

**Dr. Ronald E. McNair Educational Science Literacy Foundation
Summer Science Camp for Teachers**

Energy, The Environment, and Me

Texas Southern University

July 21 – August 1, 2008



PURPOSE: The DREME Summer Science Camp was established to continue Dr. Ronald McNair's vision of exciting and motivating teachers and students toward study involving science, math, and technology. It was Dr. McNair's hope that students, particularly the underserved, would become well-versed and comfortable in the disciplines and seek out career paths in science, math, and technology. The goal of the teacher workshop is to enhance teaching in these subject areas by providing teachers with laboratory and field experiences, exciting hands-on activities, resources, time to collaborate with one another, and time to practice and share with students.

WORKSHOP DESCRIPTION: The DREME Summer Science Camp for Teachers is a two-week, professional

development workshop for teachers of students in grades 5 – 8. The DREME Camp will explore alternative forms of energy this year. This will include Solar, Wind, Hydro, and Geothermal. Alternative Energy is a critical topic today and it directly impacts our future - There are simply not enough fossil fuels to sustain its usage as the foundation of our energy production forever. Future scientists and engineers will be challenged to find cleaner and more efficient energy sources. Energy, as it relates to the aerospace industry, will also be investigated. With this in mind, the DREME Camp for teachers will address a broad range of investigations, activities, and experiments in these areas relating to science, math, and technology. In week one, presentations will be given by NASA scientists and engineers, educators, and specialists. Teachers will collaborate in groups to design an integrated unit (covering multiple subject areas) to use with students and share with co-workers. In week two, teachers and students will participate together, with teacher teams working with small groups of students, using some of the experiences and activities gained from week one. Special tours of NASA, Space Center Houston, and the Museum of Natural Science are included in the camp. The workshop will be held on the campus of Texas Southern University.

ELIGIBILITY REQUIREMENTS:

- Currently employed as a 4 – 8 grade classroom teacher or a science, technology, engineering, or math specialist / administrator
- Minimum one year teaching experience prior to workshop
- Willingness to develop an integrated unit for classroom use and share activities with students in week 2.
- Willingness to share information with other educators
- Available for the entire two weeks

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