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**IAS/Park City
Mathematics Institute**

a program of the
Institute for Advanced Study
Princeton, New Jersey

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Dear Colleague,

On behalf of the Institute for Advanced Study/Park City Mathematics Institute Steering Committee and Oversight Board, I would like to welcome you as a participant at the 2005 Summer Session and tell you a little bit about our program. The Summer Session will be held June 26-July 16, at Prospector Square Lodging and Conference Center in Park City, Utah. We expect about 250 participants, including high school teachers, undergraduate students, graduate students, university and college faculty, researchers in mathematics education, and research mathematicians. Everyone who will be there is involved in some way in the developing, teaching and learning of mathematics - that is the unifying theme.

Each of the six groups will be involved in the PCMI Summer Session in different ways. Accordingly, each group will have a program designed to be as strong and as useful to the groups' participants as possible. However, we want the Summer Session to be an opportunity for you to have some real contact with many of the other kinds of professionals engaged in mathematics and mathematics teaching. PCMI is one of the few opportunities many of us have to do this. If you are a researcher or a graduate student, I hope you will find a way to communicate, through analogy, non-technical example, a classical problem, etc., some aspect of what you do with the high school teachers, undergraduates, math education researchers, and our special guests from abroad. If you are a high school teacher, I very much hope you will share your professional experience and perspective with the mathematics and mathematics education researchers, graduate and undergraduate students, undergraduate faculty, and, again, our special guests from abroad. Finally, if you are a participant in the Undergraduate Faculty Program, you should know that your program is designed to make those connections especially easy.

To encourage contact between programs, we have scheduled All-Program Activities from 3:15-4:15 PM a few times each week. These sessions will be on topics of general interest; the first such activity is scheduled for Monday, June 27th. This first All-Program Activity will begin with a very brief general session on PCMI itself and the logistics around your participation in the Summer Session. Please refer to the All-Program Activities schedule that will be included in your Welcome Packet for more information on other scheduled activities. Details on each activity will be included in the daily schedules that are distributed throughout the Summer Session.

We extend a special welcome to our Clay Senior Scholars in Residence, Simon Levin of Princeton and Charles Peskin of Courant Institute at NYU. Both will give Clay Mathematics Institute Public Lectures, which will, of course, be All-Program events.

In addition to the usual three-week mathematics programs and teacher professional development at PCMI this summer, this year we will again be hosting a variety of initiatives concerned with the teaching of math. These include Deborah Ball's Elementary Mathematics Laboratory; our International Seminar on the teaching of mathematics (with a special focus on Africa this year); the continuation of the dialogue between a group of mathematicians led by Roger Howe and the leadership of the National Council of Teachers of Mathematics and the Association of State Supervisors of Mathematics; as a session of the program Preparing Mathematicians to Educate Teachers (PMET).

The IAS/Park City Mathematics Institute, founded in 1991, is a program of the Institute for Advanced Study, Princeton, New Jersey. It is funded primarily by grants from the National Science Foundation, with significant collaboration from several other public agencies and private foundations. Peter Goddard, Director of the Institute, joins me in extending a welcome and in our wish that the Summer Session will be of great benefit to you.

We look forward to seeing you in Park City this summer. Please be sure to read the other contents of this mailing so that you will be familiar with the various aspects of PCMI participation before you arrive in Park City.

With best regards,

C. Herbert Clemens
Director

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