

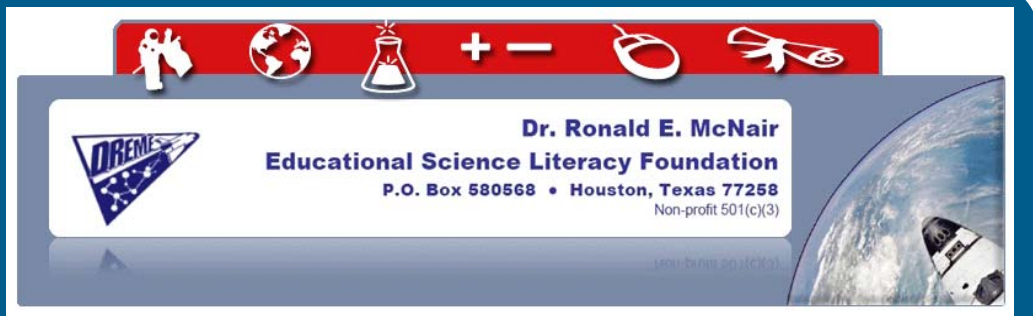
Make sure you check out:

- A letter from the Chairman of the Board of Directors, Mrs. Cheryl McNair
- Scholarship winners announced
- Quotes from parents and students
- Featured photos from the Summer Science Youth Camp



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Greetings from the Board of Directors of the Dr. Ronald E. McNair Educational (D.R.E.M.E.) Science Literacy

We invite you to read the following information about the exciting things that our organization has been doing. Perhaps you or a child you share the experiment with will enjoy duplicating it. We also wish to express our sincere appreciation to all who have assisted throughout the year toward our success. Please read and enjoy!

Summer Science Youth Camp & Teacher Workshops 2009



The Dr. Ronald E. McNair Educational (D.R.E.M.E.) Summer Science Youth Camp was truly a dream come true for many students in the Houston and surrounding areas!

Successful and rewarding describes the D.R.E.M.E. Science Literacy Foundation Summer Science Teacher Workshop and Youth Camp. This year the Teacher Workshop and camp was held July 20- July 31, 2009, at the Texas Southern University Science Building located in Houston, Texas.

The goal of the workshop and camp was to improve and strengthen the teaching and learning of science, math and technology as well as to promote and encourage these academics as career choices for the youth of tomorrow.

The workshop and camp incorporated a one week teacher professional development workshop, including field experiences. This was followed by a youth science camp in which the youth campers participated in a week of riveting, and exciting hands-on activities, designed by the camp teachers. Special highlights of the camp included constructing and launching rockets and

building solar cars for competitive races. Other student experiences involved presentations by speakers who included hands-on activities,



Youth Camp Participant posing with Mrs. Cheryl McNair

ties, such as NASA Educators, and LyondellBasell Chemical Company Educators. The campers also had field trip experiences to the Challenger Center and Planetarium, as well as the Energy Hall at the Museum of Natural Science. They also went to Space Center Houston and toured the Astronaut Training Facility, Rocket Park, as well as the many activities and presentations offered in Space Center Houston.

A Community Science Expose was the culminating camp experience. The D.R.E.M.E. Community Science expose was a Community Outreach designed to involve and inform the community about science all around us, contemporary science aspects and activities, as well as careers available in science, medicine, aerospace, robotics, and technology. Many corporate sponsors were there and presented various hands-on activities. Some of the corporate exhibitors represented were Lockheed Martin, NASA, United Space Alliance, Space Center Houston, Texas Southern University Biology and Airway Science Departments, LyondellBasell Chemical Company and CenterPoint Energy, and others. The Expose appealed to and attracted both children and adults, with an overwhelming attendance of approximately 200 people. Next year the Dr. Ronald E. McNair Science Literacy Foundation- D.R.E.M.E. Summer Science Camp committee promises that the event will be even bigger and offer more.

By: *JoAnna Harrison*, Director-D.R.E.M.E. Summer Science Youth Camp & Teacher Workshop

Cheryl McNair, Chairman



Earthings Go Green

College Scholarships and Pre-College Stipends

The Dr. Ronald E. McNair Educational (D.R.E.M.E.) Science Literacy Foundation proudly supports its educational programs by awarding academic scholarships to senior high school students in the Greater Houston area who are seeking a degree in the areas of science, math, engineering or technology. In addition to the senior scholarship, a stipend is also awarded to an 11th grade high school student to support their college search, preparatory examinations and other applications fees.



The 2009 recipients of this year's awards were senior student, *Trivian Canada of Booker T. Washington High School* and junior student, *Alejandra Europa of Nimitz High School*. These two students submitted exemplary applications that included an academic transcript, resume and essay.



*“The camp was great. I had a wonderful time. All of the field trips were great.” -
Angela Glover
Houston
Independent School
District-East, R.P.*

D.R.E.M.E. Participates in the Motorola “Race to Recycle” Program

The D.R.E.M.E. Science Literacy Foundation is a 2009 Motorola Foundation Generation Innovation Grant Recipient. As such, we received and accepted an invitation to participate in the Motorola “Race to Recycle” program. For this program, the D.R.E.M.E. Foundation is collecting used cell phones for restoration and redistribution in developing countries. Moreover, D.R.E.M.E. will receive a small contribution for every phone that we submit to the Motorola Corporation.



Our participation in the “Race to Recycle” program will allow us to continue developing our programs while assisting in the preservation of our planet’s resources and furthering our green initiatives. Additionally, we will aid in providing much needed support to developing countries in the area of technology. We are excited to participate in this worthy cause.

By: Joy C. McNair



MANY THANKS TO OUR SUPPORTERS



On behalf of the board of directors of the Dr. Ronald E. McNair Educational (D.R.E.M.E.) Science Literacy Foundation I extend many thanks to all who contributed their time, talent, and or finances to making the 2009 D.R.E.M.E. Summer Science Youth Camp, Teacher Workshop, and Community Science Expose a wonderful success. The Foundation also was able to offer a college scholarship and High School Junior Pre-College Stipend to deserving science students. As a D.R.E.M.E. Foundation supporter, you touched many lives as we serviced several teachers and youths, and approximately 200 Community Expose participants!

Our camp theme this year was "Earthlings Go Green". With this theme, campers enjoyed performing various experiments and activities presented by NASA educators, LyondellBasell Chemical educators, a City of Houston recycle specialist, and Houston Independent School science and math specialists, as well as other professionals. The D.R.E.M.E. Foundation gives much gratitude to all of our supporters for helping this to happen, and a special thanks to our major sponsors listed below.

The Community Science Expose presented by the D.R.E.M.E. Science Literacy Foundation owes its great success to the many sponsors that so graciously participated. We extend whole hearted appreciation to the sponsoring participants: **Lockheed Martin Corporation, Motorola Foundation, Boeing Charitable Trust, United Space Alliance, Space Center Houston, CenterPoint Energy, LyondellBasell Chemical, Texas Southern University Biology and Airway Science Departments, Omega Psi Phi Fraternity- Rho Beta Beta and Tau Epsilon Chapters, and the MIT Club of SouthTexas.**

The D.R.E.M.E. Science Literacy Foundation is grateful for its success this year and is looking forward to offering more activities to more students next year!

Submitted by Cheryl M. McNair, Chairman

Special Appreciation to corporate donors

Motorola Foundation	Wells Fargo Foundation
Lockheed Martin Corporation	Frenchy's
Boeing Charitable Trust	G.B. Tech, Inc
Krist Foundation	United Space Alliance

In-Kind

NASA-JSC & Texas Southern University- Biology Department



D.R.E.M.E. Summer Science Institute

The DREME Summer Science Camp for students 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 path in science, technology, engi-

neering, and math (STEM). The goal of the student camp is to provide a motivating and empowering educational program, which will enrich learning in these subject areas through exciting and fun hands-on experiments, activities, and field experiences. The importance of science, math, and technology will be

brought to life. In addition, students will be exposed to motivating mentors in the field and further develop skills in problem solving, teamwork, and communication.



Posters featured during Summer Youth Camp Science Expose



The Dr. Ronald E. McNair Educational Science Literacy Foundation Board of Directors is pleased to welcome and introduce our new board directors:

Arch Gaddis who comes to us with 33 years of accounting and tax specialist experience with Bayer Corporation, **Janet Mathews** who is the present Vice President and Chief Financial Officer of Jefferson and Associates; and **Bobbie Renfro Verrett** who brings 30 years of computer systems engineer experience and retired as a Senior Engineering Supervisor for Lockheed Martin Corporation.

We are sad to announce the death of board member, Grover Hankins, Esq. We will greatly miss him.

We welcome our new board directors and look forward to working with them

Board of Directors:

Cheryl M. McNair, (*Chairman*)
Charles A. Dean, (*Treasurer*)
Arch Gaddis
Edward J. Hayes, PhD.
Janet Mathews
Joy C. McNair, Esq. (*Secretary*)
Reginald E. McNair
Eric Redman
Bobbie Renfro Verrett

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Cheryl Butler, Esq.
Isabell Cottrell
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Pamela Denkins, PhD.
Shauna Holman-Harries
Paula M. Harris
Limas Jefferson
Ronald Krist, Esq.
Barbara Morgan

2010 D.R.E.M.E. Events and Programs

College Scholarships and High School Junior Stipends:

- Applications will be available by January 15, 2010
- Applications due deadline will be April 3, 2010

Summer Science Teacher Institute, Exclusive Week: (July 5-9, 2010)

- Applications will be available by January 15, 2010
- Applications will be due by April 3, 2010

Summer Science Youth Camp: (July 12-23, 2010)

- Applications will be available by January 15, 2010
- Applications will be due by April 3, 2010
- Closing lunch banquet and program will be Thurs., July 22, 2010

Community Science Expo: (July 22, 2010)

- Open to the public
- Activities, hands-on experiments, and exhibits from a variety of companies/sponsors
- Time will be 2 PM-6 PM
- Location will be Texas Southern University

*** Please visit www.dremefoundation.org for updates/changes of the above information***



The Dr. Ronald E. McNair Educational Science Literacy Foundation

P.O. Box 580568

Donations

www.dremefoundation.org

Name: _____

Address: _____

City: _____ Zip: _____

Tel: _____



Much appreciation to our newsletter contributors: Joy McNair, Jo Anna Harrison, Linda Halliman, Bobbie Renfro Verrett, and Cheryl McNair. *Extra special thanks to our editors for an outstanding job! Thank you Dr. Stephanie Evans, Dr. Danyell Wilson, Monica Soloman, Tiffany Silva, and Keidra Hooper



Back on Earth Hidden Pictures

Find these items that use

NASA technology:

polarized sun glasses

bicycle helmet

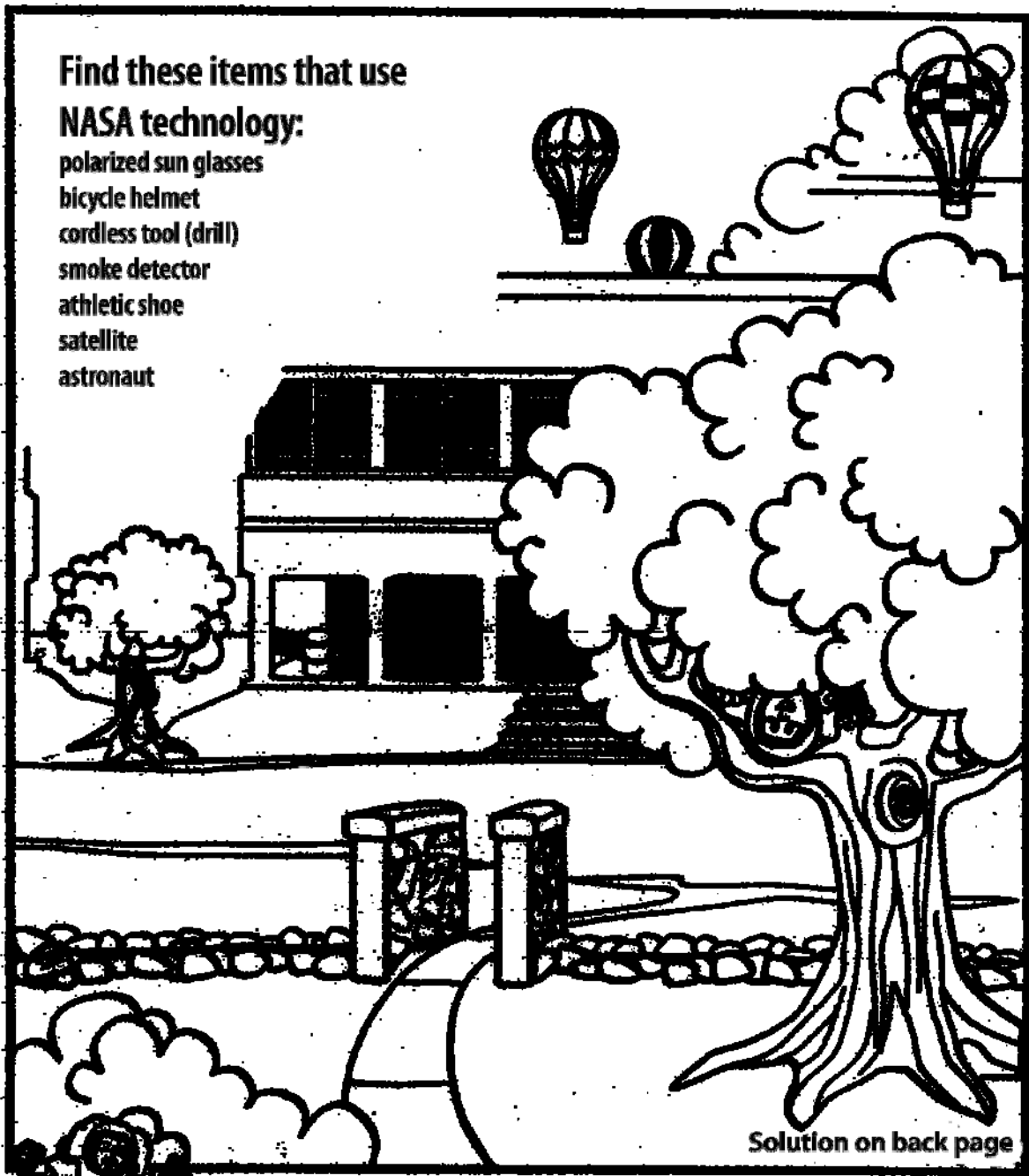
cordless tool (drill)

smoke detector

athletic shoe

satellite

astronaut



Solution on back page



People with many different backgrounds work in the space program. What kinds of subjects do you have to study to be an engineer who builds space shuttles and space modules like the Space Station?

Find the answer to this question and more at <http://spaceflight.nasa.gov>



Discovering Science

Have you ever heard the phrase "oil and water don't mix"? First we will test that expression, then look at interesting combinations of several other liquids.

Oil and Water

You will need the following materials:

- $\frac{1}{4}$ cup (60 ml) water
- $\frac{1}{4}$ cup (60 ml) vegetable oil
- a small glass
- food coloring



First pour the water into the glass. Add a couple of drops of food coloring and mix. Next add the oil. What do you see? Which layer is on top?

Tightly cover the glass with plastic wrap or your hand (if it's big enough). While holding the glass over a sink (in case you spill), shake the glass so that the two liquids are thoroughly mixed. Set the glass down and watch what happens. Do oil and water mix?

The word "miscibility" describes how well two substances mix. Oil and water are said to be "immiscible," because they do not mix. The oil layer is on top of the water because of the difference in density of the two liquids. The density of a substance is the ratio of its mass (weight) to its volume. The oil is less dense than the water and so is on top.

Found in:

Submitted by: Linda Holliman

Hidden Pictures Solution:

The polarized sun glasses are in the second-floor windows of the building.

The bicycle helmet is in the rocks lining the stream, on the left of the picture.

The cordless tool is in the stones on the handrail of the path over the stream.

The smoke detector is in the trunk of the large tree.

The athletic shoe is in the trunk of the small tree.

The satellite is on the first floor of the building.

The astronaut is waving from the leaves of the large tree.

