

# Research Foundation — On the Move

Kenneth G. Wentink, PE CPD, ASPERF President



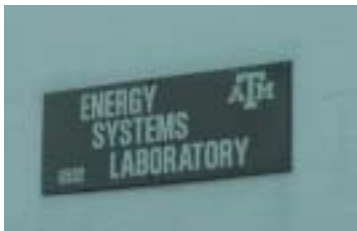
## Drain Line Carry Research Project Under Way

The long awaited “Drainline Carry Research” project is finally under way. After two years of fund raising, writing and issuing an RFP, receiving proposals, and contract negotiations, the actual research has begun.

Dr. John Bryant, Assistant Professor in the Department of Construction Science, Texas A&M University, is leading the research team in this two-year effort. The laboratory site for the project will be located in the Energy Systems Laboratory building at the University’s Research Park, which is located on a former Air Force Base a few miles from the main campus.

The ASPE Research Foundation (ASPERF) Board of Directors recently met with Dr. Bryant at his offices on campus to finalize the specifics of the research and then toured the site established for the research to be conducted. The first \$50,000 has been set aside and the first graduate assistant reported to work on August 19, 2002. The first assignment is to begin the assembly of the test platform under Dr. Bryant’s guidance. The platform will be constructed to be able to

use more than 100 water closet models, four at a time, with four (4) different piping configurations each — 3”



Energy Systems Laboratory: Site of test lab



Inside the Energy Laboratory area



From Left: Ken Wentink, RF President; Dr. John Bryant, Texas A&M University; David Chin, ASPE President

drain pipe at 1/8” per foot slope, 3” drain pipe at 1/4” per foot slope, 4” drain pipe at 1/8” per foot slope, and 4” drain pipe at 1/4” per foot slope. Each configuration will be tested with and without a vent connection over a total straight-line distance of 100 to 120 feet.

The purpose of the project will be to determine the effects of waste discharge travel distance in the various drainline configurations using the different discharge cures produced by the numerous types and styles of the ULF Water Closets. The tests will be conducted with and without solids to determine the discharge characteristics in the drainlines downstream of the water closets. It must be reiterated that the purpose is not to test individual water closets by manufacturer and model number. The various water closets are only being used to establish the discharge curves to allow the grouping of fixture types based upon the drainline performance.

The project results will provide data that plumbing engineers and designers can utilize for the proper design of the building drainage systems for the various types and styles of 1.6 gpf water closets. For more information, please contact the ASPE Research Foundation at 773/693-2773. ●



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