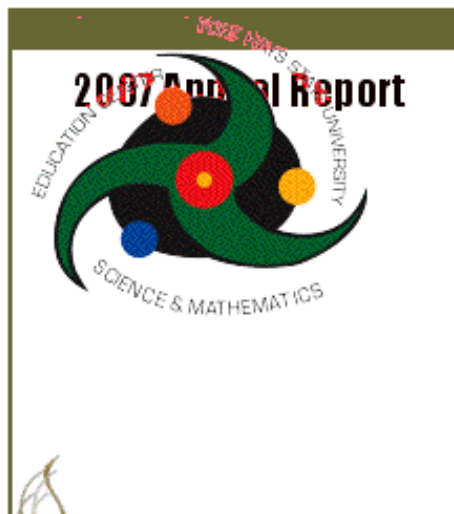




FHSU Science and Mathematics
 Education Center
www.fhsu.edu/scimathcenter
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Fort Hays State University Science and Mathematics Education Center



**FORT HAYS STATE
 UNIVERSITY**

www.fhsu.edu/scimathcenter



Events in 2007

- **FHSU Girls' Math & Science Camp: Crime Scene Investigation** with 24 participants
- **Science Exploration Day** with 36 middle school children
- **GLOBE Environmental Workshop** for Kansas teachers with 30 participants
- **NASA workshops** for Kansas teachers
- **Science & Mathematics Education Center** presented at a school in France and continued communication through **IPTV video conference** with 36 participants
- **After School Science & Mathematics Program** for K-5 children
- **Kansas STARBASE Summer Academy**
- **LEGO's Robotic Competition** with Physics Department
- **Hot Topics- Google Earth Workshop**
- **Chris Mooney Talk/Author: Storm World**
- **Dr. Don Sweetnam/NASA: Exploring our Solar System**
- **Earth System Science: Global Warming**
- **Hot Topics-Geometer's Sketchpad:** Keith Dreiling
- **Hot Topics-Grant Writing for Teachers:** Leslie Paige
- **Aerospace Education Workshop:** Mike McGlone
- **My NASA Data & Career Connections Workshop**
- **Science Christmas Program** held at the Sternberg museum with NSTA Group

Grants

- Improving Teacher Quality: Physical Science with Mathematical Modeling Workshop
 - July 2005 – June 2008
 - \$720,000
- NCLB Western Kansas Mathematics Academy
 - March 2006-February 2009
 - \$300,000
- NCLB Western Kansas Primary Mathematics Academy
 - March 2007-April 2010
 - \$300,000
- NCLB Southwest Kansas Middle School Science in Context
 - March 2004 – June 2007
 - \$190,000
- ESSEA Improving Earth Science Education in Kansas
 - June 2007 – October 2009
 - \$40,000
- NASA: My NASA Data
 - June 2008 – Sept 2008
 - \$9,544
- SCORE, Lunar and Planetary Institute

Mission

- o August 2006 – January 2007
- o \$3,950



Science Exploration Day

The FHSU Science and Mathematics Education Center sponsored a one-day science exploration. During the day kids were actively involved in learning some fun science through hands-on activities. The science focus for the exploration day was chemistry. Presenters were master middle school science teachers from across the region.

NASA

FHSU Science and Mathematics Education Center held an Aerospace Education Workshop for pre-service and in-service teachers. The workshop was designed to enhance curriculum and knowledge of aerospace topics. Selected workshop topics presented by a NASA Space Educator included: Aeronautics, Earth Science, ISS Toys, Microgravity, and Rocketry.

France

Dr. Paul Adams, Anschutz Professor of Education and Professor of Physics at FHSU, went to Toulouse, France as part of the education and public outreach of the CALIPSO satellite mission. Dr. Adams was invited by CNES, the French Space Agency, to conduct a workshop for 38 teachers from across France in May 2007. In addition, he taught science lessons to high school classes at the Lycée des Arènes in Toulouse, France. One teleconference was held in collaboration with Hays High School and the school in France during the spring of 2007.

Project Evaluation

The Center is available for project evaluation. Currently we are working with Purdue University and Frankfort Schools in Indiana on several evaluation projects.

Hot Topics

As part of the center citizen science efforts we provide public information programs such as workshops and speakers on timely and significant mathematics and science topics.



Mission Statement

The mission of the FHSU Science & Mathematics Education Center is to inform, reform, and improve science and mathematics education, awareness, and appreciation in K-12 schools, the University, and the community in western Kansas. The Science & Mathematics Education Center will serve as a bridge between FHSU, K-12 schools, and the community by supporting, facilitating, and promoting outreach programs.

Highlights

Goals

1. Provide professional development in science and mathematics content for pre-service and in-service science and mathematics teachers strengthening subject matter knowledge and developing pedagogical skills.
2. Seek external funds to support science and mathematics education programs for scientists teaching in classrooms or in the community.
3. Function as a central coordination for outreach activities and professional development offerings in science and mathematics available through the FHSU mathematics and science departments and community programs.



FHSU Girls' Math & Science Camp: Crime Scene Investigation

Twenty-four girls were selected to attend the one-week residential summer camp. The girls accepted were between their 7th and 8th grade years. The camp offered a variety of educational and fun activities, provided role models working with science and mathematics professionals, and provided social experiences designed to build girls' desire to succeed in science and mathematics. The camp encouraged middle school girls continued interest in science and mathematics and helped them explore science and mathematics related careers.

Quotes from participants:

- "Camp made me realize it's okay to like science and math even if others don't."
- "Camp has shown me the importance of science and math together."

