

PHYSICS COLLOQUIUM
THURSDAY, APRIL 13, 2017, 2:00 PM
YATES HALL 102



http://www.aceshowbiz.com/celebrity/usain_bolt/picture.html



<http://baseballissue.com/reasons-why-you-should-play-baseball/>

Sport Science: Models and Applications

Blane Baker
Professor of Physics
William Jewell College

Given the quantitative nature of sport in the 21st century, developing models and conducting analyses of athletic feats using principles of physics can contribute greatly to providing comparisons of athletes and to improving athletic performance. This presentation will address questions such as (i) What makes Usain Bolt the most outstanding sprinter in the world? (ii) How far can a baseball be hit under ordinary and extreme conditions? (iii) Can wind significantly affect world records? These questions and several others will be addressed using basic models and theories of physics. Limitations of models also are considered in the context of developing new models and methods of analysis.