

Concurrent Sessions - Thursday									
Time	Session	Room	Limit	Grades	Subject	Strand	Title	Presenters	Description
7:15-7:45	120	Ballroom A					First-Timers Conference Orientations	Alice Gilchrist, (SC)2 President Dee Marshall, (SC)2 President-Elect	We extend a warm welcome to those who are joining us for the first time. Come hear some helpful hints as we help you make the most of your experience at the conference.
8:00-8:45	151	Room 103	25-50	Middle	General	Technology	Having Fun With One to One	Jessica Fox, Muller Road Middle; Nicole Schuldes, Blythewood Middle	Shake the fear of using tablets in your classroom. Hear experiences, lessons, ideas, and tips. Teachers who have their own tablet should bring it to get the full experience!
8:00-8:45	142	Room 107	25	Early Elem., Elem.	General	Content, Processes, Pedagogy	Energy-There is Nothing to Fear!	Amy K. Threatt, S2TEM Centers SC; Rhett Nettles, S2TEM Centers SC	Come and dialogue about energy and how it is the cornerstone for all science concepts. We will explore various ways to effectively help children understand the big ideas of energy.
8:00-8:45	100	Ballroom C	50-100	Early, Elem., Middle	All Sciences	Content, Technology	What is Environmental Ed?	Ed Falco, FalconSulting	ETV and "Environmental Ed" have teamed up to create humorous, fact, and fast paced standards-aligned vignettes to stimulate environmental "awareness to action" within and beyond the classroom. View some shows and learn how to use them.
8:00-8:45	137	Room 105	25	Elem, Middle, HS	All Sciences	Technology	Using Tweeting, Texting and Free Computer Apps to Enhance Communication with Parents and Guardians	Lucia Jacobs, A.C. Flora High School	Communication with parents is hard enough! I will show you how I use various free and easy to use computer applications to enhance my communication with parents, guardians and students. See you there!
8:00-8:45	107	Room 102	25-50	Middle	Chemistry, Physical	Content, Processes, Pedagogy	Energy Transfer: Motors, Generators and Sources of Electricity	Linda Culpepper, LAB-AIDS, Inc.	Join us as we explore the relationship between, and practical applications of, electricity and magnets. Participants will explore the newest LAB-AIDS kit #211, Energy Transfer: Motors, Generators and Sources of Electricity. Understanding the interactions between magnetic fields and the relationship between electricity and magnetism has led to many important and widely used technological applications. We will start by building a simple, working battery powered electric motor. We then will use an electric motor to generate an electric current. Finally, we will compare the methods and equipment needed to convert energy carried by renewable and nonrenewable resources into electric current. Perfect for your STEM classroom!
8:00-8:45	101	Room 101	25-50	General	General	Pedagogy	Moving from Activitymania to Meaningful Inquiry-Based Lessons	Robbie Higdon, Clemson University; Dr. Jeff Marshall, Clemson University	Using simple demonstrations and activities, this session will present several strategies for turning your favorite activities into more thoughtful learning experiences for students.
8:00-9:15	116	Room 104	25-50	Elementary	General Science	Content	Science Assessment Made Easy	Carolina Training Partner, Carolina Biological Supply	Is it all the same? Assessment is an integral part of teaching and learning. Join us to explore formative and summative assessment options for elementary teachers using experience-based activities.
8:00-9:45	123	Room 106	25-50	Middle, High	Environmental	Content	7 Billion and Counting: Lessons for Our Planet's Future	Trish Patrick, Texas Tech University	Engage in innovative activities to explore connections between human population growth, resource consumption and the changing face of our planet. Free CD-ROM of activities.
8:00-9:45	103	Ballroom A	50-100	High	Chemistry, Physical	Content, Processes, Technology	Materials Chemistry for the High School Classroom	Bob Bowen, Clemson University; Gary Lickfield, Clemson University; Phil Brown, Clemson University; Thompson Medford, Clemson University	Materials Science is the interface of chemistry, physics, and engineering. We will present demonstrations of redox chemistry, harmonic resonance, bio/nano materials, and more!
9:00-9:45	108	Room 102	25	Elementary	Physical	Content	Begging to do Physics at Recess - You Bet!	Marilyn Enoch, Delta Education	Inquiry Science activities involving experimental design, manipulating variables, data gathering and analysis using FOSS materials-something for new and veteran FOSS users. Includes Delta literature connection materials.
9:00-9:45	111	Ballroom C	50-100	General	All Sciences	Content, Processes, Pedagogy	South Carolina Green Schools Network	Ed Falco, Conservation Voters of SC Education Fund	Become a Green Steps school and join the SC Green Schools Network to create healthier learning environments, minimize energy consumption and waste, and save dollars through project-based learning, doing, and networking.

9:00-9:45	105	Room 101	25-50	Middle	Earth/Space Science	Content, Processes, Pedagogy	U.F.O. - Unknown Flying Objects	Linda Culpepper, LAB-AIDS, Inc., Amy Kezma, LAB-AIDS, Inc.	Join us in a space odyssey and examine objects and celestial bodies in order to determine if they are planets, asteroids, comets, etc. Use descriptions of the planet's characteristics to identify four different planets presented in a science fiction scenario. Materials from Exploring the Solar System unit in SEPUP's Issues and Earth Science program helps students learn to identify and classify celestial bodies based on their characteristics. Join us for this hands-on overview and discover how to use relevant issues as a context for teaching earth science concepts.
9:00-9:45	127	Room 105	20-50	General	Measurement	Content	Suggestions for Teaching Metric	Dr. Don M. Jordan, University of South Caorlina	Hands-on Metric Activity demonstrated with the teachers. Teachers will learn how to become one of the 200 South Carolina Certified Metric Specialists. Good for National Boards. Handouts included. Measurement from Yotta to Yocto, BMI, BSA, and Nanotechnology.
9:00-9:45	121	Ballroom B	50-100	General	General	Content, Technology	Ways to Integrate Streamline SC	Debbie Jarrett, SCETV	Get ideas for ways to insert streamline videos into presentations, use images to create narrated slide shows, use Movie Maker to edit videos and much, much more!
9:00-9:45	114	Room 103	50-100	Middle, High	Biology, Life Science	Content, Processes, Technology, Pedagogy	The Adolescent Brain	Gail Vawter, Springfield Middle School	Sometimes educators and parents alike wonder if adolescents are like the scarecrow...if they only had a brain! Come learn the latest exciting research about why adolescents learn and behave the way they do!
10:00-10:45	115	Room 103	20-50	Middle, High	Biology, Life Science	Content, Processes, Technology, Pedagogy	Using Stations to Teach Science Standards	Gail Vawter, Springfield Middle School	Rotating stations are a great way to utilize equipment, capture student involvement, and keep students moving! Stations are developed to cover science standards. Lessons presented are seventh grade, but can be adapted to any level.
9:00-10:45	140	Room 107	25	Middle	Biology, Chemistry, Physical	Content, Processes, Technology, Pedagogy	STEM+PASE=Learning That's Effective!	Susan Engelhardt, SC Governor's School for Science and Mathematics; M. E. Farmer, SC GSSM; Randy La Cross, SC GSSM	Are you looking for a way to promote STEM learning and address the standards in a way that is exciting and student-centered? Join us for a hands-on, inquiry-based session using innovative technology from SC GSSM's PASE project (Portable Advanced Science)
10:00-10:45	145	Ballroom B	50-100	General	Management	Pedagogy	Classroom Management	Alice Gilchrist, President (SC)2, S2TEM Centers SC	Come spend time learning about some easy ways to establish order in your classroom. Warning...screaming is involved!!
10:00-10:45	133	Room 104	25	High	Physical	Content, Processes, Pedagogy	Race into Physics with the CPO Energy Car	Clarice Wenz, CPO Science	Explore the concepts of velocity, force, mass, acceleration, momentum, and energy with the Energy Car and DataCollector. Friction, momentum, efficiency, potential energy, kinetic energy, and energy transformations are made simple. Our DataCollector and Photogates work together to help students measure and calculate speed, velocity, and acceleration of the Energy Car as it moves on the track.
10:00-10:45	138	Room 105	50-100	Elementary	Chemistry, Physical	Content	Elementary Physics on a Budget	Tonya Lee, White Knoll High; Charlene Allen, Waccamaw Elementary	Hmmm...how can you teach physics to your students on a budget? Join us and discover many exciting experiments that will totally engage your students!
10:00-10:45	109	Room 102	20-50	Elementary, Middle	Biology, Environmental, Marine, Forensic Science	Content, Technology	Experiencing Science Beyond the Classroom	Beau Mongold, Clemson University's Youth Learning Institute	This upbeat, interactive session with Clemson's Youth Learning Institute gives educators an inside look at fun, innovative programs that teach outdoor education, forensic science and marine science in a hands-on environment.
10:00-10:45	110	Ballroom A	50-100	General	Biology, Life, Chemistry, Physical, Earth, Space, General, Physical	Content, Processes, Pedagogy	Step Away from the Textbook	Ben Bache, Homecourt Publishers	FREE BOOKS! Step away from the textbook and take advantage of activities, song parodies, jokes, games, etc. that are completely aligned to the SC Science Standards. Attendees receive FREE BOOKS!
10:00-10:45	106	Room 101	25-50	High	Biology/Life Science	Content, Processes, Pedagogy	Evolution: Evidence and Explanations for Unity and Diversity of Life	Linda Culpepper, LAB-AIDS, Inc.; Amy Kezman, LAB-AIDS, Inc.	Participate in engaging standards-based activities from SEPUP's NEW Science and Global Issues Evolution unit. These activities can help high school biology students understand that evolutionary theory is a scientific explanation for the unity and diversity of life. Take home classroom-tested inquiry-based approaches for examining fossil skeletons as evidence for whale evolution, and for developing students' understanding of fossil formation and how scientists estimate the ages of fossils.

11:00-12:00		Ballroom A/B					Keynote Speaker, Merrie Southgate			
12:00-12:45	151	Ballroom A	25-50	Elem., Middle	Inquiry Tools	Content, Processes	"Tools of the Trade" Science Inquiry Tools	Jami Cummings, Carver Middle School	Teachers will gain ideas and skills for teaching inquiry standards related to the tools used (K-8) in an elementary classroom, as many of your students have not learned these skills in previous grades. I will share sample labs and activities you can use in your classroom from K-8!	
12:00-12:45	124	Room 106	20-50	Middle, High	Physical	Technology	REALLY EASY Physical Science using RED Probeware Technology	Cynthia Kaminsky, Science Kit, St. James High School	Learn how to integrate the RED units into your classroom/laboratory. Hands-on activities include buoyancy using the force probe.	
12:00-12:45	143	Room 107	25-50	Elementary, Middle	General	Content	Integrating ELA and using Informational Text in Science Instruction	Carrie Wilson, Pacolet Elementary School, Dedee Quinn, Middle School of Pacolet	This session will provide strategies to use to integrate literacy, engage students and support thinking during science instruction. Literacy strategies will be modeled using informational text as well as how to integrate literacy as a part of notebooking.	
12:00-12:45	104	Room 101	25	High	Biology/Life Science	Content	Evolution Activities for Success on the Biology End of Course Exam	Lisa McAlpine, Clemson University/Blythewood High School	Explore hands-on activities to help students grasp evolutionary biology concepts. Electronic copies of all activities along with correlated lesson plans and other materials will be provided for each participant.	
12:00-1:45	122	Ballroom B	100	General	Technology, Pedagogy	General	Developing Presenter Techniques for Designing Presentations that Sing	John Fallon, John Fallon Presents	If you want to continue being a mediocre presenter---miss this session. If not, join John Fallon in this humorous, engaging and entertaining session to discover techniques that will move your next presentation to new levels.	
12:00-1:45	113	Room 103	25	Middle	Biology/Life Science	Content, Processes	Cow Eye Dissection	Bonnie Trask, Ocean Bay Middle School; Amy Schliem, OceanBay Middle School; Carolina Teaching Partner, Carolina Biological	WE have teamed up with Carolina Biological for an eye dissection. If you teach 8th grade science, and do not dissect eyes because you lack the confidence, this workshop is for you!	
12:00-12:45	102	Ballroom C	50-100	General	General	Pedagogy	Transforming Classroom Interactions into Meaningful Learning Experiences	Dr. Jeff Marshall, Clemson University; Robbie Higdon, Clemson University	This session will present several strategies including how to develop questions, facilitate classroom discussions, and conduct formative assessments throughout an instructional unit to create a more student-centered, inquiry-based learning environment.	
12:00-1:45	119	Room 104	25-50	High	Biology/Life Science	Content	AUTOPSY: Forensic Dissection Featuring Carolina's Perfect Solution® Pigs	Carolina Teaching Partner, Carolina Biological Supply	Engage students and revitalize your instruction of mammalian structure and function with a "real" classroom autopsy! Participants dissect a pig using human autopsy protocols. Free dissection materials provided.	
1:00-1:45	147	Ballroom A	25	Middle, High	Biology/Life Science, Earth/Space Science, Environmental Science, General	Content, Pedagogy	Pairing Future Scientists with Middle Level and High School Science Teachers	Austin Hitt, Coastal Carolina University; Cindy Lily, Ocean Bay Middle; Katie Altman, Coastal Carolina University; Melany Nussbaumer, North Myrtle Beach Middle; Jamie Bruza, Coastal Carolina University; Jennifer Osboren, Forestbrook Middle; Mandy Cuskelly, Coastal Carolina University; Julie Helgerson, North Myrtle Beach High; Erin Cziraki, Coastal Carolina University; Scott Lefke, Aynor Middle; Bryana Libby, Coastal Carolina University; Catherine Pons, St. James Middle; Moriah Moore, Coastal Carolina University; Steve Carleton, Conway High; Louie Schoettle, Coastal Carolina University; Amy Schliem, Ocean Bay Middle; Kim Trinkle, Coastal Carolina University	The purpose of this session is to share the experiences and inquiry-based lessons developed by teams of middle level and high school science teachers and graduate students in the sciences.	
12:00-1:45	117	Room 105	25-50	Middle, High	Environmental	Content	7 Billion and Counting: Lessons for Our Planet's Future	Trish Patrick, Texas Tech University	Engage in innovative activities to explore connections between human population growth, resource consumption and the changing face of our planet. Free CD-ROM of activities.	
1:00-1:45	125	Room 106	50-100	Middle, High	Chemistry	Content, Processes	Chemistry In-the-Bag Inquiry Workshop	Cynthia Kaminsky, Science Kit	Learn how to easily incorporate inquiry activities into your classroom using ScholAR's In-the-Bag Inquiry Activity series. These easy-to-perform demonstrations are designed to engage your students and incorporate guided inquiry exercises.	
2:00-3:45	141	Room 104	25-50	Elementary	General	Content	Dive int STEM with GEMS Ocean Sciences Sequence	Carolina Teaching Partner, Carolina Biological Supply	Create STEM connections with the new Ocean Sciences Sequence for Grades 3-5 from GEMS and the Lawrence Hall of Science. Participants will leave with lessons for their classrooms.	

2:00-2:45	153	Ballroom B	25-50	General	Earth, Space	Content, Technology	Storm Chasing-A Classroom Experience	Jim Hinton, Lexington 2 District Office	This session is designed to provide teachers with resources to enhance weather instruction including weather technology, resource speakers, live streaming video, and the opportunity to experience storm chasing first hand!
2:00-2:45	126	Ballroom A	25	Middle, High	Biology/Life Science, Earth/Space Science, Environmental Science, General	Content, Pedagogy	Pairing Future Scientists with Middle Level and High School Science Teachers	Austin Hitt, Coastal Carolina University; Cindy Lily, Ocean Bay Middle; Katie Altman, Coastal Carolina University; Melany Nussbaumer, North Myrtle Beach Middle; Jamie Bruza, Coastal Carolina University; Jennifer Osboren, Forestbrook Middle; Mandy Cuskelly, Coastal Carolina University; Julie Helgerson, North Myrtle Beach High; Erin Cziraki, Coastal Carolina University; Scott Lefke, Aynor Middle; Bryana Libby, Coastal Carolina University; Catherine Pons, St. James Middle; Moriah Moore, Coastal Carolina University; Steve Carleton, Conway High; Louie Schoettle, Coastal Carolina University; Amy Schliem, Ocean Bay Middle; Kim Trinkle, Coastal Carolina University	The purpose of this session is to share the experiences and inquiry-based lessons developed by teams of middle level and high school science teachers and graduate students in the sciences.
2:00-2:45	132	Room 105	25	Middle, High	Chemistry, Physical	Content, Processes, Technology	Atom Building Game	Clarice Wenz, CPO Science	Learn about atomic structure using an inquiry-based approach called the CPO Science Atom Building Game. In this workshop, you will experience innovative games and activities that give students fun learning opportunities to explore and grasp both atomic structure and the periodic table. This also has application for studying oxidation numbers, valence electrons, as well as both ionic and covalent bonding.
2:00-2:45	128	Room 103	25-50	Middle, High	Chemistry, Physical	Content, Technology	Adventures in Density (Using Student-Made Hydrometers)	Al Lyerly, Newberry High School and ITEC, Newberry College	This safe inexpensive interactive activity explores the density of liquids using participant-constructed hydrometers. This engaging hands-on activity reveals density concepts through manipulation, observation, simple calculations and graphic interpolation.
2:00-2:45	139	Room 106	20-50	General	General	Content, Pedagogy	Simplify Your Science Teaching with FOCUS	S2TEM Centers SC Science Specialists	Explore strategies for incorporating the ideas in Michael Schmoker's FOCUS with inquiry-based science teaching as you examine effective science lessons that promote student learning through reading, writing and discourse.
3:00-3:45	131	Room 105	25-50	General	Earth Science	Content, Processes	Earth Science Teachers Share-a-Thon	Dr. Alan Weekes Dr. John Wagner	Come share the fun of Earth Science with SCESTA members! Earth science (and some space science) lessons and activities for grades K-12 will be demonstrated and all participants will receive paper versions of all lessons. Bring a jumpdrive to download electronic versions if you would prefer. Stay after for the SCESTA business meeting to be held in the same room!!! All are welcome!!!!
3:00-3:45	146	Room 106	25-50	Middle	Earth/Space Science	Content, Technology, Pedagogy	Fly Me to the Moon: Lunar Science for All	Cynthia Hall, College of Charleston, Geology; Cassandra Runyon, College of Charleston, Geology; Elizabeth Joyner, SC Maritime Foundation Community Integrated Services; Heather Meyer, College of Charleston, Geology	In this session, we present a three-part model for developing opportunities in lunar science education professional development that is replicable and sustainable and integrates NASA mission-derived data.
3:00-3:45	148	Room 107	50-100	General	All Sciences	Content, Tecnology	Ways to Integrate Streamline SC	Debbie Jarrett, SCETV	Get ideas for ways to insert streamline videos into presentations , use images to create narrated slide shows, use Move Maker to edit videos and much much more!
3:00-3:45	152	Room 102	25-50	Elem., Middle	Biology/Life Science	Content, Processes	Teaching Science Inquiry using <i>The Diary of a Worm</i> by Doreen Cronin	Jami Cummings, Carver Middle School; Mary Levens, McCracken Middle School	Teachers will gain ideas and skills for teaching inquiry standards (K-8) in the elementary and middle school classroom, when your students have not learned these skills in previous grades. WE will also share ideas for using children's literature to teach science concepts .
4:00-4:45	149	Ballroom A	100	General	All Sciences		Legislative Update!	Mary Levens, McCracken Middle School; Dana Hutto, Science Coordinator; LeAnne Icone	We highly recommend that you attend this session! We are holding a Round Table Discussion to keep our members up to date with current happenings in Science. Please join us!
4:00-4:45	150	Room 105	50-100	General	Earth Science		Earth Science Business Meeing	Dr. John Wagner, Clemson University; Dr. Alan Weekes	Join us and become members of the South Carolina Earth Science Association. Hear updates for Earth Science, share ideas, and enjoy the fun!

8:00-8:45	112	108	25-50	General	Earth, Space, Environmental	Content	Carbon Capture and Climate Change	John Wagner, Clemson University	Carbon dioxide is a gas that increases heat retention in the atmosphere. Carbon capture and sequestration efforts show great promise for reducing emissions and slowing the rate of climate change.
12:00-1:45	130	108	25-50	Early, Elementary	Disciplinary Literacy in Science	Pedagogy	Reading, Writing, and Reciting to Build Disciplinary Literacy in the Science Classroom	Cam Thanckston, S2TEM Centers SC Gaye Irick, S2TEM Centers SC	Use targeted science notebooking, content-based poetry writing and recitation, combined with lots of interactive reading and dialogue to promote the disciplinary literacy skills of your K-5 students.
2:00-2:45	129	108	25-50	Elementary, MS	Assessment	Content, Technology	Science Formative Assessments	Malinda Bridges, Clifdale Elementary Donna Howard, Pacolet Elemenary Brenda Black-Morrison	During this session teachers will increase their awareness of the importance of using formative assessments to guide daily instruction. Teachers will examine a variety of formative assessment strategies that promote learning and inform instruction. Using science probes, formative assessments, and interactive graphic organizers, teachers will explore ways to uncover and analyze students' ideas in science. Come learn to prepare quality standard-based formative assessments that will help students become competent on summative assessments PASS, district benchmark, and end-of-unit tests.
3:00-3:45	134	Ballroom A	25	Elem., Middle, High	All Sciences	Technology	Using Tweeting, Texting and Free Computer Apps to Enhance Communication with Parents and Guardians	Lucia Jacobs, A.C. Flora High School	Communication with parents is hard enough! I will show you how I use various free and easy to use computer applications to enhance my communicatin with parents, guardians and students. See you there!