U.S. TEAM
PLACES SECOND IN
INTERNATIONAL MATH OLYMPIAD

A team of six talented high school students received second place
honors in competition with teams from 32 nations in the 24th International
Mathematical Olympiad (IMO) held in Paris, France on July 6, 7, 1983.
One U.S. team member, Michael Reid of Woodhaven, New York, won an individual
first prize for his score of 38 out of a possible 42 on the IMO examination.
Three students, Douglas Jungreis of North Woodmere, New York, Steven Newman
of Ann Arbor, Michigan, and Jeremy Kahn of New York City received individual
second prizes; two team members, C. James Yeh of Mountain Brook, Alabama, and
John Steinke of San Antonio, Texas, received third prizes.

The IMO, which annually brings together teams of high school students
from all parts of the world, has been held recently in London, England,
Washington, D.C., and Budapest, Hungary. Teams from the U.S. have usually
scored in the top three, always in the top five, and have taken first place
honors on two occasions.

The IMO is based on a challenging examination requiring both broad
knowledge and great mathematical ingenuity. In the usual tough but friendly
competition this year the following teams captured top honors: First Place,
West Germany with a team score of 212; Second Place, USA (171); Third Place,
Hungary (170); Fourth Place, USSR (169); and Fifth Place, Romania (161).

more. . .

The U.S. team is chosen on the basis of performance in the U.S.A. Mathematical Olympiad (USAMO) held this year on May 3. The team and two other USAMO winners were honored on June 7 at the Twelfth USAMO Awards Ceremony in Washington, D.C. Following the Awards festivities the U.S. team members attended a rigorous three-week training session held at the U.S. Military Academy at West Point.

The Mathematical Olympiad activities are sponsored by five national societies in the mathematical sciences. Financial support is provided by IBM, the Army Research Office, the Office of Naval Research, and Hewlett-Packard.

– end –

The members of the U.S. team and their schools were:

John M. Steinke	Madison High School
Michael Reid	Brooklyn Tech High School
C. James Yeh	Mountain Brook High School
Jeremy A. Kahn	Hunter College High School
Steven Newman	Roeper City and Country School
Douglas S. Jungreis	George Hewlett High School

Sponsors of the USAMO and the U.S. team in the IMO are:

The Mathematical Association of America
The Society of Actuaries
The National Council of Teachers of Mathematics
Mu Alpha Theta
The Casualty Actuarial Society

Sample problem from the 1983 IMO Examination:

If a, b, c are the lengths of the sides of a triangle, prove that

$a^2 b(a - b) + b^2 c(b - c) + c^2 a(c - a) \geq 0.$ Determine when there is equality.