

COSMOS COLLABORATIVE COUNCIL
March 3, 2008 ~ 8:00-9:30am Room 246 Math Science Bldg.
Minutes

ATTENDANCE:

Jessica Belcher, COSMOS

Charlene Butler, Wood Co ESC

Andy Campbell, LEARNCO, NCOESC

John Crecelius, Perrysburg Schools

Karen Creps, Wood County ESC

Erin Henry DeSilva, WGTE

Andi Erbskorn, Sauder Village

Rosemary Irons, Visiting Professor, BGSU

Treva Jeffries, Toledo Public Schools

Michelle Leow Klinger, COSMOS

Margy Brennan Krueger, Wood County ESC

Jennifer Kogut, Sylvania Schools

Julie Muffler, Challenger Learning Center, LCESC

Bill Nellis, SST, Region 6

Heather Norris, Metroparks Toledo

Ron Rogers, SST, Region 1

Michelle Shafer, COSMOS

Judy Withrow, Findlay City Schools

ANNOUNCEMENTS:

- A. Michelle Shafer called the meeting to order and asked attendees to introduce themselves.
- B. COSMOS Website and PD Calendar
 1. Districts may use the COSMOS calendar to upload information about upcoming PD opportunities in their districts. The link to the interactive calendar was demonstrated to the group: <http://cosmos.bgsu.edu/events/>. Events may be submitted by clicking "Submit Event" on the Master Calendar. It will take a few hours for your event to be approved and appear on the site.
 2. Teachers and district personnel are encouraged to visit the site often to post announcements and learn about educational opportunities happening across the region. NWO/COSMOS Summer Opportunities are now also available on the website.
- C. The next Inquiry Series meeting will be Thursday, March 13, 5:00-8:00 at Owens Community College. Rosemary Irons and Barbara Moses will be the guest speakers that evening (Patterns Promote Powerful Reasoning for Math teachers K-8), and Tracy Huziak-Clark will give the keynote presentation (Assessing Inquiry). The event is free. Teachers and administrators should register at <http://cosmos.bgsu.edu/inquiryseries/index.htm>.
- D. The Future Teacher Conference will be held this year at University of Findlay. Registration is \$10 and includes lunch and certificate of completion. High school Future Teachers students are encouraged to attend this one-day conference that includes lessons and resources for the classroom. Distribution of flyers to schools began at the end of February. Registration, the flyer, and additional information can be found at: <http://cosmos.bgsu.edu/nwoFutureTeachersConf/>.
- E. The next meeting of the COSMOS Collaborative Council will be Wednesday, April 2, at 3:00pm.
- F. Summer NWO/COSMOS Opportunities:
 1. TEAMS—The new focus for TEAMS Cohort III is *Science for All Students*, blending science and special education to assist both special education and inclusion teachers with inquiry science instruction. Teachers of grades 3-6 are invited to register. Registration is now available on the COSMOS website.
 2. DREAMS—Offering opportunities for teachers to earn an MAT in Physics, Mathematics, or Interdisciplinary Science, a Specialist Endorsement in K-6 Math or K-9 Science, and more. The focus is on creating STEM leaders in our region's schools.
 3. RIPE II—Research-based Inquiry Physics Experiences has been funded. To register, teachers may contact Tracy Huziak-Clark at 419-372-7363 or thuziak@bgsu.edu. For more

- information, go to: <http://cosmos.bgsu.edu/ripe/index.htm>.
4. Real-world Problem Solving: Fun Mathematics for Teachers & Kids—A one-week workshop for teachers with a second week for students and teachers. For more information, go to: <http://cosmos.bgsu.edu/events/> or contact Dr. Barbara Moses at bmoses@bgsu.edu
 5. GLOBE—Environmental education program for teachers. Contact Dr. Jodi Haney at jhaney@bgsu.edu.
- G. A+ For Energy grants from BP are due March 7.
- H. The ODE Seed Grant (*Partners in Inquiry Resources and Research, pi r²*) planning begins today at this meeting. The grant provides planning time and funding for a new professional development opportunity to begin in the fall of 2008. Teachers taking part in this program will receive free outreach programming for their classrooms through a number of organizations such as Toledo Zoo and Metroparks. Information will be available on the COSMOS website beginning in March.

WORKING ITEMS:

- A. Shift Happens
1. Michelle Shafer presented a PowerPoint she recently showed to grades 11 and 12 girls at the Women in Science Day at BGSU. *Shift Happens* introduced the group to the enormity of information, which we, our teachers, and our students are presented with on a regular basis. The presentation encourages us to consider the importance of helping students become self-directed, organized, global thinkers to achieve success in today's "Information Age." View the presentation on the COSMOS website: <http://cosmos.bgsu.edu/communities/cccl/>. The presentation can be found in the "Documents" folder.
- B. *Partners in Inquiry Resources and Research, pi r²* Brainstorming
1. TPS informed us that schools need more help in grades 3-5 elementary science to better prepare students for Achievement Testing. Programs hitting Science & Technology standards would be helpful, as well as helping teachers adapt FOSS kits.
 2. Sylvania informed us that Inquiry methodologies and modeling are needed, as well as reinforcing to teachers that with inquiry they don't need to have all the answers.
 3. Formative assessment is also an area where teachers need assistance. Understanding what it is and how it can be implemented. Outreach providers can use formal training on that to model formative assessment in their programs.
 4. The outreach model allows these providers to go into the school to co-facilitate inquiry science with teachers. Outreach providers will also be our eyes and ears in the schools. They will use a checklist to provide feedback that certain criteria for successful classrooms are being met.
 5. Grouping teams of teachers from the same school will be helpful in providing outreach. Junior highs will need outreach for day long programming as some educators may teach six or seven of the same science preps.
 6. Funds for BCI/FBI checks for outreach providers may be included in the grant to assist schools that require checks.
 7. Areas that teachers can use assistance with: Evolution, Chemistry, Physical Sciences, Weather, Cycles in Nature, Global Warming, Plant Diversity (see Veggie University)
 8. Outreach providers can help by both introducing new content and reviewing content already taught. Look at grade bands to note how outreach can bring in the indicators during the programs.
 9. Discussion about how best to collect data from schools in areas of test achievement. Some schools report by classroom teachers, others by grade level. Ron Rogers suggested asked Noreen Mullins at SST to help with achievement data.

DISCUSSION TOPICS:

- A. After a discussion on dates for future meetings, it was decided to rotate meeting times between morning and afternoon. The morning time may be changed to allow more travel time.
- B. Scheduled meetings:
 - 1. Wednesday, April 2, 3:00-4:30pm
 - 2. Monday, May 5, 9:00-10:30am (NOTE CHANGE IN DATE & TIME)
 - 3. Wednesday, June 4, 3:00-4:30pm