



EXPONENT

Newsletter of the Greater San Diego Mathematics Council
An Affiliate of the California Mathematics Council
and the National Council of Teachers of Mathematics

SAVE THE DATE, February 3-4, 2012, for the GSDMC Annual Conference

The GSDMC annual conference, "Put Students at the Helm: Standards for Mathematical Practice," will be held on February 3-4, 2012. Sessions will focus on the Mathematical Practices from the Common Core State Standards:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Extended Focus on Professional Development Workshops

On Saturday, for the first time, we are including Extended Professional Development Workshops. The three specific areas of focus will be:

- ✓ Strategies to meet the needs of English language learners;
- ✓ STEM (Science, Technology, Engineering, Mathematics); and
- ✓ The Four Areas of Challenge from the Common Core Standards: Fractions; Number Sense and Place Value; Transformational Geometry; and Model with Mathematics.

GSDMC will continue to provide attendees

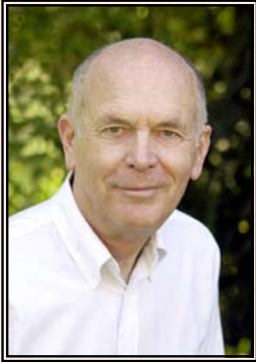
with dynamic presenters on current topics in mathematics education. Dr. Robert Sawyer and Dan Meyer will be the keynote speakers on Friday afternoon. On Saturday you will hear from Dr. Rochelle Gutiérrez, whose research focuses on equity in mathematics education. See page 2 for more information about the featured presenters and page 3 for more information about the Saturday Extended-Focus Workshops.

Programs will be mailed to GSDMC members and to schools in San Diego County in November. Keep checking the GSDMC website at www.gsdmc.org for more information as we continue to build our program! □

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Featured Presenters



Dr. Robert F. Sawyer, *Friday, 12:30 – 1:45, Starboard Room*

During his forty-three year career at UC Berkeley as a professor of mechanical engineering, Dr. Sawyer's teaching and research included rocket propulsion, energy conversion, combustion, air pollution, and regulatory policy. He has authored or co-authored more than 350 publications including two books. He chaired the Energy and Resources Group and was the first Class of 1935 Professor of Energy at Berkeley. From 2003–2005 he headed the University of California Education Abroad Program in London. In January 2006, Dr. Sawyer accepted the appointment by Governor Schwarzenegger to head the California Air Resources Board, a position he held through June 2007. Currently he is the class of 1935 Professor of Energy

Emeritus at UC Berkeley. He received the Berkeley Citation and the American Society of Mechanical Engineers' Soichiro Honda Medal and is a fellow of the Society of Automotive Engineers and a member of the United States National Academy of Engineering. For more information about Dr. Sawyer's work visit <http://www.me.berkeley.edu/faculty/sawyer/>.

Dan Meyer

Friday, 3:30 – 4:45, Starboard Room

Dan Meyer taught high school math between 2004 and 2010 and is currently studying at Stanford



University on a doctoral fellowship. In his blog he states: "Abstraction doesn't make math harder. Abstraction makes math *possible*. It's one of the most powerful and satisfying tools in the mathematician's

box. The trouble is that you can't abstract a vacuum. You start with something concrete (not necessarily "real-world") and then abstract its essential features. Again: you *start* with something concrete and *then* abstract it." His hobbies include graphic design, filmmaking, motion graphics, and infographics, most of which have found their way into his practice in some way or another. His specific interests include curriculum design (answering the question, "how do we design the ideal learning experience for students?") and teacher education (answering the questions, "how do teachers learn?", "how do we retain more teachers?", and "how do we teach teachers to teach?"). Dan is listed in the Guinness Book of World Records 2005 for holding the record for the "longest paper clip chain. He put together 54,030 paper clips to create a 5,340-foot paper clip chain." (See <http://paperclipchallenge.com/>.) To follow Dan's blog, visit <http://blog.mrmeyer.com/>.

Dr. Rochelle Gutiérrez'

Saturday, 8:15 – 9:15, Terrace

Dr. Gutiérrez' research focuses on equity in mathematics education, race/class/language issues in teaching and learning mathematics, effective teacher communities, and social justice.

Dr. Gutiérrez has served as a member of the RAND National Mathematics Study Panel, the National Academy of Sciences' Committee on Increasing Urban High School Students' Engagement and Motivation to Learn, and the board of directors of Society for Advancement of Chicanos and Native Americans in Science (SACNAS). She was awarded a Fulbright fellowship to study secondary mathematics teachers in Zacatecas, México, and is currently serving as editor for a special issue on identity/power for the Journal for Research in Mathematics Education. Her work has been published in such journals as *Mathematical Thinking and Learning*, *Journal of Curriculum Studies*, *Journal for Research in Mathematics Education*, *American Educational Research Journal*, and the *Urban Review*. Before and throughout graduate school, she taught middle and high school mathematics to adolescents in East San José, California. She currently is the PI on an NSF grant that seeks to understand what it takes to develop high school mathematics teachers who engage their students in rigorous and creative mathematics and are committed to social justice.



Saturday Extended - Focus Workshops

Go deeper with the mathematics content on Saturday by attending focused one-hour and/or two-hour sessions that focus on the areas of **Common Core State Standards Four Major Areas of Challenge**; **Strategies for English Learners** TODOS Strand; **STEM** (Science, Technology, Engineering and Mathematics).

English Learner Focus:

This is a mini-conference embedded into the Math Conference. **See the Saturday sessions for more complete descriptions of the sessions.**



The Saturday ELL Workshop is geared toward developing a community among San Diego mathematics educators who advocate

for an equitable and high quality mathematics education for all students, in particular English language learners, by increasing educators' ability to foster students' proficiency in rigorous and coherent mathematics. All of the speakers in this half-day Workshop are nationally or internationally recognized for their work and are active in the TODOS: Mathematics for All organization. After an opening plenary, workshop participants will break into grade bands to consider teaching strategies that will engage all children in worthwhile mathematics. There will be breakout sessions for leaders, including coaches and administrators. The morning workshop will conclude with a re-assembly of all participants in a Community session that will wrap-up and celebrate the half-day workshop, and will give Workshop participants an opportunity to develop relationships and partnerships with other like-minded individuals. There will be an opportunity to make commitments for implementation of ideas learned with the support of the community. We are excited by this half day workshop and hope that YOU will join us in this professional opportunity!

ELL Resources and References:

www.todos-math.org/resources
www.nctm.org/publications/content.aspx?id=26302
www.tsusmell.org/resources/useful-links.htm



**Common
Core
State**

Standards: Areas of Challenge

Why come to learn about the Common Core State Standards in Mathematics? The Common Core Standards provide a consistent, clear understanding of what students are expected to learn so teachers and parents know what they need to do to help their students. The standards are

designed to be robust and relevant to the real world, reflecting the knowledge and skills that our young people need for success in college and careers. With American students fully prepared for the future, our communities will be best positioned to compete successfully in the global economy.

The Greater San Diego Mathematics Council believes that the Common Core State Standards will benefit the students of both California and our nation by providing a consistently challenging, yet attainable, level of progress in each content area at each grade level. Regardless of socioeconomics, our students will learn the skills and knowledge to help them achieve in their future academic and/or career settings.

Common Core State Standards Resources and References:

FAQ's can be found at

www.cde.ca.gov/ci/cc/ccsfaqs2010.asp

San Diego Common Core Connection

www.sdcoe.net/commoncore/

CDE's Common Core State Standards Resources

www.cde.ca.gov/ci/cc/

California Common Core State Standards - Mathematics Resources caccssm.cmpso.org/

SMARTER Balanced Assessment Consortium (SBAC)

www.cde.ca.gov/ta/tg/sa/smarterbalanced.asp



**STEM
(Science,**

Technology, Mathematics and Engineering):

As schools move further into the 21st Century, students use the Learning and Innovation Skills, often called the 4 Cs—creativity, critical thinking, communication, and collaboration—to develop a greater understanding of Science, Technology, Engineering, and Mathematics. Our Annual Mathematics Conference brings you a taste of STEM in a way that guides teachers and students to take a giant step forward towards a 21st Century education.

STEM Resources:

www.stemedcoalition.org/about-us/

www7.nationalacademies.org/bose/Frameworks_Report_Brief.pdf

Teacher of the Year and Karen Richey Award Nominations Extended; GSDMC Banquet Delayed

Due to the low numbers of nominations received for the GSDMC Outstanding Classroom Mathematics Teacher Award and the Karen Richey Family Math Awards by April 15 (original deadline), we have extended the nomination period until November 4! All nominations that have already been received will be kept and reviewed.

Information about how to nominate teachers for these awards will again be sent to every school in the county. Outstanding Classroom Mathematics Teacher Awards will be given to selected teachers at the primary, upper elementary, junior high/middle school, senior high school, and post-secondary levels. Nomination forms are posted on the GSDMC website at www.gsdmc.org and must be received by November 4, 2011.

Outstanding Classroom Mathematics Teacher Award recipients will receive a plaque, \$200 to be used at their discretion for their school's mathematics program, and one year's membership in GSDMC. Schools receiving the Karen Richey Family Math Award will receive \$300 for the school's Family Math/Mathematica Para La Familia program.

Teachers who are chosen to receive these awards will be invited to attend the GSDMC Annual Recognition Banquet, which has been delayed until Friday, February 3, 2012, at the Dana Inn on Mission Bay. The banquet will begin at 6:00 P.M. and will now coincide with GSDMC's annual conference at Marina Village. The banquet is a highlight of the school year when GSDMC members come together to reflect on the accomplishments of the past year. By presenting the GSDMC Outstanding Classroom Mathematics Teacher Awards, GSDMC members are able to recognize and honor teachers who have done a superior job of inspiring students of all backgrounds and abilities to higher achievement in mathematics. GSDMC also recognizes the accomplishments of those schools doing outstanding work through the Family Math/Mathematica Para La Familia program by presenting the Karen Richey Family Math Award. Reservations are limited to the first 120 registrants.

Watch for more information and a reservation form in the January 2012 *E^xPONENT* and at the GSDMC website. □

Brian Lawler Elected GSDMC President-Elect

Brian Lawler was elected President-Elect through an online vote of members, held in June 2011. Beginning July 1, 2011, Brian will serve one year as President-Elect and then, beginning July 1, 2012, will become President for the two-year term, 2012–2014. Brian is currently an Assistant Professor of Mathematics Education at CSU San Marcos, and has taught high school mathematics in Denver, Long Beach, and Athens, Georgia. Brian first joined the California Math Council in 1994 when he attended the CMC-North Conference at Asilomar, and has been a member ever since. Brian served the GSDMC as Secretary the past four years.

Brian is a contributing author to the second edition of the Interactive Mathematics Program, a four-year integrated, problem-based, college-pre-

paratory mathematics curriculum. His main work is to support teachers, schools, and school districts to implement teaching strategies to support student learning in heterogeneous, grades 6–12 mathematics classrooms. □

THE *E^xPONENT*

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Communications regarding the *E^xPONENT* can be sent to:

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San Diego County Office of Education (SDCOE) Mathematics Update: Fall 2011

During the fall of 2011, the SDCOE Mathematics Team will focus on the following Specific Results and Key Activities:

- ✓ Leading a county-wide effort to implement professional learning communities.
- ✓ Improving the retention of highly effective teachers.
- ✓ Providing online learning tools for students, districts, and communities.
- ✓ Implementing county-wide Achievement Gap Task Force instructional initiatives.
- ✓ Creating forums for strategic dialogue among county leaders.
- ✓ Establishing forums for individuals with similar jobs to share ideas and solutions.
- ✓ Assisting small school districts in areas of common need.
- ✓ Aligning programs and services for district assistance and intervention.

The SDCOE mathematics team is continuously working on developing additional resources that will assist San Diego county schools and districts in meeting their students' needs in the area of mathematics. We look forward to accomplishing this large but worthwhile goal, and we are here to assist in any way. Be on the lookout for resources and trainings that will be offered throughout the year. For additional information, resources, and/or to find our Professional Development Calendar, visit the San Diego County Office of Education Mathematics website at www.sdcoe.k12.ca.us/lret/math/ or send us an e-mail. Our Mathematics Resources can be found at store.sdcoe.net/product.asp?div=01. In addition, there is a NEW San Diego County Math Blog—<http://sandiegomath.tumblr.com>—that is filled with current news, events, and resources.

Common Core Standards Update

The California Department of Education has created a comprehensive Web page (www.cde.ca.gov/be/st/cc/) devoted to the California Common Core Standards (CaCCSS), which were adopted by the California State Board of Education on August 2, 2010. This page includes links to the ad-

opted standards for both mathematics and English-language arts, as well as to useful informational flyers and PowerPoint presentations on the CaCCSS. Two-page summaries are available on topics such as how the standards are designed to prepare students for success in Algebra I. For answers to frequently asked questions about the standards, curriculum frameworks, instructional materials, and assessments, visit www.cde.ca.gov/ci/cc/ccsfaqs2010.asp.

Some additional sites include:

- ✓ San Diego Common Core Connection web page: www.sdcoe.net/commoncore/
- ✓ California Mathematics Council (CMC) Common Core Standards web page: www.cmc-math.org/news/commoncore.html
- ✓ California Mathematics Council (CMC) Common Core State Standards: Education Policy Roundtable Blog: cmc-math.blogspot.com/
- ✓ National Council of Teachers of Mathematics "Common Core State Standards Implementation": www.nctm.org/news/content.aspx?id=26294.

Focus on Algebra Website

Focus on Algebra is a resource website developed to support mathematics educators and educational leaders as they develop students' algebraic thinking, utilize formative assessment, and provide intervention support in an effort to have all students reach success in algebra. Each section of the website has a menu that includes an introduction, frequently asked questions, resources, and considerations for meeting the needs of students and educators in an effort to have all students successful in algebra. You can visit this free resource by going to focusonalgebra.sdcoe.net/.

Getting Ready for Algebra: Backwards Mapping Algebra I Standards to Pre-K Foundations

Half-day trainings are available for site/district mathematics leaders, principals, grade level-department teacher leaders, and curriculum and instruction administrators. District mathematics teams are recommended. This professional devel-

opment session will focus on the publication “Getting Ready for Algebra: Backwards Mapping.” This resource takes all the Algebra I standards and backwards maps them down to preschool foundations with benchmarks and content examples. This session will share ideas and use of this publication on building a strong foundation to support district and site efforts to ensure students are successful in Algebra I and beyond. To obtain this resource, go to store.sdcoe.net/product.asp?div=01&PID=163. For more information, contact Jameson Rienick at jrienick@sdcoe.net.

CST and CAHSEE Resources

All California Standards Test (CST) and California High School Exit Exam (CAHSEE) resources and other state assessment resources, such as the CAHSEE Student Study Guide and CST-released questions, can be found at the California Department of Education (CDE) website www.cde.ca.gov/ta/. At the website select either California High School Exit Exam (CAHSEE) and/or Standardized Testing and Reporting (STAR). Next, select Program Resources to find blueprint and released item documents. A great resource found on the Standardized Testing and Reporting (STAR) web page (starsamplequestions.org/) is Sample STAR Test Questions for Parents and Teachers. This searchable website features questions by grade level from the California Standards Tests, including information about levels of performance and grade-level parent guides.

For the complete San Diego County Data Summary Reports visit www.sdcoe.net/lret2/dsi/welcome.asp?loc=districts_san_diego_county_data_reports&m=1. For specific information on the student performance levels, to create reports, and to find facts about California schools and districts, visit Data Quest at dq.cde.ca.gov/dataquest/. For specific information on how students performed in specific reporting clusters (groups of standards) contact your local school district office.

Upcoming Teacher Workshops and Conferences

For dates, times, and locations of trainings, go to our Professional Development Calendar at www.sdcoe.k12.ca.us/lret2/math/?loc=calendar. The SDCOE mathematics team also provides a menu of services to customize district support. Schools

and districts can get started by determining their training needs, select possible training dates and locations, and contact us for scheduling. A link to the available menu of services is found on the Professional Development Calendar.

Mathematics Standards Management System (MSMS)

The Mathematics Standards Management System is designed for educators committed to powerful mathematics education for all students. Models of best practices are provided so that every student understands and successfully employs mathematical thinking, a critical element in closing the achievement gap. Visit MSMS at sms.sdcoe.net/sms/ma/home.

Also in MSMS are free Mathematics Classroom Instructional Videos for Grades 1 and 5—two mathematics instructional materials videos that have been released by the SDCOE mathematics team. The focus of each video is on mathematics teachers, one for each grade 1 and 5, implementing a mathematics lesson using their new adoption instructional materials from the publisher enVision Scott Foresman. Along with watching the lesson showing a teacher and students in action, you can also select to watch the lessons while listening to a teacher’s commentary. Highlight videos are also available on the topics of Using the Materials, Tools for Learning, Teacher Talk, Student Talk, Learning Environment, Informed Instruction, and Ensuring Balance. For access to these free videos, visit the SDCOE Math Standards Management System (MSMS) at sms.sdcoe.net/SMS/mas/professionalDevelopment.asp and look for the title SB 472 Videos.

County Mathematics Leaders Network

Lastly, we welcome all of you serving in a leadership role to take part in the San Diego County Mathematics Leaders Network Advisory meetings. The 2011–2012 meetings are scheduled for December 13, 2011, February 7, 2012, and May 8, 2012, at the San Diego County Office of Education, 3:00–5:00 P.M. These meetings are a great opportunity to network and share resources. For information and registration, contact Jameson Rienick at jrienick@sdcoe.net.

SDCOE Mathematics Unit

- ◆ Jameson Rienick, Mathematics Coordinator, (858) 569-5302, jrienick@sdcoe.net □

CMC-South Annual Fall Conference Scheduled for November 4–5, 2011

The theme for the 52nd Annual CMC-South Mathematics Conference, scheduled for November 4–5, 2011 in Palm Springs, is “Building Student Mathematical Identity Through Common Core Practices.” About 250 sessions will address topics such as equity and mathematics, common core state standards, English learners, technology, leadership and support, and classroom teaching strategies. Session strands will include English language learners, teacher educators, leadership, mathematics competitions, Advanced Placement Mathematics, equity, technology, intervention, and problem solving.

All sessions will be an hour-and-a-half long in order to provide for more in-depth coverage of the topics. Sessions will be held at the Palm Springs Convention Center, the Renaissance Palm Springs (formerly Wyndham), and the Palm Springs Hilton Hotel. During each time period there will be several featured speakers in the largest meeting rooms. Among the featured speakers are Harold Asturias, Sasha Barab, Jo Boaler, Kyndall Brown, Heather Calahan, Patrick Callahan, Ivan Cheng, Phil Daro, David Foster, Linda Gojak, Jim Greco, Susie Hakansan, Bill McCallum, Dan Meyer, Kadhira Rajagopal, Tom Reardon, Greg Tang, and Dina Williams.

The Leadership Lunch on Friday will feature Kadhira Rajagopal who will present “CREATE: An Instructional Model for Unlocking the Potential of All Students and Transforming Any School into a College-Bound Powerhouse.” There will also be an Affiliate Lunch on Saturday where people can learn what their local CMC affiliate does for the mathematics community in their region. Both of these lunches require tickets that can be purchased during preregistration.


There will also be a Friday Social on November 4, 5:30–7:00 P.M. on the Terrace Balcony, Renaissance Palm Springs. Admission is free and there

will be mathematical sweets and music-making.

Registering for the Conference

The deadline for early registration is October 15, but registrations will be accepted after this deadline until October 30 at the regular registration fee. In addition, people will be able to register on-site at the conference in the lobby of the Palm Springs Convention Center on both Friday, November 4, and Saturday, November 5. For those who can only come on Saturday, there is a one-day Saturday-only registration fee.

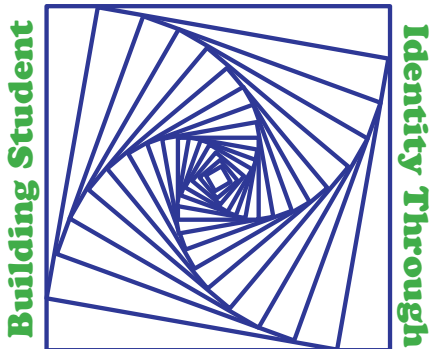
Preregistration must be completed online by going to www.cmc-math.org/activities/south_conference.html. □



California Mathematics Council - South

52nd Annual Mathematics Conference

Mathematical



Common Core Practices

| | | | |
|--------------------------|--------------------------------------|---|---------------------------------|
| Make Sense and Persevere | Reason Abstractly and Quantitatively | Construct Viable Arguments and Critique Reasoning | Model with Mathematics |
| Use Appropriate Tools | Attend to Precision | Look for and Use Structure | Look for and Express Regularity |

Palm Springs Convention Center

November 4 & 5, 2011
www.cmc-math.org

For Your Information

MATHCOUNTS Video Contest

The MATHCOUNTS Video Contest is a free competition sponsored by MATHCOUNTS and the Department of Defense, and is designed to excite students about mathematics while allowing them to hone their creativity and communication skills.

Students, working in teams of four, will select one of 300 problems included in the *MATHCOUNTS School Handbook* and make a video that teaches the problem using a real-world application of the mathematics concept on which the selected problem is based. Video submissions are due by February 1, 2012.

The videos will be posted to the contest website where the public will vote on the best videos. The 20 videos with the highest vote totals will advance to the semifinals of the competition.

Each of the four finalist teams will win an all-expense paid trip to the 2012 MATHCOUNTS National Competition, where they will present their videos to those participating in that event. The 224 students that are competing in the MATHCOUNTS National Competition will then vote for one of the four videos to be the winner of the MATHCOUNTS Video Contest. Once the winner has been decided and the contest has concluded, the website containing the archive of videos will remain available for public use at no charge.

To find out more details about this competition, go to www.reelmath.org/challenge.html. To download the *MATHCOUNTS School Handbook*, go to www.reelmath.org/latest/download.html.



San Diego Math Teachers' Circle

The inaugural session of the San Diego Math Teachers' Circle (SDMTC) programs for middle school (6–8) mathematics teachers was held October 8 on the UCSD campus. The San Diego Math Teachers' Circle is an informal monthly program that aims to engage teachers and mathematicians in working together on intriguing and stimulating problems. Through this collaborative process, SDMTC seeks to provide teachers with an opportunity to enrich their knowledge and appreciation of mathematics in personally meaningful ways.

SDMTC is not affiliated with any school or school district and is free to all middle school

mathematics teachers in San Diego County, whether from public schools, private schools, or home schools. Any needed materials will be provided.

The next session is scheduled for Saturday November 12, 2011, at 8:30 A.M. at UCSD and is titled "Fun with Graph Paper." To find out more about the San Diego Math Teachers' Circle events or to RSVP for this session, go to www.sdmath-teacherscircle.org/index_files/Page400.htm.



CDE Webinar Series

From March through June 2011, the California Department of Education (CDE) produced a webinar series designed to provide an overview of the online grade-level curriculum publication, *A Look at Kindergarten Through Grade Six in California Public Schools*. Each webinar in the series of eight highlights the curriculum across one featured grade level with a special focus on the recently adopted Common Core State Standards in English language arts and mathematics.

Webinars (one per grade level) are archived at www.cde.ca.gov/ci/cc/glcwebinars.asp. Videos, presentation files, documents, and other useful information can be found on this page.

Each grade-level section in *A Look at Kindergarten Through Grade Six in California Public Schools* can be downloaded from www.cde.ca.gov/ci/cr/cf/grlevelcurriculum.asp. Teachers, preservice teachers, teacher educators, and parents will find the information useful.



MET Grants and Scholarships

Established by the National Council of Teachers of Mathematics (NCTM), the Mathematics Education Trust (MET) supports the improvement of mathematics teaching and learning at the classroom level through the funding of grants, awards, honors, and other projects by channeling the generosity of contributors into classroom-based efforts that benefit all students.

MET provides funds to support classroom teachers in the areas of improving classroom practices and increasing teachers' mathematical knowledge. Awards are available through a competitive process based on proposals submitted by

individual applicants. The application deadline for the 2012–2013 Prospective Secondary Teacher Course Work Scholarship, Prospective Middle School Mathematics Teacher Course Work Scholarships, Program of Mathematics Study & Active Professionalism Grants, PreK–8 Preservice Teacher Action Research Grants, Professional Development Scholarship Emphasizing the History of Mathematics, and School In-Service Training Grants (PreK–5, 6–8, 9–12) is May 4, 2012. All other applications must be postmarked by November 11, 2011.

For more information on the MET program, go to www.nctm.org/met.aspx and read the selected MET information.



CMC-South Scholarships and Grants

Each year the California Mathematics Council-South (CMC-South) conducts its Annual Scholarship and Inservice Grant Program to promote interest in teaching mathematics and excellence in mathematics teaching among current teacher education students and teachers in the CMC-South region.

There are four categories of scholarships and grants available:

- ◆ Scholarships for students enrolled in an elementary education credential program;
- ◆ Scholarships for students enrolled in a secondary education credential program;
- ◆ Professional inservice grants for credentialed members of CMC-South;
- ◆ Professional scholarships for the retraining of current teachers who are CMC-South members.

A complete application packet for the current academic year, with detailed criteria and deadlines, can be downloaded from the CMC website www.cmc-math.org/members/south_grant.html. It is also available from:

*Professor Greisy Winicki Landman
Department of Mathematics and Statistics
Cal Poly Pomona
3801 W. Temple Avenue
Pomona, CA 91768*

The due date for applications is January 31, 2012. □

Calendar of Mathematics Events

| | |
|--------------------|--|
| November 4–5, 2011 | CMC-South Annual Conference, Palm Springs |
| November 8, 2011 | GSDMC Board Meeting, 3:30–5 P.M., SDCOE/NCREC |
| December 2–4, 2011 | CMC-North Annual Conference, Asilomar |
| December 13, 2011 | GSDMC Board Meeting, 3:30–5 P.M., TBD |
| December 13, 2011 | San Diego County Math Leaders Meeting, 3–5 P.M., SDCOE |
| January 10, 2012 | GSDMC Board Meeting, TBD |
| February 3–4, 2012 | GSDMC Annual Conference, Marina Village |
| February 3, 2012 | GSDMC Annual Banquet and Teacher Recognition, Dana Inn |
| February 7, 2012 | San Diego County Math Leaders Meeting, 3–5 P.M., SDCOE |
| February 25, 2012 | San Diego MATHCOUNTS Competition, UCSD |
| March 13, 2012 | GSDMC Board Meeting, 3:30–5 P.M., SDCOE/NCREC |
| March 9–10, 2012 | CMC-Central STEMposium, Fresno |
| March 10, 2012 | Senior High Math Field Day, Cuyamaca College |
| April 10, 2012 | GSDMC Board Meeting, 3:30–5 P.M., SDCOE/NCREC |
| April 21, 2012 | High School Honors Math Contest, UCSD |
| April 23–25, 2012 | NCSM Annual Conference, Philadelphia |
| April 25–28, 2012 | NCTM Annual Meeting, Philadelphia |
| April 28, 2012 | High School Honors Statistics Contest, UCSD |
| May 8, 2012 | GSDMC Board Meeting, 3:30–5 P.M., SDCOE/NCREC |
| May 19, 2012 | Middle School Math Field Day, Francis Parker School |
| June 12, 2012 | GSDMC Board Meeting, 3:30–5 P.M., SDCOE/NCREC |



