

Keynote Lecture – William L. BUFORD

William L. BUFORD, Ph.D., PE

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Bill Buford has been on the faculty at the University of Texas Medical Branch (UTMB) at Galveston since 1991. He is now Professor and Director of Research for the Department of Orthopaedic Surgery and Rehabilitation. He also holds an appointment as Professor in the Rehabilitation Science PhD curriculum for the UTMB Graduate School of Biomedical Sciences. His PhD is in Engineering Science and he is a Registered Professional Engineer. He served in the US Public Health Service as a Biomedical Engineer and Research Scientist from 1976 to 1991 at the National Hansen’s Disease Center, Carville, LA. He completed his service there as Director of the Paul W. Brand Biomechanics Lab. Bills research interests includes musculoskeletal biomechanics and computer simulation of the same. Laboratory studies have concentrated on muscle moment arms at joints, joint muscle balance, joint kinematics, muscle path modeling, validation of models implicit in interactive, real-time, 3D simulation of musculoskeletal kinematics, and educational and clinical applications of such simulation. His research has always been clinically directed and is typified by interdisciplinary research with collaborators in numerous fields.



ISB2011
Keynote Title

Musculoskeletal kinematics and interactive modeling: simulation, prediction and validation within question-driven research

Scheduled
on

Keynote Lecture (time: Wednesday 6th, 13:45)