

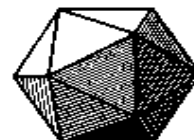
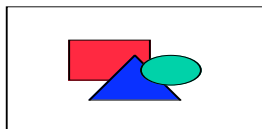
# 2004 Colorado Mathematics Awards

The 9th annual reception to recognize outstanding performance  
in national and international mathematics competitions  
by Colorado middle school, high school, and undergraduate college students.

Thursday, May 20, 2004

4:30 – 7:00 p.m.

Grant-Humphreys Mansion  
770 Pennsylvania Street  
Denver, Colorado



## Program

4:30 – 5:15 Refreshments

5:15 – 6:30 Welcome: Dr. Richard Gibbs, CMA Co-Chair and Emeritus Professor of Mathematics, Ft. Lewis College

Recognition of Underwriters: Dr. David Carlson, CMA Co-Chair and President, Resource Analysis, Inc.

Remarks: Ms. Christine LeBlanc, D'Evelyn Jr.-Sr. High School, Golden, and winner of the Edyth May Sliffe award for outstanding mathematics teaching at the junior high level; introduced by Mr. Howard Selbst, Falcon Creek Middle School, Aurora, and Colorado AMC 8 Director

### Presentation of Awards

- **American Mathematics Contest 8**: presented by Mr. Selbst
- **MATHCOUNTS**: presented by Mr. Paul Gulman, Professional Engineers of Colorado, and Chair, Colorado MATHCOUNTS Committee
- **American Mathematics Contests 10 and 12**: presented by Dr. David Larue, Colorado School of Mines, and Colorado AMC High School Director
- **International Mathematical Contest in Modeling**: presented by Professor Hortensia Soto-Johnson, Dept. of Mathematics, Colorado State University at Pueblo, and Governor, Rocky Mountain Section, Mathematical Association of America
- **Rocky Mountain MAA Section Burton W. Jones Distinguished Teaching Award Recipient, Prof. Don Teets, South Dakota School of Mines and Technology in Rapid City**: introduced by Professor Soto-Johnson
- **William Lowell Putnam Mathematical Competition**: presented by Professor Rob Tubbs, University of Colorado-Boulder, and Chair, Rocky Mountain Section, Mathematical Association of America

6:30 – 7:00 Refreshments

### Patrons (\$500 - \$999)

American Mathematics Competitions  
CH2M Hill  
Colorado Council of Teachers of Mathematics

### Supporters (\$100-\$499)

Professional Engineers of Colorado  
Mathematical Association of America  
(Rocky Mountain Section)  
McDougal Littell

Steering Committee: Dr. Richard Gibbs and Dr. David Carlson, reception co-chairs; Mr. Don Ulrich, Denver Area Office Manager, CH2M Hill; Mr. Paul Gulman, P.E., NSPE, Professional Engineers of Colorado; Dr. David Larue, Computing Support Specialist, Colorado School of Mines, Golden; Dr. James Loats, Department of Mathematics, Metropolitan State College of Denver; Ms. Rhonda Naylor, Campus Middle School, Englewood, and Past President, Colorado Council of Teachers of Mathematics; Mr. Howard Selbst, Falcon Creek Middle School; Prof. Lou Talman, Department of Mathematics, Metropolitan State College of Denver.

Special thanks to: McKnight Jewelry, Durango; Judy Lerner Catering, Denver; and Mr. Nate Strauch, Governor's Office.

Contributions and other expressions of support for this annual awards ceremony may be sent to: Dr. Richard A Gibbs, 4521 CR 203, Durango CO 81301. Make checks payable to: Colorado Mathematics Awards.

## American Mathematics Contest 8

This 40-minute 25-question multiple-choice contest is given in school on the Tuesday the week before Thanksgiving. Students in 8th grade and below are eligible. In 2003 over 158,000 students from over 2,700 schools nationwide participated in the AMC 8. In Colorado, over 1,800 students from 34 schools participated in 2003-2004.

### Top Colorado Individual Winners (and Coaches)

- (1) **Marshall Carpenter**, Summit Middle School, Boulder (Greta Frohbieter) and **Leonid Ovanesyan**, Challenge School, Denver (Rich Morrow)
  - (3) **Samuel Galler**, Summit Middle School, Boulder, (Greta Frohbieter); **Marissa Latta** and **Spencer Zepelin**, Challenge School, Denver, (Rich Morrow); **Sam Elder** and **Jenna Pettinger**, Boltz Junior High School, Ft. Collins (Sue Everett); and **Claire McKeever**, Powell Middle School, Littleton, (Joelle Hogue)
- 6<sup>th</sup> Grade 1<sup>st</sup> Place: **Stephen Whitnah**, Challenge School, Denver (Rich Morrow)

### Honorable Mention (and Coaches)

**Norris Xu**, Southern Hills Middle School, Boulder (Denise Pearman); **Jordan Maslov**, **Stephen Whitnah**, and **David Wu**, Challenge School, Denver (Rich Morrow); **Robert Fornia**, Campus Middle School, Greenwood Village (Rhonda Naylor); and **Amber Verser**, Walt Clark Middle School, Loveland (Rocke Verser)

## MATHCOUNTS

MATHCOUNTS is a math enrichment program for 6th through 8th graders which leads to a series of competitions at the school, chapter, state, and national levels. The top 4 students at the state competition represent their state at the national competition. A MATHCOUNTS competition lasts approximately 3 hours and consists of 5 rounds involving a combination of individual and team, written and oral problem solving activities. Over 950 individuals from 144 Colorado schools competed in 4-person teams during 2003-2004.

### First Place Colorado Team (and Coach)

**Sam Elder**, **Brandon Davis**, **Andrea Hayes**, **Jenna Pettinger**, Boltz Junior High School, Ft. Collins (Sue Everett). Ms. Everett coached the Colorado MATHCOUNTS team at the national competition.

### Colorado MATHCOUNTS Team (and Coaches)

- (1) **Marshall Carpenter**, Summit Middle School, Boulder (Greta Frohbieter)
- (2) **Sam Elder**, Boltz Junior High School, Fort Collins, (Sue Everett)
- (3) **Thomas Davids**, Summit Middle School, Boulder, (Greta Frohbieter)
- (4) **Brandon Davis**, Boltz Junior High School, Fort Collins, (Sue Everett)

### Honorable Mention (and Coaches)

**Matthew Beard**, Powell Middle School, Littleton (Joelle Hogue); **Kevin Black**, Hamilton Middle School, Denver (Daryl Fengler); **Bill Higgins**, Logan School, Denver (Marty Caplan); **David Wu**, **Leonid Ovanesyan**, and **Spencer Zepelin**, Challenge School, Denver (Rich Morrow)

## American Mathematics Contests 10 and 12

These 75-minute, 25-question multiple-choice contests contain approximately 12 common problems and are given simultaneously in school on the Tuesday before the Presidents' Day holiday. Students in grades 10 and below are eligible for AMC 10, and students in grade 12 and below are eligible for AMC 12. In 2004 over 239,000 students from over 4,200 schools nationwide participated in the AMC 10 and AMC 12. Over 2,000 Colorado students from 41 schools participated.

### AMC 10--Top Colorado Individual Winners (and Coaches)

- (1) **Ryan Hamerly**, Boulder High School, Boulder (Melissa Warfield)
- (1) **Seth O'Brien**, Monarch High School, Louisville (Dan Felknor)
- (1) **Sara Sheehan**, South High School, Pueblo (Patrick Mara)

### AMC 10--Honorable Mention (and Coaches)

**Marshall Carpenter**, Summit Middle School, Boulder (Greta Frohbieter); **Karen Christopher** and **Sarah Hoffman**, Cherry Creek High School, Greenwood Village (Michelle Barber); **Robert Fornia**, Campus Middle School, Greenwood Village, (Rhonda Naylor); **Jesse Morse**, George Washington High School, Denver (Stephen Lacks); **Leonid Ovanesyan** and **Ryan Shaffer**, Challenge School, Denver (Rich Morrow)

### AMC 12--Top Colorado Individual Winners (and Coaches)

- (1) **Andy Scacco**, Smoky Hill High School, Aurora (Steve Cavnar)
- (2) **Michael Rodgers**, Fairview High School, Boulder (Carla Berley)

- (3) **Conner Rogers**, D'Evelyn Jr.-Sr. High School, Golden (Rhonda Jacobson)

**AMC 12--Top Colorado Team (and Coach)**

**Andy Scacco, Leon Slavkin, James Zorich**, Smoky Hill High School, Aurora (Steve Cavnar)

**AMC 12--Honorable Mention (and Coaches)**

**Tanner Gansert**, D'Evelyn Jr.-Sr. High School, Golden (Rhonda Jacobson); **Ian Hamilton**, Arapahoe High School, Littleton (Debbie Turner); **Bryce Herdt**, William Mitchell High School, Colorado Springs (Anne Thrasher); **Jason Liu**, Douglas County High School, Castle Rock (Jodene Lissler); **Jesse Morse**, George Washington High School, Denver (Stephen Lacks); **Ji Ho Park**, Fountain Valley School, Colorado Springs (Deb Prantl); **Yiming Wang**, Boulder High School (Melissa Warfield)

**American Invitational Mathematics Examination and the USA Math Olympiad**

The American Invitational Mathematics Examination (AIME) is a 3-hour, 15-question examination with each answer a 3-digit number. The AIME is administered six weeks after the AMC 10, 12 exams to student achieving Honor Roll status on the AMC 10, 12 exams. In 2004 approximately 12,000 students nationwide qualified for the AIME. There were 119 Honor Roll students from Colorado.

The USA Math Olympiad (USAMO) is a 6-hour, 6-question essay examination given 5 weeks after the AIME to the top 260 students participating in the AMC 10, 12 exams and the AIME. This year, five Colorado students qualified to write the 2004 USAMO. The top 6 USAMO students comprise the team that represents the USA at the International Mathematical Olympiad held in July. This year's IMO will be held in Athens.

**Qualifying Students for the USAMO (and Coaches)**

**Bryce Herdt**, Mitchell High School, Colorado Springs (Eric McNeill); **Seth O'Brien**, Monarch High School, Louisville (Dan Felknor); **Conner Rogers**, D'Evelyn Jr.-Sr. High School Golden (Rhonda Jacobson); **Andrew Scacco**, Smoky Hill High School, Aurora (Steve Cavnar); **Sara Sheehan**, South High School, Pueblo (Patrick Mara)

**Mathematical Contest in Modeling**

The Mathematical Contest in Modeling is a team contest for undergraduates. The Mathematical Association of America is one of the sponsoring organizations. Each team of three students works in mid-February from midnight on a Thursday until 5 p.m. the following Monday, using applied mathematics to solve their choice of one of three real-world problems. In 2004, 599 teams from 11 countries submitted solutions; 10 teams from seven Colorado colleges and universities participated.

**Top Colorado Teams (and Coaches)—Outstanding Ranking**

**Brian Camley, Pascal Getreuer, Bradley Klingenberg**, U. of Colorado—Boulder (Prof. Anne Dougherty)  
**Moorea Brega, Alejandro Cantarero, Corry Lee**, U. of Colorado—Boulder (Prof. Bengt Fornberg)

*'Outstanding' is the highest award level possible. Only 7 of 599 teams worldwide achieved it in 2004!*

**William Lowell Putnam Mathematical Competition**

This competition is a collegiate examination sponsored by the Mathematical Association of America. This exam is a 6-hour 12-question essay examination given on campus on the first Saturday in December. All undergraduates are eligible. In 2003 over 3,600 students from 479 institutions participated. Students from ten Colorado colleges and universities participated. CSU's team placed 57<sup>th</sup> out of 401 teams.

**Top Colorado Individual Winners (and Coaches)**

- (1) **Adam Henderson**, University of Colorado - Boulder (Prof. Gordon Brown)
- (2) **Manfred Georg and Felipe Ramierez**, Colorado State University, Ft. Collins (Prof. Alexander Huelpke)
- (2) **Nicholas Hall**, University of Colorado – Boulder (Prof. Gordon Brown)
- (2) **Deanna Turk**, University of Northern Colorado, Greeley (Prof. Steven Leth)

**Top Colorado Team (and Coach)**

**Manfred Georg, Travis King, Felipe Ramierez**, Colorado State University, Ft. Collins (Prof. Alexander Huelpke)