr, Tom McEwen, and R. Buzz Powell, US Army Corps of Engineers, ERDC TR-01-9, 2001.

Stone Matrix Asphalt Mix Design Using Common Alabama Aggregates, Masters Thesis, Auburn University, 1996.

A Study of Moisture Absorption Characteristics of Chert River Gravel Aggregate in Hot Mix Asphalt, Larry Lockett and R. Buzz Powell, Alabama Department of Transportation, 1994.