

The American Mathematical Society presents
**The AMS Einstein Public Lecture
in Mathematics**

Michael Waterman

Professor of Biological Sciences, Mathematics, and Computer Science;
University of Southern California




Reading DNA Sequences: 21st Century Technology with 18th Century Mathematics



Saturday, April 4, 2009

7:00 p.m.

**North Carolina State University
Nelson Auditorium (3400 Nelson Hall)**



With the discovery of the double helix in 1953, it became clear that determining DNA sequences was an important goal. The Sanger method was invented in 1975 and by 2001 refinements of that method allowed sequencing of the human genome. Today an exciting new generation of sequencing methods is rapidly increasing the speed of DNA sequencing. This lecture will consider the mathematical and computational challenges of sequencing DNA.

Sponsored by the American Mathematical Society.

Hosted by the Department of Mathematics at North Carolina State University.

This event is part of the AMS 2009 Spring Southeastern Section Meeting, April 4-5.

www.ams.org/meetings/einstein-lect.html

