

# 2000 Colorado Mathematics Awards

The 5th annual reception to recognize outstanding performance in national mathematics competitions by Colorado secondary and college students.



**Wednesday, May 24, 2000**

**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, Chair, Committee on the American Mathematics Competitions (Mathematical Association of America), and Professor of Mathematics, Ft. Lewis College

**Recognition of Underwriters:** Dr. David Carlson, Resource Analyst, Colorado Department of Agriculture

**Remarks:** Ms. Mattye Pollard-Cole, Co-Principal Investigator/Teacher Mentor, Colorado Mathematics Middle School Teacher Enhancement Project [COMMSTEP]  
Mr. David Laube, Chancellor, Colorado Institute of Technology

**Presentation of Awards**

- American Mathematics Contest 8  
Dr. Gibbs
- MATHCOUNTS  
Ms. Roberta Bourn, Executive Director of the Professional Engineers of Colorado, and Colorado MATHCOUNTS Coordinator
- American Mathematics Contest 10  
Dr. Gibbs
- American Mathematics Contest 12  
Dr. Gibbs
- Mathematical Contest in Modeling  
Professor Bill Emerson, Dept. of Mathematics, Metropolitan State College, and Governor, Rocky Mountain Section, Mathematical Association of America
- William Lowell Putnam Mathematical Competition  
Professor Emerson

6:30 – 7:00

**Refreshments**

## Sponsors

### **Mathematics Organizations**

American Mathematics Competitions  
Colorado Council of Teachers of Mathematics  
MATHCOUNTS  
Mathematical Association of America  
(Rocky Mountain Section)

### **Underwriters**

CH2M Hill  
Colorado Mathematics, Science and Technology  
Education Coalition [COMSTEC]  
Kenneth Kendal King Foundation  
StorageTek Foundation

**Steering Committee:** Dr. Richard Gibbs, chair, and Dr. David Carlson, Colorado Dept. of Agriculture. Special thanks to: McKnight Jewelry, Durango; A/V Services, LLC, Denver; Judy Lerner Catering; and Mr. Sean Williams, Governor's Office.

Contributions and other expressions of support for this annual awards ceremony may be sent to: Dr. Richard A Gibbs, Dept. of Mathematics, Ft. Lewis College, Durango CO 81301-3999. Make checks payable to: American Mathematics Competitions.

## American Mathematics Contest 8

This 40-minute, 25-question multiple choice examination is given in school on the Tuesday the week before Thanksgiving. Students in 8th grade and below are eligible. In 1999 approximately 203,000 students from more than 3,300 schools nationwide participated in the AMC 8. More than 2,500 Colorado students from 42 schools participated. The Colorado Director for the AMC 8 is Ft. Lewis College Mathematics Professor Annette Cooper.

### Top Colorado Individual Winners (and Coaches)

- (1) **Keith Mitchell**, Challenge School, Denver (Rich Morrow)
- (1) **Kelsey Rogers**, D'Evelyn Jr.-Sr. High School, Golden (Malcolm Campbell)
- (3) **Paul Kim, Curtis Larimer, Nick Taylor**, North Middle School, Colorado Springs (Christine Tschamler)
- (3) **Clayton Kyle**, Castle Rock Middle School (Ann Miller)
- (3) **Yunjie Ma**, Challenge School, Denver (Rich Morrow)

### Honorable Mention (and Coaches)

**Alex Billington**, Eagleview Middle School, Colorado Springs (Patricia Marx); **Robert Shroyer**, Challenge School, Denver (Rich Morrow); **Jason Murphy, Lisa Saccomano**, Campus Middle School, Englewood (Melissa Colsman); **Liza Mitchell**, Dawson School, Lafayette (Ruth Homan); **Patrick Tynan**, Goddard Middle School, Littleton (Pete Sexton); **Heather Francis**, Louisville Middle School (Wade Payne)

### Sixth Grade Honor Roll

- (1) **Ryan Hamerly**, Summit Middle School, Boulder (Ingrid Fotino)
- (1) **Sarah Hoffman**, Challenge School, Denver (Rich Morrow)

### Edith May Sliffe Teaching Award Winner

**Melissa Colsman**, Campus Middle School, Englewood

## MATHCOUNTS

MATHCOUNTS is an after school program for 7th and 8th graders that leads to a series of competitions at school, chapter, state, and national levels. The top four students at the state competition represent their state at the national competition. MATHCOUNTS competitions last approximately three hours and consist of five rounds of written and oral problem-solving activities for individuals and teams. In Colorado, 128 schools competed in 1999-2000. Each school had a team of four students. The Colorado Coordinator is Ms. Roberta Bourn, Executive Director of the Professional Engineers of Colorado.

### First Place Colorado Team (and Coach)

**Yunjie Ma, Keith Mitchell, Brenna Powers, Robert Shroyer**  
Challenge School, Denver (Rich Morrow); Mr. Morrow coached the Colorado team at the national competition.

### Colorado MATHCOUNTS Team (and Coaches)

- (1) **Brendan Fry**, Moore Middle School, Arvada (Sheila Humphreys)
- (2) **Keith Mitchell**, Challenge School, Denver (Rich Morrow)
- (3) **Michael Chaitkin**, Campus Middle School, Englewood (Rhonda Wanger)
- (4) **Jay Zolle**, Powell Middle School, Littleton (Joelle Hogue)

### Honorable Mention (and Coaches)

**Chance Finucane**, Campus Middle School, Englewood (Rhonda Wanger); **Mark Heim**, Walt Clark Middle School, Loveland (Rocke Verser); **Henry Jin**, Sierra Middle School, Parker (Dot Purvis and Diane Bliesner); **Brenna Powers**, Challenge Middle School, Denver (Rich Morrow); **Kelsey Rogers**, D'Evelyn Jr.-Sr. High School, Golden (Malcolm Campbell); **Helen Sculthorpe**, Powell Middle School, Littleton (Joelle Hogue)

## American Mathematics Contests 10 and 12

These 75-minute, 25-question multiple choice contests are given simultaneously in school on the Tuesday before Presidents' Day holiday. Students in 10<sup>th</sup> grade or below are eligible for AMC 10, and students in 12<sup>th</sup> grade or below are eligible for AMC 12. In 2000, approximately 380,000 students from 4,800 schools nationwide participated in the AMC 10 and 12. In Colorado, more than 5,400 students from 64 schools participated. The acting Colorado Director for the AMC 10 and 12 is Fort Lewis College Mathematics Professor Richard Gibbs.

### **AMC 10—Top Colorado Individual Winners (and Coaches)**

- (1) **Nathan Countryman**, Overland High School, Aurora (Laura Bennett)
- (2) **Jonathan Beall**, Boulder High School (Melissa Warfield)
- (3) **Steven Brodhead**, Air Academy High School, United States Air Force Academy (Glenn Hoit)
- (3) **Bryce Herdt**, Washington Irving Middle School, Colorado Springs (Loretta Chandler)

### **AMC 10—Honorable Mention (and Coaches)**

**Christopher Barth**, Arapahoe High School, Littleton (Mary Habas); **Lance Hering**, Fairview High School, Boulder (Marcia Roberts); **Margaret Jones, Toby Kraus**, Boulder High School (Melissa Warfield); **Joseph Koehler**, Lewis Palmer High School, Monument (Kathleen Thirkell); **Lily Tian**, Smoky Hill High School, Aurora (Jim Clark)

### **AMC 12—Top Colorado Individual Winners (and Coaches)**

- (1) **Nicholas Hall**, Cherry Creek High School, Englewood (Norm Liden)
- (2) **Justin Rogers\***, D'Evelyn Jr.-Sr. High School, Golden (Rhonda Jacobson)
- (3) **Jonathan Anscher**, Cherry Creek High School, Englewood (Norm Liden)
- (3) **Galen Pickard**, Poudre High School, Ft. Collins (Jeff Davis)

\*Justin Rogers was invited to take the USA Mathematical Olympiad examination in May.

### **AMC 12—Top Colorado Team (and Coach)**

**Jonathan Anscher, Nicholas Hall, Steven Miller**  
Cherry Creek High School (Norm Liden)

### **AMC 12—Honorable Mention (and Coaches)**

**Tore Eschliman**, William J. Palmer High School, Colorado Springs (David Sawtelle); **David Forhan, Steven Miller**, Cherry Creek High School, Englewood (Norm Liden); **Scott Greenwald**, Poudre High School, Ft. Collins (Jeff Davis); **Elizabeth Kennard**, Smoky Hill High School, Aurora (Jim Clark); **Paul Rundle**, Fairview High School, Boulder (Marcia Roberts); **Sean Smith**, D'Evelyn Jr.-Sr. High School, Golden (Rhonda Jacobson)

## **International Mathematical Contest in Modeling**

Each February, teams of three undergraduate students work from midnight on Thursday through 5 p.m. the following Monday, using applied mathematics to solve their choice of one of three real-world problems. This year, 495 teams from 231 institutions in nine countries submitted solutions; 14 teams from seven Colorado colleges and universities participated. The Consortium for Mathematics and its Applications sponsors this contest, with major funding from the National Science Foundation and the National Security Agency and with additional funding from the Mathematical Association of America and two other organizations.

### **Top Colorado Team (and Coach)\***

**Martin Linck, William Woessner, Richard Younger**, U. of Colorado—Boulder (Prof. Anne Dougherty)

\* The paper submitted by this team for problem A on air traffic control received the highest designation possible [Outstanding]. Only four out of the 154 teams that submitted solutions to this problem received this exceptional ranking.

## **William Lowell Putnam Mathematical Competition**

This examination for college undergraduates is sponsored by the Mathematical Association of America. The 6-hour exam is given on campuses in December and consists of 12 essay questions. In 1999, more than 2,500 students from 400 colleges and universities participated, including students from ten Colorado institutions.

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

- (1) **Fritz Obermeyer**, Colorado State University, Ft. Collins (Prof. Richard Osborne)
- (2) **John Batchelder**, Colorado State University, Ft. Collins (Prof. Richard Osborne)
- (2) **Aleksandr Arustamyan**, University of Colorado—Boulder (Prof. Gordon Brown)

### **Top Colorado Team (and Coach)**

**John Batchelder, Donald Brower, Fritz Obermeyer**  
Colorado State University, Fort Collins (Prof. Richard Osborne)