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# University of Florida, Mathematics Department Sixth Ulam Colloquium

by

**Stanley Osher\***

Department of Mathematics, UCLA

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***Mathematics in the Real World and the Fake World***

**Date and Time:** 4:00 - 4:55pm, Monday, January 26, 2004

**Room:** Little Hall 113

**Refreshments:** After the lecture in the Atrium (LIT 339)

## OPENING REMARKS

by

**Dr. Win Phillips**

**Vice President for Research**

**Abstract:** With the advent of the computer we can now develop algorithms that perform incredible tasks --- special effects in Hollywood, catching bad guys on video, predicting all kinds of natural and unnatural phenomena. A common theme in these algorithms is rather elementary geometry. In this talk I'll discuss geometric algorithms and their applications in every day life.

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\* Professor Stanley Osher has made pioneering and influential contributions in many areas of scientific computing, including high resolution shock capturing schemes, level set methods, and PDE based methods in computer vision and image processing. He has given an invited address at the International Congress of Mathematicians, been a Fulbright and Sloan Fellow, received the NASA Public Service Group Achievement Award, Japan Society of Mechanical Engineers Computational Mechanics Award and received the SIAM Pioneer Prize at the CIAM conference last summer. He is Professor of Mathematics and Director of Applied Mathematics at the University of California, Los Angeles. He is also the Director of Special Projects for the Institute for Pure and Applied Mathematics (IPAM) and has cofounded three companies based on his own research. He is also an original Highly Cited Researcher, according to web-of-science.

This years Ulam Colloquium is part of the [Mathematical Methods in Imaging and Vision Workshop](#) and the [Special Year in Applied Math](#).