

The
Center for Science Education Research
invites you to attend any and all programs in its



Teacher Development Center
Science/Mathematics Education

2004-2005

Seminar Series for Life-long Learners

at
The University of Texas at Dallas

Monday evenings from 6:00 pm until 7:30 pm in the Conference Center, CN1.112



September 27, 2004

Dr. Thomas R. Butts

Teaching Mathematics Through Problem Solving

To many mathematically literate people, mathematics is synonymous with solving problems. On the other hand, persons not enthralled with mathematics may describe any mathematics activity as problem solving. This discussion will focus on mathematical problem solving as a Process, as an Instructional Goal, and as an Instructional Method.

November 1, 2004

Dr. Fred L. Fifer, Jr.

Critical Thinking: A Novel Way of Learning

Not everyone is born a 'good' critical thinker, but everyone can improve his/her skills with a little practice. Becoming comfortable with some simple strategies is a major enabling tool applicable to many venues. Four areas related to this topic are [1] Trial & Error, [2] Word Pictures, [3] Big Numbers, and [4] Relativity. Come enjoy participating in some critical thinking activities – ideas you might use tomorrow!



January 24, 2005

Dr. Homer A. Montgomery

Improving Education in Science Five Minutes at a Time

Radical pedagogical modifications in the classroom are difficult to execute. Implementing five-minute manipulative sessions meets little instructor resistance and improves scores on exams. Examples include the use of common hardware store objects to help students understand cladograms and learning about sauropod physiology by manipulating potatoes, balloons, toothpicks and PVC pipe.



February 28, 2005

Dr. Mary L. Urquhart

Scale in the Solar System

Learn about hands-on activities that will aid in understanding scale in the solar system. We will create a 1 to 10 billion scale model of the planets and Sun using everyday materials, model the Earth-Moon system with 'play dough', and see how a scale model of Saturn can help with visualization of the ringed planet!

April 11, 2005

To be announced!

2004-2005 Seminar Series Finale

Our final seminar will feature another innovative leader in Science/Mathematics Education. Please check the online schedule at www.utdallas.edu/~rnix/quality and look for other announcements to be released soon.

Especially designed with classroom teachers, school administrators, educational professionals, higher education faculty and staff, young adults, parents and grandparents in mind, these presentations are free and open to the public!

The University of Texas at Dallas is located near the intersection of Campbell and Coit roads in Richardson, Texas. Campus maps, university and program information are available at www.utdallas.edu or call 972-883-2496 for details.