Califomia Mathematics Council
Community Colleges South
www.cmc3s.org

Twenty-sixth Annual Conference

Friday Evening Keynote Speaker

Allan Ackerman
College of Southern Nevada
Mathematical Magic

Followed by
Game night hosted by Pearson Publishing

Saturday Luncheon Keynote Speaker

James Stewart
Emeritus Professor at McMaster University
Professor of Mathematics at the University of Toronto

How to Enliven the Mathematics Classroom
Suggestions for engaging students

March 4 – March 5, 2011
Doubletree Hotel
Anaheim/Orange County
Message from the President

Welcome to the Spring 2011 CMC³-South Conference!

I hope that all of you attending will enjoy the great array of activities, speakers, workshops and exhibitions that the CMC³-South board members have organized for this year.

First of all, I would like to thank the speakers, the exhibitors, the publishers, and the hotel staff for all of their efforts in helping the CMC³-South board members put together this conference. The CMC³-South board is a group of community college educators who have volunteered many hours of their time to promote the discussion of issues important to community college mathematics instructors by putting together this conference.

The Conference Chair, Sherri Wilson of Crafton Hills College, has coordinated a diverse and stimulating group of speakers. I am looking forward to hearing them speak. Art Nitta, the Site Chair for this conference, and Tammi Marshall, the Exhibitors Chair, have worked closely with the Hilton DoubleTree Hotel and with publishers and exhibitors to create an enjoyable and educational atmosphere in which those of us who are interested in mathematics can meet, have fun sharing ideas, and learn about new tools and technologies.

Other board members who have been essential to the success of this conference are Mark Greenhalgh – Treasurer and Registration Chair, Miriam Castroconde – Secretary, Rich Zucker – Webmaster, Paul Swatzel – Newsletter Editor, Hoat Le – Membership Chair, Bob Crise – Student Liaison, Maribel Lopez – Presider Chair, Bruce Yoshiwara – AMATYC and MAA Liaison, and Rod Elsdon – Contacts Coordinator.

Departing from the board this year is Sister Rita Basta. She has served as the Member-at-Large (North) for many years. We will miss her Bits and Bytes, and her lovely sense of humor. While Rita will be dearly missed, we are happy that she has suggested that Debbie Wong from LA Mission College stand to be elected for this post. Serving as Member-at-Large Central is Eduardo Arismendi-Pardi and as Member-at-Large South is Sally Van-DenBerg.

For those of you who are interested in becoming more involved with the CMC³-South board, please consider joining us after the post conference social hour. After the social hour with the exhibitors, the board members will adjourn to the Lobby Bar area to debrief the conference and are inviting those CMC³-South members who may be interested in becoming more involved with the board activities to join us. I hope to see you there!

As a final note, remember that the CMC³ is hosting the 15th annual CMC³ Recreational Math Conference in Lake Tahoe, Nevada, April 29-April 30, 2011.

Have a fun time at the conference today!

Patty George
Cerritos College
President, CMC³-South
Visit the Exhibitors
Laguna Newport
8:00am - 4:00pm

Casio
Hawkes Learning
Mathematics Diagnostic Testing Program
Pearson
Thinkwell
W. H. Freeman

Cengage Learning
MathTV
McGraw Hill
Texas Instruments
John Wiley & Sons

Many thanks to the following for:

Door Prizes:
- Casio
- Cengage Learning
- Hawkes Learning
- Hotmath
- MathTV
- McGraw Hill
- Texas Instruments
- W. H. Freeman

Morning coffee break:
- Cengage Learning
- AMATYC

Conference bags:
- Mathematics Diagnostic Testing Program

Conference bag items:
- Game night & Door prizes:
  - Pearson
**Friday Evening Reception and Entertainment**

**Begins at 6:00 pm**

**in the California Ballroom**

6:00 – 7:00 pm

**Wine and Pasta Reception**

Wine courtesy of Pearson Education

7:00 pm

**Friday Evening Program**

**Allan Ackerman**

Enjoy a mathematical magic show that will demonstrate mind-blowing effects using the commutative law of addition, the pigeonhole principle a.k.a. Dirichlet's Box, the binary number system, and mathematical induction. Several effects will be taught that can be used by attendees in their own classrooms. Learn how to use a new tool, amazement, to demonstrate some of the elementary laws of mathematics while enjoying Allan's version of magic mixed in with mind reading, forecasting, and gaming.

**Gaming to include Wii, and various Board Games.**

**Enter the raffle for the chance to win a complete Wii System and Board Games provided by Pearson Education.**
Hermosa Huntington Manhattan Room  
11:45 am to 1:30 pm  
Luncheon Keynote Speaker  

Dr. James Stewart  
Emeritus Professor at McMaster University  
and Professor of Mathematics at the University of Toronto  

How to Enliven the Mathematics Classroom  

Dr. Stewart will offer suggestions for engaging students’ attention in the mathematics classroom in such a way as to increase their understanding and make them more active learners. The methods include physical demonstrations, digressions on fascinating mathematical facts, historical anecdotes, contests, and musical performances.
Visit the Cengage Learning booth at CMC³!
Learn about our new titles for 2011 and innovative new learning solutions and teaching tools.

Welcome 2011 Keynote Speaker
Professor James Stewart
McMaster University, University of Toronto

Please attend presentations by Cengage Learning Authors:
Friday, March 3, 2011
1:00 pm – The Cengage YouBook and new features in Enhanced WebAssign

Saturday, March 4, 2011
Please consult the Schedule of Events to find presentations given by Cengage Learning authors throughout the day.

Brand-new Algebra Series by
Mark Clark and Cynthia Anfinson
of Palomar College

A new edition of Math Study Skills Workbook, 4/e by Paul Nolting. Designed to help reduce “math anxiety” and improve your students’ grades.

New editions from
Charles P. McKeague
of Cuesta College

Cengage YouBook is a Flash-based eBook version of the text that is interactive and customizable, and is fully integrated into Enhanced WebAssign!

To learn more, visit cengage.com/ewa
To watch a demo, visit cengage.com/community/stewartyoubook

To browse our complete list of titles, visit cengage.com/mathematics
A new, intuitive ehomework platform combined with an artificially intelligent, diagnostic assessment!

High-quality, accurate digital content created by experienced instructors!

An integrated, media-rich eBook!

Created by Math & Statistics Educators for Math & Statistics Educators
Saturday, March 5  9:00 – 10:00 AM

Redondo Room  The Calculus Success Program
Guillermo Alvarez

The typical calculus I student struggles with many challenges, from remembering their trigonometry and algebra, to understanding the depth and beauty of calculus. The Calculus Success Program helps them achieve mastery using an innovative teaching strategy. The regular lecture is sandwiched between a mini-lecture and video exercises.

Sunset Room  Pedagogical Content Knowledge:
The Case of Statistics
Monica Dabos

This talk will explore several aspects of Pedagogical Content Knowledge as it relates to Statistics teaching, and will provide hands-on activities to bring to the classroom to assist students’ understanding with difficult concepts such as p-value, Type I and Type II Errors.

Malibu Room  Managing Math Anxiety
Cheryl Ooten

The barriers to success in math are often rooted in student attitudes and negative thinking. Workshop participants will learn simple tools to facilitate safe, productive math classrooms. They will learn how to help students re-frame their “math blues” into proactive expectations. Math anxiety reduction and test-taking will be addressed.

10:00am-10:30am
Grand Ballroom Foyer
Coffee break and refreshments

Visit the exhibits in
Laguna Newport
Now that Senate Bill 1440 has passed in Sacramento, the Academic Senate for Community Colleges in California is developing a Transfer Model Curriculum (TMC) for Mathematics. What is the current draft of the Math TMC? How could it affect your current Math program? The Course Identification Numbering System, C-ID, is a mechanism for identifying comparable courses and facilitating articulation that will provide an independent number assigned to community college courses that are commonly transferred to UCs, CSUs, and private institutions. Will you need to change your course outlines of record?

Data Analysis is a cornerstone of introductory statistics. The process of looking at numerical data can be simplified to the same few guiding principles, whether working with data in one variable or investigating the relationship between two variables. We will focus on these major ideas.

Students’ struggle with word problems was not so much with math as with reading and process of translating English into the language of mathematics. Dr. Chang offers a highly structured strategy to make the critical thinking process visible to reduce students’ math anxiety and increase their understanding of word problems. Think the way mathematicians think; work the way mathematicians work. Learners at all levels benefit from such “scaffolding”. This contextualized learning process applies to students’ life and other academic studies.

Do you find teaching developmental math at times difficult and overwhelming? Do your students have so many weaknesses that it is hard to teach the math? Learn about a class model whose proactive approach can provide students with the support and strategies they need for success.
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<th>Time</th>
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<td>Statistical Experiments &amp; i-data Mario Martinez</td>
<td>Exemplary Developmental Math Resources from the San Diego Regional Math Exchange Theresa Gallo &amp; Terrie Teegarden</td>
<td>Author, Author! Writing your own text book Robert Prior</td>
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<td>Active Learning Strategies for the Mathematics Classroom Robert Brown &amp; Jodi Hanley –Terrien</td>
<td>How To Create Your Own Videos Stephen Toner</td>
<td>Visualization in the Mathematics Classroom Dr. James Stewart</td>
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<td>Statewide Math Assessment Test: What’s the Probability? Beth Smith</td>
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<td>Teaching Developmental Mathematics: It’s Not Just About the Content!</td>
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<td>Lynn Marecek &amp; MaryAnne Anthony</td>
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<td>Principles of Data Analysis</td>
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<td>Peter Avery</td>
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<td>Teaching Holistically to Success: Strategy for Word Problems and More</td>
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|              | Jeremiah A. Gilbert, Ph.D
High-quality textbooks don’t always have to come with high prices.

Coming soon...
• Essentials of Combined Introductory & Intermediate Algebra
• Basic Mathematics with Early Integers

*Suggested retail price

CSU/UC Mathematics Diagnostic Testing Project
MDTP tests measure readiness for mathematics courses and are approved for use by California Community Colleges until 2012

• The Algebra Readiness Test assesses preparation for first year algebra courses.
• The Elementary Algebra Diagnostic Test assesses preparation for second year algebra courses.
• The Intermediate Algebra Diagnostic Test assesses preparation for precalculus and other courses at that level.
• The Precalculus Diagnostic Test assesses preparation for calculus. This test is available in a 40-item version and a 60-item version.

MDTP has two on-line practice tests available to anyone with Internet access. Students can use the on-line tests to help prepare for precalculus and calculus level courses. http://mdtp.ucsd.edu/OnlineTests.shtml

For more information, contact MDTP’s California Community College Coordinator
Mary Anne Anthony at (714) 364-0646
or e-mail to cccmdtp@attglobal.net
http://mdtp.ucsd.edu

California Mathematics Council
Community Colleges
Mark your calendar for the
15th annual spring conference in Lake Tahoe!
MontBleu Hotel and Casino
April 29-April 30, 2011
Join us for the CMC³ 38th annual fall conference!
Monterey Portola Hotel and Spa
December 9 and 10, 2011
www.cmc3.org
37th AMATYC Annual Conference

Austin, TX
November 10-13, 2011

Conference Theme: Shootin' for the Stars

www.amatyc.org
Statistical Experiments & i-data
Mario Martinez

Conducting in-class statistical experiments and simulations generating data by means of the i-phone, i-pad, Blackberry, standard cell phones, and analyzing the data using inferential statistics.

Exemplary Developmental Math Resources from the San Diego Regional Math Exchange
Theresa Gallo & Terrie Teegarden

A collaboration of San Diego community colleges shares peer-reviewed instructor-developed resources including exemplary classroom activities and best practices in pedagogy. This workshop will describe the workings of the online community, highlighting the variety of resources available to developmental math instructors. Participants will receive samples of the classroom activities to review.

Author, Author!
Bob Prior

What is involved in writing a textbook, and how can I contribute?” This presentation looks at the journey of one textbook author, from idea to publication, and the many hands that helped make a dream a reality. We also discuss copyright and alternative ways to get ideas to the masses.

11:45am-1:30pm
Hermosa, Hunting, Manhattan
Lunch and Keynote Speaker

Dr. James Stewart
How to Enliven the Mathematics Classroom
Sequoia Room  
Encouraging Critical Thinking and Communication in Developmental Math  
Mark Clark

How can we challenge our students to understand the meaning of math within real-world applications? How can we make students think, write more and look at results critically? This talk will focus on practical techniques and activities that help students connect the concepts to the skills being taught.

Lassen Room  
Innovative Approaches to Developmental Mathematics at Pierce College  
John Harland & Benjamin Smith

Overview of new approaches for teaching developmental mathematics at Pierce College. Following the overview there will be an informal panel discussion with several of the creators.

Yosemite Room  
Narrative Databases and a Tablet PC Teaching Platform  
Frank Ma

The concept of narrative databases and an inexpensive, easy to implement Tablet PC teaching platform based on narrative databases will be presented. Examples and the construction of the databases will also be given.

Redwood Room  
Open Educational Resource Organizations' Role in Our Educational Communities  
John Michael Ottina

The presentation will address the following questions concerning O.E.R. Organizations and the mathematics education community: What is Open Access? What are the different forms of Open Access? What is O.E.R.? Why use and support O.E.R.? Where is our academic community? Who are the stake holders for the mathematics community? What are the common goals of all the stake holders? The importance of pedagogy for desired outcomes. How do our measures affect our educational outcomes? Examples of O.E.R. Projects. How can we support each other for our common goals? How do we move forward?
### Visualization in the Mathematics Classroom

**Malibu Room**

**Dr. James Stewart**

Different students learn in different ways. Some students have a strong visual sense and need to be able to visualize mathematical concepts as much as possible. Examples will be given from low tech to high tech: both static images and computer animations.

### Online Learning and the Interactions While Learning Mathematics

**Lassen Room**

**Cherie Ichinose**

Research surrounding online learning has focused primarily on college courses where students’ learning is self-directed and requires limited interaction. This presentation will explore findings focused on high school students’ interactions with online content and the effect teacher and peer engagement has on their mathematical learning.

### Can We Talk?

**Sequoia Room**

**Andreana M. Grimaldo**

Discussion Boards are not just for online courses. Discussion Boards can be an integral part of the learning process to support traditional courses, self-paced environments, online courses, computer-lab programs, or any educational environment. Attendees will be exposed to different types of successful assignments, implementation strategies to get a high-level of participation, and methods of student evaluation.

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**3:30pm-4:00pm**

**Laguna Newport Corridor**

**Exhibit Hall**

**Social and door prize drawings**
Redwood Room  Teaching Statistics
Using SPSS
Steven Davis

We will demonstrate a more effective way of teaching statistics by using SPSS, statistical program software, on a computer. Also students can gain a better conceptual understanding when not burdened with looking up numbers in a table or inputting numbers in a calculator.

Yosemite Room  Finding, Creating, and Sharing
Math Video Resources on the Web
Julie Harland

I will share resources I have found on the web, and show how I create math videos using a Tablet PC, Windows Journal, and Camtasia, and post on YouTube. Also, I will show how to easily organize a website.

Redondo Room  Active Learning and Student
Engagement for the Mathematics Classroom
Robert Brown & Jodi Hanley - Terrien

An interactive workshop illustrating active learning strategies for the mathematics, most of which you will be able to use immediately in your classes. This workshop also addresses the ways in which the language of algebra can impact a student’s understanding of math topics.

Sunset Room  How To Create Your Own Videos
Stephen Toner

Attendees will see several ways to produce online videos. Varying costs of production, online storage options, as well as advantages and disadvantages of each method will be discussed.
Malibu Room

One Statewide Math Assessment Test: What's the Probability?

Beth Smith

The state is undertaking a huge project to make available to colleges a single math assessment test for placement. What does this mean for colleges? For math faculty? For students? Learn more about how this option can help your local assessment for placement process.

Lassen Room

Balancing the Equation: The Effect of Alternate Course Formats on Student Retention and Performance

Jeremiah A. Gilbert, Ph.D.

With the rise of nontraditional students at the college level, alternate course formats have been added to address student need. These alternate formats include online, short-term, and weekend courses. This presentation looks at the effect of these alternate course formats on student retention and performance.

Sequoia Room

Bring Your Teaching into Online Courses with Online Videos and Office Hours

Denise Robichaud

Wouldn’t it be nice to actually teach your online students instead of just managing their learning resources? The presenter will share how she creates YouTube videos and holds office hours at WiZiQ.com to teach her students. A demonstration of the quickest and cheapest way to get started will be included.

3:30pm-4:00pm

Laguna Newport Corridor

Exhibit Hall

Social and door prize drawings
Who's Who in CMC³-South

CMC³-South Board and Conference Committee Members

Past-President: Carol Murphy
President: Patty George
President-Elect: Sherri Wilson
Treasurer: Mark Greenhalgh
Secretary: Miriam Castroconde
Webmaster: Rich Zucker
Student Liaison: Bob Crise
Newsletter: Paul Swatzel
Membership Chair: Hoat Le
Contacts Coordinator: Rod Elsdon

Spring Conference
Site Chair: Art Nitta
Exhibitors Chair: Tammi Marshall
Presiders Chair: Maribel Lopez

Liaisons
AMATYC, MAA: Bruce Yoshiwara
CMC: Patty George

Members at Large
North
Sister Rita Basta
Central
Eduardo Arismendi-Pardi
South
Sally VanDenBerg
Teaching Your Way

Pearson provides instructors with a rich and flexible set of course materials that make it easy to deliver all or a portion of your course online.

Learning Your Way

Pearson’s technology is available to students whenever and however they want. Abundant practice items, immediate feedback, and step-by-step tutorials give additional help when they need it.

*MyMathLab* and *MyStatLab* are each a series of online courses that accompany Pearson’s textbooks in mathematics and statistics. *MyMathLab* and *MyStatLab* engage students in active learning—they are modular, self-paced, accessible anywhere with web access, and adaptable to each student’s learning style. Instructors can easily customize *MyMathLab* and *MyStatLab* to better meet their students’ needs.

Students and educators alike have benefited from *MathXL’s* dependable and easy-to-use online homework, tests, guided solutions, multimedia, and tutorial exercises. Pearson’s service teams provide training and support when you need it, and *MathXL* offers the broadest range of titles available for adoption.

Learn how you can use *MyMathLab* for Course Redesign at [www.mymathlab.com/course-redesign](http://www.mymathlab.com/course-redesign) or visit the Pearson booth. You can also contact Megan Donnelly at megan.donnelly@pearson.com or 949.463.0502.