RET Participants and Poster Presentation Titles

2010

Stacy Fuentes, Southside High School
Investigating the Formation of DNA Adducts of Cr(III) Diimine Transition Metal Complexes Using Agarose Gel Electrophoresis (Chemistry).

Ray Tedder, Dorman High School
Determining the Viability of Propylene Carbonate as a Safer Solvent for the Molecular Mass Determination of Polyethylene Terephthalate (Chemistry).

Bryan Nyvall, Eastside High School
Understanding the Interactions and Effects of PAR-1 Activation, as well as, the Effects of Neuripsin on Developing Chick Embryo Spinal Cord Nerve Cells (Biology).

2011

Erin EuDaly, Travelers Rest High School
Actual Examples of the Scientific Method (Psychology).

Grace McKnight, Greenville Middle Academy
The Impact of Point-Source Pollution on the Concentration and Distribution of Escherichia coli in a Stream Draining an Urban Watershed (Biology).

Marsha Winston, Woodmont High School
Production of Polyethylene Terephthalate using a Nonmetallic Catalyst (Chemistry).

Angela Keel, Woodmont Middle Academy
Integrating GIS and Spatial Thinking into K-12 Curriculum (Earth and Environmental Science).

For more information, including applications and listings or research projects and mentors, please contact:
The Office of Integrative Research
John Kaup, PhD
Coordinator of Science Education
864.294.3773
john.kaup@furman.edu

www2.furman.edu/academics/integrativeresearch/ scienceeducation
Furman University
Research for STEM Teachers

This program provides middle and high school STEM teachers an intensive 6-week research experience under the direction of a Furman math or science faculty mentor. Teachers will be directed in carrying out unique, individualized research projects resulting in scientific presentation at the RET poster session in July (last week of program). During this experience, teachers will serve as colleagues to Furman faculty and undergraduates.

This program represents a full time commitment (~40 hours per week) and provides a $3,000 stipend for participants.

Program Objectives:

- Deepen content knowledge within specific discipline
- Increase understanding of research process (process skills).
- Demonstrate understanding of the specific research focus (specific to the project) through poster completion and presentation.
- Connect summer experience with academic year instruction through material support (supplies budget) and biannual feedback. $750 in supplies in 2010 and 2011.
- Deliver presentation (research or curricular focus) beyond summer poster session.

Research Topics

A complete listing of research topics and associated Furman project mentors will be available in early February.

This list may include research opportunities in the following disciplines:

- Biology
- Health Sciences
- Chemistry
- Physics
- Neuroscience
- Psychology
- Computer Science
- Mathematics
- Earth and Environmental Science

Research Experience for STEM Teachers

Teachers selected for the research experience may register for 4-6 credit hours of recertification / professional development credit. Course serves to connect summer research experience with tangible teaching artifacts to bring back into the classroom.

ED PD 662 (Optional)
Research Experience for STEM Teachers