GOVERNOR’S SCHOOL

For Scientific Models and Data Analysis

Summer 2010

Sunday, May 30th — Friday, July 2nd

Sponsored by:
The Center of Excellence in Mathematics and Science Education
East Tennessee State University
P.O. Box 70301* Johnson City, Tennessee 37614

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Governor’s School 2010

*Front row:* Miranda West, Kayla Lambert, Alyssa Williams, Vanessa Fuentes, Dhara Baijal, Christina Maximos, Sara Atyia, Destiny Fathera, David Qu, Angad Bindra


*Back row:* Jonathon Smith, Stephanie Wade, Dayle Hoefling, Cody Thornburgh, Charlton Hildreth, Malik Yusuf, Clark Templeton, Wesley Sun, Jacob Geiger
Opening Day Events

Students & parents got to meet all the new faces from across Tennessee. Everyone checked into their rooms and got their first college dorm experience.
Experimnetal Design at the Gray Fossil Site

Our students got a glimpse into the past. Dr. Mike Zavada led our students while they worked with paleontology specialists, toured the Natural History Museum, and viewed the amazing discoveries at the digging site.
Spider Study at the Warriors Path State Park

Dr. Thomas TJ Jones took the students to Warriors Path State Park to hunt spiders and conduct important research. The students saw huge spider webs and had a great time on the water.
Dr. TJ Jones, led a nature hike in the woods of Warriors Path. He pointed out different organisms the students encountered like birds, plants, and animals. The scenery was beautiful!
Tour of the ETSU Medical School Labs

The students got to practice on the simulators at the Quillen College of Medicine. They had to resuscitate the simulator back to life, give an IV, check the air passage, while Dr. Rhoton observed.
Paleontology Dig at the Gray Fossil Site

Dr. Zavada led this tour of the rhino pit. Here the students are sifting through some of the additional material surrounded by the new fossils found.

One of the volunteer paleontologists discovered an alligator bone right in front of our eyes! We were curious and excited to be part of the discovery!

Dr. Zavada was pointing out how the land has changed over the years. He explained how the Gray Fossil Site was a sinkhole millions of years ago, which is why the area is so rich with fossils.
Tour of Oak Ridge National Laboratories

A History of Great Science
Oak Ridge National Laboratory is the Department of Energy’s largest science and energy laboratory. Managed since April 2000 by a partnership of the University of Tennessee and Battelle, ORNL was established in 1943 as a part of the secret Manhattan Project to pioneer a method for producing and separating plutonium. During the 1950s and 1960s, ORNL became an international center for the study of nuclear energy and related research in the physical and life sciences. With the creation of DOE in the 1970s, ORNL’s mission broadened to include a variety of energy technologies and strategies. Today the laboratory supports the nation with a peacetime science and technology mission that is just as important as, but very different from, its role during the Manhattan Project.

ORNL is located in Oak Ridge, Tennessee.

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<td>Additional Research</td>
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Oak Ridge National Laboratories, a two-hour trip from ETSU, was very educational and stimulating! We saw a super computer, a graphite nuclear reactor, the Spallation Neutron Source, and the National Center for Computational Sciences. The amount of technology was amazing!

ORNL Visitor Center

The students also learned about materials, energy, climate, and biology. They learned that Oak Ridge is responsible for discovering new research used for education to innovate and impact the world.
On the bus

Group Photos

Waiting on class
Trip to Historic Jonesborough in Jonesborough, TN

Activities around Jonesborough: The students shopped in various stores, and visited the Jonesborough/Washington County History Museum, the International Storytelling Center and the Historic Jonesborough Visitors Center.

Live music on the square: Jonesborough is considered the birthplace of country music and there are free concerts downtown every Friday night from May through December.
Historic Jonesborough Monuments & Buildings
Roan Mountain State Park encompasses 2,006 acres of southern Appalachian forest at the base of 6,285 foot Roan Mountain. Park elevation ranges from 3,000 feet in the valley to around 3,700 feet on surrounding ridges. Rich hardwood forests allow for a great diversity of life and a wide range of outdoor activities. Park guests have opportunities to hike along creeks and ridges, fish for trout, play tennis, swim, tour a century old farmhouse, join rangers and naturalists for educational programs, and enjoy mountain music concerts.

**History of the area fauna and flora**

**Activities Include:** Cabins, Hiking Trails, Fishing, Swimming, Camping,

**Park Features:** Carver’s Gap & Miller’s Homestead

**Carver’s Gap** (Carver's Gap, a low point in the ridgeline of Roan Mountain, is 8 miles past the park on highway 143. As you drive up the road you leave Roan Mountain State Park and enter Cherokee National Forest, which is under the jurisdiction of the U.S. Forest Service (USFS). The parking lot at the gap provides access to the Appalachian Trail (AT). To the north, the AT crosses a series of grassy balds, virtually treeless areas that offer unobstructed views of the Blue Ridge Mountains in Tennessee and North Carolina. This 10 mile stretch of balds is touted by many AT thru hikers as one of the most beautiful sections of the entire trail. To the south, the AT climbs to the high point of the Roan Mountain ridge - 6,285 foot Roan High Knob.)

**Miller’s Homestead** (The Miller House was built in 1909 and is now preserved as a reminder of the way folks used to live in these mountains. A barn, corn crib, hog pen, root cellar, smoke house, chicken house, spring house and, of course, an outhouse surround the old frame house.)
Photos

Governor’s School students, counselors, & Dr. Rhoten

Jennifer Bauer (Guide for Roan Mountain Tour)
Bays Mountain State Park in Kingsport, TN

Wolf habitat
Raptors habitat

Nature Program

White-tail Deer Habitat  Bobcat Habitat  Raccoon Habitat

Ampitheatre  Wilderness Center
Nature Program
Fun Photos
The Carter Family Fold in Hilton’s Virginia

The Carter Family Memorial Music Center, a non-profit organization, serves fans and supporters of old-time country and folk music through the presentation of weekly performances at the Carter Family Fold, in Hiltons, Virginia. It also honors the memory of the first family of country music, the legendary Carter Family (A.P. Carter, Sara Carter, and Maybelle Carter), whose first recordings (in 1927) are credited with giving birth to the commercial country music industry. The Carter Family Memorial Music Center was founded and is directed by Janette Carter, daughter of A.P. and Sara, who with Sara’s cousin Maybelle, comprised the original Carter Family.

The Carter Music Show

Tour of Gift Shops

Hilton’s Virginia
Getting to Know You

Settling into the dorms was tough for everyone. Leaving the comforts of home was a challenge, not to mention getting to know our room and suite mates. But, as the weeks went by and everyone became familiar, living in the dorms became an adventure instead of a nightmare.

Catching up with friends and taking a break from our homework and papers were some of our favorite pastimes. On the weekends we enjoyed field trips and down time.
Faculty and Staff

COUNSELORS:

Mr. Burl David Bishop  
(Lead Governor’s School Counselor)

Miss Randa Dunlap  
(Governor’s School Counselor)

Miss Ashlee Hatfield  
(Governor’s School Counselor)

Miss Caitlyn McCowan  
(Governor’s School Counselor)

Mr. Obadiah “Obi” White  
(Governor’s School Counselor)

INSTRUCTORS:

Dr. Jeff Knisley  
(Professor/Instructor)

Dr. Karl Joplin  
(Professor/Instructor)

Dr. Hugh Miller  
(Computer Lab Instructor)

DIRECTOR

Dr. Jack Rhoton  
(Governor’s School Director)

The Pollenators

Field Trip Bus Driver

Godfrey Stout  
(Washington County Dept. of Education  
Field Trip Bus Driver)
Governor’s School field trip and Experimental Design Class Professionals

**Jennifer Bauer**
(Tour Host for Roan Mountain State Park)

**Dr. Gary Henson**
(ETSU/Prof. of Astronomy/Planetarium Program/Observatory Tour/Experimental Design Class)

**Dr. Fred Hossler**
(ETSU/Medical School/Human Tissue Slides Experimental Design Class)

**Dr. T.J. Jones**
(ETSU/Prof. of Biology/Tour Host for Warriors Path Spider Hunting & Experimental Design Class)

**Dr. Karl Joplin**
(ETSU/Assoc. Prof. of Biology/Experimental Design Class/Instructor)

**Dr. Debra Knisley**
(ETSU/Prof. of Mathematics/Experimental Design Class)

**Dr. Jeff Knisley**
(ETSU/Chair/Prof. of Mathematics/Experimental Design Class/Instructor)

**Dr. Darrell Moore**
(ETSU/Assoc. Prof. of Biology/Experimental Design Class)

**Dr. Hugh Miller**
(ETSU/Assoc. Prof. Biology) Computer Lab

**Dr. Diane Nelson**
(ETSU/Assoc. Prof. Biology/Experimental Design Class)

**Dr. Jack Rhoton**
(Director, GS SM&DA/ETSU/Prof. of Science/Instructor)

**Dr. Edith Seier**
(ETSU/Assoc. Prof. of Mathematics/Experimental Design Class)
Governor's School field trip and Experimental Design Class Professionals

Fred Strohl
(Tour Host for Oak Ridge National Laboratories)

Dr. Lev Yampolsky
(ETSU/Assoc. Prof. of Biology/Experimental Design Class)

Dr. Mike Zavada
(ETSU/Chair/Professor of Biology/Arboretum Tour/Gray Fossil Site/Experimental Design Class)
<table>
<thead>
<tr>
<th>Sara Atyia</th>
<th>Dhara Baijal</th>
<th>Kyle Bates</th>
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<td>Charlton <strong>Drew</strong> Hildreth</td>
<td>Dayle Hoefling</td>
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The 2019 Governor's School for Scientific Models & Data Analysis Graduating Class

Ashwini Joshi
Kayla Lambert
Christina Maximos
Shelby Phillips
David Qu
Karoline Sharkus
Chelsie Smith
Jonathon Smith
Wesley Sun
Clark Templeton
Cody Thornburgh
Stephanie Wade
Miranda West
Alyssa Williams
Malik Yusuf
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Autographs
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>City</th>
<th>Zip Code</th>
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<tbody>
<tr>
<td>Sara Atyia</td>
<td>3350 Berkshire Circle</td>
<td>Johnson City, TN</td>
<td>37604</td>
</tr>
<tr>
<td>Vanessa Fuentes</td>
<td>106 Laurel Hill Drive</td>
<td>Smyrna, TN</td>
<td>37167</td>
</tr>
<tr>
<td>Karoline Sharkus</td>
<td>1091 Red Fern Circle E.</td>
<td>Cordova, TN</td>
<td>38018</td>
</tr>
<tr>
<td>Dhara Baijal</td>
<td>327 Fountainbrooke Circle</td>
<td>Brentwood, TN</td>
<td>37027</td>
</tr>
<tr>
<td>Jacob Geiger</td>
<td>1429 Lancaster Drive</td>
<td>Memphis, TN</td>
<td>38120</td>
</tr>
<tr>
<td>Chelsie Smith</td>
<td>169 Rock Hill Road</td>
<td>Maryville, TN</td>
<td>37804</td>
</tr>
<tr>
<td>Kyle Bates</td>
<td>729 Clinton Street</td>
<td>Harriman, TN</td>
<td>37748</td>
</tr>
<tr>
<td>Andrew Hagy</td>
<td>321 Nicole Lane</td>
<td>Bluff City, TN</td>
<td>37618</td>
</tr>
<tr>
<td>Jonathon Smith</td>
<td>7189 Coleman Circle</td>
<td>Baxter, TN</td>
<td>38544</td>
</tr>
<tr>
<td>Angad Bindra</td>
<td>821 Grayson Lane</td>
<td>Jackson, TN</td>
<td>38305</td>
</tr>
<tr>
<td>Charlton Hildreth II</td>
<td>5009 Willfall Road</td>
<td>Bartlett, TN</td>
<td>38002</td>
</tr>
<tr>
<td>Wesley Sun</td>
<td>1145 Holly Tree Farms Road</td>
<td>Brentwood, TN</td>
<td>37027</td>
</tr>
<tr>
<td>Elijah Cantrell</td>
<td>PO Box 176</td>
<td>Pelham, TN</td>
<td>37366</td>
</tr>
<tr>
<td>Dayle Hoefling</td>
<td>1254 Bailwick Drive</td>
<td>Clarksville, TN</td>
<td>37042</td>
</tr>
<tr>
<td>Clark Templeton</td>
<td>9713 Windrose Circle</td>
<td>Chattanooga, TN</td>
<td>37421</td>
</tr>
<tr>
<td>Lydia Carr</td>
<td>140 Kathy Street</td>
<td>Johnson City, TN</td>
<td>37601</td>
</tr>
<tr>
<td>Ashwini Joshi</td>
<td>8768 Birch Park Lane</td>
<td>Germantown, TN</td>
<td>38139</td>
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<tr>
<td>Cody Thornburgh</td>
<td>1656 Botsford Drive</td>
<td>Knoxville, TN</td>
<td>37922</td>
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<td>Faria Chaudhry</td>
<td>5912 Hitching Post Lane</td>
<td>Nashville, TN</td>
<td>37211</td>
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<tr>
<td>Kayla Lambert</td>
<td>178 Old Watauga Avenue</td>
<td>Elizabethton, TN</td>
<td>37643</td>
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<tr>
<td>Stephanie Wade</td>
<td>37 Hummingbird Loop</td>
<td>Atoka, TN</td>
<td>38004</td>
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<tr>
<td>Zhengyang Cong</td>
<td>675 Harding Place Apt. H-7</td>
<td>Nashville, TN</td>
<td>37211</td>
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<tr>
<td>Christina Maximos</td>
<td>117 Sand Hill Road</td>
<td>LaVergne, TN</td>
<td>37086</td>
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<tr>
<td>Miranda West</td>
<td>1101 Albermarle Lane</td>
<td>Knoxville, TN</td>
<td>38723</td>
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<tr>
<td>Fathera Destiny</td>
<td>180 Alsup Road</td>
<td>Murfreesboro, TN</td>
<td>37129</td>
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<tr>
<td>Shelby Phillips</td>
<td>1622 East Union Valley Road</td>
<td>Seymour, TN</td>
<td>37865</td>
</tr>
<tr>
<td>Alyssa Williams</td>
<td>770 Main Street</td>
<td>Butler, TN</td>
<td>37640</td>
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<td>Murfreesboro, TN</td>
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<td>6799 Abelia Hill Cove</td>
<td>Bartlett, TN</td>
<td>38135</td>
</tr>
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</table>
Counselors

Randa Dunlap and Obadiah White

Ashlee Hatfield and Randa Dunlap

Caitlin McCowan

Randa Dunlap

Obadiah White

David Bishop

Caitlin McCowan

Ashlee Hatfield
The Center of Excellence in Mathematics and Science Education

Sponsor of the
Tennessee Governor’s School for Scientific Models and Data Analysis
East Tennessee State University
Jack Rhoton, Director
Angela Haga, Executive Coordinator
P.O. Box 70301* Johnson City, Tennessee 37614
Phone: (423)439-7592
Fax: (423)439-7530
Email: www.etsu.edu/cas/math/mathexcellence/default.aspx
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This Governor's School yearbook belongs to:

Student Name