

# Mathematics People

## Banchoff Receives NSF Distinguished Teaching Scholar Award

THOMAS F. BANCHOFF of Brown University has been named one of eight recipients of the Director's Award for Distinguished Teaching Scholars (DTS) from the National Science Foundation (NSF). According to the prize citation, Banchoff "has been influential in his pioneering geometry work on smooth and polyhedral surfaces beyond the third dimension." He has also done substantial work in computer graphics and visualization techniques.

The DTS awards are given to scientists and engineers who are outstanding educators and mentors as well as researchers. Each award carries a grant of about \$300,000 over four years.

—From an NSF announcement

## AMS Menger Prizes at the 2004 ISEF

The 2004 Intel-International Science and Engineering Fair (ISEF) was held May 9–15 in Portland, Oregon. This year marked the fifty-fifth anniversary of the ISEF. More than 1,200 ninth- through twelfth-graders competed in the fair. The participants had qualified by winning competitions in local, regional, and state fairs in the United States or national science fairs abroad. In addition to the general awards of the ISEF, more than fifty organizations, including the AMS, participated by giving ISEF Special Awards. These prizes include cash prizes, scholarships, T-shirts, magazines, and books.

This was the seventeenth year of participation in ISEF by the AMS and the fifteenth year of presentation of the Karl Menger Memorial Awards. The AMS Menger Prize Committee served as the Special Awards Panel of Judges

for the AMS; the members were Elwyn Berlekamp, University of California, Berkeley; Gisele R. Goldstein, University of Memphis (chair); and Hugh L. Montgomery, University of Michigan, Ann Arbor. The AMS gave one first-place award, two second-place awards, four third-place awards, and five honorable-mention awards.

The Karl Menger Memorial Prize winners were as follows:

First-Place Award: (\$1,000): "A Proof of Seymour's Conjecture for All Oriented Graphs", BRETT A. HARRISON, Half Hollow Hills High School West, Dix Hills, New York.

Second-Place Awards (\$500): "On the Properties of Jump Points in the Game of  $n$ -times Nim", BRIAN T. RICE, Marion Senior High School, Marion, Virginia; "Deviations from an Isotropic and Homogeneous Expansion of the Universe",



**Menger Prize winners:** Front row (left to right), Gisele Goldstein, Brett Harrison, Ilya Gurwich, Brian Rice; middle row, Huan-Chun Yeh, Brianna Satinoff, Ning Zhang, Sam Lewallen; back row, Nimish Ramanlal, Nurlan Bakitzhanov, Ginger Howell, Carlos Arreche-Aguayo, Allison Berke. Tair Assangali is not in the photograph.

**ETH**

Edgenössische Technische Hochschule Zürich  
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## Professorship in Mathematics

Duties of this position include teaching and research in mathematics. Together with the other members of the Department, the new professor will be responsible for undergraduate and graduate courses for students of mathematics, natural sciences, and engineering. Courses at Master level may be taught in English.

Applicants should have a strong research record and a proven ability to direct research work of high quality. Qualified candidates from all areas of mathematics are encouraged to apply. Willingness to teach at all university levels and to collaborate with colleagues is expected.

Applications with curriculum vitae and a list of publications should be submitted to the **President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than September 30, 2004**. ETH Zurich specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.

ILYA GURWICH, Amit State Religious/Municipal Comprehensive School, Beer-Sheva, Israel.

Third-Place Awards (\$250): "An Investigation of Irreducible Polynomials over  $Z_p$  Using Abstract Algebra", BRIANNA R. SATINOFF, Palm Harbor University High School, Palm Harbor, Florida; "A Novel Set of Representations of the Two-Component Link Group and Consequent Link Invariants", SAM J. LEWALLEN, Stuyvesant High School, New York, New York; " $m \times n$  Admissible Boards", HUAN-CHUN YEH, Taipei Municipal Junior High School, Taipei, Taiwan; "Research on the Number-Reasoning Problem", NING ZHANG, High School Affiliated to Fudan University, Shanghai, China.

Honorable-Mention Awards: "The Membership Problem for Ideals in the Ring of Polynomials over the Integers  $Z[x]$ ", CARLOS E. ARRECHE-AGUAYO, University Gardens High School, San Juan, Puerto Rico; "Diophantine Equations: Which Numbers Are Linear Combinations?", GINGER B. HOWELL, Trinity Collegiate School, Darlington, South Carolina; "A Quantum Algorithm for the Simultaneous Evaluation of Functions: A Combinatorics Solution with Fractal Properties", NIMISH P. RAMANLAL, Seminole High School, Sanford, Florida; "The Snake Lemma and Its Applications to Graph Theory", ALLISON P. BERKE, Mira Loma High School, Sacramento, California; "Constructing Boxes with  $N$ -Tetracubes", TAIR ASSANGALI and NURLAN BAKITZHANOV, Kasakh-Turkish Lycée, Aktobe, Kazakhstan.

The Society's participation in the Intel-ISEF is supported in part by income from the Karl Menger Fund, which was established by the family of the late Karl Menger. For more information about this program or to make contributions to the fund, contact the AMS Development Office, 201 Charles Street, Providence, RI 02904; send email to [development@ams.org](mailto:development@ams.org); or telephone 401-455-4111.

—Elaine Kehoe

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## Royal Society of London Elections

Four mathematical scientists are among those elected as new fellows of the Royal Society of London for 2004. They are SAMSON ABRAMSKY, University of Oxford; JULIAN BESAG, University of Washington; DAVID B. A. EPSTEIN, University of Warwick; and DAVID PREISS, University College of London.

—From a Royal Society announcement