

THE SOUTH CAROLINA ACADEMY OF SCIENCE PRESENTS

MIDLANDS MESAS FALL WORKSHOP - GRADES 4 - 8

Saturday, September 29, 2007

Newberry College

THEME: *Nurturing Science & Math in South Carolina - An extravaganza of science, mathematics, and engineering!*

SCHEDULE:

7:45 - 8:45	*	Registration –Wiles Chapel	
8:50 - 9:00	*	Announcements - <i>Dr. Charles N. Horn, Newberry College, Dr. Don M. Jordan & Anthony Kurlychek, USC Columbia</i>	
	*	Invocation - <i>Rev. Todd Cutter, Chaplain, Newberry College</i>	
9:00 - 9:05	*	Opening Remarks – <i>Wayne Kannaday, VP of Academic Affairs, Newberry College</i>	
9:05 - 9:50	*	Keynote Addresses – <i>Bill Hilton Jr.– “Operation Ruby Throat: The Hummingbird Project”.</i>	
		Executive Director, Hilton Pond Center for the Piedmont Natural History, York, SC	
10:10 - 11:00		Session A Presentations 12:10 - 12:15 Evaluations Session B Only	Science & Math Building (SM) or McClurg Center (MC)
11:20 - 12:10		Session B Presentations 12:25 - 12:50 Closing Remarks & Drawing for Door Prizes → Wiles Chapel	

	GRADE LOCATION		GRADE LOCATION
<p>1 FUN WITH POLYMERS Children will make several polymers such as slime, gak, rubber bands, etc. Allergy Alert: Liquid latex will be used in the class. Christina McCartha, Chemistry Dept., Newberry College & Newberry College American Chemical Society Students</p>	<p>ALL GRADES ROOM SM 306</p>	<p>8 KNOWITALL.ORG FOR ON-LINE LEARNING Knowitall.org is ETV's FREE, Web-based multimedia portal featuring animated games & simulations, virtual field trips, research resources, close-up investigations of the environment and much more! Come take a fun, in-depth tour and become a certified Knowitall! Samantha Cofield, ETV</p>	<p>ALL GRADES ROOM SM 120</p>
<p>2 FOOD SCIENCE This activity will involve approximately 10 lab stations in which students will perform experiments, make observations, and answer a series of questions. Limited to 16 students per session. H. Michael Mack, Science Dept., Clinton High School</p>	<p>GRADES 6-8 ROOM SM 201</p>	<p>9 CREEK CRITTERS Beneath the surface of South Carolina's streams and rivers lives small creatures that are rarely seen. See how their presence or absence can be used to tell us about water pollution. James Glover, Aquatic Biology Section; SC DHEC</p>	<p>ALL GRADES ROOM SM 315</p>
<p>3 MAP JOURNEY Use a road map to go on an imaginary journey around the state. Rebecca Pugh, Newberry College</p>	<p>GRADES 4-6 ROOM SM 107</p>	<p>10 SUNSPOTS IN MY EYES A fun exploration of our nearest neighboring star, Sol! Find out how our sun works and creates the energy that you and I need and use. Weather permitting, solar telescopes will be available for viewing. Bob Carroll, Lexington High School</p>	<p>ALL GRADES ROOM MC 120</p>
<p>4 MATHCOUNTS COMPETITION– TRAINING FOR FUTURE MATHLETES Learn What MathCounts is - Then take part in a mini-MathCounts Competition - compete for calculators and other prizes - be a mathlete. Marguerite McClam, Palmetto Consulting Engineering Group</p>	<p>ALL GRADES ROOM SM 114</p>	<p>11 MICROSCOPE FUN Gain experience using the light microscope while working with prepared slides & slides you make on your own. Sharah Clark, Newberry Middle Sch. & Bret Clark, Newberry Coll</p>	<p>ALL GRADES ROOM SM 207</p>
<p>5 THE PHYSICS OF SIGHT Students will examine how the eye bends light to produce an image on the retina and identify the parts of a cow eye that produce the sense of vision. Bob Nerbun and Pearl Fernandes, USC Sumter</p>	<p>GRADES 4-6 ROOM SM 214</p>	<p>12 EXPLORING POWER POLYGONS & TANTALIZING TANGRAMS Have fun with logic. Let's play & learn about geometry, perimeter, area & fractions. If you love puzzles, come have fun playing & learning. Mina Brooks, Science Coach, Gallman Elementary & Dale Smith, Math Coach at Boundary Elementary</p>	<p>GRADES 4-6 ROOM SM 106</p>
<p>6 GSSM – WHERE SMART IS FUN If you like to know why, where, how, when, and what in the classroom, then the SC Governor's School for Science and Mathematics may be the right place for you in the future. We will discuss the opportunities of this advanced educational program as well how to prepare for GSSM and college. Cindy Billiot, Governor's School for Science & Mathematics</p>	<p>GRADES 6-8 ROOM MC 209</p>	<p>13 DO YOU KNOW YOUR PLASTICS? Chemical tests will be utilized to separate & identify various kinds of plastics. You may even be surprised to see how heating affects these polymers. Sondra Wieland, Heathwood Hall Episcopal School</p>	<p>GRADES 4-6 ROOM SM 208</p>
<p>7 WATER BUBBLE BRACELETS A "make it, take it" experience where students travel on an imaginary journey as a drop of water wherever the dice leads them. For memories they make a bracelet color coded to their experience. Carissa Faruggia & Beth Day, Kelly Mill Middle School</p>	<p>GRADES 4-6 ROOM SM 206</p>		

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14	BRAINPOP...POP...POP Do you want to have fun on the internet at school and home while learning science facts at the same time? Come and hear your brain pop with this interactive video website. Quen Dantzer , North Middle School High School District Teacher of the Year - O'burg Consolidated School District 5	ALL GRADES ROOM MC 206
15	SHIPWRECKS AND SOGGY SITES A brief PowerPoint presentation on archaeology underwater, followed by a "hands-on" practical session allowing students to actually "excavate" a shipwreck and find what can be learned from a site in SC waters. Christopher Amer , SC Institute of Archaeology & Anthropology	ALL GRADES ROOM MC 118
16	MYSTERY SESSION A wide variety of activities: hydrologic bracelets, puppet animal tales, mapping it out, super science secrets and name this tree. Camille Hiott , Language Arts Teacher, Manning Middle School	ALL GRADES ROOM MC 307
17	THE SCIENCE OF JUGGLING Before the session is complete you will be juggling. We will show that the ability to toss and catch balls and scarves provides insight into human coordination, robotics and mathematics. Juggling teaches children to focus and do better on standardized tests. Jan Scott & Susan Jordan , Brennen Elementary School	ALL GRADES ROOM MC 309
18	DON'T CRY OVER SPILLED OIL! What could you do with \$15M? Could you clean up a mess the size of the Atlantic Coastline? How about a mess the size of a cake pan? Come discover the dangers of oil spills and what can be done to clean up the mess. Dana M Hutto , Asst. Director, Ctr for Sci. Ed, SC2 Past President	GRADES 4-6 ROOM SM 103
19	LIGHT AND COLOR A brief introduction to the topics of Light, Color, and Optical Effects including an assortment of hands-on experiments and demonstrations. Jennifer Cash , SC State University	ALL GRADES ROOM MC 114
20	CHAMPIONS OF THE ENVIRONMENT Champions awards \$500 grants to SC's K-12 students and teachers for outstanding environmental projects. Learn about the program and how you can apply. In addition, participate in a hands-on demonstration to learn about the water cycle and water pollution. Lynne LaSalle , SC DHEC	ALL GRADES ROOM MC 111
21	WHAT COLOR IS YOUR CANDY? Test to find out what the colors of your candies, Kool Aid and other materials really are. Then make a colorful pattern on special paper using the properties of testing that you have learned. Johanna Killoy , SC Science Council	GRADES 4-5 ROOM MC 208
22	WHAT LIFE WILL LOOK LIKE IN 2017 Paper and Chips, Books that talk, Ultra Light Airplane, Pico Robotics, Environmentally friendly and economical energy sources for home and industry and language skills. The Future is limited only by our imagination and the possibilities are endless. Naomi Marshall , Westinghouse Electric Co.	ALL GRADES ROOM MC 210
23	CHEMISTRY IS FUN! MAKING PAPER AND EARRINGS A simple hands-on activity and demonstration on common materials that can be recycled into paper and used to make jewelry. Vivian Counts , Science Department, Benedict College	GRADES 6-8 ROOM SM 302

GRADE
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24	FLL: SPORTS FOR THE MIND FIRST LEGO League (FLL) introduces people ages 9-14 to the fun & excitement of science & technology while building self-confidence, knowledge & life skills. Alongside adult mentors, FLL teams solve problems using engineering concepts, presentation techniques & robots. Donald Griffith , Ed.D USC, Coll. of Eng. & Information Tech.	ALL GRADES ROOM SM 202
25	FUN WITH ROCKETS How to design, build & launch your own rocket. Students will build a model rocket to take home or launch it at a designated site after the workshop at 1PM. {If time & Weather permit} Larry & Harry Smith , Rocket Science Hobbies, Lexington SC.	ALL GRADES ROOM MC 116
26	ENVIRONMENTAL DETECTIVES Students will participate in a number of hands-on activities centered on ecology concepts and how they can help keep the environment clean. Christine Lotter , USC College of Education	ALL GRADES ROOM MC 314
27	ROLLERCOASTER PHYSICS Students will design and build model rollercoasters and examine the forces that affect them. Kelly Hawkins , Mid-Carolina Middle School	GRADES 6-8 ROOM MC 312
28	SCIENCE & MATH FILM FEST See some of the latest media productions, films, videos, power point shows about Science and math. Presenter: TBA	ALL GRADES ROOM SM 102
29	SNAKES OF SOUTH CAROLINA Identification of Venomous and non-venomous snakes of SC. Derral Linder , South Carolina State University	ALL GRADES ROOM SM 218
30	SOME PHUN IN SCIENCE Experience a variety of engaging activities that will excite you about science. Bring a partner to work with and become a scientist at work.. M. LaNelle Kohn , Midlands Improving Math & Science Hub	ALL GRADES ROOM MC 316
31	STRATEGIES FOR ADDITION OF INTEGERS This hands-on session is to show students the strategies for addition of integers and have fun doing it. Come and learn how to impress your schoolmates. Marcia Ringer , Math Dept., Newberry College	GRADES 4-6 ROOM SM 113

THE MESAS WORKSHOP IS SPONSORED BY
NEWBERRY COLLEGE & THE SOUTH CAROLINA
ACADEMY OF SCIENCE.

SPECIAL THANKS ARE OWED TO THESE SPONSORS:
CONNIE MCMORRIS AND NEWBERRY MIDDLE SCHOOL,
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THE DISTRICT OFFICE OF THE NEWBERRY SCHOOL
DISTRICT AND ESPECIALLY GRADE SCHOOL TEACHERS
EVERYWHERE!

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