



4th ICTG Workshop on Airfield Pavement Design and Rehabilitation

Program

Workshop on Airfield Pavement Design and Rehabilitation

8:00-8:15	Introductions and Workshop Overview	(TINGLE)
8:15-8:30	General Concepts in Airfield Pavement Design and Rehabilitation	(GONZALEZ)
8:30-8:45	FAA Airfield Pavement Design Software FAARFIELD	(GARG)
8:45-9:45	FAA Flexible Pavement Design	(GARG)
9:45-10:00	Break	
10:00-11:00	FAA Rigid Pavement Design	(BRILL)
11:00-11:45	FAA Rehabilitation Strategies	(BRILL)
11:45-12:00	ACR/PCR Concept	(BRILL)
12:00-13:00	Lunch	
13:00 – 14:00	DOD Flexible Pavement Design	(GONZALEZ)
14:00 – 14:10	Break	
14:10-15:30	DOD Rigid Pavement Design	(STACHE)
15:30 – 16:15	DOD Rehabilitation Strategies	(GONZALEZ)
16:15 – 16:30	Closing Remarks QA and Discussions (15 minutes)	



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Dr. David R. Brill is Program Manager for Airport Pavement Technology in the FAA Airport Technology R&D Branch, located at the William J. Hughes Technical Center, Atlantic City International Airport, NJ. Since joining the FAA in 1999, Dr. Brill has worked on developing and implementing advanced airport pavement design procedures, including the FAARFIELD program, and most recently, the ACR-PCR method. He is the author of numerous technical papers and reports on airport pavement technology, on subjects including full-scale testing of airport pavement structures and the application of 3D finite element modeling methods to airport pavement design. Dr. Brill is a graduate in civil and urban engineering of the University of Pennsylvania and holds a doctorate in civil engineering from Rutgers University. He is a licensed professional engineer in the states of New Jersey and Pennsylvania. Dr. Brill is a member of the ASCE Airfield Pavement Committee and the TRB standing committee on Aircraft / Airport Compatibility (AV070).



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Dr. Navneet Garg is a Program Manager in Airport Technology R&D Branch at the FAA's William J. Hughes Technical Center in Atlantic City, New Jersey, and manages projects on Field Instrumentation and Testing, Full-Scale Accelerated Pavement Testing, and Pavement Materials. He earned his Ph.D. from the University of Illinois at Urbana-Champaign in 1997, M.S. from the Illinois Institute of Technology, Chicago in 1993, B.E. from National Institute of Technology Suratkal, India in 1990, all in Civil Engineering. He has been actively involved in airport pavement research at the FAA's National Airport Pavement Test Facility since 1998, and has authored several FAA technical reports, and research papers for various journals and conference proceedings. He has taught in airport pavement design and evaluation workshops for International Civil Aviation Organization, Asphalt Institute, Airport Consultants Council, and other international organizations. He is the current Chair of ASCE Airfield Pavement Committee, on Board of Directors of International Society for Asphalt Pavements (ISAP), Vice Chair of ISAP's Technical Committee on Pavement Field Evaluation, and member of the TRB Committees on Geotechnical Instrumentation & Modelling (AKG60), and Aggregates (AKM80). He is an Associate Editor of International Journal of Pavement Engineering.



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Mr. Jeb S. Tingle is a Senior Scientific Technical Manager and Program Manager in the Geotechnical and Structures Laboratory at the U.S. Army Engineer Research and Development Center in Vicksburg, Mississippi. Mr. Tingle routinely leads large multi-disciplinary teams to solve complex engineering problems. Mr. Tingle has 25 years of experience focused upon transportation research and development with an emphasis on full-scale pavement construction and testing. His individual areas of expertise include soil stabilization, aggregate roads, pavement design, pavement construction, and pavement evaluation. Mr. Tingle is the primary author or co-author of more than 150 technical papers and ERDC/WES reports that encompass such topics as soil mechanics; geosynthetics; soil stabilization; pavement evaluation, pavement design, dust abatement, and airfield damage repair. Mr. Tingle is a past Chair of ASCE's Airfield Pavement Committee and a current member of TRB's Committee on Mechanics and Drainage of Saturated and Unsaturated Geomaterials (AKG40). Mr. Tingle received his Bachelor's and Master's Degrees in Civil Engineering from Mississippi State University, and he is a licensed Professional Engineer in the state of Mississippi.



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Dr. Jeremiah Stache is a Research Civil Engineer in the Airfields and Pavement Branch at the U.S. Army Engineer Research and Development Center in Vicksburg, MS. He received a B.S. in Civil Engineering from the U.S. Military Academy in West Point, NY; M.S. in Civil Engineering from the University of Tennessee in Knoxville, TN; M.S. in Geological Engineering from Missouri University of Science and Technology in Rolla, MO; and a Ph.D. in Civil Engineering from Mississippi State University in Starkville, MS. He is a registered Professional Engineer in the state of Tennessee. His research interests include computational geomechanics using the finite element method, layered elastic and visco-elastic analysis of conventional and contingency pavement structures, and numerical modeling of dynamic aircraft response. Dr. Stache is a member of the ASCE Unsaturated Soils Committee and an associate member of the ASCE Airfield Pavement Committee.



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Dr. Carlos R. Gonzalez is a Research Civil Engineer in the Airfields and Pavement Branch at the U.S. Army Engineer Research and Development Center in Vicksburg, MS. He earned his Ph.D. from the University of Illinois at Urbana-Champaign in 2015, M.E. from the University of Puerto Rico, Mayaguez in 1989, and a B.S. from the University of Puerto Rico, Mayaguez in 1983. His primary areas of research include pavement analytical and numerical methods, development of pavement performance criteria, assessment of aircraft runway roughness, and development and integration of pavement analysis, data integration, pavement design, and evaluation into U.S. Department of Defense (DOD) Pavement-Transportation Computer Assisted Engineering software (PCASE). He has served as technical instructor for multiple PCASE Workshops conducted around the world. He serves as one of DOD's subject matter experts in an information exchange on pavement design and evaluation. Dr. Gonzalez is also a registered Professional Engineer in the state of Mississippi.