TEACHING, LEARNING & CULTURE
TEXAS A&M UNIVERSITY

Summer 2017
Professional Development Activities for Teachers

Contact: Dr. Roger Howe
Program: **Yale Teachers Institute, National Initiative.**
Dates: May 4-5 and July 10 - 21, 2017
Description: Mathematics seminar on algebra word problems for a group of K-12 teachers from high needs districts.

Program: **Annual Conference of Chicago Lesson Study Alliance**
Date: May 11, 2017
Description: Keynote address.

Contact: Dr. Sandra Nite
Program: **Supporting Mathematics in STEM Education**
Target teacher Audience: 1) 8th grade Mathematics & Algebra 1; 2) Algebra 2 & Pre-calculus; and 3) Dual Credit Mathematics
Dates: The grant period is 2/1/2017 - 2/28/2018
Face-to-face sessions are in June and July; Online sessions are June 2017 through January 2018; there is also a conference
Description: Teachers will receive 100 hours of professional development over the course of the year, including mathematics content, pedagogical content knowledge, project-based learning, and technology integration. They will set goals to implement changes in their classrooms and conduct action research. Online sessions are conducted through Blackboard Collaborate, a robust conferencing system that includes VOIP, an electronic whiteboard, and breakout room capabilities for teachers to work together. For more information: http://aggiestem.tamu.edu/tggrantprogram/

Contact: Jeanne Carter
Program: **Using Children's Literature in the Classroom: K-2**
Target teacher audience: Elementary teachers, grades K-2
Date: July 25, 2017
Description: This program will be a hands-on workshop to provide teachers with ideas for creating book sets of recommended books to integrate children's literature into the classroom. The focus will be on teaching reading, not just in the reading/language arts block, but throughout the content areas as well. In addition, mentor texts for writing and research will be shared.

Program: **Children's Literature: We All Teach Reading**
Contact: Dr. Kay Wijekumar, Center for Urban School Partnerships (CUSP)

Target teacher audience: Elementary and Middle School Teachers, grades 3-5
Date: July 26, 2017
Description: This program will be a hands-on workshop for reading/language arts teachers. The focus will be teaching reading and writing using children's books. Recommended books in all genres will be shared, and lessons will be created to use these texts in the classroom. Mentor texts appropriate for use in teaching writing will be selected, and lessons will be created using these books.

Here are the planned activities from my research team and CUSP:
1. Caldwell ISD - Literacy training for elementary and middle grade teachers
2. Somerville ISD - Literacy training and student Summer workshops
3. Huntsville ISD - Literacy in Science and Social Studies for middle grade teachers
4. New Mexico - 10 schools - training for teachers of content area reading comprehension
5. Pennsylvania - 10 schools training for teachers of content area reading comprehension
6. Brownsville and Rio Grande Valley Schools - 20 schools training for content area reading comprehension
7. Georgia Schools - 5 - WRiting Project

16th Annual Environmental Health Sciences Summer Institute (SI) for K-12 Educators
July 24-27, Kerrville, TX. (http://www.k12summerinstitute.org/)

The K-12 Summer Institute offers an extensive variety of professional development workshops focused on the connections between health and the environment. Participants will learn how to help students use inquiry based learning to develop an enhanced understanding of science concepts, apply the scientific method and better understand how the environment affects our health.

Internship for Educators

Texas A&M University Galveston Campus

http://www.tamug.edu/seacamp/Internships/InternshipEducators.html

Texas A&M University Galveston Campus sponsors free summer internships for school teachers, counselors, administrators, and other individuals involved in education. Internships are operated in conjunction with Sea Camp and Talented & Gifted (TAG). Each internship is a week-long adventure and learning experience. No teaching is involved. Interns are asked to learn along with the campers while acting as chaperones. Upon completion of the internship, educators receive a Certificate of Continuing Professional Education that acknowledges SBEC credit hours of science content earned. The number of hours varies between 7 and 32, depending on the program. Texas Environmental Education Advisory Committee (TEEAC) recognition is also available.

AGGIE STEM
TEXAS A&M UNIVERSITY

STEM Teacher Professional Development

Observe experts facilitating STEM PBL with secondary students and experience a week focused on one of the following: UAVs (drones), micro controllers, or computer science/coding in Aggieland!!

Aggie STEM's one-week camps for teachers are a great value at $1,350. Participants will receive materials and classroom activities to take back to the classroom with teaching strategies to engage students and increase their interest in STEM content. The main focus is secondary level, but elementary teachers are welcome. Pre-service teachers are also eligible to attend.

June 5-9 Micro Controllers

Participants will engage in a two-fold experience: putting together a circuit board and programming the circuit board to flash lights, create movement, etc. Educators will be ready to implement physical computing, programming, and electronics into their classrooms.

June 12-15 Dual Credit Mathematics

College Bound

The content will be common to several dual credit mathematics courses commonly offered. Topics include linear, quadratic, exponential, radical, logarithmic, and rational functions and their transformations, real-life applications for business and scientific fields, and modeling authentic data.

June 19-23 UAV (drone) Focus
July 17-20 UAV (drone) Focus

The enjoyment of flying a UAV can be combined with some great learning about lift and thrust as participants design a load basket that the UAV must be able to carry as it flies an obstacle course. Quadratic functions can also be addressed through activities flying UAV's. These are examples of the type of experience participants can expect in this professional development.

June 26-30 Computer Science/Coding Focus

To learn more:
http://aggiestem.tamu.edu/summerprograms/

Questions?
Contact Aggie STEM
979-862-4665

Aggie STEM Directors:
Luciana Barroso
Mary Margaret Capraro
Robert M. Capraro