



Kentucky Council of Teachers of Mathematics

December 2006

Message from the President

We have a good start to the 2006-07 school year and are settled into our daily routines. Now might be a good time to invite you to think about encouraging your colleagues to become members of KCTM. “Why should I join KCTM?” they might ask. The focus of KCTM is the improvement of mathematics education for all students in Kentucky. This is partially realized through our annual state conference and through KCTM’s input to the Kentucky Department of Education. Speaking of the annual conference, this year’s was terrific! Tune into the February Newsletter for more details.

Now is the time to begin thinking about the 2007 KCTM annual conference – October 19-20 at Henry Clay High School in Lexington, Kentucky. This will be a joint conference with T³. More details will come in the February Newsletter. This year’s conference was a success because you chose to get involved! We are counting on you! So talk it up with your colleagues; think about a successful lesson to share with others! If you have never presented before, partner up with a colleague and present together. Remember: KCTM is only as good as its members! For the most current information, go to <http://www.kctm.org/conference.html>. Direct any comments or questions to our 2007 Conference Co-Chairperson, Beth Noblitt (Noblittb@nku.edu).

This is my last contribution to the Newsletter as I pass on the President’s role to Maggie McGatha on January 1. I know she will do a terrific job, as is evidenced by her successful chairing of the 2005 and 2006 annual conferences. So, I bid you adieu and hope that you enjoy this edition of the KCTM Newsletter. If you have any comments or questions, please contact our new President: Maggie McGatha (maggie.mcgatha@louisville.edu).

Respectfully yours,
Gina Foletta
KCTM President
foletta@nku.edu



Table of Contents

[2007-08 Albert Einstein Distinguished Educator Fellowship Program](#)

[Affiliate News](#)

[AMATYC Releases *Beyond Crossroads*](#)

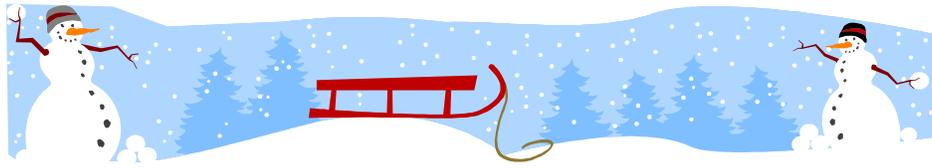
[Free Online Professional Development](#)

[KCM Partners with The Futures Channel](#)

[KCTM Board Meeting Minutes](#)

[KEMTP Update](#)

Math Achievement Fund Grants
NCTM News
New State Curriculum Document
State Invests in New Approach to Math Professional Development
Web Sites for Teachers and Students



News from Kentucky

State Invests in New Approach to Math Professional Development

The Kentucky Mathematics Coaching Program started this summer with 67 teachers attending two weeks of training. This inaugural group is now spread across the state in 28 districts working with over 800 teachers. They collaborate with teachers to identify and assist with the implementation of proven teaching methods.

The coaches started the Cognitive Coaching Foundation Seminar® this summer and will continue this training throughout the school year. Cognitive Coaching's goal is to help new coaches develop their capacity as a mediator and catalyst. The state has embraced this job-embedded approach to teacher professional development because of research that shows its effectiveness. Its obvious advantage is that the coach is onsite and available all year long. The program is coordinated through the Kentucky Center for Mathematics (www.kymath.org).

The coaches have been easing into their roles these past two months, building relationships, honing new skills that they've learned and educating their peers as to what exactly a *math coach* is. Many of them split their time between teaching and coaching, so time management plays a big role in their day. They will come together as a cohort at the KCTM meeting in Georgetown. This will be their first face-to-face networking opportunity, however they meet online weekly with groups of 4 – 8 coaches around the state.

For information about next year's opportunity to join Kentucky's mathematics coaching program, contact Gary Palmer (palmerg@nku.edu).

Submitted by:
 Gary Palmer
 Northern Kentucky University



Math Achievement Fund Grants

The Office of Teaching and Learning is issuing a Request for Application for Kentucky public school districts to apply for a math achievement fund grant on behalf of individual schools. The grant will fund mathematics diagnostic and assessment and intervention services and programs for primary students who are struggling with mathematics. The deadline for applications is Dec. 18, 2006. Go to [the Math Achievement Fund page at the KDE](#) for more details and to download the application.

KCM Partners with The Futures Channel



During the 2006-2007 school year, the Kentucky Center for Mathematics is implementing a state-wide coaching model for K-12 mathematics. During this year, The Futures Channel (TFC) is partnering with Kentucky in an effort to provide coaches and teachers resources that will make math real for students and communicate how essential math is in today's society.

This partnership will allow TFC to pilot online delivery of their Digital Video Resource Library. Through feedback given by Kentucky's math coaches and teachers, TFC will explore formal implementation of this "anytime access" to their movies and guides.

Now Kentucky's math teachers have access to one of the best resources for answering the vexing question, "When am I ever going to use this?" Enjoy!

Steps for access to online videos and guides (problems):

1. go to TFC website www.thefutureschannel.com
2. scroll down the page and click on "site map"
3. scroll down the page and click on "Kentucky Schools"
4. type in User ID: kent2006, and Password: dvrl06 (lowercase)
5. the Kentucky Page will come up, type in your name and school
6. the video menu system will appear along with a feedback form
7. Please provide feedback to TFC, it only takes 2 minutes

Contact Gary Palmer (palmerg@nku.edu) with questions.

New State Curriculum Document



The Kentucky Combined Curriculum Document connects the Program of Studies 2006 and the Core Content for Assessment - Version 4.1. Although the language of the Program of Studies and Core Content for Assessment version 4.1 is **final**, the Combined Curriculum Document will remain in draft form until the following revisions have been implemented. ***These revisions to the combined document should be complete within the next couple of weeks.*** Because many people have requested a combined document, we wanted to release this draft version as soon as possible.

- The Speaking, Listening, and Observing strand will be added to all language arts courses.
- Components of Inquiry will be incorporated across grade levels.

· Formatting will be finalized.

It is important to note that the language of the Program of Studies and the Core Content for Assessment version 4.1 **will not be revised**. Therefore, the content currently included in the Combined Curriculum Document will not change.

[Link to Combined Curriculum Document](#)

Kentucky Center for Mathematics

At this site you will find a list of websites for helping your students and their parents, as well as, professional development resources for you.

Free Online Professional Development

e-Learning Kentucky is offering over 20 FREE, facilitated, interactive, and high quality online PD courses during our '07 Spring session that begins Jan 15, 2007. Registration is now open.

Spring Course Dates: January 15 - March 4. Courses are eligible for 6-24 hours EILA or PD Credit.

Offerings in mathematics:

Getting Reading for Algebra Using Virtual Manipulatives

Using Technology in the Elementary Math Classroom

Using Real Data in the Math Classroom

Using Patterns to Develop Algebraic Thinking

Complete Course Catalog with course descriptions and registration links available at:

<<http://www.education.ky.gov/KDE/Instructional+Resources/Curriculum+Documents+and+Resources/Kentucky+Virtual+Learning+Kentucky.htm>>.

Questions, email elarningkyinquiry@education.ky.gov or call toll free 1-866-432-0008, extension 4551

Kentucky non-public educators and out-of-state educators are welcome to register for e-Learning Kentucky courses at a cost recovery fee of \$50.00 per online course.

Submitted by:

Ann Bartosh

Ann.Bartosh@education.ky.gov

KEMTP Update

The Kentucky Early Mathematics Testing Program (KEMTP) has a new, updated website for the coming school year that will make the KEMTP tests more useful for Kentucky high school mathematics teachers and students.

The KEMTP will offer two different tests beginning this fall. The first test is appropriate for students who have completed Algebra II and is at the same level as previous KEMTP tests. The second test is a new KEMTP offering and is appropriate for students who have completed Algebra I. There are two practice tests available for the advanced test and one practice test available for the basic test.

The diagnostic features of the new tests are much improved. All five tests-the advanced test, the basic test and the three practice tests-are linked to the new version 4.1 Kentucky Core Content for Assessment in high school mathematics. Students who take any one of the five tests will receive diagnostic feedback relative to the new core content standards. Moreover, it is very easy for students move back and forth from the results page to the test questions to see where mistakes were made. This feature was not available in previous years.

The KEMTP test has always been carefully aligned with the ACT, both in content and format. This year's KEMTP test is also carefully aligned with the new core content standards. Thus we hope the KEMTP tests will become increasingly more attractive to teachers and students as Kentucky transitions to the new standards and the new testing format with the ACT playing a central role.

Submitted by:

Steve Newman

Northern Kentucky University



Other News

2007-08 Albert Einstein Distinguished Educator Fellowship Program

Attention K-12 teachers: Are you an experienced educator who is ready to make a difference on a national scale? If so, consider applying for an Albert Einstein Distinguished Educator Fellowship and prepare for a year of unique opportunities. As an Einstein Fellow you will spend a school year in Washington, DC sharing your expertise with policy makers. You may serve your Fellowship with Congress or one of several government agencies such as the Department of Energy, NASA, the National Science Foundation, the National Institutes of Health, the National Oceanic and Atmospheric Administration, or the National Institute of Standards and Technology.

The goal of the Einstein Fellows program is to provide an opportunity for teachers to inform national policy and

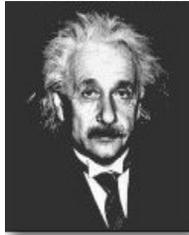
<http://www.kctm.org/dec06.htm>

6/3/2008

improve communication between the K-12 STEM education community and national leaders. Selection is based on excellence in K-12 mathematics, science, or technology teaching; demonstrated leadership; an understanding of national, state, and local education policy; and communication and interpersonal skills. The Fellowship program was created in 1990 with support from the MacArthur Foundation. Congress formalized the program in 1994 by passing the Albert Einstein Distinguished Educator Fellowship Act. The Triangle Coalition administers the program under the direction of the Department of Energy. The application deadline is January 8, 2007.

Apply online at <https://applicationlink.labworks.org/applicationlink/default.htm>

For more information about the Einstein Fellows program visit www.trianglecoalition.org/ein.htm or contact Andrea Bodmann at bodmanna@triangle-coalition.org.



The Albert Einstein Distinguished

Educator Fellowship Program

Where Classroom Practice Informs Policy

K-12 Teachers Influencing Education

Paid Academic Year Fellowships in Washington, DC Working with Congress
or in a Federal Agency

Apply on-line 10/2/06 through 1/8/07

Web Sites for Teachers and Students

NASA Kids' Club offers games and activities that are designed to teach science, technology, engineering, and mathematical concepts to students in kindergarten through grade 4.

www.nasa.gov/kidsclub

Apply Lessons: Applications of Mathematics helps students see the usefulness of taking math courses by linking the lessons to specific occupations that use the skills that students are learning.

www.bced.gov.bc.ca/careers/aa/lessons/math.htm

CoolMath4Teachers provides lesson plans and ideas for teaching math skills, as well as a mentor program for new math teachers and information about professional development opportunities.

coolmath4teachers.com

Reflection is an NCTM professional development resource featuring classroom videos that enable teachers to analyze and reflect on instructional practices. It also includes lessons and questions to guide teachers' reflection.

www.nctm.org/reflections

Math Goodies is a free math help site that offers more than 400 pages of K-12 activities to students, educators, and parents.

www.mathgoodies.com/teachers.html

Submitted by:

Jim Austin

Bullet County Schools



Focal Points - Hot

NCTM just released a major document for mathematics the NCTM Focal Points for grades Pre-K to 8th.

What are focal points?

Curriculum focal points are the **most important mathematical topics for each grade level**. They are the related ideas, concepts, skills, and procedures that form the foundation for understanding and lasting learning.

A focal point is a **cohesive cluster of related knowledge, skills, and concepts**. It is more than a single objective, standard, expectation, or indicator. A focal point specifies the **mathematical content that a student needs to understand deeply and thoroughly** for future mathematics learning.

Order or download (pdf file) a copy from NCTM website www.nctm.org today.

Illuminations

Are you looking for exciting ideas to teach the focal points? The National Council of Teacher of Mathematics (NCTM) has revised and improved the [Illuminations Web Site](http://illuminations.nctm.org/). This is one every teacher will love!

<http://illuminations.nctm.org/>

NCTM Annual Meeting

NCTM Annual Meeting in Atlanta, GA. March 21-24, 2006. The theme for this year's conference is Mathematics: Representing the Future. Preregister by February 14, 2007 to receive a reduced registration rate.

Go to <http://www.nctm.org/meetings/atlanta/#registration> for information on registration, travel and hotel arrangements.

Needed – A New Generation of Teachers Who Love Math!

We need more teachers who love to learn and teach mathematics. Encourage your students, share your passion, and support the future of mathematics education. Send your best and brightest students to the NCTM web site **Be a Math Teacher** at <http://www.nctm.org/teachmath/>. This site has information on the certification requirements.

On Math - NCTM On-line Mathematics Journal

This must-see web site has journal articles that take advantage of the power of technology to keep teachers ready to teach with oomph and learn with pizzazz. This is a great resource to inspire pre-service teachers, student-teachers, and prospective teachers.

Try it, you will be hooked (Applets, downloads, articles, tips, hints and so much more). Find links to **On-Math** from the home page of NCTM, www.nctm.org



Reports from Affiliates

Lexington Council of Teachers of Math

The members of the Lexington Council of Teachers of Math are eagerly preparing for two upcoming events. On January 24, 2007, Math Madness, an evening of math PD, will be held at Tates Creek High School. LCTM members will attend sessions related to probability, curriculum frameworks and technology. Presenters including Evelyn Christensen, Ruth Casey, Bev Dean, Natalee Feese, Debbie Waggoner (and more!) will be on hand to inspire and

lead. In October 2007, the T3 Regional Conference and KCTM fall conference will be held at Henry Clay High School. Bryson Perry is the conference chair.

For questions or LCTM membership contact: Carmen Rader Bowles (carmen.rader-bowles@fayette.kyschools.us). An LCTM membership also includes membership gifts and a subscription to the LCTM monthly newsletter.

Submitted by:

Natalee Feese

natalee.feese@fayette.kyschools.us

Greater Louisville Council of Teachers of Mathematics/LATTICE

The next joint meeting of GLCTM and LATTICE will be on Thursday, January 25, 2007 (snow date - Thursday, February 1, 2007) at Male High School at 5:30 pm. The program will have a technology focus, including sessions on using Tablet PC's in the mathematics classroom and introductions to the TI Navigator and the Smart Board. Contact Bruce Dillman (Bruce.Dillman@jefferson.kyschools.us) for more information.

Submitted by:

Amy Herman

Amy.Herman@jefferson.kyschools.us

Kentucky Mathematical Association of Two-Year Colleges (KYMATYC)



KYMATYC is pleased to report that in the midst of a national focus on quality mathematics and science education in the United States, the American Mathematical Association of Two-Year Colleges (AMATYC) released *Beyond Crossroads: Implementing Mathematics Standards in the First Two Years of College*, its second standards document on November 2, 2006, at its 32nd Annual Conference in Cincinnati, OH.

In 1995, AMATYC published its first standards document, *Crossroads in Mathematics*. *Beyond Crossroads* builds on that earlier work to provide implementation standards to move college mathematics faculty from theory to practice. In effect, *Beyond Crossroads* is a call to action for faculty who provide the first college mathematics experience for a substantial number of U.S. undergraduates. A goal of *Beyond Crossroads* is to help students apply mathematical knowledge to their workplaces and their lives in our increasingly technological society.

Beyond Crossroads promotes continuous improvement in mathematics education in the first two years of college. An important feature of the document is an Implementation Cycle, designed to help mathematics faculty make needed changes in learning and the learning environment, assessment of student learning, curriculum and program development, instruction, and professionalism. With the cycle and five new Implementation Standards, faculty are challenged to become lifelong learners as professionals, stay current with research on learning and teaching of mathematics, and make informed decisions about curriculum design, assessment, and instructional strategies.

Beyond Crossroads is intended to stimulate and challenge faculty, departments, and institutions to examine, assess, and improve every component of mathematics education in the first two years of college. The standards, recommendations, and action items are not intended to be prescriptive, but are designed to provide faculty members, departments and institutions with the guidance they need to implement new strategies and to embrace an action-oriented vision.

AMATYC president Kathy Mowers stated, "In 1995, AMATYC members embraced the first *Crossroads* document and

Electronic resources accompanying *Beyond Crossroads* are available at www.bc.amatyc.org. These electronic resources extend and enhance the messages of *Beyond Crossroads*. Focus areas for electronic resources include a web-enhanced version of the document, an outreach kit for communicating the messages of *Beyond Crossroads*, and resources on assessment and quantitative literacy.

AMATYC is "Opening Doors through Mathematics." Founded in 1974, AMATYC represents mathematics faculty

and students in two-year colleges with forty-four affiliate organizations representing forty-seven states and one Canadian province. With approximately 2,500 individual members and more than 100 institutional members, AMATYC is the only organization exclusively devoted to providing a national forum for the improvement of mathematics instruction in the first two years of college.

Submitted by:

Kathy Mowers

Kathy.Mowers@kctcs.edu



Minutes from KCTM Board Meetings

May 13, 2006

KCTM Board Meeting

Anne Mason Elementary

Members Present:

Susan Collins

Beth Noblitt

Lori Durham

Joyce Watson

Gina Foletta

Leslie Robertson

Barbara Jacobs

Mike Waters

Maggie McGatha Amy Herman

Approval of February Minutes

No corrections – minutes approved

Any Additions or Deletions to Agenda

No additions or deletions were made

2006 Conference Report

The 2006 Conference speaker/registration form is on-line and ready to go.

SPEAKER FORMS ARE DUE AUGUST 1

A Map of Anne Mason Elementary was passed out by Leslie.

The conference will be “co-hosted” by Scott County Schools with visible credit being mentioned in the program. This will be done routinely with future conferences.

Leslie shared a conference update handout and requested \$200 total for breakfast and decorations. Scott County will be printing the program, supplying the tables, and covering the event insurance for us. Barbara agreed to accept a P.O. from the Scott County Schools for bulk registration for their teachers. Leslie will have extension chords available.

Scott County will be offering leadership credit at the conference for administrators

This year around 2:30 or 3:00 door prizes will be given and KCTM officers will be introduced.

NCTM Delegate Assembly Report

Maggie attended the delegate assembly.

No resolutions were submitted by the November deadline.

The Southern Caucus brought a proposal to the conference asking that NCTM reconsider their policy concerning sharing membership lists. The proposal will now be considered by the board.

Treasurer's Report

two handouts were given:

Treasurer's Report: May 2006

Beginning Balance - \$7975.00

Income – membership dues – 102.00

Expenses - \$1181.28

Ending Balance - \$6895.72

Major expenses – NCTM conference expenses for Maggie

KCTM 2006 Budget Proposal

Proposed Income \$15750

Proposed expenses \$15530

Nominations Committee Report

Three nominations for **High School VP** have been received.

Kari Anderson Ostby - Carroll County Schools

Judy Pennington Price – Jackson County Schools

Jim Austin – Jefferson County Public Schools

One nomination for **Middle School VP** has been received.

Gloria Beswick – Jefferson County Public Schools

One nomination for **President-Elect** has been received.

Beth Noblitt – Northern Kentucky University

The office of Secretary will be added to the ballot and Jim Austin will resend the call for nominations

KDE Report

Ann Bartosh could not attend, but sent an e-mail to Gina

The Presidential Award Winner for the year is Paula Cissell, Beaumont Middle School.

The Committee on Math Achievement has received about 250 applications for diagnostic intervention. They will be selecting 40 and announcing the schools selected later this month. The MIT primary workshop dates have been set. They will be looking at Number World and Math Recovery.

240 slots were available for the Math Coaches but only 80 have been filled. One training site will be Northern Kentucky University (June 5-16) for P-8 and one site will be WKU (July 17-28) for P-12.

Core-Content 4.0 will no longer be draft after June 12

A committee will meet in early July to set cut off scores for KCCT

The E'town Diagnostic assessment group has done field testing and will meet next week to do item analysis.

2007 Conference Possibilities

Margaret Taylor – Henry Clay High School submitted a proposal for hosting a 2007 T-cubed regional conference in October and would like to have this conference in conjunction with the KCTM conference.

Newsletter Report

Amy will be finalizing the next newsletter ASAP and should be available on the web by June.

Other

Maggie shared an update for the policy manual for the Conference Site Chair and President-Elect. Motion passed for changes to be made.

Lori's newsletter contributor checklist will also be added to the policy manual.

Next board meeting will be August 26 @ Gheens in Louisville at 10:00.

Submitted by:

Susan Collins

susan.collins@etown.kyschools.us



August 26, 2006

KCTM Board Meeting

Gheen's Academy

Members Present:

Susan Collins

Barbara Jacobs

Maggie McGatha

Ann Bartosh

Gina Foletta

Beth Noblitt

Kathy Mowers

Joyce Watson

Billie Travis

Lori Durham

Approval of May Minutes

The minutes were approved with no corrections or additions.

Any Additions or Deletions to Agenda

Joyce Watson addressed the board and asked for our expertise to help her create a resource booklet for the HSE's to reference. The booklet's initial vision is to be 10-12 pages in length sorted into categories by Elementary, Middle, and High with subcategories such as core programs, enrichment programs, etc. Joyce will be sending the board an e-mail with more details.

Lori Durham addressed the board with revisions to the policy manual for the offices of president-elect and conference site-chair. She also presented a checklist of contributors to the KCTM Newsletter.

Treasurer's Report

Barbara Jacobs provided the board with the treasurer's report.

Beginning balance: \$6895.72

Total Income: \$1,431.52 (transfer from other account and dues)

Expenses: \$409.50 travel from May board meeting)

Ending balance: \$7917.74

A motion was made and carried to accept the budget with no corrections or additions

KDE Report

Ann Bartosh provided the board with a draft combined curriculum document sample. The program of studies and core content are being combined into one document. 2 sessions are being offered at the conference to introduce and explain the new document.

The end-of-course assessments group is planning a summit for October to distribute and discuss the tests that were created. Tests were created for Algebra 1, Geometry and Algebra II and will be available on the web. (The law requires piloting the end-of-course assessments in Math by the end of the 2007-2008 school year.

The newest version of the Program of Studies will say 2006 and will not be divided into specific courses.

The ACT will be given to all juniors beginning in the 2007-2008 school year. The current average score nationwide for math is 17.8. Language in the bill says Accelerated Help will be provided for students not meeting the national average.

Nominations Committee Report

Susan Collins addressed the board with the officer nominations. Beth Noblitt (NKU) will be running for President-

Elect. Susan Collins (Elizabethtown Independent) will be running for Secretary. Bryson Perry (Henry Clay High School), Kari Anderson Ostby (Carroll County Schools) and Judy Pennington Price (Jackson County Schools) will be running for High School Vice-President. Gloria Beswick (JCPS) will be running for Middle School Vice-President.

2006 Conference Report

Maggie addressed the board with a conference report. The committee was planning on 300 people being in attendance at the conference, but the discussion by the board suggested that we might easily have 400 people in attendance.

More speaker proposals are needed (especially at the primary level.)

Only 5 primary session proposals have been received to date. 7 intermediate, 16 middle, 18 high school, and 11 general session proposals have also been received.

Kathy Seeley (NCTM Past- President) will be attending the conference. She will give the Keynote session from 9:30 – 10:40. She will also be receiving a MESA award and giving a brief speech at the banquet. Ann Booth will be coordinating the MESA program this year. There will be no charge for insurance, custodians or program printing this year – Scott County has agreed to pick up the tab. Registration is going well. The deadline for registration was changed to September 18. At 3:15 PM this year, there will be a prize giveaway to keep participants there until the end. Kathy Mowers will have the program posted on the web by the second week of September.

2007 Conference Report

Maggie addressed the board with details of a recent meeting with T³ concerning the 2007 conference. Bryson Perry (Henry Clay High School) recently submitted a proposal to T-cubed to host a regional conference and the proposal was accepted. TI will give Bryson a \$6000 check, which he plans to turn over to KCTM. The conference is scheduled for Friday and Saturday, Oct 19-20, 2007. Bryson will create a web site to advertise the conference. The registration fee will be \$40. **All** speaker proposals should be focused on Technology. Registration, speaker proposals, etc. will all be handled the same as for any KCTM conference. There may be a reduced price for early bird registration and science sessions may possibly be added. The MESA banquet will be on Friday night.

MESA Awards Report

Margaret Taylor and Ann Booth were both unable to attend the meeting.
No report was given.

Newsletter Report

Amy was unable to attend the meeting.

The Newsletter was not sent in May. There was not enough information submitted. Newsletter submissions are due November 1 for the next newsletter. The board brainstormed several grant coordinators and agencies that should be contacted for articles or updates (i.e. Primary Intervention, The Center, End-of-Course Assessment, KEMPT, ARSE, ACCLAIM, GEARUP, The National Math Advisory Panel.) From this date on, each board meeting agenda will include a newsletter report section where the entire board will brainstorm possible articles. Contacts will then be assigned to the appropriate VP's.

Submitted by:

Susan Collins

susan.collins@etown.kyschools.us