

NEWS



TRANSPORTATION RESEARCH BOARD

500 Fifth Street, NW
Washington, DC 20001

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News Release

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Contact: Russell Houston
(202) 334-3252
rhouston@nas.edu

PAPER EXPEDITED REPAIR OF SPALLS IN AIRFIELD PAVEMENTS WINS TRB'S K. B. WOODS AWARD

"Expedient Spall Repair Methods and Equipment for Airfield Pavements" earned the Transportation Research Board's (TRB's) K. B. Woods Award for its authors Michael Hammons of the Air Force Research Laboratory, Florida, and Athar Saeed of the Applied Research Associates. The award for the winning paper, which has been published in the *Transportation Research Record: Journal of the Transportation Research Board*, No. 2155, will be presented on January 24, 2011, at the Thomas B. Deen Distinguished Lecture and Presentation of Outstanding Paper Awards during the Board's 90th Annual Meeting. The K. B. Woods Award, given annually for the best paper in the area of design and construction of transportation facilities, honors the 19th Chairman of the Board's Executive Committee.

The award-winning paper explores the development and durability of various methods used to excavate and prepare a 2-ft² × 4-in. deep spall for placement of a repair material that sets in 15 minutes or less. According to the authors, various methods had significant improvements in production rate over the 30-lb jackhammer, the standard Department of Defense spall repair excavation method. The paper concludes that the most efficient method was a cold planer, which, on average, was approximately 58 percent more efficient than the jackhammer and was the only method to meet the primary objective of excavating and repairing a 2-ft² × 4-in. deep spall in no more than 15 minutes.

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Michael Hammons is a Senior Civil Engineer at the Airbase Technologies Division of the Air Force Research Laboratory. He began his career as a research engineer at the U.S. Army Engineer Research and Development Center in Mississippi for 17 years, followed by private-sector employment with Applied Research Associates, Inc. Hammons has 30 years of experience in execution and management of research and engineering projects relating to construction materials, asset management, pavement analysis, and pavement design. Since 2008, he has served as the technical lead for the Aircraft Operating Surfaces Group, where he has led research efforts in methods and materials for airfield damage repair and research projects related to pavement materials. Hammons holds a Ph.D. from Louisiana State University, an M.S. degree from Mississippi State University, and a B.S. degree from Louisiana Tech University, all in civil engineering. He is a registered professional engineer in Mississippi and Florida.

Athar Saeed is a Principal Engineer at Applied Research Associates, Inc., where he leads the Pavements Research Group of the Engineering Science Division. His research interests include advanced and conventional pavement materials, maintenance and construction techniques and equipment, pavement performance modeling, structural and geometric design, and software development. Saeed is experienced in recycled and virgin construction materials, life-cycle cost analyses, development and implementation of structural design procedures and software, and analysis of pavement performance data. He has served as the principal investigator, co-principal investigator, and research engineer of a number of research projects.

Saeed holds a B.S. degree from the University of Engineering and Technology, Pakistan, and M.S. and doctoral degrees from The University of Texas at Austin—all in civil engineering. He is active in TRB and a member of several professional organizations, including the American Society of Civil Engineers and Institute of Transportation Engineers. Saeed is a registered Professional Engineer in Mississippi.

More than 10,000 policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions are expected to attend the Transportation Research Board (TRB) 90th Annual Meeting, in Washington, DC, January 23-27, 2011. The meeting, held at the Marriott Wardman Park, Omni Shoreham, and Hilton Washington hotels, includes more than 4,000 presentations in 650 sessions and workshops covering all aspects of transportation.

The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. TRB facilitates the sharing of information on transportation practice and policy by researchers and practitioners; stimulates research and offers research management services that promote technical excellence; provides expert advice on transportation policy and programs; and disseminates research results broadly and encourages their implementation. A major focal point of TRB's activities, the Annual Meeting provides an opportunity for transportation professionals from all over the world to exchange information of common interest.

Organized in 1920, TRB is a division of the National Academies, which include the National Academy of Sciences, National Academy of Engineering, Institute of Medicine, and National Research Council. The nation turns to the National Academies for independent, objective advice on issues that affect people's lives worldwide.

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