



# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## ANNOUNCEMENT OF WINNERS

of the fortieth annual competition held on December 1, 1979

### WINNING TEAMS

Rank	School	Team Members (in alphabetical order)
1st	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Daniel V. D'Eramo, Miller Puckette, Michael Roberts
2nd	CALIFORNIA INSTITUTE OF TECHNOLOGY	Chris Bretherton, Peter Shor, John Stembridge
3rd	PRINCETON UNIVERSITY	David D. Chambliss, Mark P. Kleiman, Charles H. Walter
4th	STANFORD UNIVERSITY	Richard Beigel, Ken Olum, Stephen Omohundro
5th	UNIVERSITY OF WATERLOO	Michael H. Albert, Bradd Hart, Geoffrey Mess

The first place team receives an award of \$5000 and each member of the team receives \$250. The awards for second place are \$2500 and \$200; for third place \$1500 and \$150; for fourth place \$1000 and \$100; and for fifth place \$500 and \$50.

In each of the following categories, the listing is in alphabetical order.

### THE PUTNAM FELLOWS – THE FIVE HIGHEST RANKING INDIVIDUALS

Each receives an award of \$500

RANDALL DOUGHERTY	University of California, Berkeley
RICHARD MIFFLIN	Rice University
MARK G. PLESZKOCH	University of Virginia
MILLER PUCKETTE	Massachusetts Institute of Technology
CHARLES H. WALTER	Princeton University

### THE NEXT FIVE HIGHEST RANKING INDIVIDUALS (Each receives an award of \$250)

EDWARD BRANAGAN, JR.	Case Western Reserve University
RAYMOND A. COLEY	Princeton University
MARK P. KLEIMAN	Princeton University
MICHAEL RASHIP	Harvard University
PETER SHOR	California Institute of Technology

### HONORABLE MENTION – TEAMS

UNIVERSITY OF CALIFORNIA, BERKELEY	Randall Dougherty, Lin Goldstein, David Magagnosc
CASE WESTERN RESERVE UNIVERSITY	Edward Branagan, Jr., Paul Herdeg, Daniel Stock
HARVARD UNIVERSITY	Daniel Bloch, Victor Milenkovic, David Montana
UNIVERSITY OF MARYLAND, COLLEGE PARK	Ravi Boppana, Eric Kuritzky, David Phillips
WASHINGTON UNIVERSITY, ST. LOUIS	Kevin Keating, Nathan Schroeder, David Williams

### HONORABLE MENTION – INDIVIDUALS

MICHAEL H. ALBERT, University of Waterloo	JACOB NEMCHYONOK, Princeton University
MICHAEL BARALL, Princeton University	KEN OLUM, Stanford University
DAVID A. BARRINGTON, Amherst College	STEPHEN OMOHUNDRO, Stanford University
ROBERT F. CHAMBERLAIN, Rensselaer Polytechnic Institute	LAWRENCE PENN, Harvard University
JEFFREY W. CLARK, Yale University	LLOYD RAWLEY, Michigan State University
DANIEL V. D'ERAMO, Massachusetts Institute of Technology	TIM REDMOND, University of California, Santa Barbara
BRENDA FAHEY, Harvard University	EHUD REITER, Harvard University
DANIEL FREED, Harvard University	NILES D. RITTER, University of Southern California
PAUL HERDEG, Case Western Reserve University	LORENZO SADUN, Massachusetts Institute of Technology
IRWIN JUNGREIS, Cornell University	NATHAN SCHROEDER, Washington University, St. Louis
KEVIN KEATING, Washington University, St. Louis	BRIAN SHEPPARD, Harvard University
DANIEL KNIERIM, University of California, Davis	PATRICK SMITH, McGill University
ERIC KURITZKY, University of Maryland, College Park	MARK SPIVAKOVSKY, Harvard University
GEOFFREY MESS, University of Waterloo	GREGORY TAYLOR, Rensselaer Polytechnic Institute
RENATO MIROLLO, Columbia University	WILLIAM TITUS, Harvard University
DAVID MONTANA, Harvard University	DAVID S. WITTE, University of Wisconsin, Madison

A total of 2141 students from 338 colleges and universities in Canada and the United States participated in the competition. There were teams from 258 schools. More complete details will appear in the American Mathematical Monthly.

March 14, 1980

L. F. Klosinski, Director; G. L. Alexanderson and A. P. Hillman, Associate Directors