President’s Message
Debbie Kula, Sacred Hearts Academy

Welcome to our special conference edition of the HCTM newsletter. In just three short months, educators from across Hawaii will gather for exciting professional development and enrichment opportunities. Three-hour in-depth sessions on Friday evening and 90-minute sessions on Saturday, sixty different workshop sessions in all, will offer ideas to make our classrooms come to life.

Attend sessions and create a kite or a dinosaur, learn to use computer software or graphing calculators effectively, create a “connected” classroom, visit the stock market, experience geometry come to life, deal with data, apply standards, encourage critical thinking… visit the vendor exhibits and see what programs and support opportunities are available… connect with colleagues and begin conversations that will engage and inspire your students.

Conference registration is online this year. Please give us feedback about the process.

Your HCTM Board of Directors is excited about the program for this conference. We hope to see you at Sacred Hearts Academy on January 16 and 17, 2009. Details for the conference can be found in this newsletter as well as our website: http://hctm.org. Check it out and join us for mathematics and collegiality. We have a great slate of presenters and I know you will find several ideas to take back to your classrooms.

Debbie
Calendar of noteworthy events:

**Association for Supervision and Curriculum Development (ASCD)**
- **Professional Practices That Work**  
  - **Annual Conference**: October 24–26, 2008  
  - Los Angeles, Calif.
- **HCTM/T³ Regional Conference**: January 16-17, 2009  
  - Sacred Hearts Academy
- **T³ International Conference**: Feb. 27-March 1, 2009  
  - Seattle, WA
- **NCTM Annual Meeting**: April 22-25, 2009  
  - Washington, D.C.
- **State Math Championships**: May 2, 2009  
  - BYU-H
- **CMC (California Math Council) Conferences**
  - **South: Palm Springs**: Nov. 7 and 8, 2008  
    - Palm Springs, CA
  - **North: Asilomar**: Dec. 4-7, 2008  
    - Monterey Peninsula, CA
  - **Central: Monterey Peninsula**: March 13-14, 2009  
    - Monterey Peninsula, CA
  - **Contact**: CMC at 888-CMC-MATH; cmc-math.org

Have another event you think others in our community would like to know about?  
Feel free to submit interesting websites and articles as well!  
Email ksakaguc@iolani.org.

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**High School Math Teachers**  
Meryle Hirotsu (HS Director)

Hello! This is your high school director. I am a retired high school math teacher from Los Angeles Unified School District.

As the high school director for HCTM, I am interested in knowing which areas you as high school math teachers want to learn more about. With the economic crises and budget cuts, professional development has been pushed aside, but HCTM is here to serve you.

Is there anything you’d like to learn more about? Please email me at mhiro2006@yahoo.com with your ideas and suggestions. If we get enough feedback, then I’d like to plan a secondary math mini-conference in the spring.

Please don’t forget to register on-line for our super HCTM Conference in January 2009.

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Please notify Sylvia Ching, Membership Director, sylvia.ching@maryknollschool.org if your membership expiration dates are incorrect.

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**Be a Part of Research**  
Mike Travis and Ashlee Macduff, Ph.D.  
Students in Educational Technology, University of Hawai’i at Manoa

As part of our Quantitative Analysis class at the University of Hawai’i at Manoa, we are conducting research on the use of technology in high school mathematics classrooms beyond the use of the graphing calculator. If you can spare 15 minutes out of your busy schedule to take an online anonymous survey about your educational background and provide details on how you integrate technology in your own classes, please go to http://portal.coe.hawaii.edu/survey.php?survey=270 You will see instructions for taking the survey and a consent form for participating in this research study. Survey results will be available upon request (mtravis@assets-school.net) Thank you.
JOIN NCTM and Earn HCTM $$$

Time to renew your National Council of Teachers of Mathematics (NCTM) membership? Haven’t joined NCTM yet? Now’s the time to do so and earn HCTM rebate dollars as a bonus! It’s easy. Just go online to http://www.nctm.org/membership and sign up for a full membership or an e-membership. HCTM will receive $5 for each new NCTM member (or for each member renewing after a year’s lapse time in membership) or $3 for each renewed NCTM member. Just indicate yourself as a member of the affiliate HCTM when you fill out the membership form. Those who choose to join NCTM for multiple years will earn HCTM multiple rebates!

Enjoy the benefits of an NCTM membership and help out your local mathematics teachers.

NCTM Board Elections

Individual NCTM members should have received election materials, including nominees’ biographies and return ballots. This year, ballots may be submitted by mail or online, but they must be received by October 31, 2008. There are a few candidates with local ties and even a current HCTM member, David Masunaga.

NCTM Affiliate Leadership Circle

As an affiliate of the National Council of Teachers of Mathematics, HCTM is eligible to participate in the NCTM Affiliate Leadership Circle, a program designed to promote HCTM on a national level. The NCTM Affiliate Leadership Circle recognizes affiliates like HCTM at three different levels. Affiliates with 35% or more of its members who are also NCTM members will be recognized

- at the Delegate Assembly each year of membership
- in the NCTM annual meeting’s Daily News
- in the NCTM News Bulletin
- on the NCTM website
- in the Affiliate News, and
- an article written by the NCTM president for publication in the NCTM Affiliate Leadership Circle member’s newsletter.

In order to apply for this recognition, HCTM will submit its members’ last name and zip code to NCTM. This membership list will be used only for NCTM membership analysis. If you do not wish to share your last name and zip code with NCTM, please write Kimlyne Slagel at kislapel@kshe.edu and your information will be deleted from the list.

Calling All Education Majors!!!
Johanna Kuwazaki, Student Representative

COME TO THE MATH CONFERENCE ON FRIDAY JANUARY 16TH, AND SATURDAY JANUARY 17TH!!!

Going to school, writing papers, trying to prepare for the next test, we as education majors get lost in the hustle and bustle of the everyday college life. What are we going to school for? To become teachers, and do the best job of it we can for younger generations. Unfortunately, with how busy our schedules get, we do not have the time to sit and think about how to become a better teacher. This conference is going to enable us to learn new ways of teaching, new methods that we can use to implement in our future classrooms. Instead of creating a headache of how on earth we are going to struggle to teach this math lesson, we now have experienced educators at this conference that have already come up with effective teaching methods. Going to this conference will give you a break from the everyday chaos, and take time to really enjoy, and explore the profession that you are getting into.

Some of the workshops that will be offered are: Developing Algebraic Thinking in Elementary Grades, Middle School Math and Science with TI Technology, and Technology to Excite Your Students. The great thing about this conference is that it will work for all Education Majors, whether you are going to be teaching elementary, middle, or high school. It is important for us to be caught up with the new technology that is constantly upgrading in order for us to be truly effective teachers. In short, you do not want to miss this conference!
Engage – Inspire – Connect

T³ Regional Conference

For Mathematics and Science Teachers  K-12+

Hosted by: T³ (Teachers Teaching with Technology™) and HCTM (Hawaii Council of Teachers of Mathematics) and Sacred Hearts Academy

3253 Waialae Ave.
Honolulu, Hawaii

Mark your calendars for January 16-17, 2009.

Join your colleagues for two days of standards-based professional development that includes classroom applications of technology and ideas to help make your schools and classrooms more relevant for students’ futures.

✧ **Attend** beginner through advanced technology sessions - as well as limited tech, low-tech, no-tech sessions
✧ **Learn** from experienced educators (local and national)
✧ **Focus** on problem solving, logical reasoning, multiple representations
✧ **Receive** lots of great classroom activities and ideas
✧ **Return** to our classroom re-energized and with a renewed enthusiasm for teaching
✧ **Speak** to on-site vendors
✧ **Win** prizes to enhance your classroom

**Dates:**

- **Friday** (pre-registration required. Go online to [www.hctm.org](http://www.hctm.org) to reserve a seat)
  - 4:00 – 5:00 PM  (registration)
  - 5:00 - 8:00 PM  (includes heavy pūpūs)

- **Saturday**
  - 8:00 – 9:00 AM  (registration/continental breakfast)
  - 9:00 AM – 2:45 PM  (includes lunch)

**Cost**

- **$35** for current HCTM members in good standing (dues paid) as of December 31, 2008
- **$50** non-members (fees includes one-year HCTM membership)
- **$20** students (includes one-year membership)
- **$10** Late fee for payments after **December 15, 2008**

**For more information go to [www.hctm.org](http://www.hctm.org)**
Friday Night Sessions

Choose one session and go online to reserve a seat at www.hctmt3conference.eventbrite.com. Seats are limited!

Session A

**Activities to Nspire Pre-Service Math Teachers** (Patsy Fagan, Drake University)

Know the appropriate use of technology can help prepare pre-service teacher for their first teaching jobs. Participate in hands-on activities with the TI-Nspire CAS calculator that can give an advantage to all pre-service teachers in student teaching and first year on the job!

Session B

**Do We See Representations Differently? A Problem Solving Workshop for Understanding Differences in Elementary Teachers’ Approaches to Mathematics in the US and Japan**

(Bryan Moseley, Chaminade University of Honolulu)

This workshop will focus on group activities designed to increase participant's understanding of connections between mathematical representations (e.g. word problems, pictures, and notations) and discuss ways that US and Japanese elementary teachers may view these representations differently in the context their teaching practice.

Session C

**Representing Two-Digit Multiplication** (Trudy Mitchell)

We will look at a variety of strategies/algorithms for multiplying 2-digit numbers to make sense of rules and procedures, including algorithms from other countries.

Session D

**Developing Algebraic Thinking in Elementary Grades** (Joe Zilliox, University Hawai‘i at Mānoa)

Pattern, function and algebra activities that engage children in algebraic thinking.

Session E

**Middle School Math and Science with TI-Technology** (Tara Windle, Jackson Middle School)

This session will allow teachers to experience both math and science activities that focus on authentic data collection using sensors and data analysis using graphing calculators.

Session F

**Navigating with the TI-73 and the TI-Navigator** (Kay Wolhuter, University of Minnesota, Duluth)

Participants will experience how the TI-Navigator system engages students in interactive learning. The content area of algebraic reasoning, geometry, and data analysis will provide the context for the explorations.

Session G

**Using Manipulative and Activities to Teach and Review Geometry Concepts**

(Chris Mikles, College Preparatory Mathematics)

Use hinged mirrors and rubber bands to investigate similarity, transformations, polygons, and more. See how to develop conceptual understanding with simple visualizations and manipulative tools.

Session H

**Go Fly a Kite** (Lynda Vaughn, Agile Mind Representative)

Learn to make tetrahedral kites—a fun classroom activity for students in grade 7-12, or for after-school programs.
Session I

**Teaching Geometry with TI-Nspire** (Doug Roberts, Franklin Heights School)
We will learn how to use the dynamic geometry in the TI-Nspire to teach geometry in the math classroom.

Session J

**The Case for CAS** (Joe Fiedler, California State University, Bakersfield)
Symbolic processing calculators have been available since the HP28 was introduced in 1987; we will finally see how a CAS system can be used.

Session K

**Data, Nspire, Fathom, and Vernier Probes** (David Kapolka, Tech Product Specialist/Consultant)
Using multiple technologies we will examine how these tools can best be used to teach high school math with accumulated scientific data.... Optional: Bring a laptop.

Session L

**Energize your Math Class with Dynamic Geometry!** (Mary Pat Sjostrom, Chaminade University of Honolulu)
Dynamic geometry software allows students to construct and investigate the properties of mathematical objects. Participants will be introduced to the tools and commands necessary to use The Geometer’s Sketchpad (commercially available from Key Curriculum Press) and Geogebra (free, open-source software). A packet of classroom activities will be shared.

Session M

**Making the Grade: Using Technology in Mathematics to Improve Student Performance**
(Jason Crossett & Jessica Elbern, Pearson Publishing, David Furuto & Ka Lun Wong, BYUH)
There are many challenges to both teaching and learning mathematics in the largely digital age in which we now find ourselves. In this presentation, we show how the most successful programs in North America increase retention rates, improve pass rates, and affect subsequent student success with the use of computer software. We will highlight and discuss how the use of computer-based programs can improve student performance and make teaching more effective and efficient for instructors. We will also discuss various institutional and course needs as well as implementation strategies with a focus on Pearson Education’s MyMathLab and MathXL programs.

Go to [www.hctm.org](http://www.hctm.org) for a complete list of Saturday's speakers and descriptions of their sessions.

Register online at [www.hctmt3conference.eventbrite.com](http://www.hctmt3conference.eventbrite.com). Friday night sessions must be pre-registered online. No reservations needed for Saturday sessions. Credit card payment may be made online. For payment by check or Purchase Order use enclosed payment form.
Engage – Inspire – Connect
T³ Regional Conference
Payment Form

Name __________________________________________________________

E-mail address __________________________________________________

Home Address __________________________________________________

City _____________________________ State ____________ Zip code ______________

School __________________________________________________________

Membership (check one): New ______ Renewal:________

Registration Fees: (check all that apply)

______ $50 Conference and one-year HCTM Membership (non-members/renewing members)

______ $35 Conference HCTM members in good standing (dues paid as of Dec 31, 2008)

______ $20 Students Conference and one-year membership HCTM

______ $10 Late fee for registration after December 15, 2008

Make Checks payable to: "HCTM". School purchase orders use "DOE Vendor ID#116991 Hawaii Council of
Teachers of Mathematics".

Mail this form and payment to:
   Sylvia Ching
   c/o Maryknoll Grade School
   1526 Alexander Street
   Honolulu, HI  96822