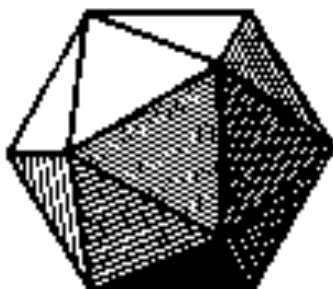


2009 Colorado Mathematics Awards

**The 14th annual reception to recognize outstanding performance
in national and international mathematics competitions
by Colorado middle school, high school, and undergraduate college students.**



Tuesday, May 12, 2009

4:30 – 7:00 p.m.

**Grant-Humphreys Mansion
770 Pennsylvania Street
Denver, Colorado**

Program

4:20 – 5:00

Refreshments

5:00 – 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: The Honorable Barbara O'Brien, Lieutenant Governor of Colorado

Presentation of Awards

- American Mathematics Contest 8 and Edyth May Sliffe Award recipient, Mr. Matt Bixby, Challenge School: Mr. Howard Selbst, Falcon Creek MS, 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 Richard Grassl, University of Northern Colorado, 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
CMA Steering Committee

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); Craig Bannister, Governor's Office, Judy Lerner Catering, Butler Rents, Sam's Club, and King Soopers. **Pictures of students and teacher-coaches at:** <http://cma.coloradomath.org>.

Contributions and other expressions of support for the Colorado Mathematics Awards (CMA) annual ceremony may be sent to: FLC Foundation, 1000 Rim Drive, Durango CO 81301. Please write Colorado Math Awards on the memo line.

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 2008, nearly 150,000 students from 2,300 schools nationwide participated in the AMC 8. In Colorado, more than 1,500 Colorado students from 30 schools participated.

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

- (1) **Julian Cannon**, Challenge School, Denver (Matt Bixby and Rich Morrow) **A perfect paper!**
- (1) **Kevin Chen**, Summit Middle Charter School, Boulder (Blair Tyse) **A perfect paper!**
- (3) **Matthew Blaylock**, Littleton Academy, Littleton (Tanya Sperry)
- (3) **Albert Soh and Jesse Zhang**, Summit Middle Charter School, Boulder (Ingrid Fotino)

Honorable Mention (and Coaches)

Tori Chen, Max Rosenthaler and Benjamin Myers, Campus Middle School, Greenwood Village, (Michael Nutter and Sandra Evans); **Kyle Christensen and Alex Newhouse**, Summit Middle Charter School, Boulder (Blair Tyse); **Kyle Lund**, Southern Hills Middle School, Boulder (Denise Pearman-Johnson); **Robert Nelson, Ashley Qiang, Victoria Rowe, and Katy Su**, Challenge School, Denver (Matt Bixby and Rich Morrow); **Andrew Ross**, Peak to Peak Charter School, Lafayette (Anita Chakraborty-Spotts). **Zhang was the top student in 6th grade or below who took the AMC 8 exam.**

MATHCOUNTS

MATHCOUNTS is an after school program for 6th, 7th, and 8th 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. Approximately 42,000 students from 6,000 schools participated in competitions across the country in 2008-2009, including nearly 1,000 students from 145 Colorado schools. The national MATHCOUNTS competition was held in Orlando, Florida this year on May 7-10.

First Place Colorado Team (and Coaches)

Kevin Chen, Kyle Christensen, Albert Soh, and Jesse Zhang; Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang).

Colorado MATHCOUNTS Team (and Coaches)

Albert Soh (1) and **Jesse Zhang** (2), Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang). **Logan Brock** (3), Powell Middle School, Littleton (Beth Darnick); **Julian Cannon** (4), Challenge School, Denver (Rich Morrow). Team Coach: Silva Chang. **This year's team placed 24th in the national competition.**

Honorable Mention (and Coaches)

Bill Huang, The Manning School, Golden (Cathy Goodnow); **Jacob Imola**, West Middle School, Greenwood Village (Vicki Timm); **Jay Kranzdorf**, Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang); **Shawn Ong**, The American Academy, Lone Tree (Diane Veazie); **Victoria Rowe**, Challenge School, Denver (Rich Morrow); and **Sawyer Vaughan**, Stargate School, Thornton (Tim Stafford).

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 2009 national participation rates were 104,000 students from nearly 3700 schools, and 117,000 students from more than 4,100 schools, in AMC 10 and 12, respectively. Colorado's participation: nearly 1,000 students from 47 schools (AMC 10) and more than 1,100 students from 53 schools (AMC 12).

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

- (1) **Ben Alpert**, Fairview High School, Boulder (Del Ebadi and Lori Johnson) **A perfect paper!**
- (2) **Thomas Scheevel**, Fruita Monument High School (Tim Graus)
- (2) **Charles Xu**, Fairview High School, Boulder (Del Ebadi and Lori Johnson)

AMC 10--Honorable Mention (and Coaches)

Alex Black, Chris Guthrie, and Nicolas Ledru, Fairview High School, Boulder (Del Ebadi and Lori Johnson); **Allan Gardner**, St. Mary's High School, Colorado Springs (Doug James); **Tae Kim and Connie Liu**, Cherry Creek High School, Greenwood Village (Mike Nutter); **Albert Soh and Jesse Zhang**, Summit Middle Charter School, Boulder (Ingrid Fotino); **Hye Rhim Suh**, Heritage Christian Academy, Fort Collins (Gary Wright); and **Heli Wang**, D'Evelyn Jr/Sr High School, Denver (Carolyn Schranz). **Soh, a 7th grader, was the top student in grade 8 or below who took the AMC 10 exam. Zhang is a 6th grader.**

AMC 12—First Place Colorado Team (and Coaches)

Ben Alpert, Catherine Chen, and Charles Xu, Fairview High School, Boulder (Del Ebadi and Lori Johnson)

AMC 12—Top Colorado Individual Winners (and Coaches)

- (1) **Ben Alpert**, Fairview High School, Boulder (Del Ebadi and Lori Johnson) **Alpert is a 10th grader.**
- (2) **Scott McClary**, Fort Morgan High School (Kevin Rhode)
- (2) **Michael Morton**, Rangely High School (Carol Morton)

AMC 12—Honorable Mention (and Coaches)

Li Ding, David Wu, and Bruce Zheng, Cherry Creek High School, Greenwood Village (Mike Nutter); **Allan Gardner**, St. Mary's High School, Colorado Springs (Doug James); **Kyle Geysler**, Douglas County High School, Castle Rock (Jodene Kissler); **Margaret Koehler**, Lewis-Palmer High School, Monument (Kathleen Thirkell); **Hunter Sceats**, Cheyenne Mountain High School, Colorado Springs (Nick Gagliardi); **Thomas Scheevel**, Fruita Monument High School (Tim Graus); **Amber Verser**, Thompson Valley High School, Loveland (Bryan Eisele); and **Charles Xu**, Fairview High School, Boulder (Del Ebadi and Lori Johnson).

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. The exam is administered in school six weeks after the AMC 10 and 12 exams to students achieving Honor Roll status on the AMC 10 or 12 exams. In 2009, more than 10,000 students nationwide took the AIME, including 56 students from Colorado.

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 to be held this July in Bremen, Germany. Four students from Colorado were among the 486 nationally who qualified to write the 2009 USAMO:

Qualifying Students for the USAMO (and Coaches)

Ben Alpert, Chris Guthrie, and Charles Xu, Fairview High School, Boulder (Del Ebadi and Lori Johnson); and **Michael Morton**, Rangely High School (Carol Morton).

American Regions Mathematics League

In 2008, 1900 students from six countries and 34 states formed 127 fifteen-member teams to compete at the national ARML competition. The Colorado team placed 5th in the Western Division and 17th nationally. **Thomas Davids** of Fairview HS placed 9th in individual competition in 2008. This year's team members are listed below.

Ben Alpert, Alex Black, Catherine Chen, Chris Guthrie, Charles Xu, and Mutian Yao, Fairview HS, Boulder; **Hunter Chase**, Alexander Dawson School, Lafayette; **Allan Gardner**, St. Mary's HS, Colo. Springs; **Nathan Hatch and Winston Howe IV**, Rocky Mountain HS, Fort Collins; **Scott McClary**, Fort Morgan HS; **Kyle Mordan**, Cherry Creek HS, Greenwood Village; **Michael Morton**, Rangely HS; **Thomas Scheevel**, Fruita Monument HS; **Shuli Song**, Classical Academy, Colo. Springs; and **Kevin Xie**, Douglas County HS, Castle Rock. Coach: Silva Chang.

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 2009, solutions were submitted by 1675 teams from 14 countries, including 350 teams from the U.S. **Only nine teams worldwide were Outstanding, including the University of Colorado-Boulder team!** They also garnered the INFORMS prize. Eleven teams from 5 Colorado colleges and universities participated.

Top Colorado Team (and Coach)—Worldwide OUTSTANDING Ranking and INFORMS Prize winners

Anil Damle, Anna Lieb, and Colin Peterson, CU-Boulder (Prof. Anne Dougherty)

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 2008 more than 3,600 students from 545 institutions participated nationwide. Students from 10 Colorado colleges and universities participated.

Top Colorado Individual Winners (and Coaches)

- (1) **Marshall Carpenter**, CU-Boulder (Professors Alexander Gorokhovskiy, Keith Kearnes, and Sergei Kuznetsov)
- (2) **Andrew Scacco**, CU-Boulder (Professors Alexander Gorokhovskiy, Keith Kearnes, and Sergei Kuznetsov)
- (3) **Brian Shourd**, Univ. of Northern Colorado (Professor Steven Leth)