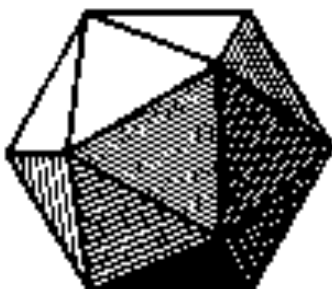


# **2008 Colorado Mathematics Awards**

**The 13th annual reception to recognize outstanding performance  
in national and international mathematics competitions  
by Colorado middle school, high school, and undergraduate college students.**



**Tuesday, May 13, 2008**

**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 Prof. of Mathematics, Ft. Lewis College

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

Remarks: Ms. Paige Lee, President, Professional Engineers of Colorado

## Presentation of Awards

- **American Mathematics Contest 8:** presented by Mr. Howard Selbst, Falcon Creek Middle School, Aurora, and Colorado AMC 8 Director
- **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
- **Recognition of U.S.A. Mathematics Olympiad Participants** by Dr. Gibbs
- **American Regions Mathematics League Colorado Team:** presented by Ms. Silva Chang, Director, Colorado Math Circle, Boulder
- **International Mathematical Contest in Modeling:** presented by Professor Mike Brilleslyper, Dept. of Mathematics, U.S. Air Force Academy, and Chair, Rocky Mountain Section, Mathematical Association of America
- **Rocky Mountain MAA Section Burton W. Jones Distinguished Teaching Award recipient,** Professor Steve Janke, Colorado College, recognized by Professor Brilleslyper
- **William Lowell Putnam Mathematical Competition:** presented by Professor Brilleslyper

6:30 – 7:00

## Refreshments

# Contributors

## 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)

Steering Committee: Dr. Richard Gibbs and Dr. David Carlson, reception co-chairs; Ms. Silva Chang, Director, Colorado Math Circle, Boulder; Mr. Michael Millage, Transportation Engineer, CH2M Hill; Mr. Paul Gulman, P.E., NSPE, Professional Engineers of Colorado; Dr. David Larue, Colorado School of Mines, Golden; Ms. Rhonda Naylor, Campus Middle School (ret.) and Past President, Colorado Council of Teachers of Mathematics, Englewood; Mr. Howard Selbst, Falcon Creek Middle School, Aurora; and Prof. Lou Talman, Dept. of Mathematics, Metropolitan State College of Denver.

Special thanks to: The Jewelry Works, Durango; Judy Lerner Catering, Denver; Signal Graphics, Denver; and Craig Bannister and Ann Deforest-Stalls, Governor's Office. **Pictures of students and teacher-coaches at:** <http://cma.coloradomath.org>.

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

The AMC 8 is a 40-minute 25-question multiple choice contest given in school on the Tuesday the week before Thanksgiving. Students in 8th grade and below are eligible. In 2007, 150,000 students from 2,300 schools nationwide participated in the AMC 8. In Colorado, 1,400 Colorado students from 26 schools participated.

### AMC 8--Top Colorado Individual Winners (and Coaches)

- (1) **Tae Kim**, Campus Middle School, Greenwood Village (Sandra Evans) **Kim scored a perfect paper!**
- (2) **Rachel Hoffman**, Challenge School, Denver (Rich Morrow)
- (3) **Alexander Black**, Summit Middle Charter School, Boulder (Ingrid Fotino)

### Honorable Mention (and Coaches)

**Ryan Carson**, Altona Middle School, Longmont (Chitra Seshan); **Cooper Leith** and **Benjamin Myers**, Campus Middle School, Greenwood Village (Sandra Evans); **Nikola Maksimovic**, **Kelsey Piper**, and **Albert Soh**, Summit Middle Charter School, Boulder (Ingrid Fotino); **Owen Nugent**, Mountain Ridge Middle School, Colorado Springs (Christine Draper); **Rudy Parks**, Craver Middle School, Colorado City (Michael Parks); **Daniel Zheng** and **Bruce Zheng**, Challenge School, Denver (Rich Morrow). **Myers and Soh were the top students in grade 6 or below who took the AMC 8 exam.**

## MATHCOUNTS

MATHCOUNTS is an after school program for 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> graders which leads to a series of competitions at the school, chapter, state, and national levels. The top four students at the state competition represent their state at the national competition. A MATHCOUNTS competition lasts approximately 3 hours and consists of 4 rounds involving a combination of individual and team, written and oral problem solving activities. Nearly 40,000 students from 5,900 schools participated in competitions across the country in 2007-2008, including more than 1,000 students from 146 Colorado schools. The national MATHCOUNTS competition was held in Denver this year, May 8-10, 2008.

### First Place Colorado Team

**Alexander Black**, **Will Conway**, **Nikola Maksimovic**, and **Albert Soh**, Summit Middle Charter School, Boulder (Coaches: Tom Seibel and Silva Chang).

### Colorado MATHCOUNTS Team (and Coaches)

**Alexander Black**, Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang); **Nicolas Ledru**, Southern Hills Middle School, Boulder (Denise Pearman-Johnson); **Tae Kim**, Campus Middle School, Greenwood Village (Sandra Evans) and **Kevin Xie**, Cresthill Middle School, Highlands Ranch (Kevin Larsen). Coaches: Tom Seibel and Silva Chang, Summit Middle Charter School, Boulder. **This year's team placed 24<sup>th</sup> in the national competition.**

### Honorable Mention (and Coaches)

**Ryan Carson**, Altona Middle School, Longmont (Chitra Seshan); **Cissy Chen**, Eldorado K-8, Superior (Pam Brenner); **Stefan Grampp**, Rocky Mountain School, Boulder (Mark Ambrust); **Albert Soh**, Summit Middle Charter School Boulder (Silva Chang and Tom Seibel); **Sawyer Vaughan**, Stargate School, Thornton (Tim Stafford); **Bruce Zheng**, Challenge School, Denver (Rich Morrow).

## American Mathematics Contests 10 and 12

Each contest is a 75-minute 25-question multiple choice test with approximately 12 common problems between them. Students in grades 10 and below are eligible for the AMC 10; students in grades 12 and below are eligible for the AMC 12. The contests are given in two versions in February, 15 days apart. In 2008 national participation rates were 104,000 students from 2,500 schools, and 121,000 students from 4,000 schools, in AMC 10 and 12, respectively. Colorado's participation: 951 students from 46 schools (AMC 10) and 1,163 students from 50 schools (AMC 12).

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

- (1) **Ben Alpert**, Fairview High School, Boulder (Del Ebadi)
- (2) **Charles Xu**, Fairview High School, Boulder (Del Ebadi)
- (3) **Shuli Song**, The Classical Academy, Colorado Springs (John Knuth)

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

**Alexander Black**, Summit Middle Charter School, Boulder (Ingrid Fotino); **Chris Guthrie**, Fairview High School, Boulder (Del Ebadi); **Tae Kim**, Campus Middle School, Greenwood Village (Sandra Evans); **Margaret Koehler**, Lewis-Palmer High School, Monument (Kathleen Thirkell); **Connie Liu**, Cherry Creek High School, Greenwood Village (Michael Berndt); **Scott McClary**, Fort Morgan High School (Kevin Rhode); and **Thomas Scheevel**, Fruita Monument High School (Suellyn Chronister). **Kim was the top student in grade 8 or below who took the AMC 10 exam.**

### AMC 12—First Place Colorado Team (and Coach)

**Marshall Carpenter, Thomas Davids, and Vicky Li**, Fairview High School, Boulder (Del Ebadi)

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

- (1) **Sam Elder**, Poudre High School, Fort Collins (Jeff Davis). **Elder scored a perfect paper (1 of 25 nationally)!**
- (2) **Charlie Stoddard**, Steamboat Springs High School (Lisa Ruff)
- (3) **Marshall Carpenter**, Fairview High School, Boulder (Del Ebadi)

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

**Thomas Davids, Vicky Li, Victor Li, Jirui Qin, Norris Xu, and Mutian Yao**, Fairview High School, Boulder (Del Ebadi); **Michael Morton**, Rangely High School (Travis Porter); **Leonid Ovanesyan**, Smoky Hill High School, Aurora (Dennis Gournic); and **Ryan Beethe**, Poudre High School, Fort Collins (Jeff Davis). **Beethe was the top student in grade 10 or below who took the AMC 12 exam.**

## American Invitational Mathematics Examination and the USA Math Olympiad

The *American Invitational Mathematics Examination* is a 3-hour 15-question examination with each answer a 3-digit number. Administered in school 6 weeks after the AMC 10 and 12 exams to students achieving Honor Roll status on the AMC 10 or 12 exams. In 2008, approximately 8,500 students nationwide took the AIME, including 52 students from Colorado. **Elder scored a perfect paper (1 out of 8 perfect scores nationally)!**

The *USA Math Olympiad* is a 9-hour 6-question essay examination given to the top 500 students participating in the AMC 10 and 12 exams and the AIME. 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 Madrid, Spain. Six students from Colorado qualified to write the 2008 USAMO on April 24-25.

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

**Ben Alpert, Thomas Davids, Chris Guthrie, and Charles Xu**, Fairview High School, Boulder (Del Ebadi); **Sam Elder**, Poudre High School, Fort Collins (Jeff Davis); **Charlie Stoddard**, Steamboat Springs High School (Lisa Ruff).

## American Regions Mathematics League

In 2007, 1770 students from six countries and 34 states formed 118 fifteen-member teams to compete at the national ARML competition. The Colorado team won fourth place in the Western Division. Team member Sam Elder won ninth place among all ARML participants.

**Marshall Carpenter, Thomas Davids, Vicky Li, and Norris Xu**, Fairview High School, Boulder; **Hunter Chase**, Alexander Dawson School, Lafayette; **Eric Conner**, D'Evelyn Jr/Sr High School, Denver; **Sam Elder**, Poudre High School, Fort Collins; **Sam Galler**, Boulder High School; **Michael Morton**, Rangely High School; **Charlie Stoddard**, Steamboat Springs High School; and **Amber Verser**, Thompson Valley High School, Loveland. Coaches: Silva Chang and Bradley Alpert.

## 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. A 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 2008, solutions were submitted by 1,162 teams, including 276 teams from the U.S. There were nine outstanding teams and 161 Meritorious teams in all. In Colorado, six teams from two colleges and universities participated.

### Top Colorado Teams (and Coaches)—Meritorious Ranking

**Ryan Schilt, Jonathan Olson, Joseph Adams**, CU-Boulder (Prof. Anne Dougherty)  
**Christopher-Ian Davis, Christopher Dodson, Ramsey Majzoub**, CU-Boulder (Prof. Luis Melara)

## William Lowell Putnam Mathematical Competition

The William Lowell Putnam Mathematical Competition is a collegiate examination sponsored by the Mathematical Association of America. It is a 6-hour 12-question essay examination given on campus on the first Saturday in December. All undergraduates are eligible. In 2007 more than 3,700 students from 516 institutions participated nationwide. Students from 10 Colorado colleges and universities participated.

### Top Colorado Individual Winners (and Coaches)

- (1) **Andrew Scacco**, CU-Boulder (Profs. Keith Kearnes and Alexander Gorokhovskiy)
- (2) **Lung Li**, Colorado College, Colorado Springs (Prof. Mike Siddoway)
- (3) **Andrew Jewett and Stephen Lewis**, CU-Boulder (Profs. Kearnes and Gorokhovskiy); **Ben Joeris**, CSU, Fort Collins, (Prof. Justin Sawon); and **Rachel Miller**, Colorado School of Mines, Golden (Dr. David Larue).