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COLLEGIUM da VINCI

The Collegium da Vinci Lecture Series, sponsored by Dedman College of the Humanities and Sciences at SMU, is proud to present the Allman Family Public Lecture, which is free and open to the public. Our speaker for the public lecture is Dr. Andrea Bertozzi, Professor of Mathematics at the University of California Los Angeles.

Dr. Bertozzi will present the following lecture, which will be aimed at a broad audience.

Mathematics in the Real World

Mathematics is making increasingly important contributions in (inroads into) fields outside its traditional domains of physics and engineering.

Sophisticated mathematical models appear in fields as diverse as economics, biology and sociology. These models are often studied using advanced computational and analytical techniques. The talk showcases various ways in which mathematics is having an impact in real world applications. We focus on an array of timely topics such as the Gulf of Mexico oil spill, crime hotspots, cooperative robotics, and swarming in biology.



Date: **Thursday, Sept. 23, 2010**

Location: Crum Auditorium in the Collins Executive Education Center

Time: 7:30 p.m.

Event: Allman Family Public Lecture, guest speaker, Dr. Andrea Bertozzi

FREE and Open to the Public; seating is limited and on a first come first served basis; RSVP requested at 214-768-1177 or collegium@smu.edu

Bertozzi Biography:

Andrea Bertozzi is Professor of Mathematics at UCLA and currently serves as Director of the Program in Computational and Applied Mathematics. From 1995-2004 she was on the faculty of Duke University, most recently as Professor of Mathematics and Physics. During 1995-6 she was Maria Goeppert-Mayer Distinguished Scholar at Argonne National Laboratory. From 1991-1995 she was a Dickson Instructor at the University of Chicago. She received AB, MA, and PhD degrees in Mathematics from Princeton University. Her current research interests include image inpainting, image segmentation, cooperative control of robotic vehicles, swarming, mathematics of crime, and fluid interfaces.

Professor Bertozzi is a Fellow of the Society of Industrial and Applied Mathematics and was recently elected to the American Academy of Arts and Sciences. She has served as a plenary/distinguished lecturer for both SIAM and AMS and is associate editor for the SIAM journals Multiscale Modeling and Simulation, SIAM Journal on Mathematical Analysis, and SIAM Review Survey and Reviews section. She also serves on the editorial boards for Interfaces and Free Boundaries, Applied Mathematics Research eXpress, Nonlinearity, and Communications in the Mathematical Sciences. Her past honors include a Sloan Foundation Research Fellowship and the Presidential Career Award for Scientists and Engineers from the Office of Naval Research. She was awarded SIAM's Sonia Kovalesky Prize at the 2009 Annual meeting in Denver.

[More Information on Bertozzi.](#)



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