Inside this Issue

Upcoming Events and Programs

Experiment of the Issue

Since last issue...

Schedule of Events

- Sept. 9 – Science Investigations
- Sept. 9 – Parents Night Out
- Sept. 20 – GUTS
- Sept. 30 – Parents Night Out
- Oct. 8 – War Eagle BEST
- Oct. 15 – Tennessee Valley BEST
- Oct. 21 – Parents Night Out
- Oct. 21 – Science Investigations
- Oct. 27 – GUTS

Upcoming Events & Programs:

**GUTS (Getting Under the Surface)**

GUTS is back and better than ever this fall with many **ALL NEW** Courses!

GUTS is a monthly evening program aimed at first-sixth grade students and their parent or grandparent. Each evening begins with dessert and is followed by a 1½ hour science course. Each GUTS course is themed around an engaging science concept or topic. Participants engage in activities and/or science experiments related to the topic in order to develop deeper meaning and understanding. Parents attend the sessions with their child and serve as a guide. A parental guide combined with a hands-on approach to learning means that many GUTS courses teach concepts beyond what is taught in a regular classroom environment.

**Fall Course Line-up**

(S= September 20, O= October 27, N= November 17)

<table>
<thead>
<tr>
<th>1st-3rd Grade</th>
<th>4th-6th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiplying Microbes– NEW! (S)</td>
<td>LEGO-Mania (S)</td>
</tr>
<tr>
<td>The GUTS of Halloween-NEW! (O)</td>
<td>Batty for Bats (O)</td>
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<tr>
<td>The GUTS of Blood and Diseases– NEW! (O)</td>
<td>Edible Science (O)</td>
</tr>
<tr>
<td>Squishy Circuits– NEW! (N)</td>
<td>Rollercoaster Rally-NEW! (S)</td>
</tr>
<tr>
<td>You Are What You Eat– NEW! (N)</td>
<td>Toys in Space-NEW! (N)</td>
</tr>
</tbody>
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*New classes indicate that the course is either new to the age group indicated OR that it has not been offered in over three years.

You can register NOW for ALL of these courses!

Also, new this year is the option to receive reduced rates through the purchase of a 2011-2012 GUTS Membership.

**Child Membership**

<table>
<thead>
<tr>
<th>Child Membership</th>
<th>Family Membership</th>
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<tbody>
<tr>
<td>$60.00/year</td>
<td>$108.00/year</td>
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</table>

- Four GUTS courses throughout the year for the use of one child.
- Eight GUTS courses throughout the year for use by multiple children in the same immediate family.
- 1 GUTS T-shirt and 1 name tag
- 2 GUTS T-shirts and 2 name tags
- Free attendance to the May 2012 Backyard Bash for one child
- Free attendance to the May 2012 Backyard Bash for two children
- 10% off any additional GUTS sessions
- 10% off any additional GUTS sessions

To register for GUTS or for information about any of our programs visit our website at:

[www.auburn.edu/cosam/outreach](http://www.auburn.edu/cosam/outreach)
Engaging More Community Connections

Upcoming Events & Programs, cont’d:

Science Investigations

Science Investigations provides a meaningful science lab experience for home schooled students in grades 6-8. The program, held at Auburn University’s main campus, is designed to be a learning continuum throughout the year, with eight lab sessions that are designed to build students’ science laboratory skills. Additionally, students will develop their own ‘science investigation’ experiment and present it at the Greater East Alabama Regional Science and Engineering Fair (GEARSEF) in March 2012 at Auburn University.

Due to an overwhelming response to this year’s Science Investigations program, we will be offering a second Science Investigations class on different days. Both classes will participate in the same lab activities, have the same assignments, and be responsible for creating a science fair project.

The registration deadline for the second class (Group B) is September 9, 2011. To register, visit www.auburn.edu/cosam/outreach and click on Science Investigations on the right hand side of the page.

Parents Night Out

Need a night off?

Parents Night Out is an opportunity for parents to have an evening to themselves and peace of mind knowing their children are in a safe, secure, and FUN environment. Parents Night Out will take place on the AU campus. Children ages 6-12 are eligible to participate in the program. Children will have the opportunity to participate in a variety of science-based activities.

- Construct and program LEGO robots
- Design K-Nex amusement park rides
- Magic School Bus videos and other educational videos
- Puzzles, word games, and educational board games
- Arts and crafts….and much more!

Pre-registration required. Download registration form at www.auburn.edu/cosam/outreach. Fee: $25 for first child, $15 for each additional child in same family. Dinner is provided.

Meet Our Staff

Erin Percival

We are thrilled to announce the newest member of the outreach family in the College of Sciences and Mathematics….Erin Percival.

Erin worked as a graduate student in COSAM’s Outreach Department from 2007-2009. For the past two years she served as a seventh grade life science teacher at Drake Middle School in Auburn. Over the past 5 years, she helped design and deliver curriculum for a number of programs, including LADIES, GUTS, DAMES, and Science Investigations.

September 9th (6-9pm)
September 30th (6-9pm)
October 21st (6-9pm)

For up-to-date program information from the COSAM Outreach Office, sign up for our listserv, AU4kids. To become a member, send an e-mail to cosam_outreach@auburn.edu
Upcoming Events & Programs, cont’d:

War Eagle BEST

BEST (Boosting Engineering, Science, & Technology) is a non-profit, volunteer-based organization whose mission is to inspire students to pursue careers in engineering, science, technology, and math through participation in a sports-like, science- and engineering-based robotics competition. BEST is designed to engage students through teamwork, self-directed learning, apprenticeship, and problem solving. Students participating in BEST are responsible for all the work involved in designing, building, and operating a robot. Team mentors—engineers, technical professionals, and scientists from industrial backgrounds—serve as guides to shepherd the students through the engineering design process. Auburn University is the National Headquarters of BEST Inc. and is home to a local hub competition, War Eagle BEST.

2011 War Eagle BEST Schedule

**Saturday, August 27– Kick-Off Day**
Teams receive kits and game rules and begin working on the design of their machines.

**Sunday, September 25– Mall Day***
Teams meet at Village Mall in Auburn to test their robot designs on a fully-functional, full-sized playing field.

**Saturday, October 8– War Eagle BEST Competition***
Teams meet at the Student Activities Center to compete for the title of War Eagle BEST Champion.

*The general public is welcome and encouraged to attend both Mall Day and the War Eagle BEST Competition.

<table>
<thead>
<tr>
<th>2011 War Eagle BEST Competition Teams</th>
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<tbody>
<tr>
<td>A-2-Z Homeschool</td>
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<tr>
<td>Auburn Junior High School</td>
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<tr>
<td>Benjamin Russell High School</td>
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<tr>
<td>Brewbaker Technology Magnet High School</td>
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<tr>
<td>Bullock County High School</td>
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<tr>
<td>Carver High School</td>
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<tr>
<td>Chambers County Career Tech. Center</td>
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<tr>
<td>Jordan High School</td>
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<tr>
<td>Loveless Academic Magnet Program</td>
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<tr>
<td>Loachapoka High School</td>
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<tr>
<td>Montgomery Catholic Preparatory School</td>
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<tr>
<td>Northside High School</td>
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<tr>
<td>Opelika High School</td>
</tr>
<tr>
<td>Prattville High School</td>
</tr>
<tr>
<td>Smiths Station High School</td>
</tr>
<tr>
<td>Southside Middle School</td>
</tr>
<tr>
<td>Springwood School</td>
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<tr>
<td>Stanhope Elmore High School</td>
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<tr>
<td>St. James School</td>
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<tr>
<td>Wetumpka High School</td>
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For more information about BEST, please visit the BEST Inc. website at www.bestinc.org or the War Eagle BEST website at www.wareaglebest.org.
Since Last Issue….Science Matters

Over 175 1st-6th grade kids filled 330 seats in this year’s Science Matters Academy! The program allows participants to explore the world of science through real experiments, fantastic field trips, technology and art projects, integrated language arts, and hands-on, make-n-take activities. Participants engaged in a variety of topics including forensic science, the biology of the senses, LEGO programming, and slimy science. The program will kick-off again next summer with an all-new, line-up of courses, so that children can delight in new wonders every summer!

Visit [http://www.youtube.com/watch?v=NSqLnqR7qYA](http://www.youtube.com/watch?v=NSqLnqR7qYA) to see highlights from this summer!

Activity of the Issue

Observe how light affects the color development of leaves in the fall.

What you need:

- A tree with leaves that turn red in autumn
- Aluminum foil or heavy paper and masking tape.

What you do:

1. Before the leaves turn colors in the fall, find a maple tree, flowering dogwood, sweet gum, or other tree or shrub that you know will turn bright red or purple.
2. Find several leaves that receive bright sunlight, and cover part of them with foil or heavy paper and tape. You can use foil cut into shapes for fun.
3. After the leaves have changed color, remove the covering and observe the different colors underneath. These are the colors that were in the leaf all summer. The bright reds and purples are only made in the fall, with exposure to light.

Get more great science projects each month with the Science Made Simple newsletter at [www.sciencemadesimple.com](http://www.sciencemadesimple.com)

Visit our YouTube channel!! New videos will be updated following outreach programs.

[www.youtube.com/AUCOSAMOutreach](http://www.youtube.com/AUCOSAMOutreach)

Keep up to date with programs and information by visiting:

[www.auburn.edu/cosam/outreach](http://www.auburn.edu/cosam/outreach)