



**ExxonMobil Bernard Harris**  
Summer Science Camp

# EXX-Treme Engineering

**June 13 – 25, 2010**  
**University of South Alabama**

Do you have a child interested in Science, Math, Engineering and Technology? Who wants to build a barge, build a bridge, and see how they stand up to EXX-Treme waves?

At the University of South Alabama-ExxonMobil Bernard Harris Summer Science Camp, Your middle school child can do this and more.

Each day, campers will attend highly-interactive classes in the natural sciences, engineering, mathematics and technology, taught by a teaching team of secondary classroom teachers and USA faculty. Activities include classroom study, experiments, individual, team and group projects, weekly field excursions and guest speakers.

## Who may apply

EXX-Treme Engineering is open to rising 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> graders enrolled in Mobile and Baldwin County Public Schools. It is designed to support historically underserved and underrepresented students with limited opportunities.

## How to apply

- Parent/Guardian and student complete the student application form available electronically at:

<http://www.theharrisfoundation.org/programs/summer-sciencecamp/2010.htm>

or a paper copy is available from:

Marcy Matherne, Center for Continuing Education, University of South Alabama, 2001 Old Bay Front Drive, Mobile, AL 36615 Telephone: 251-431-6411

- Student writes a 250-word essay.
- Parent/Guardian or student gives the request for records to your child school registrar.
- Parent/guardian or student gives a recommendation form to your child's current science teacher and current mathematics teacher.

The above requested documents are to be sent to MARCY MATHERNE, CENTER FOR CONTINUING EDUCATION, UNIVERSITY OF SOUTH ALABAMA, 2001 OLD BAY FRONT DRIVE, MOBILE, ALABAMA 36615.

The Student Application Form, records and recommendations are due by the deadline date, APRIL 23, 2010.

If all requested documents are not received by the deadline date, the application will not be considered. Selections for the summer camp will be made on MAY 10, 2010. You will receive written notification on the status of the application no later than MAY 15, 2010.

If you have questions or need additional information, call MARCY MATHERNE 251-431-6411.

**ONLY COMPLETE APPLICATIONS  
WILL BE CONSIDERED**

## Camp schedule

The Bernard Harris Summer Science Camp, EXX-Treme Engineering, will start on Sunday afternoon June 13, 2010 and conclude on Friday afternoon June 25, 2010.

This camp is a two-week, free, residential program with students returning to their homes for the weekend in the middle of the camp.

Students attending the camp will live on the USA campus during the week in the university's student dormitories and have most meals in the university's student dining facilities. Camp counselors will stay in the dorms and accompany campers to meals, classes, field trips and other activities. Additionally a camp nurse will be on-site throughout the camp.

## Camp attendance

Students must participate in all camp activities. Before applying for the camp, please be sure that your child's schedule is free for the full two weeks. Campers will not be excused for any purpose, unless it is an unforeseen emergency.

## About the program

Working in teams, students will establish their own engineering consulting groups. Camp instruction and activities will revolve around a central theme that exposes the children to real world use of **Science, Technology, Engineering and Math (STEM)**. The teaching/learning model is very interactive to allow students to learn by doing. In addition to **STEM** topics, written and verbal communication skills will be addressed.

Our goal is for the student to have fun while they gain knowledge and skill in **STEM** subjects.

Students will learn about:

- Hurricane models and predictions
- Storm surges and their effect on structures
- Evacuation routes and evacuation plans
- Hazmat and rescue training
- Effects of contaminants on marine life
- What makes objects float or sink
- Modeling and building a clay barge
- Designing and building a bridge
- Journaling scientific data
- Journaling their camp experiences
- Team work
- Communicating with others
- Making a presentation

To give students an opportunity to see real-life application of classroom learning, students will be taken on at least one field trip per week. Transportation will be by USA bus or other licensed public carrier.

This two-week, residential camp is a free-of-charge experience open to underserved, rising 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> graders enrolled in Mobile and Baldwin County Public Schools.

## About Bernard Harris

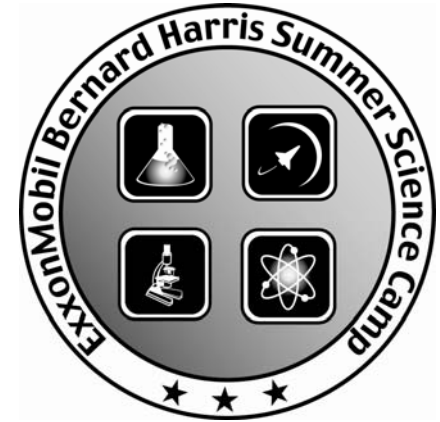
Defining himself as a “dreamer who believes nothing is impossible,” Bernard A. Harris, Jr., M.D. is an accomplished NASA astronaut, physician and businessman. He currently serves as president of The Harris Foundation, Inc., a non-profit organization he founded in 1998 to develop math/science education and crime prevention programs for America’s youth. Because he credits his personal achievements to self-empowerment and self-determination, he uses this foundation to inspire young people that they can do anything, if they only set their mind to it.

Harris himself has accomplished many feats throughout his life. In 1990, he was selected as a NASA astronaut and flew his first mission three years later. Harris accomplished his childhood dream by completing a walk in space, becoming the “First African American to walk in Space”.

A native Texan born in 1956, Harris earned a bachelor’s degree in biology from the University of Houston and later obtained a doctorate of medicine from Texas Tech University School of Medicine. A trained aerospace flight surgeon, he completed his residency at the Mayo Clinic and fellowship at the NASA Ames Research Center. Other degrees include a Master of Medical Science from the University of Texas Medical Branch at Galveston, a Master of Business Administration from the University Of Houston Clear Lake and two Honorary Doctorate of Science degrees from Morehouse School of Medicine and Stony Brook University (SUNY).

Throughout his life, Harris has received numerous awards and recognition, including election as Fellow of the American College of Physicians, NASA Space Flight Medal, NASA Award of Merit, a fellow of the American College of Physicians, and was the recipient of the 2000 Horatio Alger Award.

Married with one child, Harris resides in Texas with his family.



# EXX-Treme Engineering

**Summer Science Camp  
June 13 – 25, 2010**

**Sponsored by:  
ExxonMobil Corporation  
&  
The Harris Foundation**

**Hosted by:  
University of South Alabama**



**College of Engineering  
&  
Center for Continuing Education**



## STUDENT APPLICATION FORM 2010



*University of South Alabama -- June 13-25 — Robotics, Engineering & Math*

### ***Camp Information:***

The ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC) is organized to provide activities, experiments, projects, and field experiences for students entering 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grade in the fall of 2010. The camp promotes science, technology, engineering, mathematics education and supports historically underserved and underrepresented students with limited opportunities. Students attend the camp free of charge. Students currently in grade 5, 6, or 7 who have an interest in science and mathematics and at least a B average in science and mathematics are eligible.

The EMBHSSC is a two-week, academic, residential camp that emphasizes increasing students' mathematics and science skills while introducing them to college life and stimulating their interest in science and engineering as a potential career path. Each day, campers will attend classes that include problem solving, research and communication skills incorporated with biology, chemistry, physics, environmental sciences, earth sciences, engineering and design concepts, and field excursions. Certified classroom teachers and university faculty will teach the classes.

The camp will be held on the UNIVERSITY OF SOUTH ALABAMA MAIN CAMPUS, 308 UNIVERSITY BOULEVARD, MOBILE, ALABAMA. Students will be housed in a dorm on the university's campus.

Camp participants will be selected from the following : MOBILE COUNTY AND BALDWIN COUNTY SCHOOLS.

### ***Application Process:***

- Parent/Guardian and student complete the attached student application form.
- Student writes a 250-word essay.
- Parent/Guardian or student gives the request for records to your child school registrar.
- Parent/guardian or student gives a recommendation form to your child's current science teacher and current mathematics teacher.

The above requested documents are to be sent to MARCY MATHERNE, CENTER FOR CONTINUING EDUCATION, UNIVERSITY OF SOUTH ALABAMA, 2001 OLD BAY FRON DRIVE, MOBILE, ALABAMA 36615. The Student Application Form, records and recommendations are due by the deadline date, APRIL 23, 2010. If all requested documents are not received by the deadline date, the application will not be considered. Selections for the summer camp will be made on MAY 10, 2010. You will receive written notification on the status of the application no later than MAY 15, 2010.

If you have questions or need additional information, call MARCY MATHERNE 251-431-6411.

***ONLY COMPLETED APPLICATIONS WILL BE CONSIDERED***

***Keep this page for your reference***



**STUDENT APPLICATION FORM 2010**  
**University of South Alabama**



**APPLICATION DEADLINE IS APRIL 23, 2010**

*Please print in blue or black ink or type*

Name of Student: \_\_\_\_\_

Home Address: \_\_\_\_\_

\_\_\_\_\_

City	State	Zip Code
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Ethnicity: \_\_\_\_\_ Date of Birth (month/date/year): \_\_\_\_\_

Gender (check one): Female \_\_\_ Male: \_\_\_\_\_

Adult T-Shirt Size: \_\_\_\_\_

Name of School student is currently attending: \_\_\_\_\_

Current Grade level \_\_\_\_\_ School District/Parish: \_\_\_\_\_

Name of School student will be attending during the 2010-2011 academic year:

\_\_\_\_\_

School District/Parish: \_\_\_\_\_

Courses Taken during the 2009-2010 academic year:

Mathematics: \_\_\_\_\_ Science: \_\_\_\_\_

Courses Enrolled or plan to enroll in for the 2010-2011 academic year:

Mathematics: \_\_\_\_\_ Science: \_\_\_\_\_

**Name of Student:** \_\_\_\_\_

Please list school organizations, any science and/or mathematics activities (Science Fair, math club, after school programs, summer programs, etc.) you have participated in 2008, 2009 and/or 2010. Include awards received and offices held. You may attach a separate sheet, if needed.

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Please list any community activities and/or community groups that you have been a part of.

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Please list any other activity or achievement that you would like to share with the selection committee.

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A **student-written essay** must be included with this application. The student essay is to be typed or neatly hand written. If typed, use Arial, Helvetica, or Times New Roman and a font size of 12 points. The essay should not exceed 250 words. In your essay tell the selection committee why you are interested in attending the 2010 ExxonMobil Bernard Harris Summer Science Camp at the University of South Alabama. Include in your essay what you hope to gain from this experience and how you think it will help you in the future. ***Be sure to write your name, current grade level, school and school district at the top of your essay.***

\_\_\_\_\_  
**Signature of Student**

\_\_\_\_\_  
**Date**

Name of Student: \_\_\_\_\_

**Parent/Guardian Information**

**Instructions: Please complete the following information for at least one custodial parent or guardian, both, if available.**

Name of Female Parent or Guardian: \_\_\_\_\_

Daytime Phone No.: \_\_\_\_\_ Home Phone No.: \_\_\_\_\_

Cell Phone No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

\_\_\_\_\_  
Signature of Female Parent or Guardian

\_\_\_\_\_  
Date

Name of Male Parent or Guardian: \_\_\_\_\_

Daytime Phone No.: \_\_\_\_\_ Home Phone No.: \_\_\_\_\_

Cell Phone No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

\_\_\_\_\_  
Signature of Male Parent or Guardian

\_\_\_\_\_  
Date

**EXXONMOBIL**  
**BERNARD HARRIS SUMMER SCIENCE CAMP 2010 at**  
***University of South Alabama***

**REQUEST FOR RECORDS** - Your child should give this form to the registrar at his/her school. A parent or guardian must sign this request so that the registrar can release the records.

Dear Registrar:

Please forward a copy of official records for this student (grades and standardized test scores) and this form to:

**Marcy Matherne -- Executive Director**  
**University of South Alabama Bernard Harris Summer Science Camp**  
**2001 Old Bay Front Drive, 2<sup>nd</sup> Floor -- Mobile, AL 36615**

The records should include a copy of the most recent grades/report card and standardized test scores. This form should accompany the records.

\_\_\_\_\_  
Name of Student (please print)

\_\_\_\_\_  
Student ID Number

\_\_\_\_\_  
School

\_\_\_\_\_  
Grade

\_\_\_\_\_  
Date of Birth

\_\_\_\_\_  
Homeroom Teacher

In addition to a copy of the official records, please check one of the following, if applicable.

Free Lunch

Reduced Lunch

\_\_\_\_\_  
Signature of Student

**I hereby grant permission to the release of the information that this form is requested on my child.**

\_\_\_\_\_  
Signature of Parent or Guardian

\_\_\_\_\_  
Date

**Recommendation from Current SCIENCE Teacher  
For a Student applying for  
The ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC) 2010 at  
UNIVERSITY OF SOUTH ALABAMA**

Name of Teacher \_\_\_\_\_

Directions to teacher:

The student who has given you this form is applying to attend the EMBHSSC this summer. You have taught this student, so you can tell if she/he is a good candidate for this two-week residential program. **Please complete the chart below and write a letter of recommendation for this student. When you finish, put this form and letter of recommendation into an envelope, seal it, and write your name across the sealed flap, so that your comments will be private.** Please return the sealed envelope to the student **as soon as possible** or mail to Marcy Matherne -- Executive Director, University of South Alabama Bernard Harris Summer Science Camp, 2001 Old Bay Front Drive, 2<sup>nd</sup> Floor -- Mobile, AL 36615 to be received by the deadline date of April 23, 2010.

Name of student \_\_\_\_\_

Course taken with this teacher: Subject \_\_\_\_\_ Year 2009-2010

Please put an X in the appropriate column for each of the following statements:

	<b>Very much</b>	<b>Often</b>	<b>Sometimes</b>	<b>Never</b>
This student was eager to learn.				
This student cared about other students.				
This student was late to class.				
This student skipped classes.				
This student turned in homework and projects on time.				
This student participated in class and group activities.				
This student participated in lab activities.				
This student participated in co-curricular activities (science fair, etc.).				
This student volunteered to help other students.				
This student was an asset to the class.				

**Circle** the best answer to the following question:

11. Would you like to teach this student in another class?

**Yes, definitely**

**Maybe**

**Definitely not**

**On the back of this sheet please write additional comments about the student. Your comments will be especially useful in the selection process. Or if you prefer, you can include all of your comments in the letter of recommendation. Thank you.**

**Recommendation from Current MATHEMATICS Teacher  
For a Student applying for  
The ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC) 2010 at  
UNIVERSITY OF SOUTH ALABAMA**

Name of Teacher \_\_\_\_\_

Directions to teacher:

The student who has given you this form is applying to attend the EMBHSSC this summer. You have taught this student, so you can tell if she/he is a good candidate for this two-week residential program. **Please complete the chart below and write a letter of recommendation for this student. When you finish, put this form and letter of recommendation into an envelope, seal it, and write your name across the sealed flap, so that your comments will be private.** Please return the sealed envelope to the student **as soon as possible** or mail to Marcy Matherne -- Executive Director, University of South Alabama Bernard Harris Summer Science Camp, 2001 Old Bay Front Drive, 2<sup>nd</sup> Floor -- Mobile, AL 36615 to be received by the deadline date of April 23, 2010.

Name of student \_\_\_\_\_

Course taken with this teacher: Subject \_\_\_\_\_ Year 2009-2010

Please put an X in the appropriate column for each of the following statements:

	Very much	Often	Sometimes	Never
This student was eager to learn.				
This student cared about other students.				
This student was late to class.				
This student skipped classes.				
This student turned in homework and projects on time.				
This student participated in class and group activities.				
This student participated in hands-on activities.				
This student participated in co-curricular activities (math fair, etc.).				
This student volunteered to help other students.				
This student was an asset to the class.				

**Circle** the best answer to the following question:

11. Would you like to teach this student in another class?

**Yes, definitely**

**Maybe**

**Definitely not**

**On the back of this sheet please write additional comments about the student. Your comments will be especially useful in the selection process. Or if you prefer, you can include all of your comments in the letter of recommendation. Thank you.**