



# *“Biomathematical Modeling:*

*How Mathematics Can Solve Some Practical Problems in Biology”*

*by* **James Keesling**

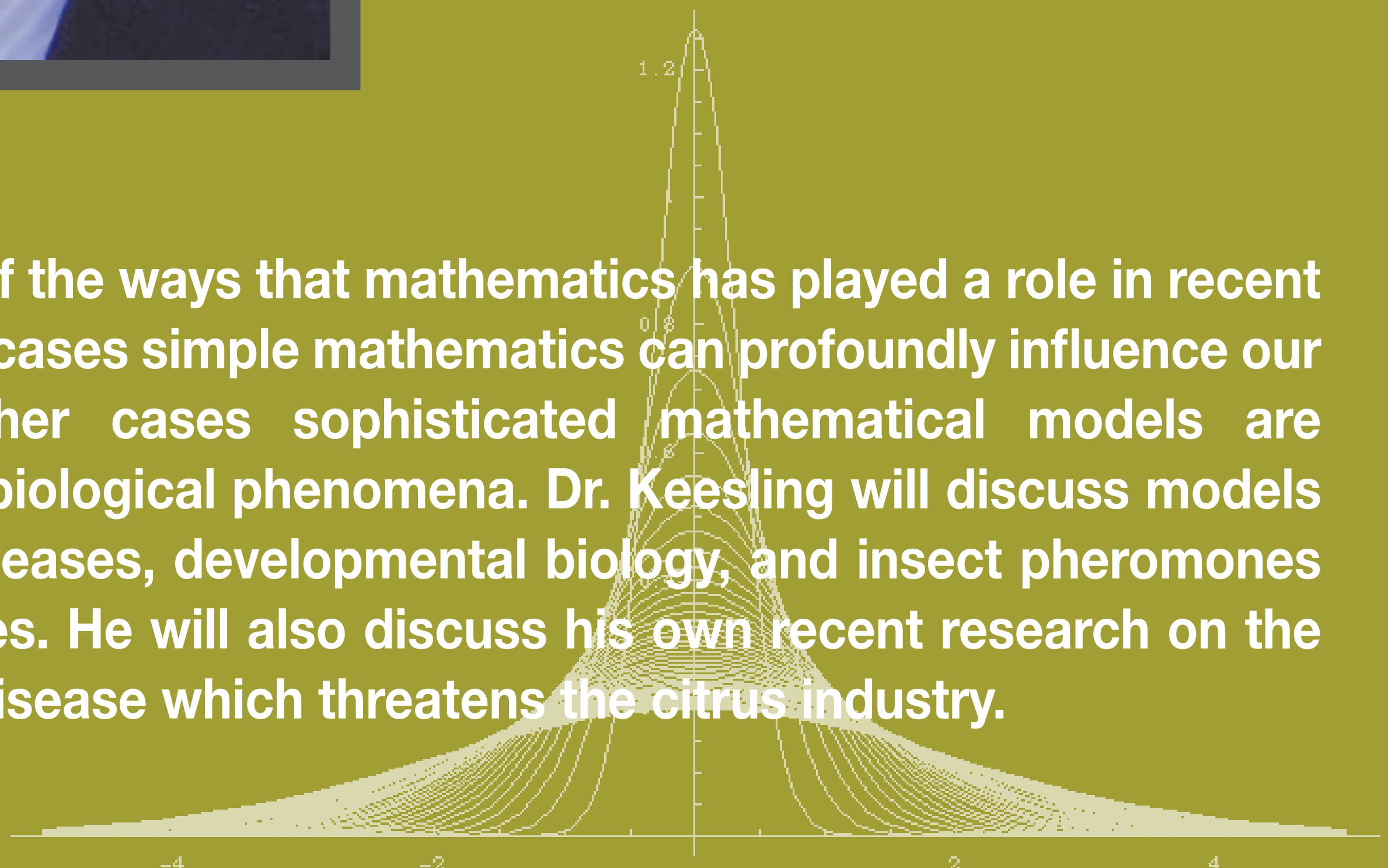
**4/8/2015**

## **James Keesling**

Dr. Keesling received his Ph.D. in Mathematics in 1968 from the University of Miami. He is a Professor at the University of Florida. Dr. Keesling’s research interests include topology, dynamical systems, biomathematics, stochastic processes, numerical analysis, operations research, and applied mathematics. He is the author of over 90 papers published in leading mathematical journals.



This lecture will show some of the ways that mathematics has played a role in recent advances in biology. In some cases simple mathematics can profoundly influence our understanding, while in other cases sophisticated mathematical models are necessary to explain certain biological phenomena. Dr. Keesling will discuss models in epidemiology, vectored diseases, developmental biology, and insect pheromones with many biological examples. He will also discuss his own recent research on the spread of citrus greening, a disease which threatens the citrus industry.



**Wednesday • April 8, 2015**

**3:20PM - 4:20PM** Public Lecture *“Biomathematical Modeling:  
How Mathematics Can Solve Some Practical Problems in Biology”*  
*by* **James Keesling**

*at* **The University of Texas at Brownsville Campus**

*Biomedical Research Building 1.222*



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