

ANNOUNCEMENTS

Undergraduate Faculty Enhancement Workshop in ODE and Linear Algebra SUNY AT OSWEGO MAY 18-24, 1997

You are invited to attend a workshop focusing on modern curricula in Ordinary Differential Equations and Linear Algebra, supported by the National Science Foundation and the SUNY Central Administration. In this workshop participants will:

- experience how modern technology and instructional techniques can enhance the teaching of ODEs and Linear Algebra
- engage in hands-on activities and work in small groups to select exercises and examples to use on their home campuses
- experiment with TI calculators and various software packages
- interact with consultants Bob Devaney, Steve Leon, Gilbert Strang, Alan Tucker, Beverly West and others.

The directors of the project are Jack Narayan, Jack Winn, Carol Freeman, and Constant Goutzier.

Support for living expenses will be provided. For more information and applications (to be returned by April 18th), call (315) 341-2890, email: McKenzie@oswego.edu or visit our Web Site at <http://www.oswego.edu/~narayan/NSFUFE.html>

Workshop on the Teaching of Differential Equations Using a Dynamical Systems Perspective

DAVIDSON, NC JUNE 1-4, 1997

CHICAGO, IL JUNE 22-25, 1997

These NFS faculty enhancement workshops will be presented by the Boston University Differential Equations Project. They are intended to promote a new style of differential equations instruction, one that emphasizes concepts and applications and one that involves faculty members from mathematics, engineering, and the sciences. Participants will take part in collaborative activities in small groups that include both mathematicians and faculty from other disciplines.

The workshop presenters will be Paul Blanchard and Robert L. Devaney (Department of Mathematics at Boston University) and Michael Ruane (College of Engineering at Boston University).

For more information, write to Paul Blanchard, Differential Equations Workshop, Department of Mathematics, 111 Cummington St., Boston University, Boston, MA 02215; e-mail odes@math.bu.edu; or visit the website at <http://math.bu.edu/odes/announcement-1.html>

IAS/Park City Mathematics Institute Undergraduate Faculty Enhancement Program

PARK CITY, UT JUNE 29-JULY 19, 1997

For the first time, the Institute for Advanced Study/Park City Mathematics Institute is offering a program aimed at undergraduate faculty in addition to its usual programs for research mathematicians, graduate and undergraduate students, and high school teachers. The focus of the program will be ordinary differential equations (in line with the research topic, which is symplectic geometry).

The program chair is Danny Goroff.

Financial support is available for qualified candidates. Interested parties should e-mail polking@rice.edu or goroff@abel.math.harvard.edu as soon as possible. For more information on the conference itself call 1-800-726-4427, e-mail pcmi@math.ias.edu, or visit the web page at <http://www.admin.ias.edu/ma/parkcity.htm>

6th Conference on the Teaching of Mathematics

MILWAUKEE JUNE 20-21, 1997

The conference addresses a broad range of issues relating to the teaching of mathematics, including calculus in colleges and secondary schools, changes in pre- and post-calculus courses, integrated science and mathematics curricula, and the impact of change on client disciplines (such as engineering, physics, and chemistry). It is sponsored by the Calculus Consortium based at Harvard University, in conjunction with the National Science Foundation and John Wiley and Sons, Inc.

Program Chair Kenneth C. Millett, University of California, Santa Barbara, is working with the Conference Program Committee to assemble the speakers and panelists. The keynote address will be delivered by William H. Schmidt, Michigan State University, who is U.S. coordinator for the TIMSS study.

For more information, e-mail math.wiley.com or visit the web site at <http://www.wiley.com/college/math/mathem/conf/index.html>

ODE ARCHITECT: INTERACTIVE MULTIMEDIA MODELING, DIFFERENTIAL EQUATION SOLVING.

So what's the Consortium for Ordinary Differential Equations Experiments up to now? CODEE members and associates are writing scripts for ODE ARCHITECT, a CD-ROM with companion book that combines a first-class numerical solver for "canned" and your own ordinary differential equations with 13 multimedia modules on ODEs, modeling, and dynamical systems; a library of ODEs and their dynamically generated solution curves and orbits; and a description of numerical methods for solving ODEs. Adding video, sound, animation, dynamic graphics, and student interaction to any ODEs course, this laboratory provides motivation for analysis, discovery, and interpretation. Users can enter their own systems of ODEs and explore (with 2D or 3D graphs or numerical tables) what happens as data and parameters change. ODE ARCHITECT (for Windows-PC) is being produced by CODEE, publisher John Wiley & Sons, Inc., and its software company Intellipro with NSF DUE support. For more information see the accompanying article in this issue.



A modified image from the multimedia portion of the second ODE ARCHITECT module. (You may recognize the replacement head as that of Michael Moody of Harvey Mudd College whose many vital contributions to the rest of the project are so much appreciated.)