

MATERIALS AND CONSTRUCTION

Arizona Department of Transportation Research Center

ADOT

For most contemporary travelers, rough, dusty roads and washed-out bridges are a thing of the past. Modern pavement materials and construction methods ensure a comfortable and reliable ride throughout Arizona's state highway system. Research conducted within the **materials and construction emphasis area** contributes to enhanced products and methods in the field. Topics include improved pavement materials and management systems, noise analysis, geotechnical applications, construction techniques, and the administration of construction projects.

Representative Projects

SPR 524: Development of Mix Design Procedures for Gap Graded ARAC. A formal documentation of the mix design procedure used by the ADOT for Asphalt Rubber Asphaltic Concrete (ARAC) mixtures; the procedure has since been included in the ADOT Materials Testing Manual as ARIZ 832. *Published.*

SPR 396: Long Term Pavement Performance. An evaluation of pavement test sections for various types of stress, which includes the individual analysis of nearly 20 years of data gathered statewide. *Publication pending.*

SPR 577: Pavement Noise Study. A ten-year study to examine the noise reduction properties of Asphalt Rubberized Friction Course, and to determine recommendations for the future use of ARFC as a noise mitigation strategy. *Publication pending.*



Project Manager

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Christ began his ADOT career in 1993, serving as an engineer with the Materials Group and Statewide Project Management, where he was the project manager for the design of State Route 85. He joined the Research Center in 2005. Prior to his tenure at ADOT, Christ spent six years with the US Marine Corps, with service in Desert Storm and Desert Shield.

