



Institute for Mathematics and its Applications **MATH MATTERS**
IMA Public Lecture Series

Mathematical Modeling in Medicine, Sports and the Environment

Alfio Quarteroni

École Polytechnique Fédérale de Lausanne (Lausanne, Switzerland)
and Politecnico di Milano (Milan, Italy)

Mathematical models are enabling advances in increasingly complex areas of engineering and technology. Recent developments in multiscale geometrical modeling have opened the way to progress in modeling such complex systems as the human circulatory system and the climate system. Professor Quarteroni leads a team which has harnessed mathematical modeling to design improved cardiac surgical interventions and to optimize the design of the twice winning America's cup yacht Alinghi. He will talk about this work, and their efforts to confront some of the great environmental challenges that face us.

Wednesday

February 13, 2008

7:00 pm

125 Willey Hall

225 19th Avenue South

University of Minnesota

Minneapolis



UNIVERSITY OF MINNESOTA



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