

# Department of Computer Science Distinguished Lecture Series

October 14, 2004

3:30 p.m.

2055 Hoover Hall



## Stephen Smale

Toyota Technological Institute at Chicago

Co-Sponsored by the Department of Mathematics

Miller Distinguished Lecture

### *Recent Developments in Learning Theory*

#### **ABSTRACT**

We will give an exposition of topics as the geometry of data sets and some estimates for on-line learning.

#### **BIOGRAPHY**

Professor Smale received his PhD from the University of Michigan in 1957, and within four years became a full Professor at Columbia University. He became Professor at the University of California, Berkeley in 1964 and Professor Emeritus in 1994. Professor Smale became a Distinguished University Professor at the City University of Hong Kong in 1995. He is also a on the faculty of Toyota Technological Institute at Chicago.

He has made significant contributions in the fields of dynamic systems, geometry, econometrics, operational research, topology, and theoretical computer science. These contributions have resulted in a number of academic

awards and achievements including his holding of the Alfred Sloan Research Fellowship from 1960-62. In 1966 he won a Fields Medal - an international medal awarded once every four years for outstanding discoveries in mathematics. Other awards he received include the 1965 Veblen Prize for Geometry, awarded every five years by the American Mathematical Society; in 1988 the Chauvenet Prize by the Mathematical Association of America; and in 1989 the Von Neumann Award by the Society for Industrial and Applied Mathematics.

Professor Smale is a member of both the National Academy of Sciences and the American Academy of Arts and Sciences. He is recognized internationally in many fields of Mathematics, and has been invited as a Visiting Professor to College de France, Paris (Spring 1962), University of Paris, Orsay (1972-73), Yale University (Fall 1974), and Columbia University (Fall 1987).

For more information: <http://www.cs.iastate.edu/~colloq/csdl.html>

**IOWA STATE UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY