

# The Math ConneXion

Newsletter of the Illinois Mathematics Association of Community Colleges

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Number 2



**Rodger Hergert**  
**President**

Rock Valley College  
3301 N Mulford Rd  
Rockford, IL 61114-5699  
(815) 921-3456

**Keven Hansen**  
**President Elect**

Southwestern IL College  
2500 Carlyle Ave  
Belleville, IL 62221  
(618) 235-2700 ext. 5611

**Carol Schmidt**  
**Past President**

Lincoln Land CC  
5250 Shepherd Road  
Box 19256  
Springfield, IL 62794-9256  
(217) 786-2385

**Terra Stamps**  
**Secretary**

Prairie State College  
202 South Halsted St.  
Chicago Heights, IL 60411  
(708) 709-3608

**Steve Kifowit**  
**Treasurer**

Prairie State College  
202 South Halsted St.  
Chicago Heights, IL 60411  
(708) 709-3954

## President's Message

It is so hard to believe that I'm much closer to the end of my term than the beginning. I'm sure it's because the conference is the culmination of the IMACC president's year in office and the period right before the conference is the busiest time of that year.

As usual, you'll find a tentative schedule of talks for the conference in this issue. I tried to have something for everyone and I hope that you find the speakers to be both informative and entertaining. The online version of the newsletter includes a description of each session, too (starting on page 13).

Related to the conference, we give out a number of awards at the conference each year, but we can't give out any without nominations. Please take the time to nominate a deserving colleague for the Distinguished Service, Teaching Excellence, James Armstrong, or Life Membership awards.

And while you're in the nominating mood, take a look around your classrooms and campuses for outstanding students to nominate for the Memorial Fund Scholarship. Most of our member institutions are not so large that the excellent math students get lost in the crowd. You know who they are, so please encourage them to apply for the scholarship.

On the next page, you'll notice some proposed By-laws & Constitution changes. These are fairly minor, but there will be more coming in the next year as we finally get our tax status in order. There will be much more to say about this at the Business meeting on Saturday March 27th, but IMACC owes much gratitude to Steve Kifowit for his persistence over the past several years to see this through to completion.

Finally, I want to thank my colleagues at Rock Valley College for all that they have done to support my efforts during the past year (including putting up with having an "absentee chair" at times). I wish you all could work with such a fabulous group of people. Actually, RVC should be advertising for a position in our department soon, so maybe you really could work with this fabulous group!

That's all I have. For the third (and final) time, this is Rodger, over and out.

Rodger Hergert, IMACC president

# Proposed By-laws & Constitution Changes

## CONSTITUTION

### Article V – Officers

Rationale: to make better use of the expertise of the Past-President , designating as an officer

#### Proposed Amendment:

Strike “and”; insert “and Past-President”; insert “and the President becomes Past-President”

#### If adopted, will read:

The officers of the Association are President, President-Elect, Secretary, ~~and~~ Treasurer, and Past-President, to serve for a term of one (1) year. The President-Elect becomes President and the President becomes Past-President automatically in the following year, when the elections select a new President-Elect, Secretary, and Treasurer.

### Article X – Parliamentary Authority

Rationale: to update the title

#### Proposed Amendment:

Strike “;”; insert “Revised”; italicize

#### If adopted, will read:

The rules contained in *Robert's Rules of Order*, Newly Revised, govern in all cases to which they are applicable and in which they are not inconsistent with the Constitution.

## BY-LAWS

### Article II – Duties of Officers

#### Section 1

Rationale: to make the Past-President a voting member of the Board

#### Proposed Amendment:

Strike “serve as a non-voting member on the Board that immediately follows his or her presidency”

#### If adopted, will read:

Section 1. The President shall:

- a. preside at all meetings of the Association;
- b. serve as Chairman of the Board of Directors and prepare the agenda for all Board meetings;
- c. act as ex-officio member of all committees;
- d. organize and coordinate the program of the Annual Meeting;
- e. notify members of the Association concerning membership meetings; .
- f. ~~serve as a non-voting member on the Board that immediately follows his or her presidency.~~

#### Section 5 (new)

Rationale: to delineate duties of the Past-President

#### Proposed Amendment:

Insert “The Past-President shall: a. serve as a voting member on the Board in the year that immediately follows his or her presidency; b. serve on the Constitution and By-laws Committee and keep the official copy of the IMACC Constitution and By-laws; c. assume other duties as assigned by the Board of Directors.

#### If adopted, will read:

Section 5 – The Past-President shall:

- a. serve as a voting member on the Board that immediately follows his or her presidency;
- b. serve on the Constitution and By-laws Committee and keep the official copy of the IMACC Constitution and By-laws;
- c. assume other duties as assigned by the Board of Directors.

## New ConneXion Editor This Summer

Diane Koenig (Rock Valley College) will take over as the editor of *The Math ConneXion* beginning with the next issue. Please make her job easier by sending any newsworthy items (new hires, award announcements, job openings, etc.) to Diane at [d.koenig@rockvalleycollege.edu](mailto:d.koenig@rockvalleycollege.edu). The deadline for the summer issue is May 15th.

## Fast Facts About Allerton and the IMACC Conference

Allerton House is the site of the IMACC Annual Conference. Built as a private home by Robert Allerton in 1900, it was developed into a conference center in 1946. It is located just west of Monticello, IL and is part of the University of Illinois system. More information (including directions) can be found at <http://www.continuinged.uiuc.edu/allerton/>.

- Lodging rooms for the annual IMACC Conference are located in the Main House, the Evergreen Lodge, the Gate House and the Little House in the Woods. Room configurations have changed this year. Quarters are assigned on a first-come, first-served basis. There is very limited space for spouses, and the conference is not designed for, nor do the facilities adequately accommodate children.
- There is wireless internet access for all of the first floor, and possibly all of the main house by conference time.
- Conference meals are preplanned by the Conference Coordinator. Special dietary needs can be accommodated if you contact the Conference Coordinator by March 1, 2010. Snacks are served throughout the day and evening, and publishers are present with textbooks on display for your perusal. Publishers also usually donate towards our evening social hours. All amenities are included in the registration fee.
- Attire has been somewhere between corporate casual and unkempt. You may want to bring: an umbrella (spring rain, some buildings not connected), hiking shoes, and a camera.
- There is no evening meal on Thursday night so plan accordingly.
- There will be a couple of computers with internet access, FAX and printer available.
- In years past, some participants prefer to stay at the Best Western hotel in downtown Monticello; there is a block of rooms reserved until March 1, 2010. Be sure to state that you are with the IMACC conference. Rooms cost \$85.99 + tax per night. [217-762-9436]
- No matter where you stay off-site, you must make your own reservations. Please, indicate **no lodging** on your reservation form if you are not staying at Allerton.

Questions or concerns regarding Allerton House should be directed to Diane Martling at William Rainey Harper College by phone, 847-925-6337 or 708-528-0154 (cell) or e-mail at [dmartlin@harpercollege.edu](mailto:dmartlin@harpercollege.edu) or [dmartling@sbcglobal.net](mailto:dmartling@sbcglobal.net).

## Do You Know the Way to Allerton?

- 1.) Turn off Interstate 72 at Monticello exit 164 onto Bridge Street. Turn left (south) off of the ramp and drive towards Monticello. Turn right (west) at the first crossroads, which will be old Route 47.
- 2.) Travel approximately 2 miles west on old Route 47 and turn left (south) onto County Road 625E, located just past the brown "Allerton Park and Conference Center" sign.
- 3.) Continue on County Road 625 E for approximately one mile. At the stop sign, turn right (west) onto County Farm Road.
- 4.) Turn left (south) onto the first road you come to, which will be Old Timber Road, and go through the brick columns. Follow signs to main parking lot to the left. Conference Center guests may park in the main lot and follow signs to the Conference Center.

**For your convenience, a map is also included on page 12.**

IMACC 35th ANNUAL CONFERENCE SCHEDULE – March 25-27, 2010  
(Tentative)

THURSDAY March 25th

- 6:00-? Room check-in (Allerton main desk)
- 7:00 – 9:00 Meet and Greet
- 9:00 Mixer door prize awarded

FRIDAY March 26th

- 7:15 – 8:15 – Breakfast buffet
- 8:15 – 8:30 – Welcome, announcements
- 8:30 – 9:30 – Opening session speaker – Doug Shaw: “Activities Exploring the Collatz Conjecture – An Unsolved Problem in Fifth Grade Arithmetic”
- 9:40 – 10:40 – Concurrent sessions
  - Kathy Almy: “Success by Design: a developmental math redesign that works”
  - Randy Gallaher & Kevin Bodden: “Engaging Students with Guided On-Line Learning”
  - Omar Adawi & Sunil Koswatta: “Birds of A Feather: Panel Discussion on Discrete Mathematics”
  - Joe Sukta: “Projects for Assessment in Business Statistics”
- 10:40 – 11:00 – Coffee break, exhibits
- 11:00 – 12:00 – Concurrent sessions
  - Bob Cappetta: “Something borrowed, something new: Calculus problems to promote understanding”
  - Diane Koenig: “Podcasting: It’s Easier Than You Think!”
  - Arunas Dagys & Patricia Petkus: “Mastery Learning and My Math Lab in Intermediate Algebra”
  - IIT Faculty: “A New Ph.D. Program in Collegiate Mathematics Education at IIT”
  - Brian Mercer: “How Can I Incorporate Technology in My Classes?”
- 12:00 – 1:00 – Lunch buffet
- 1:00 – 2:15 – Park activities
- 2:15 – 3:15 – Concurrent sessions
  - Doug Shaw: “What Else Can You Do with an Open-topped Box?”
  - Michael Hardy: “Teaching with a Tablet PC”
  - Brenda Alberico: “Conic Sections and Skis”
  - Michael Sullivan: “Engage to Motivate”
  - Brittany Walker: “All Math Software is not Created Equal: What’s the Difference?”
- 3:15 – 3:45 – Coffee break, exhibits
- 3:45 – 4:45 – General session – IMACC History by Jim Trefzger & Friends
- 4:45 – 5:45 – Social hour/Committee Meetings
- 5:45 – 7:00 – Dinner and awards
- 7:00 – 8:00 – Evening program – Doug Shaw: “Extreme Mathematics Results”
- 8:10 – ? – IMACC Board of Directors meeting
- 8:00 – 9:00 – Evening activity – board games, card games, Wii games

SATURDAY March 27th

- 7:15 – 8:15 – Breakfast buffet
- 8:15 – 9:15 – IMACC Business Meeting
- 9:25 – 10:25 – General speaker – Ed Burger: “Crafting Creative Thinkers”
- 10:25 – 10:40 – Coffee break
- 10:40 – 11:40 – Concurrent Sessions
  - Brian Durham: “What’s Happening with ICCB”
  - Jim Olsen & Allison McGann: “Catalan Numbers and Pascal’s Triangle”
  - Barb Becker & Pat Army: “Using Mathematical Modeling to Teach College Algebra”
  - Connie McLean, Albert Stacy, & Laura Snook: “No More Excuses”
- 11:45 – 12:00 – Scholarship Raffle & Closing Remarks
- 12:00 – 1:00 Lunch buffet



Please circle the appropriate dollar amount depending on your specific conference package:

- ∞ Make checks payable to : **IMACC**; *if a name must be used: IMACC/Steve Kifowit, treasurer*
- ∞ “Members” must have paid dues for 2009-2010 by the postmark deadline for the conference (March 1, 2010) to get the member-rate for the conference.

Package Choice	Member	Non-Member	Grad Student	Institutional Representative
Entire Conference: Thurs & Fri Lodging, Fri & Sat Meals	\$350	\$385	\$ 255	N/C
Registration Thurs Lodging, Fri Meals	\$230	\$250	\$170	N/C
Registration Fri Lodging, Fri & Sat Meals	\$265	\$285	\$190	N/C
Registration, no lodging Fri & Sat Meals	\$180	\$200	\$130	N/C
Registration, no lodging Friday Meals	\$130	\$150	\$90	N/C
Registration, no lodging Saturday Meals	\$105	\$120	\$75	N/C

- ∞ Late (postmarked after Monday March 1) registrations and on-site registrations: add \$25 late fee.

TOTAL:

**Refund Policy:**

- ∞ Those canceling before the March 1 deadline will receive the full refund.
- ∞ Those canceling after the March 1 deadline should not expect a refund, but may appeal their circumstances to the IMACC Board for consideration. Appeals must be sent in writing to the IMACC President Rodger Hergert.

**Confirmation**

Those requesting early confirmation of their conference registration should include a correct e-mail or a self-addressed stamped envelope with your registration form: please indicate YES or NO on the front of the registration form. Receipts will be included in all conference folders at Allerton.

**Make your check payable to *IMACC* :**

If your school requires that a name on the check must be included, please use **IMACC /Treasurer, Steve Kifowit,** not Diane Martling

Please send all registration materials (including the check) to:

Diane Martling Math/MS  
William Rainey Harper College  
1200 W. Algonquin Road  
Palatine, IL 60067  
847-925-6337

OR

Diane Martling  
4909 Daniel Drive  
Crystal Lake, IL 60014  
815-356-5292 Home or 708-528-0154 cell  
dmartling@sbcglobal.net

Fax: 847-925-6887 Attn: Diane Martling  
[dmartlin@harpercollege.edu](mailto:dmartlin@harpercollege.edu)

No registration is complete without a **fully completed registration form** and a check

## IMACC Awards

Please submit nominations to Paul McCombs (Awards Chair) by March 1, 2010.

**Distinguished Service Award** is to be given annually to a four-year college or university professor who continues this tradition of cooperation and assistance with the two-year colleges.

**Life Membership Award** is for IMACC members who are retiring.

**James Armstrong Award** is to be given annually to a four-year college or university professor who continues this tradition of cooperation and assistance with the two-year colleges.

Go to the IMACC website (<http://www.imacc.org>) for more details on these awards.

## Upcoming Conferences

Dates	Organization	Location
March 11-14, 2010	ICTCM	Chicago, IL
March 25-27, 2010	IMACC	Monticello, IL
April 9-10, 2010	ISMAA	Rock Island, IL
April 21-24, 2010	NCTM	San Diego, CA
August 5-7, 2010	MAA (MathFest)	Pittsburgh, PA
October 28-29, 2010	NCTM (regional)	New Orleans, LA
November 11-14, 2010	AMATYC	Boston, MA
January 5-8, 2011	AMS/MAA	New Orleans, LA

## IMACC Board of Directors

2007 – 2010	2008 – 2011	2009 – 2012
<a href="#">Roberta Christie</a> Shawnee CC 8364 Shawnee College Rd Ullin, IL 62992 (618) 634-3328	<a href="#">Randy Gallaher</a> Lewis & Clark CC 5800 Godfrey Rd. Godfrey, IL 62035 (618) 468-4848	<a href="#">Paul McCombs</a> Rock Valley College 3301 N Mulford Rd Rockford, IL 61114 (815) 921-3459
<a href="#">Amy Curry</a> College of Lake County 19351 W. Washington St. Grayslake, IL 60030 (847) 543-2493	<a href="#">Andy Geary</a> Harper College 1200 W Algonquin Rd. Palatine, IL 60067-7398 (847) 925-6526	<a href="#">Scott Elliott</a> John A. Logan College 700 Logan College Road Carterville IL 62918 (618) 985-3741 ext. 8394
<a href="#">Abbas Meigooni</a> Lincoln Land CC 5250 Shepherd Road Springfield, IL 62794-9256 (217) 786-4950	<a href="#">Tony Paris</a> Carl Sandburg College 2400 Tom L Wilson Blvd Galesburg, IL 61401 (309) 341-5443	<a href="#">Amy Madden</a> Moraine Valley CC 9000 W College Pkwy Palos Hills, IL, 60465 (708) 974-5233

## Institutional Members

Black Hawk College	2008		Lincoln Land Comm. College	2010
Carl Sandburg College	2010		McHenry County College	2011
College of DuPage	2009		Moraine Valley Comm. College	2009
College of Lake County	2010		Morton College	2007
Elgin Community College	2009		Oakton Community College	2009
Harper College	2010		Parkland College	2009
Illinois Central College	2009		Prairie State College	2009
Illinois Institute of Technology	2010		Richland Community College	2010
Illinois State University	2008		Rock Valley College	2010
John A. Logan College	2010		Shawnee Community College	2009
Joliet Junior College	2008		South Suburban College	2010
Kankakee Community College	2010		Southwestern Illinois College	2009
Kishwaukee College	2010		Waubonsee Community College	2009
Lewis & Clark Comm. College	2010			

## Membership Committee

Be sure to check the membership expiration date listed in your address label. If your membership has expired or is about to expire, you can use the form on page 11 to renew. In addition, if there are mathematics faculty at your college who are not members of IMACC, please invite them to join. Retiring IMACC members may consider "sponsoring" the membership for the person hired to take their place by paying for their first year's IMACC dues (\$15).

## ICTCM 2010 in Chicago

The 22<sup>nd</sup> International Conference on Technology in College Mathematics (ICTCM) will be held in Chicago at the Sheraton Hotel on March 11-14, 2010. Waubonsee Community College is hosting this event with IMACC members Amy Del Medico and Tom Pulver serving as co-chairs for the conference. You can learn more about the conference by visiting [ICTCM.org](http://ICTCM.org).

We are encouraging the local mathematics community to participate with us in this event. We need local volunteers to work at this event. There is a wide range of needs to include registration, presiders over sessions, minicourses, and workshops. Any volunteer that works 4 hours will receive a reduced conference registration fee of \$100 and if you work 8 hours you will receive a complimentary registration fee. If you are interested in volunteering please contact Amy Del Medico or Tom Pulver - contact information is provided below.

We look forward to your participation in the 2010 ICTCM.

Amy Del Medico  
Assistant Professor, Mathematics  
(630) 466-2554  
[adelmedico@waubonsee.edu](mailto:adelmedico@waubonsee.edu)

Tom Pulver  
Assistant Professor, Mathematics  
(630) 466-5718  
[tpulver@waubonsee.edu](mailto:tpulver@waubonsee.edu)

## IMACC Committees 2009-2010

<p><b>Assessment</b>  Beth Beno* South Suburban College  Roberta Christie Shawnee Community College  Diane Grzeczka South Suburban College  Keven Hansen Southwestern Illinois College  Diane Martling William Rainey Harper College  Abbas Meigooni Lincoln Land Community College  Marcia Wallace South Suburban College</p> <p><b>Awards</b>  Paul McCombs* Rock Valley College  Rodger Hergert Rock Valley College  Tracey Hoy College of Lake County  Diane Martling William Rainey Harper College  Carol Schmidt Lincoln Land Community College</p> <p><b>Budget</b>  Steve Kifowit* Prairie State College  Dave Clydesdale William Rainey Harper College  Rodger Hergert Rock Valley College</p> <p><b>Conference</b>  Publishers  Geoff Griffiths* Parkland College  Coordinator  Diane Martling* William Rainey Harper College</p> <p><b>Curriculum</b>  Bob Cappetta* College of DuPage  Donna Carlson College of Lake County  Sandra Cox Kaskaskia Community College  Jim Hajek Lincoln Land College (retired)  Keven Hansen* Southwestern IL College  Tracey Hoy College of Lake County  Catherine Moushon Elgin Community College  Terra Stamps Prairie State College  Marilyn Zopp McHenry County College</p>	<p><b>Math ConneXion</b>  Diane Koenig* Rock Valley College</p> <p><b>Membership</b>  Pat Szewczyk* Kishwaukee College  Brenda Alberico College of DuPage  Laurie Hoecherl Kishwaukee College  Kathy LaBeau William Rainey Harper College  Deanna Kindhart Illinois Central College</p> <p><b>Memorial Fund Scholarship</b>  Angie Gum* Lincoln Land Community College  Chris Cullopp Kishwaukee College  Diane Koenig Rock Valley College  Tony Paris Carl Sandburg College</p> <p><b>Nominations &amp; Elections</b>  Keven Hansen* Southwestern IL College  Rodger Hergert Rock Valley College  Carol Schmidt Lincoln Land Community College</p> <p><b>Program</b>  Rodger Hergert* Rock Valley College  Carol Schmidt Lincoln Land Community College  Keven Hansen Southwestern IL College</p> <p><b>Webmaster</b>  James Jones* Richland Community College</p> <p><b>Historian</b>  Jim Trefzger* Parkland College (retired)</p> <p><b>Constitution &amp; Bylaws</b>  Roberta Christie* Shawnee Community College  Carol Schmidt Lincoln Land Community College  Jim Trefzger Parkland College (retired)  Bob Cappetta College of DuPage</p>
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## Delegates and Representatives

### AMATYC Delegates

#### Affiliate Delegates

Carol Schmidt Lincoln Land Comm. College  
Keven Hansen Southwestern IL College  
Rodger Hergert Rock Valley College

#### Representatives to Other Organizations

##### ISMAA

Paul McCombs Rock Valley College

#### State Delegates

Amy Curry College of Lake County  
Wendy O'Hanlon Illinois Central College  
Tom Pulver Waubensee Comm. College

##### ICTM/NCTM

Diane Martling Harper College

# Scholarship Committee Report

Please consider encouraging deserving students from your institution to apply for the IMACC Memorial Fund Scholarship. Though the faculty's responsibility in the application process is deemed recommender rather than nominator, it is still very much the hope that faculty initiate the scholarship application process by making their qualified students aware of the award, by writing those recommendation letters, and by encouraging and helping the qualified students with the application process. Complete information about the IMACC Memorial Fund Scholarship, including the Faculty Recommendation Form, Student Application Form, and an informational flyer to post on your campus, is provided by clicking on "Memorial Fund Scholarship" at the IMACC website, [www.imacc.org](http://www.imacc.org). Please add your name and contact information to the flyer so that students can come to you with any questions about the application process!

Again, please encourage your deserving students to apply. A total of \$3000 is available to award this spring. For the applicant to be considered, the faculty recommendation form, the student application form, and the student's supporting materials must be completed and received by the IMACC Memorial Fund Scholarship Committee Chairperson Angie Gum no later than February 26, 2010.

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## ICTM Post-Secondary Mathematics Teaching Award

I know that there are MANY excellent teachers in IMACC who would qualify for this award. The key is to nominate them! The individuals must be ICTM members. If their membership has lapsed, they can register now at [ICTM.org](http://ictm.org) and still qualify.

Please consider nominating a fellow college/university teacher (or yourself) for this ICTM award. Self-nomination is allowed. Frequently, the pool of nominees is very small or non-existent.

Information can be found below, and at: <http://ictm.org/ictmawards/college.html>

### Guidelines for Nomination

#### The nominee should:

Be an effective teacher of undergraduate mathematics at a two-year college, four-year college, or university.

1. Demonstrate a sound knowledge of mathematics.
2. Continue to study mathematics and/or mathematics education on a regular basis.
3. Participate actively in professional mathematics organizations.
4. Show leadership and influence on others at the local and state levels.
5. Be an ICTM member.
6. Meet all [nomination requirements](#).

Applications due by **March 30 of the application year** to:

[Linda E. North](#)  
1436 East Grand  
Carbondale, IL 62902

(Submitted by: Rita Fischbach, College/University Director, ICTM Board)



# ILLINOIS MATHEMATICS ASSOCIATION OF COMMUNITY COLLEGES

## IMACC Individual Membership Form

**Name** \_\_\_\_\_ **School** \_\_\_\_\_

**Home Address** \_\_\_\_\_ **School Address** \_\_\_\_\_

\_\_\_\_\_

**City/State/Zip** \_\_\_\_\_ **City/State/Zip** \_\_\_\_\_

**Phone**(\_\_\_\_) \_\_\_\_\_ **Phone**(\_\_\_\_) \_\_\_\_\_

**Email Address** \_\_\_\_\_

To which of the above addresses do you wish correspondence? (Circle One)

**Home**                      **School**

Do you wish your name distributed with the IMACC database? (Circle One)

**Yes**                      **No**

Do you wish to receive *The Math ConneXion* by mail or email? (Circle One)

**Mail**                      **Email**

### Membership Fees

1 Year \$15.00	Membership Amount	_____
3 Years \$40.00	Scholarship Contribution	_____
5 Years \$65.00	Total Amount Submitted	_____

**Please make check payable to :**

**IMACC**

**Mail to:**

**IMACC**

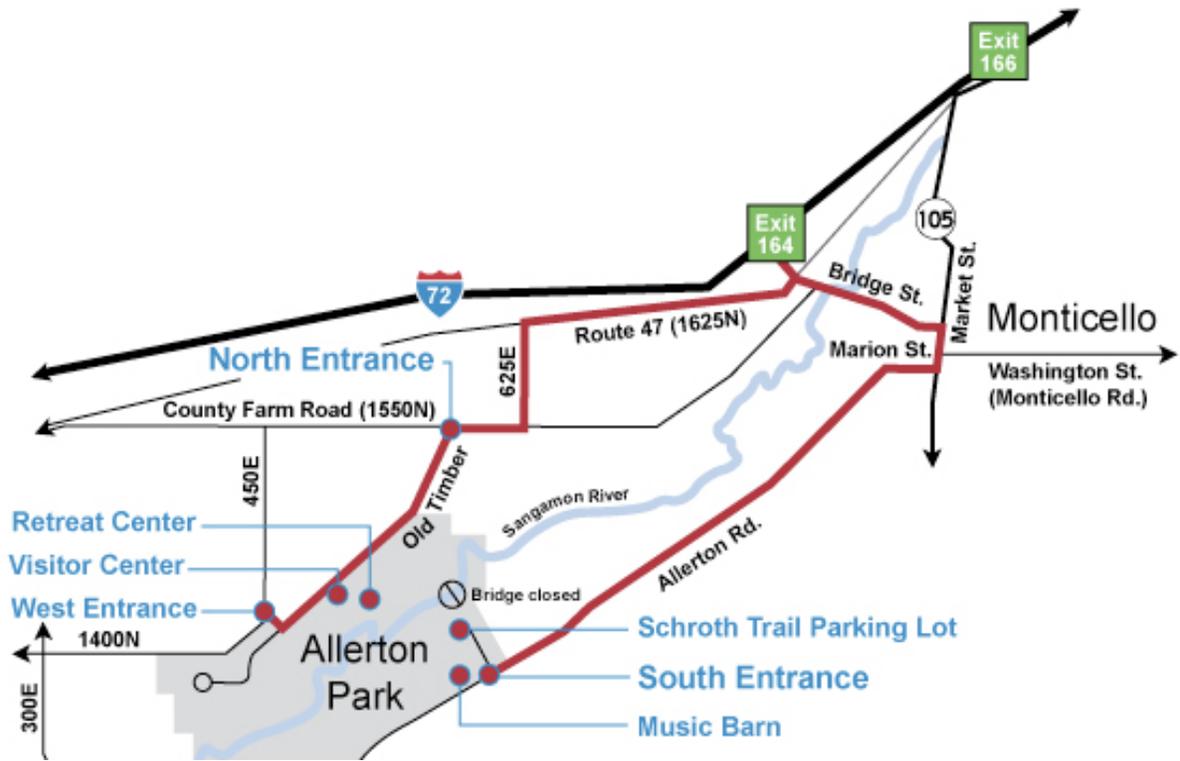
**c/o Steve Kifowit**

**Prairie State College**

**202 S. Halsted St.**

**Chicago Heights, IL 60411**

The Institutional Membership form can be found on the IMACC website.



Rodger Hergert, Editor  
 Rock Valley College  
 3301 North Mulford Road  
 Rockford, IL 61114

## Session Descriptions

### **Opening General Session – Friday March 26th – 8:30am**

Doug Shaw, University of Northern Iowa

“Activities Exploring the Collatz Conjecture: An Unsolved Problem in Fifth Grade Arithmetic”

Do your students think mathematics is “dead”? If so, consider sharing the Collatz Conjecture (also known as the  $3n+1$  conjecture) with them as an example of an unsolved problem that demonstrates how mathematics is still growing and evolving. We present camera-ready group activities that should be appropriate for community college students.

### **First Breakout Sessions – Friday March 26th - 9:40am**

Kathy Almy, Rock Valley College

“Success by Design: a developmental math redesign that works!”

Three years ago, Rock Valley College in Rockford, IL made a college-wide commitment to completely redesigning every component of their developmental math program. Session attendees will learn about the elements that have combined to make an extremely successful program.

Randy Gallaher and Kevin Bodden, Lewis & Clark Community College

“Engaging Students with Guided On-Line Learning”

To be effective learners, students must be engaged. When faced with an abundance of resources, developmental learners often do not know where to begin, particularly with on-line programs. But guided on-line learning through resources such as an eBook, video tutorials, animations, and practice problems can engage the student and lead to better comprehension and retention of concepts. Since significant learning takes place outside the classroom, it is vital that these resources be available to each student at the time and in the manner which they are most ‘learning ready’. The presenters will share their use of electronic resources through the MyMathLab course management system and tell how this has helped to improve student learning in their algebra courses.

Omar Adawi, Parkland College  
Sunil Koswatta, William Rainey Harper College

“Birds of A Feather: Panel Discussion on Discrete Mathematics”

The session will offer the opportunity to discuss the arrangement and number of topics in Discrete Mathematics at various community colleges in Illinois, the incorporation of technology, and some strategies for teaching this course.

Joe Sukta, Moraine Valley Community College

"Projects for Assessment in Business Statistics"

Fifteen projects, their solutions and WORD files are provided. WORD files can be modified before assigning. Instructions for the TI-83 calculator (list management, calculating probabilities and confidence intervals) are included. Instructions for MINITAB (graphs and hypothesis testing) are provided. Projects are used in my online and classroom Business Statistics course.

To preview, go to:

[http://online.morainevalley.edu/websupported/jsukta/handouts/business\\_statistics.htm](http://online.morainevalley.edu/websupported/jsukta/handouts/business_statistics.htm)

### **Second Breakout Sessions – Friday March 26th - 11:00am**

Bob Cappetta, College of DuPage

"Something borrowed, something new: Calculus problems to promote understanding"

I will discuss several of my favorite homework and test questions. I will show how they are related to my research on conceptual understanding.

Diane Koenig, Rock Valley College

"Podcasting: It's Easier Than You Think!"

Podcasting is a growing phenomenon in many areas of education and there's no reason it can't be done with math, too. Diane will describe her experience creating podcasts for her developmental math classes and her upcoming expansion to college-level statistics.

Arunas Dagys & Patricia Petkus, St. Xavier University

"Mastery Learning and My Math Lab in Intermediate Algebra"

Mastery Learning and My Math Lab have been a dynamic mix that has improved the success rate in Intermediate Algebra significantly. We will discuss our approach, what we do, why we do it, what our students think about it and how they do in future math classes.

Faculty Member, Illinois Institute of Technology

"A New Ph.D. Program in Collegiate Mathematics Education at IIT"

Illinois Institute of Technology has a new PhD program in Collegiate Mathematics Education. This is a joint program between the Department of Applied Mathematics, and the Department of Math and Science Education, chaired by Norm Lederman.

This PhD CME program focuses on pedagogy for university level mathematics instruction. The program differs from the PhD in Applied Mathematics, which prepares students for a research career in applied mathematics, and also differs from the PhD in Mathematics Education, which is aimed more at pre-university education. This session will provide more about the details of the program.

Brian Mercer, Parkland College

“How Can I Incorporate Technology in My Classes?”

Thinking about trying to appropriately incorporate technology into your classes? Looking for a place to start? Come learn how several forms of technology have been successfully incorporated into a developmental algebra sequence.

### **Third Breakout Sessions – Friday March 26th - 2:15pm**

Doug Shaw, University of Northern Iowa

“What Else Can You Do with an Open-topped Box?”

Starting with the classic Open Box optimization problem, we present extensions of this problem that can be used in high school mathematics classes. Some extensions require calculus, and some don't. Surprises and beauty abound! We also challenge high school teachers to use this process of problem analysis in their own practice as a way to enrich the content of their lessons and as a means of individualized professional development.

Michael Hardy, Saint Xavier University

“Teaching with a Tablet PC”

The proposed session will entail three primary strands. The first will be an exploration of the capabilities of Tablet PCs. Interwoven with that exploration will be a discussion of applications of said utilities within the teaching and learning of mathematics. Finally, time will be devoted to highlighting students' reactions to the presenter's use of a Tablet PC as an instructional tool.

Brenda Alberico, College of DuPage

“Conic Sections and Skis”

Students create a picture using conics, and find the conic equations in rectangular, polar, and parametric forms. They find the equation for the hyperbolas and parabolas for a pair of skis, and then calculate the arc length of the ski.

Michael Sullivan, Joliet Junior College

“Engage to Motivate”

Are your students engaged in learning? Do your students communicate well? Do your students collaborate? Are your students motivated? Engagement, collaboration, communication, and motivation are skills we need to develop in our students. How can we develop these skills while teaching mathematics community college setting?

Brittany Walker (Hawkes Learning Systems)

“All Math Software is not Created Equal: What’s the Difference?”

The use of technology has become increasingly implemented in Mathematics courses, but what makes one software system different from another? Hawkes Learning Systems (HLS) is a unique program that is proven to be more effective in improving student performance. Discover how HLS’s differences make it the perfect solution for student success! All presentation attendees will be entered to win a GPS!

### **Friday Afternoon General Session – 3:45pm**

Jim Trefzger, Parkland College (retired)

“35 Years of IMACC at Allerton”

This is the 35th anniversary of both the organization and the conference at Allerton. Jim & a few of the more seasoned veterans of IMACC will recount their memories of the conference over the years.

### **Friday Evening Entertainment – 7:00pm**

Doug Shaw, University of Northern Iowa

“Extreme Mathematics Results”

What is the world's shortest mathematics paper? What's the largest number ever to appear in a mathematics paper? What's the most unintentionally hilarious result ever to appear in a mathematics paper? Doctor Shaw will answer these questions, and along the way participants will learn about Latin Squares, Ramsey Theory, and other interesting topics in Discrete Mathematics, all of which are accessible to undergraduate students.

### **Featured Speaker – Saturday March 27th – 9:25am**

Edward B. Burger, Williams College

“Crafting Creative Thinkers”

What will our students remember long after they have forgotten the quadratic formula and how to solve for "x"? Here we celebrate the real prize in teaching: inspiring students to be imaginative and creative within mathematics & beyond. Our celebration will involve entertaining antics, new technologies, and methods that allow us to foster the joyful pleasures of creative thinking while still offering mathematical mindset that transcend the equations themselves.

### **Fourth Breakout Sessions – Saturday March 27th - 10:45am**

Jim Olsen and Allison McGann, Western Illinois University

“Catalan Numbers and Pascal’s Triangle”

As the Pascal’s Triangle can be used to solve many counting and probability problems, the Catalan numbers (the sequence 1, 2, 5, 14, 42, ...) can be used to solve a multitude of counting problems from the number of triangulations of a n-gon to tree-counting to the expected number of games in the World Series. We will show various ways of finding the sequence and how, not surprisingly, the Catalan numbers are found in Pascal’s Triangle.

Connie McLean, Albert Stacy and Laura Snook, Black Hawk College

“No More Excuses”

Advanced technology can be used for a variety of courses. Using a computer version of a smart board and tablet pc with interactive pen, teachers can capture work directly to distribute by e-mail, post online, or save to software applications such as Word, Excel, and PowerPoint

Barb Becker & Patricia D. Army, St. Xavier University

“Using Mathematical Modeling to Teach College Algebra”

For approximately ten years the presenters have been teaching college algebra at Saint Xavier University using a modeling approach. Graphing calculators are used extensively and allow students to analyze a wide variety of functions from various fields of study. Analysis of data and interpretation of results in the context of the problem along with the ability to write meaningful answers using correct mathematical symbolism and English sentences are expected results of the course. The presenters will share their experiences teaching the course and discuss various changes that have been made along the way including the recent addition of WebAssign software.