

Math SPIN News

Newsletter of the NADE Math SPIN

www.nademathspin.org

February, 2005

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Letter from the Co-Chair:

Welcome to the Winter 2005 MATH SPIN Newsletter. I can hardly believe that we will meet in Albuquerque in about 3 weeks. We look forward to seeing you at the NADE Conference: **Learning and Teaching: Above and Beyond in Albuquerque, March 9-13**. Our NADE conference is a great opportunity for seeing old friends, making new members feel welcome, and a time to rejuvenate us professionally. Daryl and I want to be sure to invite you all to come to the **Math SPIN meeting on Thursday, followed by 3**

Math Sessions: a real feast for the mathematically inclined and a first, I think, for NADE. I suspect that having a SPIN member as program chair may have helped: Thanks to Susan McClory for that help!

11:45 - 12:30 Thursday, March 10, 2005, the NADE Math SPIN annual meeting will be held in the Conchita Room at the Albuquerque Convention Center as part of the NADE conference. We hope you will be able to attend. During this time we will elect officers and set goals for next year.

If anyone would like to run for office (an existing one or a new one we make up), let Daryl know by February 28 or talk to either of us Wednesday night or Thursday morning of the conference.

Then, shortly after the SPIN meeting, on Thursday March 10, the three sessions we have planned are as follows:

- 1. 1:15 - 2:15 Creative Borrowing & Sharing Ideas:**
Colloquium being led by Jackie Bakal, Cynthia Geoffrey and Diane Martling
- 2. 2:30 - 3:30 Stone-Age or Technology: Why Not Both? : A colloquium on Technology** including Daryl Stephens, RE Moore and Diane Martling
- 3. 3:45 - 4:45 No Test? How Are We Going to Assess Them?**
A colloquium on Assessment being moderated by Daryl and Diane

If you are interested in joining the discussions either as a panel member or just coming to share your thoughts and ideas, please contact me as soon as possible. We hope to see you all there.

We could also have the focus group that worked on reviewing the AMATYC Crossroads 2006 Document report on their findings and discuss the implications for all of Developmental Education at both the four-year and the two-year institutions. Though you may not have had the opportunity to read the document, it would be nice to have some idea of what AMATYC is thinking about with their initiatives and our NADE responses.

Please feel free to contact Daryl or myself via e-mail or via phone:

Daryl Stephens stephen@etsu.edu 423-439-4676
Diane Martling dmartlin@harpercollege.edu 847-925-6337 voice mail

Hope to see you in Albuquerque!

Diane Martling

We'd like to invite anyone making a presentation to submit a summary (2-5 paragraphs) of his or her session for inclusion in the post-conference Math SPIN newsletter. This will allow you to reach people who were unable to attend the conference as well as people who attended but couldn't go to several sessions simultaneously. Please send those to Daryl as he is the Webmaster and can more easily convert them to the correct format. The more we share our teaching ideas, our successes and failures, the better our profession gets. Why should we keep re-inventing the wheel? Please include your conference handouts for posting on the web site as well. Send them to Daryl in a computer file in Word, Word Perfect, Open Office, Power Point, Corel Presentations, PDF, Rich Text Format, plain text, or MS Publisher (but not MS Home Publisher), and he'll post them on the web site, doing any conversions necessary to make it easy for people to view them. If you have trouble e-mailing them to Daryl, you can send Daryl paper copies to Box 70663, Johnson City, TN 37614. or to Diane at Harper College, 1200 W. Algonquin Road, Palatine, IL 60067.

Letter from the Chair:

I am really looking forward to this year's conference. Albuquerque was one of my family's favorite cities to visit when I was a teenager, but I haven't been back since.

We have no pressing issues or crises to deal with at our SPIN meeting, so we'll have a chance to share ideas! Please come with a brief teaching-related idea you'd like to share, or any issues you'd like to bring up. As always, we'll also have officer elections.

We didn't have a full list of math sessions to publish in this newsletter, but I know there will be some good ones. We also didn't get any articles for this newsletter, but feel free to submit one for a late spring edition. I hope to see you in Albuquerque!

Daryl Stephens

Professional Development Opportunities

7th International Conference on Technology in Mathematics Teaching "Visions of Mathematics Education: Embedding Technology in Learning"

July 26 - 29, 2005. Bristol, UK

The conference brings together educators, researchers and developers with a common interest in enhancing teaching and learning mathematics (at any level) through the use of Information and Communications Technology (ICT).

Full conference information, including registering to attend and submitting speaker proposals can be found at <http://www.ictmt7.org>. The deadline for submitting conference papers is April 30, 2005. Register to attend as soon as possible. The speaker proposal form is not yet posted on the conference web page. If you register for the conference, you will be notified when it is posted; otherwise, please check in a couple weeks.

Bristol is a popular resort town west of London and is a short drive to the Cotswold's, Bath, Stonehenge, and other wonderful historic sites.

The 2005 AMATYC Outer Banks Summer Institute, "Developmental Algebra Using a Function Approach"

June 12 - June 17, 2005, Duck, North Carolina

The AMATYC Outer Banks Summer Institute www.amatyc.org is being held June 12 - 17, 2005, in the "resort" town of Duck, North Carolina. The Institute will be of value to those considering a teaching/learning enhancement to the developmental algebra curriculum. We will modify the traditional content by approaching it through function, which will reorder it and capitalize on function concepts to develop mathematical understandings and skills. Inherent in the function approach to teaching algebra (with a graphing calculator) are the cognitive processes of associations, pattern recognition, attention, priming, visualizations, and the enriched teaching environment. By teaching to the way the brain functions, we will remove a layer of difficulty to learning algebra. We will provide materials that use these brain-based strategies for teaching algebra. The classroom for the Institute is housed at the Army Field Research Facility (FRF) <http://www.frf.usace.army.mil/> on the oceanfront and offers the view and sound of the Atlantic surf. The Outer Banks of North Carolina is a major attraction offering beaches, shopping, fine restaurants, and lots of historical sights. It is a great place to take your family.

For further information please contact Ed Laughbaum, Institute Director, at <http://www.math.ohio-state.edu/~elaughba/>, (614) 292-7223.

More opportunities →

Professional Development Opportunities (continued)**The Teachers Teaching with Technology College Short Course Program (T³ CSC)**

The T³ CSC Program is based at The Ohio State University and offers a fresh look at the developmental algebra curriculum and pedagogy. The Program's DEV short course "Developmental Algebra Using a Function Approach" is available free for 1 to 3 days on your campus (15 faculty participant minimum). The DEV short course will investigate a beginning/intermediate algebra curriculum that uses a function approach and develops mathematical ideas in the context of real-world situations. We use the Texas Instruments CBL 2™, several apps, and the TI-84 Plus™ SE. Course instructors include Debbie Crocker, Joe Fiedler, Peg Greene, Ed Laughbaum, Charles Hofmann, Roseanne Hofmann, and Wade Ellis.

We also offer a Pre-service Teacher Educator course (PTE) that is designed for pre-service teachers involved in both content and methods courses with middle, and/or high school concentrations. The course consists of a series of modules designed to help students implement technology enhanced lessons in their courses as well as presenting some concepts within a module in a developmental sequence. The current list of modules contains Number Relations, Geometry, Algebra, and Probability/Statistics/Data Analysis. Modules may use one or more of the following tools, along with the appropriate calculator apps: TI-73 Explorer, TI-84 Plus SE, Voyage 200, CBL 2™, CBR™. The pre-service science modules are under development, but available for use. PTE short courses are available in 1.5 to 3-day lengths. PTE instructors include Chris Browning, Debbie Crocker, Patsy Fagan, Paul Kennedy, Mark Klespis, John LaMaster, Stuart Moskowitz, Judy O'Neal, and Steve West.

For more information and an application, please contact Ed Laughbaum, elaughba@math.ohio-state.edu or visit www.math.ohio-state.edu/shortcourse/. The presenter's expenses and honorarium are paid by a grant from Texas Instruments to The Ohio State University. The Ohio State University program is endorsed by the American Mathematical Association of Two-Tear Colleges <http://www.amatyc.org/meetings.html>.

3rd International Conference on "Teaching of Mathematics" at the Undergraduate Level (ICTM3). June 30 - July 5, 2006, Istanbul, Turkey

Please visit <http://www.tmd.org.tr/ictm3> for information about paper submission!

For more information, please contact:

Conference Chair, Ignatios Vakalis ivakalis@capital.edu, Department of Mathematics, Capital University

Conference Co-Chair, Deb Hughes Hallett, Department of Mathematics, University of Arizona

More opportunities →

Professional Development Opportunities (continued)

3rd Annual USACAS conference, Atlanta, GA, June 25-26, 2005.

This year's conference is being hosted by Chris Harrow and Westminster Schools in Atlanta. The tentative program includes Paul Drijvers (The Netherlands), Bernhard Kutzler and Josef Boehm (Austria), Lynda Ball (Australia), Carolyn Kieran (Canada), Vlasta Kokol-Voljc (Slovenia), Eugenio Roanes-Lozano (Spain), Todd Edwards, Kathy Heid, Natalie Jakucyn, Bob McCollum, Tom Reardon, Jim Schultz, Zalman Usiskin, Bert Waits, Rose Zbiek, and many others (U. S.).

Information can be found at: <http://www.westminster.net/usacas/>

MELT – Mathematics Education Leadership Training

Appalachian State University in Boone, NC, has six week-long institutes about using technology (calculators). For more information, go to the web site at <http://www.melt.appstate.edu/institutes.html>.

- T³ Algebra (19-24 June)
 - T³ AP Calculus (19-24 June)
 - T³ Geometry (26 June-1 July)
 - Statistics (26 June-1 July)
 - Technical Mathematics (10-15 July)
 - Advanced Functions & Modeling (10-15 July)
 - History of Mathematics (17-22 July)
 - T³ Integrating Multiple Technologies (17-22 July)
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Thanks to Ed Laughbaum for passing along these professional development opportunities.