Announcing
A Computational Science Seminar
Friday, November 2nd at 2:00 pm
Southern Hall 303
at The University of Southern Mississippi

Speaker: Haiyan Tian
Department of Mathematics
University of Southern Mississippi

Title: A direct solution method for ill-posed boundary value problems of elliptic operators

Abstract:
A direct method will be presented for solving inverse boundary value problems of elliptic operators. Problems under discussion appear in many applications in science and engineering. As an example, data can be missing on parts of the boundary due to inaccessibility or cost of measurement. The problems are typically ill-posed since their solutions do not depend continuous on the data. We introduce a direct solution method coupled with regularization technique. The numerical results show that the method is accurate and stable against perturbed data.

Further Information
Further details and information about this and other departmental activities is available online at http://www.usm.edu/math.