GOVERNOR’S SCHOOL

For Scientific Models and Data Analysis

Summer 2009

Sunday, May 31st — Friday, July 3rd

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 2009

Front row: Erica Hall, Sierra Sorter, Savannah Brackman, Whitney Sides, Margaret Davis, Stephanie Bautista, Cassie Duncan, Soo-Min Lee

Second row: Angela Belic, Sarah Kramer, Rachael Huskey, Jordan Wells, Liesel Grossner, Veronica Shreve, Rhea Johnson, Lindsey Franklyn

Third row: Decoda Muller, Stephen Joiner, Garrett King, Herak Patel, Jacob Learned, Jim Hyde, Woo Byun

Back row: Zachary Meyers, Seif Atyia, David Klumpe, Jacob Norman, Hughes Miller, Henry Loewenkamp, Matthew Marsh
Students moving into the dorm

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

Our students got a glimpse into the past. Dr. Steven Wallace led our students while they worked with paleontology specialists, toured the Natural History Museum, and viewed the amazing discoveries at the digging site.
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. Rhoton, 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! Some students liked to swing and ride the deer!
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.

Neutron Science Biological Systems Energy Advanced Materials Supercomputing Additional Research Areas

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!

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.

ORNL Visitor Center

ORNL is located in Oak Ridge, Tennessee.
Celebrating Stephen Joiner’s birthday
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, Roan Mountain, TN

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.)
Pictures

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

Jennifer Bauer (Guide for Roan Mountain Tour)
Basler Challenge Course Program
ETSU Center for Physical Activity

Repelling
Raptors habitat

Nature Program

White-tail Deer Habitat

Bobcat Habitat

Raccoon Habitat

Ampitheatre

Wilderness Center
Counselors Gabe and Rachael visit the wolf habitat
Fun Pictures
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.
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.
MEMORIES
Faculty and Staff

COUNSELORS:

Miss Rachael Griffin
(Lead Governor’s School Counselor)

Gabriel Tocci
(Governor’s School Counselor)

Burl David Bishop
(Governor’s School Counselor)

Miss Elizabeth Sneed
(Governor’s School Counselor)

David Keys
(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 trips 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. of Biology) Computer Lab

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

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

Dr. Edith Seier
(ETSU/Assoc. Prof. of Mathematics/Experimental Design Class)
Participants in our Governor’s School field trips and Experimental Design Classes

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<th>Fred Strohl</th>
<th>Dr. Lev Yampolsky</th>
<th>Dr. Mike Zavada</th>
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The 2009 Governor’s School for Scientific Models & Data Analysis Graduating Class

Seif Atyia
Stephanie Bautista
Angela Belic

Savannah Brackman
Woo Byun
Margaret Davis

Cassie Duncan
Lindsey Franklyn
Liesel Grossner

Erica Hall
Rachael Huskey
Jim Hyde

Rhea Johnson
Stephen Joiner
Garrett King
The 2009 Governor's School for Scientific Models & Data Analysis Graduating Class

David Klumpe

Sarah Kramer

Jacob Learned

Soo-Min Lee

Henry Loewenkamp

Matthew Marsh

Zachary Meyers

Hughes Miller

Decoda Muller

Jacob Norman

Herak Patel

Veronica Shreve

Whitney Sides

Sierra Sorter

Jordan Wells
Autographs
Autographs
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<th>Name</th>
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<td>Zachary “Zach” Meyers</td>
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<td>Henry Loewenkamp</td>
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<td>Jordan Wells</td>
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<td>Alamo, TN 38001</td>
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</tbody>
</table>
Counselors

Gabe Tocci, David Bishop, & David Keys

Elizabeth Sneed & David Keys

Rachael Griffin

Gabe Tocci

David Bishop

David Keys

Elizabeth Sneed
The Center of Excellence in Mathematics and Science Education

Sponsor of the
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