



Spring 2007 Newsletter

Section Website <http://www-math.cudenver.edu/~maa-rm>

Spring 2007 Newsletter in HTML Format

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Table of Contents

Spring 2007 Newsletter in HTML Format	1
Table of Contents	2
2006 - 2007 Section Officers and Committee Members	4
2008 Distinguished Teaching Award Call for Nominations	5
Chair's Report	5
Governor's Report	6
Section Officer's Meeting Report	7
Section News	8
Arapahoe Community College	8
South Dakota School of Mines and Technology	8
University of Northern Colorado	8
University of Wyoming	8
NSF Research Experiences for Undergraduates (REU) in Hong Kong	9
Colorado Mathematical Association of Two-Year Colleges Meeting	9
Colorado Association for Developmental Education Meeting	9
Response to Certificate of Meritorious Service Award	9
AAUP Statement of Academic Freedom	10
Nominees Sought	11
Nominees for Section Vice Chair	11
The Year of Euler	11
4th Annual Pikes Peak Regional Undergraduate Mathematics Conference	12
CSU - Pueblo to Host 2007 Meeting	15
About Our Featured Speakers	16
Invited Addresses	17
Workshop: A Hands-On Tour of the MAA Digital Library	18
Second Call for Papers	19
Preliminary 2007 Meeting Schedule	20
Mathematics Awareness Month Undergraduate Poster Session Contest Rocky Mountain Section Meeting, April 13 - 14, 2007	21
Attention Math Students!!!	22
Student Registration and Speaker Form	23
Speaker Response Form – Due February 24, 2007	24
MAA ROCKY MOUNTAIN SECTION REGISTRATION FORM	25
Meeting Accommodations, Directions and Maps	26
MAA Rocky Mountain Section Suggestions for Speakers	28
Grants Available	29
Section Activity Grants Available	29
Student Recognition Grants Available	29
Section Logo Shirts Available	29
About Our Logo	30
Meetings Calendar	30
Burton W. Jones Award Nomination Form	31

Voluntary Section Dues	32
MAA Rocky Mountain Section Voluntary Dues Contribution Form	32
MAA Rocky Mountain Section Mission Statement	33

2006 - 2007 Section Officers and Committee Members

Section Website <http://www-math.cudenver.edu/~maa-rm>

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Section Nominating Committee

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2008 Distinguished Teaching Award Call for Nominations

Each year, the section recognizes one outstanding teacher of collegiate mathematics with an award named in honor of Burton W. Jones, a life long advocate of excellence in teaching at all levels. In addition to an honorarium, a certificate and an invitation to deliver the opening lecture at the next Section Meeting, the recipient becomes the section's nominee for the Deborah and Franklin Haimo Awards for Distinguished College or University Teaching of Mathematics. These national awardees (at most three) are honored at the MAA winter meeting with a certificate and \$1000 check. All nominators also receive a certificate of in recognition of their efforts to support the section mission of promoting excellence in teaching; nominators and nominees both receive free meeting registration at the next section meeting. To begin the nomination process for an outstanding teacher that you know, simply submit the **one-page nomination form** (available at our website: <http://www-math.cudenver.edu/~maa-rm> and in this newsletter) by **1 December 2007**. **Complete nomination materials** (described on the website) are due **30 January 2008**.

Chair's Report

As I come to the end of my term as Chair of MAA RMS, I want to say what an honor it has been to serve and I thank all of our members for the learning and professional growth afforded to me by this experience. I am more committed than ever to the mission and ideals of the MAA. The Executive Committee and others who have been actively involved in the section have made my job easy, and I am excited about some of the recent programs that will continue as **Mike Brilleslyper** (United States Air Force Academy) begins his term as Chair directly after our April section conference in Pueblo.

Recently, the Executive Committee has increased its focus on student involvement in sections activities. To this end, **Kyle Riley** (South Dakota School of Mines and Technology)

has implemented several programs in his role as Student Activities Coordinator. Of note is the student poster contest at the section conference. **Carl Lienart** (Fort Lewis College) will be managing this year's contest. Carl is also arranging a student bowling activity for Friday evening at the conference. Although the event is designed as an activity for students, faculty and friends who would like to participate are welcome. Another student activity is a parallel session where graduate students can present a talk on their current research. **Hortensia Soto-Johnson** (University of Northern Colorado) is organizing this session with the goal of generating more graduate student participation.

Regrettably, other responsibilities require that Kyle step down as MAA RMS Student Activity Coordinator following this academic year. If you are or anyone you know is interested in serving in this important role, please contact any member of the Executive Committee.

The annual Section Conference at the University of Colorado-Pueblo promises to be a grand affair. The conference Co-Chairs, **Janet Barnett** and **Janet Nichols** (both from the University of Colorado-Pueblo) are organizing the conference around a theme "Celebrating Euler's 300th Birthday." See a related article in this newsletter for more information on the details of the conference and please make plans to join us. Also please mark your calendars for the 2008 Conference hosted by Black Hills State University in Spearfish South Dakota. The exact dates which have yet to be determined should be sometime in April of 2008.

As I report in the fall 2006 newsletter, <http://clem.mscd.edu/~sundbyel/maanews/fall2006news.pdf>, I have been working with **Bill Briggs** (University of Colorado at Denver) and **Karen Walters** (Arapahoe Community College) to establish a system to allow presenters at the Rocky Mountain Section conferences to post presentation material on the section website. If successful, this system will allow the section to begin to develop a more detailed history of section conference activities. We are planning on testing the system in Pueblo. Anyone that intends to present a talk at this meeting can indicate what material they would like to post when they submit their speaker response form. **Janet Barnett** janet.barnett@colostate-pueblo.edu will be collecting electronic copies of material to be posted until shortly after the meeting.

Posting presentation material is part of a larger goal of expanding the content on the section website. I intend to collect, organize, and post more section historical information. Although a kitchen remodel during the 2006-2007 ice age has prevented me from devoting the time I have wanted, this project is progressing. I intend to continue work on this project in my term as past chair. Please give me any of your thoughts or ideas and any information you might have that would be helpful as I work on this project. A side benefit of this project would be to assemble a section history report requested by the national office in preparation for the 100th year anniversary of the MAA in 2015.

Finally, I was fortunate to be able to attend the Joint American Mathematical Society/Mathematical Association of America meeting in New Orleans, Louisiana in January. Once again I was impressed by the presence of the MAA RMS at this meeting. I ran into **Bill Briggs** (University of Colorado at Denver) at the exhibits and it was nice to catch up with him. I continue to be impressed with how involved Bill is both nationally and regionally. I had a very enjoyable conversation with **Graeme Fairweather** (Colorado School of Mines) and **Barbara Moskal** (Colorado School of Mines). Graeme told me about an exciting and interesting arrangement in Mathematics Education between Colorado School of Mines and Colorado Christian University. Be sure to ask him about it when you see him. I am looking forward to Barbara's invited address in Pueblo as the 2006 Burton W. Jones Distinguished Teaching Award recipient. I was delighted to have lunch with **Jane Arledge** (Mesa State University), **Janet Barnett** (Colorado State University – Pueblo), and **Hortensia Soto-Johnson** (University of Northern Colorado) where in addition to enjoying each others' company we also conducted some section business. I attended a few of the talks from a parallel session co-organized by **Philip Gustafson** (Mesa State College) for the Business Industry and Government (BIG) Special Interest Group of the Mathematical Association of America (SIGMAA). **George Hiene** (Bureau of Land Management) gave a talk entitled, "Statistics to Detect Danger Underground" in that session that was well attended and interesting. I had a fun night on the town with **Patricia Mckenna** (Metropolitan State College of Denver), **David Ruch** (Metropolitan

State College of Denver) and **Norman Lemay** (Arapahoe Community College) listening to local music and taking in the local flair. I am sure there were others there that I missed, but I encourage all of our members to stay active in both the national and section organizations.

I look forward to seeing everyone in Pueblo!

Respectfully submitted,

Jeffrey V. Berg, Arapahoe Community College; Chair, Rocky Mountain Section

Governor's Report

The Board of Governors met in New Orleans all day Thursday, January 4, before the AMS/MAA Joint Meeting. I will share with you some of the highlights.

The MAA is going through a strategic planning process, which includes three cycles:

The Cycle I working groups reported the following.

- **AMC:** There will no longer be state Directors of the contest; these will be replaced with volunteer "links." Some of the goals to enhance participation in the AMC include: having more "fun" stuff, giving teachers personal contact, increasing awareness of the AMC, and maybe giving one standard-date test and one "floating-date" test (the test would be less secure, but more flexible). There is a desire to have more diversity in the participants. Perhaps a data box for the test-takers will be included on the exam, which will allow us to collect data on minority status and gender, providing clear information about the participant pool; also, the cost for taking the exam might be defrayed. Finally, there will be a new AMC EZ, a free electronic sample AMC exam, which we hope will be available sometime this spring.
- **Professional Development:** Recommendations from the working group including more opportunities in conjunction with section meetings, more use of the Carriage House (supplementing boarding costs through cooperative arrangements in D.C.), development of online programs, use of SIGMAAs, and joint programs with other professional societies.
- **Revenue:** The MAA is in good financial shape. Hortensia Soto-Johnson is in this

working group, and can answer any specific questions you may have.

The Cycle II working groups reported the following.

- STEM: There is not enough progress in increasing STEM (Science, Technology, Engineering and Mathematics) students. See "Rising of the Gathering Storm" (you will find this congressionally-requested report, generated by the National Academy of Sciences, National Academy of Engineering, and Institute of Medicine, at

http://help.senate.gov/Education_index.html

- Budget: There was discussion about the ongoing revamping of the MAA membership fee structure. Among other changes, the retiree rate was increased, as it was over-discounted (an error in the computation) the last time the fees were adjusted.

Other information from the meeting includes the following:

- The New Orleans meeting was the largest in history. There is a change in dates in the 2013 JMM (for those of you who have already mapped the next 6 years on your calendar).
- New Tensor-SUMMA funding will include approximately twelve \$6000 grants to faculty members working with enrichment programs for middle school, high school, or first-year college underrepresented groups. See <http://www.maa.org/programs/tensor-summa.html>.
- There are National REU (NREU) programs, for underrepresented students, funded from a new NSF grant for June 2006 through May 2009. Twelve programs were supported in the summer of 2006. See <http://www.maa.org/nreup> for more information.
- The MAA is searching for the position of editor of the College Mathematics Journal.
- The MAA is working on a web-based reporting mechanism for the section secretaries.

As always, the MAA is looking for eager participation at the national level. Please contact me if you are interested in contributing in this way, or if you have any questions.

Respectfully submitted,

**Jane Arledge, Mesa State College;
Governor, Rocky Mountain Section**

Section Officer's Meeting Report

The section officer's meeting at the Joint Math Meeting in New Orleans, Louisiana was held on January 5, 2007. Below are the highlights:

1) A new model for sections' bylaws was approved at the Board of Governors meeting on 1/4/07. The model includes a ten-year rotation for amending section bylaws and allows for a less formal process for some changes such as modifications to officer responsibilities.

2) For national statistics, participants at section meetings are encouraged to complete check-off boxes for MAA member, two-year college faculty, four-year college/ university faculty, high school teacher, business/ industry/ government, undergraduate student, graduate student on section meeting registration forms.

3) Focus groups at the August 2006 section officer meeting identified section concerns dealing mainly with communication within the organization. **Nancy Hagegans**, Chair Committee of Sections, presented information and led a discussion pertaining to the section officer list-serve, membership on national committees, and national MAA leadership participation in meetings of their home sections.

Several national directors and officers presented the following information:

1) MAA Executive Director, **Tina Straley**, indicated that a new Director of Publications will be identified shortly and that **Robert Vallin**, Slippery Rock University, will serve in the recently established Director of Student Activities position.

2) **Joe Gallian**, President-elect, said he was excited as he begins his term as President.

3) **John Kenelly**, Treasurer, gave financial information about the organization.

4) **Elgin Johnston**, Chair of the Committee on American Mathematics Competitions reported that the MAA American Mathematics Competitions currently administers exams to about 400,000 students. Professor Johnston requested help with 1) publicity, 2) exam administration, and 3) exam creation. Please contact Professor Elgin Johnston (ehjohnst@iastate.edu) for more information.

The meeting closed with focus group discussions on student involvement in section activities.

Respectfully submitted,
**Jeffrey V. Berg, Arapahoe Community
College; Chair, Rocky Mountain Section**

Section News

Arapahoe Community College

Debbie Grant has joined the Mathematics Faculty at Arapahoe Community College. Debbie received her undergraduate degree in Accounting from SMU in Texas. She worked as a finance director in the Denver Metro area for a while. Her husband encouraged her to take Calculus I. She took it at UCD. She knew that Bill Briggs was teaching Calc II, so she took that. Bill encouraged her to continue on for a graduate degree, which she did. She received a Masters in Discrete Mathematics in 1998. Through Jeff Berg, she heard about ACC where she started working as an Adjunct. Debbie and her husband have two sons. She enjoys quilting and has her on private accounting business.

South Dakota School of Mines and Technology

Jeff McGough was awarded a grant from the NASA South Dakota Space Grant Consortium to redesign the introduction to computer programming course. The new curriculum design is going to include the use of robots to help motivate programming projects and inspire students. Most of the money will go towards the purchase of the necessary hardware and the renovations to the computer lab that will be used for this course. Another significant change is the university Tablet PC program, Tablet PCs are hybrid machines that combine the written note taking capability of tablets with the computing power of the laptop. This year, all full-time freshmen are required to lease a Tablet PC for a three year program and the machine has been required for a variety of the first year courses, with Calculus being one of the Tablet courses. The program is designed to phase in over the next three years until all full-time undergraduate students will be involved in the lease program.

University of Northern Colorado

The first round of the UNC statewide Mathematics contest for secondary students in grades 7-12 was held November 4, 2006. Over

1800 students from throughout the state participated. About 200 of these will be coming to UNC on Saturday February 3, 2007 for the Final Round. The top 25 winners will be honored, along with their parents, at a banquet April 1, 2007. **Richard Grassl** has been instrumental in these efforts.

The University of Northern Colorado is the lead institution for a new FIPSE-funded endeavor: *Video Cases for College Mathematics Instruction*. In addition to UNC, the multi-institutional project includes senior personnel from Michigan State, the University of Texas, St. Mary's College of Maryland, Georgia State, and California State University, Long Beach. As Project Director Shandy Hauk explained, "our goal is to produce a book-DVD package by 2009. The book-DVD will be published by CBMS and will have video vignettes captured from actual college mathematics practice along with case-use guides and supporting materials focused on the professional development of novice college mathematics instructors." The materials, essays, and activities that go with video vignettes will support reflection on, inquiry into, and implementation of effective instruction in undergraduate mathematics classes. The first round of materials will be developed in 2007 and field-tested in 2008.

The video case materials will be useful in many settings: as the core of a college mathematics teaching course, as a portion of an established program for improving collegiate mathematics instruction, or as occasional enhancement to a college teaching seminar or discussion group. See

<http://hopper.unco.edu/videocases>

for more information or contact **Shandy Hauk**, hauk@unco.edu.

Igor Szczyrba became a Research Enrichment & Development Initiative (REDI) fellow this year.

University of Wyoming

On Thursday, March 29th, the University of Wyoming, in conjunction with the American Mathematics Society, will host the game Who wants to Be a Mathematician. In this game high school students compete for cash and prizes totaling over \$2000 by answering multiple choice mathematics questions. The cash prize in each game is donated by the AMS. Other prize donors are: Maplesoft Inc., Texas Instruments, and John Wiley & Sons. Please visit

<http://www.ams.org/wwtbam/> to see videos of past game shows. A recent such contest at the University of Hawaii attracted over 100 high school students.

In addition to the game show, contestants will be treated to a lecture by Professor Ken Ono, Manasse Professor of Mathematics at the University of Wisconsin-Madison. This lecture will describe the amazing life and work of the remarkable mathematician Srinivas Ramanujan (1887-1920). Interested? You can contact Siguna Muller (smuller@uwyo.edu).

The Student Math Association of Wyoming (our local MAA student chapter) had an interesting fall semester. Their main project, a fundraiser for the club, was to proofread and comment on one chapter of the solutions manual for a calculus book from a major publisher. The editor was very pleased with their work and their error-finding abilities; he is planning to come and talk to them about technical publishing this semester. They also had some interesting talks from UW faculty. More exciting events are planned for the spring.

This summer's Rocky Mountain Mathematics Consortium Summer School at UW is on Flow in Porous Media with Emphasis on Modeling Oil Reservoirs. The RMMC summer school gives graduate students and faculty a chance to learn about a new area mathematics, in a two-week workshop setting. Money is available to help with expenses for both faculty and graduate students, and you can also get graduate course credit. The dates are June 18-29 2007; more information is available at <http://www.uwyo.edu/rmmc>.

Is news from your school missing?

Send your news to your department liaison now with a request to forward it to the Linda Sundbye, Newsletter Editor for inclusion in the next issue.

NSF Research Experiences for Undergraduates (REU) in Hong Kong

The second U.S.-Hong Kong REU in Numerical Analysis and Scientific Computing with Applications in Applied Science and Engineering, organized by the Department of

Mathematical and Computer Sciences at Colorado School of Mines, will be held from May 28, 2007 until July 20, 2007. For details of the program and application materials, see <http://www.mines.edu/reu-mcs>

Last summer, four Colorado students participated in the program: Andrea Martinez of Regis University, Michael Gilbert of CSU at Pueblo, and, from Colorado School of Mines, Jonathan Maack and Chelsea Weitzel .

Colorado Mathematical Association of Two-Year Colleges Meeting

On Friday, March 2, the Colorado Mathematical Association of Two-Year Colleges will meet at the Community College of Denver. Topics for the sessions will include Best Practices in the Classroom, Assessment, Technology in the Classroom and General Classroom Topics. Contact Mary Sloan at mary.sloan@arapahoe.edu for more information.

*Mary Sloan,
Arapahoe Community College*

Colorado Association for Developmental Education Meeting

On Friday, April 20th, the Colorado Association for Developmental Education will meet in Grand Junction at the Western Colorado Community College. You can find more information at

<http://www.coade-colorado.org/calendar.html> or contact LaRonna Schoeter, lschroet@mesastate.edu

*Mary Sloan,
Arapahoe Community College*

Response to Certificate of Meritorious Service Award

Early in my professional career, it was my good fortune to be welcomed into the MAA

Rocky Mountain Section by the inspiring individuals who make our section such a vibrant organization. Since then, my time as a section member and officer has given me many wonderful opportunities for growth, laughter, friendship and learning. I thank the section and its membership not only for these opportunities, but for the honor of this Certificate of Meritorious Service and the faith in my abilities which it represents.

Janet Heine Barnett, CSU-Pueblo

AAUP Statement of Academic Freedom

The American Association of University Professors (AAUP) is a national organization open to all faculty, librarians, and academic professionals at two- and four-year accredited public and private colleges and universities. Recently, Colorado has become a testing ground for the limits of action and behavior by administrators, governing boards and the state legislature directly affecting academic freedom, curriculum and pedagogy. Last year a bill that would diminish tenure rights for faculty at public institutions of higher education in Colorado was narrowly defeated, due in large part to the efforts of the AAUP Colorado Conference. Recent situations where an individual faculty member has tested the bounds of academic freedom have also occurred; however, it appears that processes to protect tenure and academic freedom established by the AAUP have remedied those situations.

At the 2007 annual business meeting on April 14 in Pueblo the executive committee intends to present a motion to endorse AAUP's Statement of Principles on Academic Freedom and Tenure and to post the following information on its website.

Although the MAA-RMS has significant membership outside of Colorado, endorsement of this statement of principles would 1) document our principles, 2) guard against future legislative, governing body, and administrative action and dictates contrary to these principles and 3) send a regional and recent message from an academic area that is by nature known for sound judgment and direction.

Please carefully consider and come prepared to discuss and vote on this matter at the business meeting on April 14, 2007.

Proposed Statement

The American Association of University Professors was formed early in the twentieth century, as a response in part to the 1900 incident in which noted economist Edward Ross lost his job at Stanford University because of his views on immigrant labor and railroad monopolies. Within Colorado's history, conflicts involving academic freedom include a 1920 request by Governor Clarence Morley calling for the dismissal of all Catholics and Jews from the University of Colorado faculty and staff, and the 1951 dismissal of two non-tenured University of Colorado instructors during the McCarthy era. More recent controversies can also be cited.

From its inception, the American Association of University Professors has recognized that membership in the academic profession carries with it special responsibilities, and requires certain protections. In 1940, following a series of joint conferences begun in 1934, representatives of the American Association of University Professors and of the Association of American Colleges (now the Association of American Colleges and Universities) agreed upon a restatement of principles set forth in the 1925 Conference Statement on Academic Freedom and Tenure. This restatement is known to the profession as the 1940 Statement of Principles on Academic Freedom and Tenure.

The 1940 statement has become a recognized standard within the profession and by scholars on academic freedom; it begins as follows:

The purpose of this statement is to promote public understanding and support of academic freedom and tenure and agreement upon procedures to ensure them in colleges and universities. Institutions of higher education are conducted for the common good and not to further the interest of either the individual teacher or the institution as a whole. The common good depends upon the free search for truth and its free exposition.

Academic freedom is essential to these purposes and applies to both teaching and research. Freedom in research is fundamental to

the advancement of truth. Academic freedom in its teaching aspect is fundamental for the protection of the rights of the teacher in teaching and of the student to freedom in learning. It carries with it duties correlative with rights.

Tenure is a means to certain ends; specifically: (1) freedom of teaching and research and of extramural activities, and (2) a sufficient degree of economic security to make the profession attractive to men and women of ability. Freedom and economic security, hence, tenure, are indispensable to the success of an institution in fulfilling its obligations to its students and to society.

The full statement is available at www.aaup.org/AAUP/pubsres/policydocs/1940statement.htm

Mathematical organizations that have endorsed to date the statement include:

- Mathematical Association of America 1965
- American Mathematical Society 1967
- New York State Mathematics Association of Two-Year Colleges 1972
- Association for Women in Mathematics 1997

Respectfully submitted,

Jeffrey V. Berg, Arapahoe Community College; Chair, Rocky Mountain Section

Nominees Sought

Nominees for Section Vice Chair

Nominations are now being sought for the MAA Rocky Mountain Section vice-chairperson. This is a two-year position starting spring of 2007. Responsibilities include: acting as a contact with two-year and community colleges, attending all executive committee meetings, serving on the Program Committee, serving on the Distinguished Teaching Award Committee and serving on the Committee on Profession Linkages. Nominations should be sent to Gudryn Doherty at gudryn.doherty@ccd.edu. Elections will be held at the spring meeting at Colorado State University-Pueblo.

The Year of Euler

The MAA is celebrating the 300th anniversary of Leonhard Euler's birth.

Leonhard Euler, generally regarded as one of the greatest mathematicians of all time, was born in Basel, Switzerland in 1707. He made massive contributions to analysis, and worked in almost all branches of pure and applied mathematics. Euler died in 1783 in St. Petersburg, Russia.

For more information about Euler, visit:

- <http://www.EulerArchive.org>
- <http://www.EulerSociety.org>
- <http://www.Euler-2007.ch>

Special Euler Events:

- **Euler Study Tour**, July 1-14, 2007. Tour will visit Basel, Berlin, and St. Petersburg. More information at www.maa.org.
- Publication of the four volume *MAA Tercentenary Euler Celebration*
- MAA PREP Workshop: *The Genus of Euler* at the MAA Carriage House in Washington, D.C., June 18-22, 2007. More information at www.maa.org/PREP.

4th Annual Pikes Peak Regional Undergraduate Mathematics Conference

**United States Air Force Academy
Colorado Springs, CO
Saturday, February 24, 2007
8:30 am – 5:00 pm**

Overview: The PPRUMC is a one day conference designed to give undergraduate mathematics students the opportunity to present their work in a professional, supportive setting. It is also an occasion for students to become acquainted with other students from the region and to learn more about the mathematics profession, including graduate school and career opportunities. Students from throughout the Rocky Mountain section of the MAA are encouraged to attend and are especially encouraged to make a presentation at the conference. Presentation topics could include the results of classroom, independent study, REU or other research projects. Both research and expository topics are welcome. Student talks will be scheduled for 15 minute parallel sessions throughout the day.

The conference will also feature a keynote speaker, an opportunity to tour some of the Air Force Academy, and a buffet lunch in the Cadet dining facility (Mitchell Hall). There is no registration fee for the conference and lunch will be provided for students.

Travel: The Air Force Academy is located on the north side of Colorado Springs along Interstate 25 at exit #156 (north gate) or exit #150 (south gate). A valid ID is required for access to the Air Force Academy. Vehicles and their occupants are subject to search. Parking for PPRUMC will be in the parking lot for the Cadet Field House. A shuttle bus will transport occupants from the parking lot to Fairchild Hall for the conference. Participants who arrive when the bus is not running or who have difficulty accessing the Academy may contact one of the conference organizers at 719-200-7691 or 719-360-4521.

Participants traveling from outside the Colorado Springs region will be partially reimbursed for travel expenses. We anticipate some reimbursement for mileage and reimbursement for lodging for those traveling more than 2 hours each way.

There are numerous motels located just outside the south gate of the Academy.

- The Academy Hotel: 719-598-5770
- Red Roof Inn: 719-598-6700
- Drury Inn 719-598-2500
- Sleep Inn 719-260-6969

Schedule (Subject to change):

8:30 – 9:00	Registration
9:00 – 9:15	Welcome & Opening Remarks
9:20 - 10:05	Keynote Speaker: Dr. Dan Rudolph, Colorado State University
10:15-11:50	Parallel Sessions (15 minute presentations)
12:00-1:45	Lunch & Academy tour (optional)
2:00 - 3:00	Panel Presentation
3:15 - 4:50	Parallel Sessions (15 minute presentations)
5:00	Closing Remarks

Keynote speaker:

Dr. Dan Rudolph
Colorado State University

Title: *Chasing Rabbits: The Tale of an Undergraduate Mathematics Research Project.*

Abstract: Chasing Rabbits is a game that is meant to model the process of tracking and catching a randomly moving object. It is a rather boring game to play but quite interesting to model and analyze. We will play the game a little and I will describe the process two groups of undergraduates went through toward finding an optimal strategy for catching the rabbit. I will use this story as a backdrop for describing the wide range of career opportunities in the mathematical sciences.

Meeting updates and more information including detailed maps showing parking and an updated schedule may be found on the MAA Rocky Mountain Website at
<http://math.cudenver.edu/~maa-rm/>

Registration: Advance registration is highly encouraged, though same-day registration is possible. Please indicate your intent to attend no later than **February 22, 2007**. Electronic registration via email is desired, but the attached form may be printed and mailed to

Dr. Mike Brilleslyper
2354 Fairchild Drive Suite 6D124
USAF academy, CO 80840-6252

Electronic registration should be emailed to mike.brilleslyper@usafa.edu . Please include all the following information in electronic correspondence:

First Name: _____ Last Name: _____

School: _____ FACULTY STUDENT (circle one)

Address: _____

Phone: _____ E-mail: _____

Do you anticipate requesting reimbursement? MILEAGE LODGING (circle either or both)

Presenting? YES NO (circle one)

If you wish to give a presentation, please include the following information:

Title: _____

Faculty advisor: _____

Abstract (no more than 150 words):

More information including detailed maps showing parking and an updated schedule may be found on the MAA Rocky Mountain Website at <http://math.cudenver.edu/~maa-rm/>

Specific questions or comments may be sent to the conference directors:
Dr. Mike Brilleslyper mike.brilleslyper@usafa.edu or Dr. Beth Schaubroeck
beth.schaubroeck@usafa.edu. You may also call 719-333-9514.

Funding for the PPRUMC provided by NSF grant DMS-0536991 through the MAA Regional Undergraduate Conferences Program, www.maa.org

CSU - Pueblo to Host 2007 Meeting

What better time for a mathematics gathering than the weekend of the 300th anniversary of the birth of Leonhard Euler (1707-1783)? Mark your calendars now for the **Annual Meeting of the Rocky Mountain Section Annual** at **Colorado State University - Pueblo** on **13 – 14 April 2007** - and come prepared for a celebration!

Planning for the scientific meeting is progressing nicely. **Dr. Barbara Moskal** (Colorado School of Mines) will open the meeting with her Burton W. Jones Distinguished Teaching Invited Address *Assessing Mathematics: Historical Significance and Future Directions*. Our two other featured speakers will continue the historical theme. **Dr. Robin Wilson** (Open University, England) will deliver a Friday Keynote Address *Euler -- 300th anniversary lecture*. **Dr. Jim Tattersall** (Providence College) will deliver both the Friday Banquet Address *Vignettes in Number Theory*, and the Saturday Keynote Address, *The Early Lucasians*.

Other special program features include:

Friday Morning Workshop: A Hands-On Tour of the MAA Digital Library

Led by Metro's Linda Sundbye (sundbyel@mscd.edu), this workshop will provide participants with a hands-on tour of the wealth of online mathematical resources that are available through the MAA's Math Gateway project and MathDL. For more information about these incredible resources, see the workshop abstract. The workshop will take place on Friday morning, 9:30 - 11:30, prior to the official opening of the meeting. Registration is limited to 20 participants; the registration fee is \$5 per person.

Panel Discussion: Math Job Search 101

What should one do in order to obtain the mathematically related job of one's dreams? Panelists will offer tips on what to do (and what not to do) for those seeking employment in academia, business, government or industry. Graduate students nearing the end of their programs and others contemplating a job search in the not-too-distant future are especially encouraged to attend. Question and concerns about job searches for the panel to consider may be submitted in advance to Jeff Berg (jeff.berg@arapahoe.edu).

Mathematics in K-12 Teacher Preparation and AMTE in Colorado

Presentations in this session will focus on the challenges and rewards of preparing future teachers to teach mathematics in grades K - 12, including practical ideas for meeting these challenges. The *Association of Mathematics Teachers Educators* (AMTE, www.amte.net) is a non-profit organization created to promote the improvement of mathematics teacher education in all its aspects. In addition to presentations, this session will include a meeting to provide further information about AMTE, and to discuss the formation of a Colorado AMTE affiliate and potential direction of such a group. Interested individuals who cannot attend should contact Pam Smith (Fort Lewis) at smith_p@fortlewis.edu.

Undergraduate Student Papers Special Session

All student speakers receive a complimentary one-year membership in the MAA, including the journal of their choice. Conference registration is also free for all students - use the **Student Flyer and Registration Form** available on the meeting webpage to spread the word to students on your campus.

Rounding out the scientific program will be talks contributed by intelligent, involved and inspirational people like you! Talks on all topics mathematical - especially those related to the **Euler Celebration theme** - are welcome. Other special paper sessions include **Interesting Ideas in Mathematics** (organized by Jane Arledge and Rob Tubbs) and **Research by Graduate Students** (organized by Tensia Soto-Johnson). For more information about these sessions, or to submit a talk for the general session, please see the **Second Call for Papers** and **Speaker Response Form**.

A **Celebrate Euler Undergraduate Poster Competition** is also planned (organizer Carl Lienert); information about this and other **Euler Birthday Activities** will be posted on the meeting website as they become available - your suggestions about how to celebrate the event are also welcome.

The CSU-Pueblo mathematics program is excited about this opportunity to host the section meeting again. We've seen lots of changes on our campus and in our faculty since the last section meeting held here in 1995. We hope you and your students will come see what's new down here in the south - and don't forget your party hat!

About Our Featured Speakers

Barbara M. Moskal received her B.S. in Mathematics Education from Duquesne University in 1989, her M.A. in Mathematics from the University of Pittsburgh in 1991 and her Ed.D. in Mathematics Education with a minor in Quantitative Research Methodology from the University of Pittsburgh in 1997. Currently, she is an associate professor in the Mathematical and Computer Sciences Department at the Colorado School of Mines. Dr. Moskal has been an invited speaker at local and national conferences, both within mathematics and across the broader area of science, technology and engineering. She has a strong publication record and has received prior awards in both teaching and research.

Robin Wilson is Professor of Pure Mathematics at the Open University, UK, and Gresham Professor of Geometry, London (the oldest mathematical Chair in England, dating from 1597). He is also Fellow in Mathematics at Keble College, Oxford University, and Visiting Professor at Colorado College, Colorado Springs. He has written and edited about thirty books in topics ranging from graph theory and combinatorics, via the history of mathematics, to philately, the Gilbert & Sullivan operas, and Sudoku. He is well known for his awful taste in puns and bright clothes.

Jim Tattersall received his undergraduate degree in mathematics from the University of Virginia, a Master's degree in mathematics from the University of Massachusetts, and a Ph.D. degree in mathematics from the University of Oklahoma. On a number of occasions he has been a visiting scholar at the Department of Pure Mathematics and Mathematical Statistics at Cambridge University. He spent the summer of 1991 as a visiting mathematician at the American Mathematical Society. In 1995-1996, he spent eighteen months as a visiting professor at the U.S. Military Academy at West Point. He was given awards for distinguished service (1992) and distinguished college teaching (1997) from the Northeastern Section of the MAA. He is former President of Canadian Society for History and Philosophy of Mathematics, Archivist/Historian of Northeastern Section of the MAA, and currently serves as the Associate Secretary of the Mathematical Association of America.

Invited Addresses

Burton W. Jones Distinguished Teaching Award Invited Lecture
Assessing Mathematics: Historical Significance and Future Directions
Dr. Barbara M. Moskal, Colorado School of Mines

This presentation will examine the historical significance of the K-12 educational movement within the United States and the impact of this movement on higher education. The specific emphasis will be on the growing demand for assessment and evaluation at all levels, pre-college and university. This discussion will include the potential benefits of assessment as well as the potential challenges. Significant efforts to prepare the mathematics community to meet these demands, such as the "Supporting Undergraduate Assessment in Mathematics" project, will also be discussed. This presentation will conclude with an example of both the macro and micro assessment efforts that are currently underway in the Mathematical and Computer Sciences Department at the Colorado School of Mines.

Friday Keynote Address
Euler -- 300th Anniversary Lecture
Dr. Robin Wilson, Open University, England

Leonhard Euler (born 15 April 1707), the 'Mozart of Mathematics' was probably the most prolific mathematician of all time. He contributed to an extraordinarily wide range of areas, both theoretical and practical, yet remains largely unknown, except to mathematicians. Who was he, what did he do, and why do mathematicians rate him so highly?

Friday Banquet Address
Vignettes in Number Theory
Jim Tattersall, Providence College

We will focus on the properties and the history of several sets of numbers. The numbers we discuss lend themselves naturally to undergraduate research projects. Topics include Demlo numbers, polite numbers, sad numbers, decimal Columbian numbers, Smith numbers, and Niven numbers.

Saturday Keynote Address
The Early Lucasians
Jim Tattersall, Providence College

In 1663, Henry Lucas, the long-time secretary to the Chancellor of the University of Cambridge, made a bequest, subsequently granted by Charles II, to endow a chair in mathematics. A number of severe conditions were attached to the Chair. Among the more prominent early Lucasian professors were Barrow and Newton. In this talk we focus attention on two very intriguing characters Nicholas Sanderson and John Colson. Many early Lucasians were very diligent in carrying out their responsibilities but as we shall see that was not always the case. In the process, we uncover several untold stories and some very interesting mathematical results.

Workshop: A Hands-On Tour of the MAA Digital Library

Linda Sundbye
Metropolitan State College of Denver

The National Science Digital Library (NSDL) was established in 2000 as an online library to support STEM education. Presently containing over 2 million items, it offers an organized point of access to a wide variety of teaching materials at all levels from pre K -12, higher ed, lifelong learning, and research.

The NSDL Pathways are partners who provide access to audience-specific views of relevant NSDL resources and services. There are currently ten Pathways partners. The Math Gateway, funded in 2004 and maintained by the MAA, is one of the ten Pathways Projects of NSDL. The Math Gateway contains the Mathematical Sciences Digital Library (MathDL) and other resources.

The Mathematical Sciences Digital Library (MathDL) began with an NSF-NSDL grant in 2000 and was originally a cooperative effort with Math Forum. The project changed hand a few times and was brought into the MAA in 2003. The MathDL currently has five main components: 1) Journal of Online Mathematics and its Applications (JOMA), 2) Digital Classroom Resources – a collection of free online learning materials, 3) Convergence – an online history of mathematics magazine, 4) MAA Reviews – an online continuation of the Telegraphic Reviews from the *American Mathematical Monthly*, and 5) Classroom Capsules and Notes – the best of 112 years of short classroom materials from MAA print publications. A sixth component – MAA Prize Winning Articles is expected to be online soon.

Come for a brief hands-on tour of the wealth of online mathematical resources that are available through the Math Gateway project and MathDL!

Second Call for Papers

The **deadline** for submission of abstracts for the 2007 Spring Section Meeting is **February 24, 2007**. Proposals received from students and MAA members after this date will be scheduled on a first-come, first-scheduled, space-available basis. Proposals from non-members sponsored by MAA members must be received by the deadline.

Talks on all topics mathematical are welcome, but should be of interest to a broad audience. (Please see the "Suggestions for Speakers." " Special sessions are also being organized around the following themes:

Celebrating Euler

Organized by Janet Barnett (CSU - Pueblo) and George Heine (Bureau of Land Management)

In honor of the 300th anniversary of Euler's birth on 15 April 1707, this session invites talks (mathematical or historical) on topics broadly related to his life, his work and its influence on mathematics both in his own time and today.

Interesting Ideas in Mathematics

Organized by Jane Arledge (Mesa State College) and Rob Tubbs (University of Colorado at Boulder)

Have you discovered some wonderful mathematical tidbit/idea/connection that you just can't resist sharing with others? In this session, you will have the opportunity to talk about any interesting mathematical result, not necessarily original, that is general enough to be accessible to the broader community of mathematics faculty.

Mathematics in K-12 Teacher Preparation

Organized by Pam Smith (Fort Lewis College)

This session invites talks which discuss the challenges and rewards of preparing future teachers to teach mathematics in grades K - 12, including practical ideas for meeting these challenges.

Research by Graduate Students

Organized by Tensia Soto-Johnson (University of Northern Colorado)

In this session, graduate students will present their research to faculty, other graduate students and undergraduates. Graduate students in pure mathematics, applied mathematics, and mathematics education are invited to participate. Presenters need not be near completion or his/her program.

Undergraduate Student Papers

Organized by CSU-Pueblo Program Committee

Are you supervising a student research project? Encourage your student to present their results at the meeting! Registration is free for all students, and student speakers receive a complimentary one-year membership in the MAA, including the journal of their choice.

The default talk length will be 20 minutes, with every effort made (within the constraints of the schedule) to accommodate requests for longer talks and other scheduling preferences. **Please submit special requests early.**

For non-electronic submissions, please use the Speaker Response Form located on the following page. **E-mail equivalents of this form are encouraged!** Please be sure to include all requested information if using e-mail.

Questions about contributed talks and suggestions for panels or other special sessions may be addressed to Program Co-Chair janet.barnett@colostate-pueblo.edu, 719 - 549 - 2540.

Preliminary 2007 Meeting Schedule

CELEBRATING EULER!

Friday, April 13

- 9:30 - 11:30 **Workshop: A Hands-On Tour of the MAA Digital Library**
Dr. Linda Sundbye, Metropolitan State College of Denver
- 11:30 - 12:30 **Luncheon for Department Chairs and MAA Liaisons**
- 12:30 - 4:00 **Registration, Publisher Exhibits and MAA Book Sales**
- 1:00 - 1:15 **Opening Remarks and Welcome**
- 1:15 - 2:00 **Burton W. Jones Distinguished Teaching Award Invited Lecture**
Assessing Mathematics: Historical Significance and Future Directions
Dr. Barbara M. Moskal, Colorado School of Mines
- 2:15 - 4:35 **Parallel Sessions** - Contributed Papers, Special Sessions & Panels
- 4:45 - 5:30 **Friday Keynote Address**
Euler – 300th Anniversary Lecture
Dr. Robin Wilson, Open University, England
- 5:45 - 6:30 **Reception and Mathematics Awareness Month Undergraduate Poster Contest**
Occhiato University Center Hearthwell Room, CSU – Pueblo Campus
Poster Contest Organizer: Dr. Carl Lienert, Fort Lewis College
- 6:30 - 9:00 **Banquet and Awards Ceremony**
Occhiato University Center Hearthwell Room, CSU – Pueblo Campus
Banquet Address: *Vignettes in Number Theory*
Dr. Jim Tattersall, Providence College

Saturday, April 14

- 8:00 - 8:50 **MAA Rocky Mountain Section Business Meeting**
Please forward agenda items to Hortensia Soto-Johnson at hortensia.soto@unco.edu by March 31.
- 9:00 - 9:45 **Saturday Keynote Address:** *The Early Lucasians*
Dr. Jim Tattersall, Providence College
- 10:10 - 1:00 **MAA Book Sales**
- 10:10 - 1:00 **Parallel Sessions** - Contributed Papers, Special Sessions & Panels

Watch for regular meeting updates at
<http://www-math.cudenver.edu/~maa-rm>

Mathematics Awareness Month Undergraduate Poster Session Contest Rocky Mountain Section Meeting, April 13 - 14, 2007

Sponsored by the Rocky Mountain Section of the MAA
Colorado State University - Pueblo, Pueblo, CO, April 13-14, 2007

We invite all undergraduate students to present a poster at the MAA Rocky Mountain Section Meeting in April 2007. Posters will be displayed on Friday April 13th. Bring them to registration when you arrive.

Theme: Euler's 300th Birthday

Euler made countless contributions to mathematics to Number Theory, Geometry, Calculus, etc. Many of Euler's results have had a direct influence on modern mathematics. In fact it might be hard to make a mathematical poster that was not in some way related to the work of Euler. Here are some general ideas that you could include in a poster:

- Biographical elements
- A result of Euler's
- Follow a result of Euler's to modern mathematics

Resources:

Suggestions for making good posters:

<http://www.maa.org/students/undergrad/meetings.html>

You can find ideas in a few minutes on the internet. Here are just a few places you might start:

<http://www-history.mcs.st-andrews.ac.uk/Mathematicians/Euler.html>

<http://www.maa.org/news/howeulerdidit.html>

Or try search engines at <http://www.maa.org> or <http://www.ams.org>

Details:

- Deliver your poster to the registration area on Friday
- Internet connections and power outlets will not be available in the poster area
- Poster should be of standard size (approximately 36" by 48")
- More details will be provided as they become available.

Check <http://www-math.cudenver.edu/~maa-rm>

Registration: Please inform Carl Lienert at lienert_c@fortlewis.edu by April 1 if you plan to present a poster. Each school is encouraged to send a combined list.

Attention Math Students!!!

**You are invited to attend the 2007 Annual Spring Meeting of the
Rocky Mountain Section of the Mathematical Association of America
Colorado State University - Pueblo
Friday, April 13 and Saturday, April 14, 2007**

PROGRAM HIGHLIGHTS INCLUDE:

Research by Graduate Students and Undergraduate Student Paper Sessions

Interested in presenting the results of your research project at a professional conference? This is a great opportunity to share ideas and meet other math students! All student speakers receive a complimentary one-year MAA membership, including a subscription to a journal of your choice.

Reception and Mathematics Awareness Month Undergraduate Poster Session

Poster Contest Theme: **Euler's 300th Birthday**

Poster Contest Organizer: Dr. Carl Lienert; e-mail lienert_c@fortlewis.edu

Plenary Talks by Nationally Recognized Teachers and Scholars

Euler – 300th Anniversary Lecture

Dr. Robin Wilson, Open University, England

Assessing Mathematics: Historical Significance and Future Directions

Dr. Barbara Moskal, Colorado School of Mines

2006 Burton W. Jones Distinguished Teaching Award Recipient

Vignettes in Number Theory and The Early Lucasians

Dr. Jim Tattersall, Providence College

MEETING REGISTRATION FOR STUDENTS IS FREE!!!

Friday evening banquet fees are \$23 per person.

To register, complete the Student Registration and Speaker Form and return it to the indicated address.

**DON'T FORGET TO SEND IN YOUR
PRESENTATION ABSTRACT WITH YOUR REGISTRATION
TO BE INCLUDED IN THE STUDENT PAPER SESSIONS!!!**

Questions? Talk with one of the mathematics faculty at your school, or contact Program Chair, Dr. Janet Barnett at janet.barnett@colostate-pueblo.edu)

For more details and highlights of the meeting, including local hotel information, visit the Rocky Mountain Section web site at www-math.cudenver.edu/~maa-rm.

Student Registration and Speaker Form

MAA ROCKY MOUNTAIN SECTION MEETING
Colorado State University – Pueblo
April 13 - 14, 2007

REGISTRATION INFORMATION

Last Name	First Name	
Institution		
Address		
City	State	ZIP
Email Address		
FAX	Phone:	
Are you an: Undergraduate student? _____ Graduate student? _____		

Friday Banquet Fees (\$23.00 per person. Spouses and friends are welcome)

Banquet buffet to feature roast beef au jus, chicken in creamy herb sauce, pasta primavera, garlic mashed potatoes, rice pilaf, green beans amandine, tossed field greens and Euler Pies!

Program highlights to include invited address by math historian Jim Tattersall, presentation of 2007 Section Awards and special door prizes in honor of Euler's 300th Birthday Anniversary.

_____ Number of banquet tickets

_____ Total Enclosed

PRESENTATIONS: Deadline for Submission: February 24, 2007

Name of Faculty Sponsor:
Special Equipment Needs: (Overhead projectors will be available in all presentation rooms)
Schedule Preference: FRIDAY AFTERNOON _____ SATURDAY MORNING _____ NO PREFERENCE _____
PLEASE TYPE YOUR TALK TITLE AND ABSTRACT BELOW, OR ATTACH AN EXTRA PAGE. (Abstracts must be limited to 100 words or less)

Please make banquet checks payable to:

Colorado State University - Pueblo
(indicate MAA-RMS on item line).

Return form with payment to:

Janet Nichols
Department of Mathematics and Physics
Colorado State University - Pueblo
2200 Bonforte Boulevard
Pueblo, CO 81001 - 4901
janet.barnett@colostate-pueblo.edu

Speaker Response Form – Due February 24, 2007

E-Mail submissions strongly preferred

Speaker Name _____

Affiliation _____

Mailing Address (Please include affiliation if needed for U.S. mail)

Email Address _____ Phone Number _____

Faculty Sponsor¹ _____

MAA Member Sponsor² _____

Title: _____

Abstract (100 words or less):

Is this talk intended for any of the following special sessions?

- _____ Euler Celebration Session
- _____ New Colleagues Session
- _____ Mathematics in K – 12 Teacher Preparation
- _____ Research by Graduate Students
- _____ Undergraduate Student Paper

Special Equipment Needs: _____

Schedule Preference Request: _____

Special Talk Length Request: _____

Do you anticipate providing handout material from your talk for posting on the section website? If so, please indicate the format. Electronic materials must be received by **Janet Barnett** (janet.barnett@colostate-pueblo.edu) prior to April 20,2007 to ensure posting

Format: _____

PLEASE E-MAIL ELECTRONIC MATERIALS, AND RETURN THIS FORM OR AN E-MAIL EQUIVALENT TO:

Janet Barnett
Department of Mathematics and Physics
Colorado State University - Pueblo
2200 Bonforte Boulevard
Pueblo, CO 81001 - 4901
janet.barnett@colostate-pueblo.edu

¹ For student speakers only

² For non-MAA members/non-students only

MAA ROCKY MOUNTAIN SECTION REGISTRATION FORM

April 13- 14, 2007, Colorado State University - Pueblo

MEETING REGISTRATION FORM NOTE: For pre-registration discount, form must be received by April 6.

Last Name First Name

Affiliation (for badge)

Address

City State Zip

E-mail address:

Phone: FAX:

Please check all that apply:

Memberships: MAA AMS AMATYC NCTM CCTM Other: _____

Affiliation: 2-year college faculty 4-year college faculty University faculty

High school teacher Post-doctoral Fellow Business/Industry/Government

Undergraduate student Graduate Student

Fees:

_____ Student Registration and K-12 Teacher Registration (\$0)

_____ Non-Student Registration (\$12 before 4, \$20 after)

_____ Friday Morning Workshop: *A Hands-On Tour of the MAA Digital Library* (\$5 per person)

_____ Department Chair and MAA Liaison Friday Luncheon Tickets (\$7 per person)

Please indicate the number of luncheon tickets required _____

Reservations must be received by 4/6 to be guaranteed; a limited number may be available onsite.

_____ Friday Banquet (\$23 per person, spouses and friends welcome)

Reservations must be received by 4/6 to be guaranteed. A limited number may be available onsite.

Please indicate the number of banquet tickets required _____

Banquet buffet to feature roast beef au jus, chicken in creamy herb sauce, pasta primavera, garlic mashed potatoes, rice pilaf, green beans amandine, tossed field greens and Euler Pies!

Program highlights to include invited address by math historian Jim Tattersall, presentation of 2007 Section Awards and special door prizes in honor of Euler's 300th Birthday Anniversary.

_____ Voluntary Section Dues Contribution (\$10 suggested)

Voluntary section dues contributions are used to support special initiatives such as the Student Recognition and Section Activity Grant Programs. Contributors will receive a letter for their financial records.

_____ **Total Enclosed**

Please make checks* payable to: **Colorado State University - Pueblo** (indicate **MAA-RMS** on item line).

Return form with payment to: **Janet Nichols**
Department of Mathematics & Physics
Colorado State University - Pueblo
2200 Bonforte Blvd
Pueblo, CO 81001 - 4901

* Please note that there will be a \$17.00 charge for returned checks.

Meeting Accommodations, Directions and Maps

The Marriott is located in the downtown historic district at I-25 Exit 98B, approximately 2 miles from campus.

The Hampton Inn and Suites-Southgate is located at I-25 Exit 94, approximately 6 miles from campus on south side of town.

All other accommodations are located at I-25 Exit 101 or Exit 102, approximately 2 miles from campus on north side of town.

To make a reservation, contact the motel directly; state that you are with the **MAA Meeting** to request lower rates.

Make your reservations early to ensure lower rates are still available!

Best Western Eagleridge

4727 N Elizabeth Street (exit 102)

719 - 543-4644

\$85.00

Includes continental breakfast

Comfort Inn

4645 N. Freeway (exit 102)

719 - 542-6868

\$59.00 before March 26th (\$72.00 after March 26th)

Includes continental breakfast

EconoLodge

4615 N. Elizabeth (exit 102)

719 - 542-9933

49.00 double

Hampton Inn & Suites

4703 N. I-25 (exit 102)

719 - 544-4700

\$62.00 before March 25 (\$89.00 after March 25)

use code CSU-Pueblo/Math confirmation #130

Includes continental breakfast

Hampton Inn & Suites - SouthGate

3315 Gateway Dr. (exit 94)

719 - 566-1726

\$89.00 single/\$99.00 double

La Quinta

4801 N. Elizabeth (exit 102)

719 - 542-3500

\$60 double before April

Includes continental breakfast

Marriott Hotel

110 W. First Avenue (exit 98B)

719 - 542-3200

\$99.00

Motel 6

4103 North Elizabeth Street (exit 101)

719 - 543-8900

49.99 2 adults

Super 8

1100 W Us Highway 50 (exit 101)

719 - 545-4104

\$48.00 king/ \$55.00 double

Includes continental breakfast

Wingate Inn

4711 N. Elizabeth (exit 102)

719 - 586-9000

\$76.00 2 adults / \$66.00 1 adult before April 1

Includes continental breakfast

Driving Directions to CSU-Pueblo

- From Interstate 25, take Exit 101 to Highway 47 heading East.
- Take Bonforte Boulevard exit, then turn left (North) onto Bonforte Blvd.
- Turn left (West) on to Desert Flower Road to reach recommended parking lots W2 and W3.
- Campus maps are available at www.colostate-pueblo.edu/maps/# and through the meeting webpage at <http://math.cudenver.edu/~maa-rm/>

Colorado State University PUEBLO

- CAMPUS LEGEND**
1. PHYSICS/MATHEMATICS BUILDING
 2. LIFE SCIENCES BUILDING
 3. CHEMISTRY BUILDING
 4. UNIVERSITY LIBRARY
 5. CAPPS CAPOZZOLO ACADEMIC CENTER FOR THE ARTS (HOAG HALL)
 6. UNIVERSITY VILLAGE AT WALKING STICK APTS.
 7. BELMONT RESIDENCE HALL
 8. UNIVERSITY CHILD CARE CENTER
 9. HEATING PLANT
 10. PHYSICAL PLANT
 11. OCCHIATO UNIVERSITY CENTER
 12. HEALTH, P.E. AND RECREATIONAL BUILDING (MASSARI ARENA, SAM JONES SPORTS COMPLEX AND LEVERT 'W. HOAG RECREATION CENTER)
 13. ADMINISTRATION BUILDING
 14. LINDBERG GARDEN
 15. UNIVERSITY FOUNTAIN PLAZA
 16. PSYCHOLOGY BUILDING
 17. MCKINNEY PAVILION
 18. HASAN SCHOOL OF BUSINESS
 19. TECHNOLOGY BUILDING
 20. BUELL COMMUNICATIONS CENTER (KTSC-TV)
 21. OUTDOOR CLASSROOM
 22. OUTDOOR AMPHITHEATER



- RAWLINGS OUTDOOR SPORTS COMPLEX**
23. SOFTBALL
 24. BASEBALL
 25. TENNIS COURTS
 26. ROPES COURSE
 27. WEINDLING PARK
 28. SOCCER FIELD

PARKING LOT SECTORS
 NORTH: N-1, N-2, N-3, N-4, N-5, N-6, AND N-7.
 EAST: E-1, E-2, E-3, E-4, E-5, E-6, E-7, E-8 (north & south), E-9, E-10 and E-11.
 SOUTH: S-1, S-2, and S-3.
 WEST: W-1, W-2, W-3, W-4, W-5 and W-6 (north & south).
 (Visitors with permit may park in visitors lot or white lines only.)

Emergency Phones

Handicapped

Student Parking (Permit Required)

Authorized Parking Only as Designated

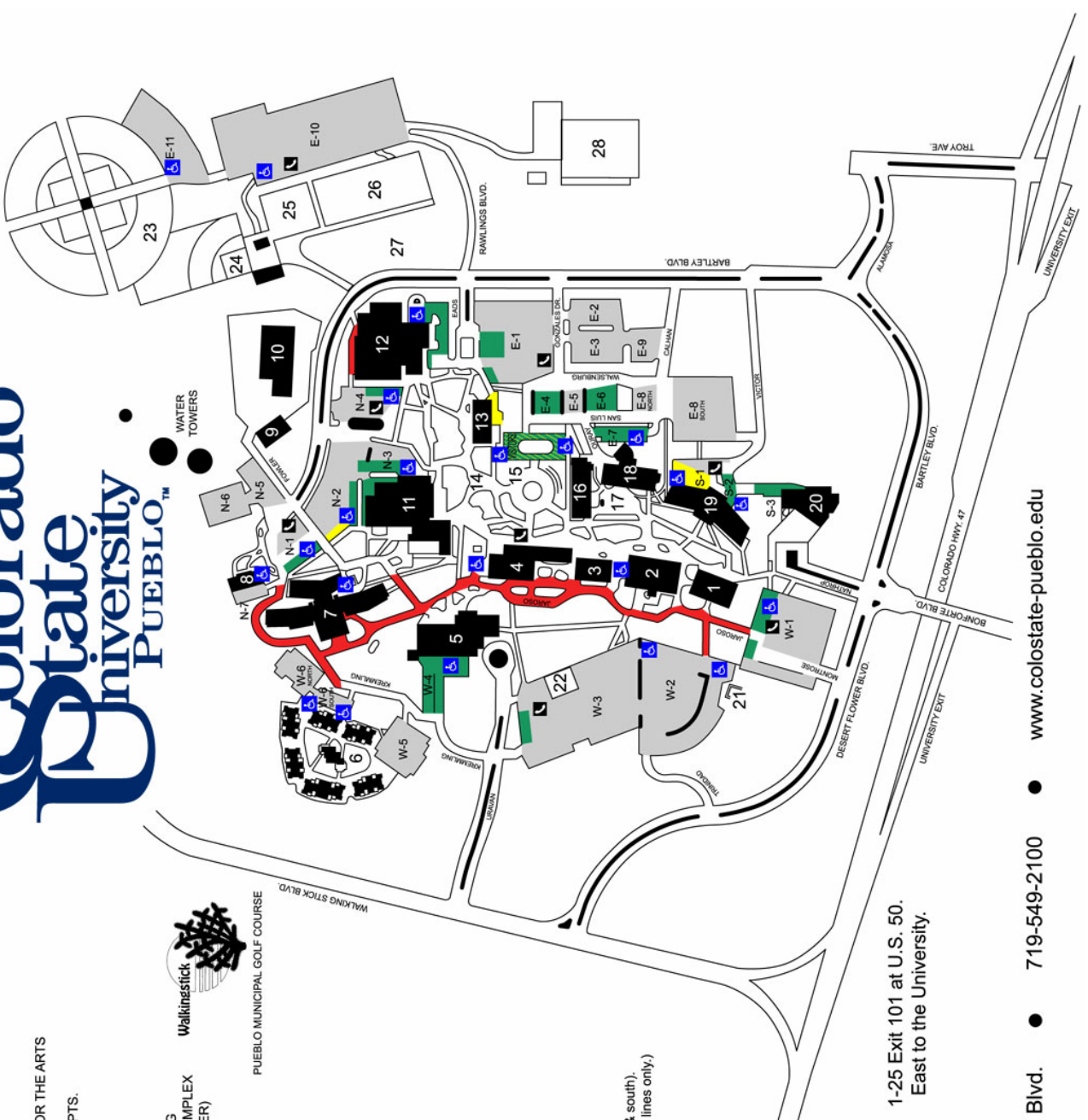
Emergency and Service Vehicles

Faculty/Staff/Reserved Parking

Visitor Parking (Permit Required)

N **S**

1-25 Exit 101 at U.S. 50.
 East to the University.



MAA Rocky Mountain Section Suggestions for Speakers

The Section offers the following suggestions which might be of assistance, *especially to first-timers*, during preparation of a talk for a Section Meeting.

1. The default talk length is 20 minutes, but longer times can be requested. Program organizers will attempt to provide the amount of time requested for your presentation, within the limitations of the program. Once you have been notified of the amount of time allotted, carefully prepare your presentation accordingly. If possible, plan to leave a few minutes at the end of your presentation for questions.
2. A presider will be assigned to facilitate each session of presentations. The presider will introduce the speaker, assist in distribution of any handouts, signal the end of the presentation, and ask for questions from the audience.
3. If handouts are to be provided, give them to the presider prior to the beginning of the session including your talk. Plan to bring about 30 handouts and be prepared to give attendees your address in case the supply runs out. It may also be possible to arrange for posting of electronic materials from your talk on the section website; check with program organizers concerning this possibility.
4. Do not plan to present so much detailed material that your presentation becomes rushed. Focus on providing the audience with insight into your topic and its key notion during the presentation. Remember that very few members of the audience will be experts in the field you are discussing and that the audience will include some students.
5. The use of transparencies on an overhead projector greatly enhances the pace of a presentation. But make sure that notes on transparencies are written or typed in a font big enough and with spacing adequate to be seen clearly 50 to 100 feet away. Simply copying ordinary typewritten pages will not produce readable transparencies. Power Point or PDF presentations can serve a similar purpose in providing pacing for a talk, but be sure to check with program organizers concerning available technology and means of transferring data.

Grants Available

Section Activity Grants Available

Applications for Section Activities Grants are again being accepted to assist Section members with projects in support of the Section Mission. Proposals may request up to \$500; matching funds are preferred, but not required.

The project director(s) must be a current member(s) of MAA, and the proposal must be clearly tied to one or more of the Rocky Mountain Section Mission Goals. A copy of these goals appears on the inside back cover of this newsletter. All applications must include the following:

- (a) Description of project (no more than one page);
- (b) Statement of how project supports Section Goals (no more than one page);
- (c) Estimated budget, including description of matching funds available, if any;
- (d) Vitae of project director(s).

Upon completion of the project, the director(s) of the funded projects are required to file a brief report (no more than one page), and to present a project report at the next meeting of the Section.

Two non-officer members of the Section will review applications; the Executive Committee on the basis of the reviewers' reports will make final funding decisions. Although applications are accepted at any time, please note that notification of funding decisions may take up to two months following receipt of the application by the section secretary.

Student Recognition Grants Available

The establishment of a Student Recognition Grant Program was approved by the section membership at the 2003 Annual Business Meeting. In support of this program, the Section will set aside \$500 every calendar year. From these monies, the Section will make grants for the purpose of recognizing superior achievement in mathematics on the part of (1) students enrolled in post-secondary institutions within the geographic region served by the Section and (2) high school students whose school districts, or other appropriate political subdivisions, substantially intersect the geographic region served by the Section.

Proposals for such grants must

1. Originate from a member of the Rocky Mountain Section of the Mathematical Association of America on behalf of an agency, institution, or organization whose stated purposes are consistent with recognizing or encouraging superior academic achievement at the high school level;
2. Be in the hands of the Chair of the Rocky Mountain Section no later than March 15 of the year in which the proposed recognition is to be made;
3. Include the criteria under which superior achievement in mathematics is to be recognized, together with the time and the manner of such recognition;
4. Report, insofar as possible at the time of the proposal, other potential sources of support together with proposals or requests made or intended; and
5. Be limited to a maximum amount of \$250.

The Executive Committee will review all proposals for grants under this policy and will make such grants as, in its sole judgment, it deems proper. In keeping with the section mission, funding priority will be given to grants that include recognition of undergraduate students. Funding decisions will be announced no later than the Annual Business Meeting of the Section. Monies not expended during any particular year shall revert to the Section's general fund.

Section Logo Shirts Available

First unveiled at the 2002 Spring Section Meeting in Laramie, Rocky Mountain Section Logo shirts are now available in two styles: a **long-sleeved button-front denim shirt** and a **short-sleeved white polo shirt**. Both styles are 100% cotton and feature the section logo in high-quality color embroidery on the front left.

In order to promote awareness of the MAA and the Rocky Mountain Section, prices have been set in order to recover production costs, just **\$35 for denim** and **\$30 for polo**. Proceeds, if any, will be used to support section activities.

If you are interested in obtaining one of these special shirts, please contact **Janet Barnett**, janet.barnett@colostate-pueblo.edu, with information on desired quantities and sizes.

About Our Logo

The logo for the Rocky Mountain Section of the Mathematical Association of America was created in by Mark Petersen in 2001. A graduate student in the Applied Mathematics Department at the University of Colorado at Boulder at that time, Mark says of his design:

“The mountain symbols were chosen because analysis is the foundation for all of mathematics. The equation $e^{i\pi} + 1 = 0$ must rank among the most beautiful formulas in mathematics. It connects the five most important constants of mathematics with the three most important operations - addition, multiplication, and exponentiation. These five constants symbolize the four major branches of classical mathematics: arithmetic, represented by 0 and 1; algebra, by i ; geometry, by π ; and analysis, by e . (Quoted from Eli Maor’s *e, The Story of a Number*). I chose to portray this equation as a train because rail has historically been the life blood of the American West, and trains are complementary to any mountain scene.”

Meetings Calendar

ICTCM; Boston, MA; February 15-18, 2007
NCTM annual meeting; Atlanta, GA; March 21-24, 2007

**MAA Rocky Mountain Section Meeting
Colorado State University - Pueblo
April 13-14, 2007**

MAA MathFest; San Jose, CA; August 3-5, 2007

Joint Mathematics Meetings, San Diego, CA;
January 6-9, 2008

NCTM annual meeting; Salt Lake City, UT; April 9-12, 2008

**MAA Rocky Mountain Section Meeting
Black Hills State University
Spearfish, SD
April 2008**

MAA MathFest; Madison, WI; July 31 – August 2, 2008

Joint Mathematics Meetings; Washington, DC;
January 7-10, 2009

NCTM annual meeting; Washington, DC; April 22-25, 2009

MAA MathFest; Portland, OR; August 6-8, 2009

Joint Mathematics Meetings; San Francisco, CA;
January 6-9, 2010

NCTM annual meeting; San Diego, CA; April 21-24, 2010

MAA MathFest; Pittsburgh, PA; August 5-7, 2010

Joint Mathematics Meetings; New Orleans, LA;
January 5-8, 2011

NCTM annual meeting; Indianapolis, IN; April 13-16, 2011

Joint Mathematics Meetings; Boston, MA;
January 4-7, 2012

NCTM annual meeting; Miami, FL; April 25-28, 2012

Joint Mathematics Meetings; San Diego, CA;
January 9-12, 2013

NCTM annual meeting; Denver, CO; April 17-20, 2013

MAA 100th Anniversary MathFest, Washington, DC; August 5-8, 2015.

**The Rocky Mountain Section of
The Mathematical Association of America**

**Burton W. Jones Award
for Distinguished College or University Teaching of Mathematics**

Burton W. Jones Award Nomination Form

Name of Nominee _____
(First name first)

College or University Affiliation _____

College or University Address _____

City _____ State _____ Zip: _____

Is the nominee a member of the MAA? _____

Number of years of teaching experience in a mathematical science _____

Has the nominee taught at least half time in a mathematical science
for the past three years (not counting a sabbatical period)? _____

In the space below, please briefly describe the unusual personal and professional qualities of the nominee that contribute to her or his extraordinary teaching success.

Name of Nominator) _____
(first name first)

Address of Nominator _____

Email Address _____

Telephone: Work _____ Home _____ Fax _____

Nominator's Signature _____

Nomination form should reach Section Secretary by December 1.
Complete nomination materials should reach Section Secretary by January 30.
Please consult section webpage (<http://www-math.cudenver.edu/~maa-rm/>) for complete guidelines and address of Section Secretary.

Voluntary Section Dues

Many thanks to those members who have made a voluntary dues contribution to the section along with their Spring Meeting Registration!

Although the section has found itself in good financial health in recent years, additional funds are always needed in order to pursue special initiatives suggested by the membership. The successful John Fauvel Memorial Conference and William Dunham Special Lecture, both supported in part by the Section Activity Grant program, provide excellent examples of what can be done with even a small amount of funding to support our section mission and goals.

A voluntary section dues contribution from you now can help build up funds in support of similar initiatives!

To submit your dues, simply return the coupon below with a check for any amount you wish - every little bit will help, and all contributors will receive a letter acknowledging the contribution for their financial records.

MAA Rocky Mountain Section Voluntary Dues Contribution Form

Name _____

Address _____

_____ ZIP _____

Please indicate in the space provided how you would like your dues to be used:

- _____ Undergraduate Student Initiatives
- _____ Graduate Student Initiatives
- _____ Burton W. Jones DTA Fund
- _____ Section Activity Grant Program
- _____ Wherever needed most
- _____ Other: _____
- _____ **TOTAL DUES PAID (\$10 recommended)**

Please make check payable to: **MAA Rocky Mountain Section** and return to: Hortensia Soto-Johnson, MAA Rocky Mountain Section Treasurer: UNC School of Mathematical Sciences, Campus Box 122, Greeley, CO 80639

MAA Rocky Mountain Section Mission Statement

**To promote excellence in mathematics education,
especially at the collegiate level.**

Mission Related Goals

1. To foster scholarship, professional development, and professional cooperation among the various constituencies of the mathematical community within the region.
2. To foster the implementation and study of recent research recommendations for the teaching, learning and assessment of collegiate mathematics.
3. To support the implementation of effective mathematics preparation programs of prospective teachers at all levels.
4. To enhance the interests, talents and achievements of all individuals in mathematics, especially of members of underrepresented groups.
5. To provide recognition of the importance of mathematics, mathematical research and quality mathematics teaching, and promote public understanding of the same.
6. To provide regional leadership in the promotion of systemic change in mathematics education, and in the enhancement of public understanding about the needs and importance of mathematical research and education.