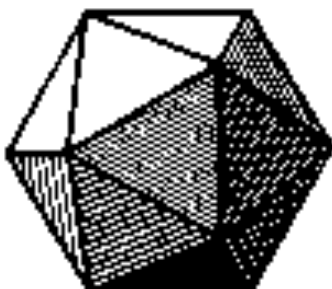


2010 Colorado Mathematics Awards

**The 15th annual reception to recognize outstanding performance
in national and international mathematics competitions
by Colorado middle school, high school, and undergraduate college students.**



Tuesday, April 27, 2010

4:15 – 7:00 p.m.

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

Program

- 4:15 – 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: Ms. Melissa Colman, Assistant Director of Academic Initiatives and Support Content Specialist for Mathematics, Colorado Department of Education**
- Presentation of Awards:**
- **American Mathematics Contest 8:** presented by Mr. Howard Selbst, Falcon Creek MS, Aurora, and Colorado AMC 8 Director
 - **MATHCOUNTS:** presented by Mr. Paul Gulman, Professional Engineers of Colorado, and Ms. Noelle Cochran, Co-Chairs, 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 Dr. Gibbs
 - **Rocky Mountain MAA Section Burton W. Jones Distinguished Teaching Award recipient, Professor Eric Stade from the University of Colorado—Boulder:** recognized by Dr. Gibbs
 - **William Lowell Putnam Mathematical Competition:** presented by Dr. Gibbs
- 6:30 – 7:00 **Refreshments**

Contributors

Patrons (\$500 - \$999): American Mathematics Competitions

Supporters (\$100 - \$499): CH2MHill, CMA Steering Committee, Professional Engineers of Colorado, and the 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 and Tyler Smith, Governor's Office; and Judy Lerner Catering.

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.

Pictures of students and teacher-coaches may be viewed at: <http://cma.coloradomath.org>.

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 2009, nearly 150,000 students from 2,372 schools nationwide participated in the AMC 8. In Colorado, more than 1,500 Colorado students from 31 schools participated.

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

- (1) **Albert Soh**, Summit Middle Charter School, Boulder (Ingrid Fotino)
 - (1) **Jesse Zhang**, Southern Hills Middle School, Boulder (Denise Pearman-Johnson)
 - (3) **Shawn Ong**, American Academy Charter School, Castle Pines (Diane Veazie)
 - (3) **Lawrence Zhang**, Summit Middle Charter School, Boulder (Ingrid Fotino)
- Top 6th grade student: **Angela Song**, Mountain Ridge Middle School, Colorado Springs (David Brunelle).

Honorable Mention (and Coaches)

Sean Backes, D'Evelyn Jr/Sr HS, Denver (Kiki LeBlanc); **Gregory Bridges**, Leshar Junior HS, Ft. Collins (Janice Martinez); **Nina Brown**, Southern Hills MS, Boulder (Denise Pearman-Johnson); **Ariel Hippen**, Peak to Peak Charter School, Lafayette (Anita Chakraborty-Spotts); **Christopher Hoyt** and **Jeffrey Li**, Challenge School, Denver (Rich Morrow); **Alex Iverson**, Liberty Commons Charter School, Ft. Collins (Torgun Lovely); **Zachary Lamb**, Altona MS, Longmont (Lauren Rider); **Thomas Leing**, Family Academy of Christian Education, Westminster (Cindy Naylor); **Calvin Lietz**, Summit Middle Charter School, Boulder (Ingrid Fotino); **Susan Niederhoff**, Falcon Creek MS, Aurora (Howard Selbst); **Liqian Peng**, Mountain Ridge MS, Colo. Springs (Kirsten Burda), and **Angela Song**, Mountain Ridge MS, Colo. Springs (David Brunelle).

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 2009-2010, including 956 students from 139 Colorado schools. The national MATHCOUNTS competition will be held May 6-9 at Disney World in Orlando, Florida.

First Place Colorado Team (and Coaches)

Jay Kranzdorf, **Albert Soh**, **Rose Wang**, and **Lawrence Zhang**, Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang).

Colorado MATHCOUNTS Team (and Coach)

Albert Soh, Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang); **Jesse Zhang**, Southern Hills Middle School, Boulder (Denise Pearman-Johnson); **Shawn Ong**, American Academy Charter School, Lone Tree (Diane Veazie); and **Robert Spofford**, Goddard Middle School, Littleton (Shannon Anderson). Team Coach: Silva Chang.

Honorable Mention (and Coaches)

John Halliday and **Zach Segall**, Logan School, Denver (Joel Sadler); **Jacob Imola**, West Middle School, Greenwood Village (Joanne Parkhouse); **Angela Song**, Mountain Ridge Middle School, Colorado Springs, (Christine Draper); **Riley Xu**, Eldorado K-8 School, Superior (Pam Brenner); **Lawrence Zhang**, Summit Middle Charter School, Boulder (Tom Seibel and Silva Chang).

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 2010 national participation rates were approximately 100,000 students from nearly 3700 schools, and 118,000 students from more than 4,000 schools, in AMC 10 and 12, respectively. Colorado's participation rates: 756 students from 45 schools (AMC 10) and 831 students from 49 schools (AMC 12).

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

- (1) **Albert Soh**, Summit Middle Charter School, Boulder (Ingrid Fotino)
 - (2) **Yunyu Lin**, Summit Middle Charter School, Boulder (Ingrid Fotino)
 - (3) **Alex Black**, Fairview High School, Boulder (Del Ebadi and Lori Johnson)
- Top 8th grade student: **Albert Soh**

AMC 10--Honorable Mention (and Coaches)

William Conway, **Nicolas Ledru**, and **Haorui Zhang**, Fairview HS, Boulder (Del Ebadi and Lori Johnson); **Yujie Huang**, Lakewood HS (James Buck); **Tae Kim**, Cherry Creek HS, Greenwood Village (Mike Nutter); **Kevin Xie**, Douglas County HS, Castle Rock (Jodene Kissler); and **Jesse Zhang**, Southern Hills MS, Boulder, (Denise Pearman-Johnson)

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) **Charles Xu**, Fairview High School, Boulder (Del Ebadi and Lori Johnson)
 - (2) **David Wise**, The Classical Academy, Colorado Springs (Lisa Willoughby)
 - (3) **Hunter Chase**, Alexander Dawson School, Lafayette (Todd Thompson)
 - (3) **Chris Guthrie**, Fairview High School, Boulder (Del Ebadi and Lori Johnson)
 - (3) **Connie Liu**, Cherry Creek High School, Greenwood Village (Mike Nutter)
- Top 10th grade student: **William Conway**, Fairview HS, Boulder (Del Ebadi and Lori Johnson)

AMC 12--Honorable Mention (and Coaches)

Ben Alpert, Fairview HS, Boulder (Del Ebadi and Lori Johnson); **Allan Gardner**, Air Academy HS, Colo. Springs, (Cheryl Laslo); **Sam Hsu**, Heritage HS, Littleton (Abbie Wade); **Margaret Koehler**, Lewis-Palmer HS, Monument (Kathleen Thirkell); **Tom Roberts**, Arapahoe HS, Centennial (Carol Blechschmidt and Monica Lobser); and **Alex Wu**, Cherry Creek HS, Greenwood Village (Mike Nutter).

American Invitational Mathematics Examination and the USA Math Olympiads

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 2010, nearly 10,000 students nationwide took the AIME, including 57 students from Colorado.

The *USA Math Olympiad* and the *USA Junior Math Olympiad* are 9-hour 6-question essay examinations given to the top 500 students participating in the AMC 10 and 12 exams and the AIME. The top 6 USAMO students will comprise the USA team at the International Mathematical Olympiad to be held in Astana, Kazakhstan. Seven Colorado students are writing the USA Olympiad exams in 2010:

USA Math Olympiad qualifiers: **Ben Alpert** and **Charles Xu**, Fairview High School Boulder (Del Ebadi and Lori Johnson) **Hunter Chase**, Alexander Dawson School, Lafayette (Todd Thompson); and **David Wise**, The Classical Academy, Colorado Springs (Lisa Willoughby).
USA Junior Math Olympiad qualifiers: **Alex Black**, Fairview High School, Boulder (Del Ebadi and Lori Johnson); **Albert Soh**, Summit Middle Charter School, Boulder (Ingrid Fotino); and **Jesse Zhang**, Southern Hills Middle School, Boulder (Denise Pearman-Johnson).

American Regions Mathematics League

In 2009, 2,200 students from 37 states and nine other countries formed 150 fifteen-member teams to compete at the national ARML competition. The Colorado team placed 7th in the Western Division and 28th nationally. This year's team members are listed below.

Ben Alpert, Alex Black, Catherine Chen, Eric Eisenberg, Chris Guthrie, and Charles Xu, Fairview HS, Boulder; **Hunter Chase**, Alexander Dawson School, Lafayette; **Allan Gardner**, Air Academy HS, Colo. Springs; **Nathan Hatch**, Rocky Mountain HS, Ft. Collins; **Scott McClary**, Ft. Morgan HS; **Thomas Scheevel**, Fruita Monument HS; **Albert Soh**, Summit Middle Charter School, Boulder; **David Wise**, The Classical Academy, Colo. Springs; **Kevin Xie**, Douglas Co. HS, Castle Rock; **Jesse Zhang**, Southern Hills MS, Boulder. **Coach:** Silva Chang, Boulder.

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 2010, solutions were submitted by 2,254 teams from 14 countries, including 358 teams from the U.S. **Only nine teams worldwide were Outstanding, including the University of Colorado-Boulder Team B!** They also garnered the MAA prize. Nine teams from 7 Colorado colleges and universities participated.

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

Eric Benzel, Anil Damle, and Colin West, 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 2009 more than 4,000 students from 546 institutions participated nationwide. Students from nine Colorado colleges and universities participated.

Top Colorado Individual Winners (and Coaches)

- (1) **Lung Li**, Colorado College, Colorado Springs (Prof. Stefan Erickson)
- (2) **Jesse Drendel**, Colorado State University, Fort Collins, (Prof. Justin Sawon)
- (3) **Robert Fornia**, Univ. of Colorado – Boulder, (Profs. Alexander Gorokhovskiy, Keith Kearnes, and Sergei Kuznetsov)