



HAMTE Crossroads

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OFFICIAL
NEWSLETTER
OF THE
HOOSIER
ASSOCIATION
OF
MATHEMATICS
TEACHER
EDUCATORS

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Newsletter Editor:
Rick Hudson,
University of Southern
Indiana

Message from the Executive Board



Submitted by President Jill Newton, Purdue University

I feel fortunate to have the opportunity to introduce the inaugural issue of the HAMTE newsletter, *HAMTE Crossroads*, compiled by Rick Hudson. Thanks, Rick (and others who contributed to the effort), for the work represented here and for your commitment to keeping Indiana mathematics teacher educators well informed and connected with one another. I would like to also take this opportunity to thank everyone (there are many of you) who helped get HAMTE off the ground last year. The first agenda was packed, but we made time to hear about research projects at three universities (thanks to all who participated in those presentations). HAMTE is now 39 members strong and represents fourteen colleges and universities in Indiana. The Board of Directors held its first meeting in January; I've bulleted highlights below:

- Jean Lee (University of Indianapolis – newly elected HAMTE secretary) is heading up a HAMTE recruitment campaign. Our goal doesn't seem to be as big as possible, but we do want to make sure that we are providing the opportunity of membership to anyone interested. If you have any ideas for these recruitment efforts or just want to help, contact Jean at jslee@uindy.edu.
- We are official! That includes being recognized as an affiliate at the 2012 AMTE conference and having our very own bank account (thanks, Sue Mau, for your work on this). Sue is the HAMTE treasurer (from IPFW) – you can send any interested new members in her direction (maus@ipfw.edu).
- We are lucky to have a team of university representatives committed to both providing information from and disseminating information to their university HAMTE contingent. Rick and Jean will be counting on your help this year!
- You'll see a call later in the newsletter for volunteers willing to serve a role in HAMTE – hopefully we'll get many volunteers – we're trying to keep the HAMTE effort realistic for all of us so the time commitment will be very reasonable.
- For the time being, we are planning to meet in conjunction with ICTM again in Fall 2012. I will be contacting ICTM to investigate ways that we can integrate into their pre-existing schedule.

So, HAMTE will keep us all busy (or busier?), but our hope is that the activities will be beneficial and provide us opportunities to get to know one another and to collaborate on teaching and research projects. Happy 2012 to you all! Jill

Join HAMTE! If you have not already taken the step to join the Hoosier Association of Mathematics Teacher Educators, please join us! Send your membership form and \$20 (\$10 for students/emeritus members) to Sue Mau, IPFW, 2101 E. Coliseum Blvd., Fort Wayne, Indiana 46805.

New Teacher Education Assessments and Evaluation

Methods to Influence Teacher Effectiveness

Submitted by Flo Barnes, Indiana Department of Education

The Educator Effectiveness and Leadership (EEL) team at the Indiana Department of Education oversees accreditation of teacher preparation programs as well as implementation of PL 90 (recent legislation on teacher evaluation and accountability). The IDOE recently went live with a new and improved version of the IDOE website. For more information about the work done by the EEL team, check out our new educator preparation page at the following link: <http://www.doe.in.gov/improvement/educator-effectiveness>.

One initiative the IDOE is currently working on is the development of new teacher licensure exams aligned to the REPA teacher standards. A link to those standards can be found at: <http://www.doe.in.gov/improvement/educator-effectiveness/repa-teacher-standards>. Collaboration with Pearson Evaluation Systems includes the creation of new content, pedagogy and basic skills assessments for all approved licensure areas in Indiana. Indiana CORE Assessments for Educator Licensure will replace the use of the ETS Praxis series. The anticipated implementation date for new content and pedagogy assessments is September 1, 2013. Praxis I basic skills will be replaced by the Core Academic Skills Assessment (reading, writing, and math) as of January 1, 2013. Basic skills mastery must be accomplished prior to admission to any teacher preparation program as required by 515 IAC 3-1-1 (a) (3).

As PL 90 is implemented, school corporations will need to focus on including objective student learning data as part of measuring a teacher's effectiveness. This new accountability measure will most likely increase assessment interest in the field. In the statewide model for teacher evaluation, RISE outlines a process for creating *Student Learning Objectives* (SLOs). These long-term academic goals must be:

- Specific and measurable
- Based on available prior student learning data
- Aligned to state standards when available
- Based on growth and achievement whenever possible

By focusing on measures of student learning, RISE encourages teachers and evaluators to take a data-driven approach to instruction, targeting specific areas of need to move all students toward content mastery. You can learn more about measures of student learning on the RISE website:

<http://www.riseindiana.org/how-does-rise-work/measures-of-student-learning>.

“Indiana
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Election Results

During the 2011 Inaugural Annual Meeting in November, the first executive board of the HAMTE were elected. To promote long-term continuity of the organization, the end of the officers' first terms will be staggered. The following officers were elected for the given terms.

- President: Jill Newton, Purdue University, 2011-2013, janewton@purdue.edu
- “Past” President: Sheryl Stump, Ball State University, 2011-2012, sstump@bsu.edu
- Secretary: Jean Lee, University of Indianapolis, 2011-2013, jslee@uindy.edu
- Treasurer: Sue Mau, IUPUI - Fort Wayne, 2011-2014, maus@ipfw.edu
- Newsletter Editor: Rick Hudson, University of Southern Indiana, 2011-2012, rhudson@usi.edu



Newton



Stump



Lee



Mau



Hudson

Mathematics Teacher Leadership

Submitted by Sheryl Stump, Ball State University

This semester I'm teaching a graduate course called "Teacher Leadership in Mathematics Education" There are six elementary teachers, three middle school teachers, and one high school teacher in the class. The teachers are working toward a Master of Arts in Mathematics Education or a Graduate Certificate in Mathematics Teacher Leadership. We meet once a week, either online or at the Ball State Fishers Center.

Three texts guide the course. The *PRIME Leadership Framework: Principles and Indicators for Mathematics Education Leaders*, published by the National Council of Supervisors of Mathematics, provides a structure for focusing on critical aspects of mathematics education and analyzing the development of teacher leadership. *Cultivating a Math Coaching Practice: A Guide for K-8 Math Educators*, by Amy Morse, is a book of cases designed to help teachers ponder important questions and reflect on the intricate work of mathematics coaching. *The Math Coach Field Guide: Charting Your Course*, edited by Carolyn Felux and Paula Snowdy, is an insightful and delightful collection of chapters designed to help mathematics coaches learn from one another.

Only two of the ten teachers in my class actually have a formally designated role as a mathematics coach. The others are interested in exploring the possibilities for leadership in their schools. The assignments in my class are designed to help with that exploration. For example, they must complete a school review with their principal, conduct a professional development workshop with their school colleagues, and complete another leadership activity of their choice. They are very enthusiastic about engaging in these tasks and using the knowledge and skills they have developed in other courses devoted to topics such as number theory, algebra, geometry, data analysis, problem solving, learning, and assessment to help the teachers in their schools.

Ball State, along with other universities in Indiana, is interested in helping schools understand the potential benefits of mathematics teacher leadership, particularly in the form of elementary and middle school mathematics specialists. Our efforts are guided by the *Standards for Elementary Mathematics Specialists: A Reference for Teacher Credentialing and Degree Programs*, published by the Association of Mathematics Teacher Educators. For more information about these efforts, contact Signe Kastberg at Purdue University, Doris Mohr at the University of Southern Indiana, or Diana Underwood at Purdue University Calumet.

Share an idea!

Do you have an inspiring teaching practice, a unique task, or an innovative assessment that you are willing to share with other mathematics teacher educators? Email your contributions to rhudson@usi.edu.

The Skyscraper Task

Submitted by Jean Lee, University of Indianapolis

At the University of Indianapolis, I am conducting a design experiment to investigate how prospective secondary mathematics teachers understand the Common Core Mathematical Practices through a problem-based learning task. Below is a task that has the potential to engage these prospective teachers in discussing the practices.

The task comes from Driscoll's (1999) book, *Fostering Algebraic Thinking*.

A building is 12 stories high and is covered entirely by windows on all four sides. Each floor has 38 windows on it. Once a year, all the windows are washed. The cost for washing the windows is \$2.00 for each first-floor window, \$2.50 for each second-floor window, \$3.00 for each third floor window, and so on.

How much will it cost to wash the windows of this building? What if the building is 30 stories tall? n stories tall?
(Driscoll 1999, p. 70)

Get Involved with HAMTE!

HAMTE is looking for volunteers! We are currently seeking individuals who are willing to serve as

- A member of the Nominations & Elections Committee for 2012
- Liaisons to various organizations that you may already be involved with: NCTM, NCSM, and the Association of Teacher Educators—Indiana. Liaisons will be responsible for notifying the newsletter editor of events or issues related to these organizations that should be shared with HAMTE members.

Call for Manuscripts: The *Indiana Mathematics Teacher*, a peer-reviewed publication of the Indiana Council of Teachers of Mathematics, is seeking manuscript submissions. Beginning in fall 2012, the journal will once again become available in print. Manuscripts should be written for an audience of K-12 mathematics teachers and should be limited to approximately 1500 words. For more information see www.indianamath.org or email Doris Mohr at djmohr@usi.edu.

Calendar

2012

- **March 29—April 1—National Science Teachers Association National Conference, Indianapolis, IN**
- **April 25-28 - NCTM Annual Meeting, Philadelphia, PA**
- **October 21-22 - ICTM & HAMTE Annual Meetings, Indianapolis, IN**
- **November 1-4 - PME-NA Conference Kalamazoo, MI**
- **November 28-30 NCTM Regional Conference, Chicago, IL**

2013

- **January 24-26 - AMTE Annual Meeting, Orlando, FL**

Campus Updates across the State...

Joint Venture...

IUPUI, IU Bloomington, IUPU Columbus, and Purdue are jointly sponsoring a Mathematics Education Research Conference at IUPUI on Friday, March 30. The purpose of the conference is to share research ideas and get feedback on research projects, especially projects being undertaken by graduate students. Tentative time for the conference is 10 a.m. to 3 p.m. and it is open to anyone who would like to attend. Contact Dionne Cross (dicross@indiana.edu) or Peter Kloosterman (klooster@indiana.edu) for additional information.

Indiana University-Purdue University, Columbus...

Dr. Catherine A. Brown has been appointed the head of the Division of Education at Indiana University-Purdue University Columbus (IUPUC). Brown, who joined the Indiana University Bloomington faculty in 1996, will also serve as director of IUPUC's Center for Teaching and Learning (CTL).

In addition to her teaching and research responsibilities as a professor of mathematics education in Bloomington, Brown served as the associate dean for Research and Development of the Indiana University School of Education from 1998–2008. She also directed the school's Center for Research on Learning and Technology from 2003-04 and the Center for Research and P-16 Collaboration from 2006-08.

Brown looks forward to her new role on the Columbus campus. "IUPUC continually seeks to provide needed academic programs, develop important research activities in which faculty members and students can engage, and find new ways to improve the quality of life in the region we serve. IUPUC has a well-deserved reputation for being a collaborative institution that is responsive to local and regional needs. I am committed to developing instructional practices, including Web-based instruction and the use of PBL concepts to provide greater access to and engagement in education for students of all ages and backgrounds."

Taylor University...

Dr. Ron Benbow has been awarded a Fulbright Specialists Program Grant to engage in projects with the mathematics department at the University of Azuay in Cuenca, Ecuador. His work there will allow him to present lectures, lead workshops, consult with faculty and administrators, and conduct teacher-training programs to assist the department and local schools in improving curriculum, teaching, and assessment. The project includes trips to Ecuador in May/June 2012 and January 2013. Secondly, Dr. Matt DeLong received the Deborah and Franklin Tepper Haimo Award for Distinguished College and University Teaching of Mathematics in January. Presented by the Mathematical Association of America (MAA), it is its highest national teaching award and is bestowed annually to up to 3 teaching faculty members.

Have news to share from your campus? Email rhudson@usi.edu.