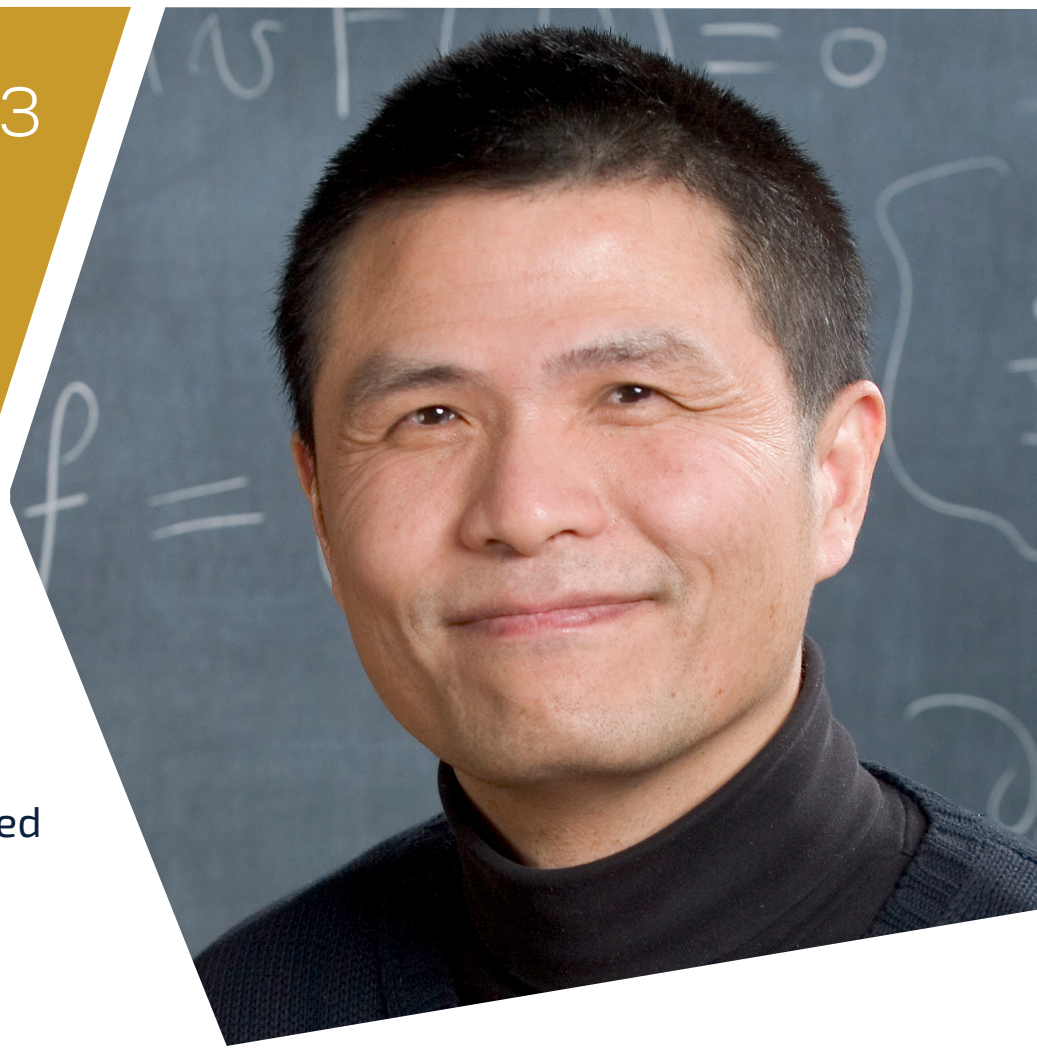
**John A. Lynch** Lecture Series

# MATHEMATICS IN SCIENTIFIC COMPUTING

4:30 pm Tuesday, September 13
127 Hayes-Healy Center

Reception preceding event at
4 pm in 101A Crowley Hall



**Chi-Wang Shu, Ph.D.**
Theodore B. Stowell University Professor of Applied Mathematics
Director of Graduate Studies
Brown University

Scientific computing is a relatively new area of research that addresses the critical issues of the development, analysis and application of algorithms for solving problems in engineering and applied sciences. Mathematics plays a central role in the development of scientific computing, and combined with the increase in computer powers, is responsible for the success of modern computer simulation. Prof. Shu will demonstrate examples of the role mathematics plays in scientific computing.

Chi-Wang Shu's research interests include high order numerical methods for solving hyperbolic and other convection dominated PDEs, with applications in CFD and other areas. He is the chief editor of Journal of Scientific Computing and of Communications on Applied Mathematics and Computation, and serves on the editorial boards of several other journals. He is a SIAM Fellow, an AMS Fellow and an AWM Fellow, and has received several prizes within the field of scientific computing.

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