PROVOST'S TEACHING DEVELOPMENT FUND

Application for Faculty Travel

Submitted by: Douglas B. Meade   Date: 20 September 1995

College/Department: College of Science and Mathematics, Department of Mathematics

Faculty/Rank: Assistant Professor   Tenure: No

Phone: 7–6183

Name of Conference/Workshop:
i. The Eight Annual International Conference on Technology in Collegiate Mathematics (ICTCM);
ii. Joint Annual Mathematics Meetings

Dates and Location:
i. November 16–19, 1995, Houston, Texas;
ii. January 10–13, 1996, Orlando, Florida

Departmental account for funds to be transferred to: 13060 A000

Description of Conference/Workshop (Attach conference announcement):

i. The introduction of technology into the mathematics curriculum presents many new opportunities to revitalize mathematics education. ICTCM is a conference which is expected to attract over 1800 educators and technology innovators in the fields of mathematics, physics, and engineering. I was asked to submit a proposal for a session at this conference; my proposal "Revitalizing Differential Equations with a Coordinated Use of Numerical, Graphical, and Analytical Methods" has been accepted. (All sessions of this conference are related to instructional innovation.) I will also attend the one-day workshop "Teaching with the Boston University Differential Equations Project".

ii. The Joint Annual Mathematics Meetings include the Annual Meetings of the American Mathematical Society (AMS), Mathematical Association of America (MAA), and three other associations. My contributed presentation, "Maple: A Comprehensive Tool for Introductory ODEs", to the MAA session "My Favorite ODE Solver and Why" has been accepted. (The programs for these conferences have not yet been finalized. Based on preliminary information, I intend to attend a variety of sesions directed towards instructional improvement. Examples include: Mathematics and Education Reform, Planning Reformed Calculus Programs: Experiences and Advice, Innovations in Teaching Linear Algebra, Interdisciplinary Programs with Undergraduate Mathematics, and Research in Undergraduate Mathematics Education.)

Description of Potential Use of Information Acquired in Improving Instruction:

These conferences provide an excellent forum for the description and dissemination of the innovations that began with my involvement in the Lilly Teaching Fellows program (1994-5). In addition, the interaction with other mathematicians involved in curricular improvement will provide exposure to additional ideas and methods that can be used to enhance the Department's continuing efforts to improve its teaching.

Description of Planned Follow-up Activities after Travel (include description of how information acquired will be shared with faculty colleagues):

In addition to daily interaction with colleagues, the information acquired at these conferences will be shared, as appropriate, with the Departmental Undergraduate Advisory Council (of which I am a member).

The Symbolic Algebra Seminar, which was started in Spring 1995 with partial support from the Provost's Instructional Development Fund has been a success. This forum continues to be an effective means of presenting new educational ideas to an interdisciplinary collection of faculty and students.

The President's Teaching Breakfast Series is also a possible avenue for the exposing the entire University community to the changes that are taking place within Mathematics education at USC. (I propose that the presentation be delivered jointly with my colleague, Professor Matt Miller.)

Estimated Travel Costs:

	ICTCM	AMS/MAA	Total
Registration	$ 95	$130	$225
Airfare/Mileage	400	250	650
Hotel	230	170	400
Meals	96	128	224
TOTAL	$ 821	$ 678	$1,499

Matching funds for the amount in excess of $1,000 has been requested from the Department of Mathematics (Professor Robert Stephenson, Chair) and the College of Science and Mathematics (Dean Jerry Odom).

Amount Requested: $1,000

Endorsements (where applicable)

Department Chair's Endorsement:

Comments:

Department Chair's Signature ____________ Date ____________

Dean's Endorsement:

Comments:

Dean's Signature ____________ Date ____________

Provost's approval for $____________

Provost's Signature ____________ Date ____________