THE REESE T. PROSSER MATHEMATICS LECTURE SERIES presents

The Modern Mathematics of Motion Capture -





Tuesday, October 11, 2005 – 7:00PM

Silsby Hall, Auditorium 028 – Dartmouth College

(Free & open to the public)



Professor Chris Bregler Movement Group Courant Institute of Mathematical Sciences New York University







Muybridge, Disney, Laban, and thousands of people bouncing balls on the computer or movie screen in front of you. What is the common trait among these seemingly different topics? All of the above are examples illustrating some of the latest advances in motion capture, a key technology in modern animation. This talk will provide a survey of current research on the motion capture of humans, animals and cartoons. In particular, the discussion will focus on the underlying mathematical techniques that enable subtle variations of motion shapes and motion styles in animation.

The Reese Prosser Memorial Lectures were inaugurated in 2002 by the Department of Mathematics at Dartmouth College to honor their long time colleague Reese Prosser. This lecture series, endowed by Nancy Prosser and her family, is intended to introduce the general public to mathematical research related to their daily lives.