

Georgia Science Teachers Association

Annual Conference

At

The Hyatt Regency Atlanta, GA • February 16-18, 2012

www.georgiascienceteacher.org



Conference Sponsors





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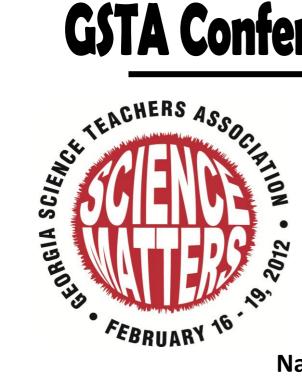






Science Kit & Boreal Laboratories

GSTA Conference Leadership Team



Chris Kennedy, Conference Chair

Paulding County Schools

Sally Creel, Conference Program Chair

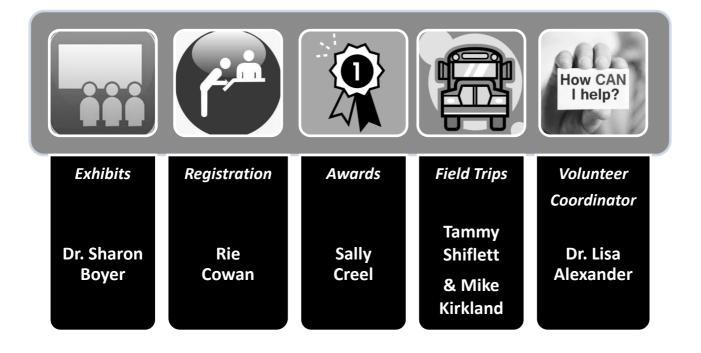
Cobb County Schools

Nancy Brim, Local Arrangements Co-Chair

DeKalb County Schools

Kathy Switzer, Local Arrangements Co-Chair

DeKalb County Schools





GSTA Executive Board 2011-2012

President	Dr. Kelly Price
Vice President	Zoe Evans
President-elect	Sally Creel
Director	Chris Kennedy
Secretary	Joey Nunn
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Middle School Representative	Michael Eby
High School Representative	Jeremy Peacock
College Representative	Dr. Lisa Martin-Hansen
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District VIII Director	Kimberly Boucher
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District X Director	Patricia DuBose
District XI Director	Lauren Baker
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Awards Chair	Sally Creel
Conference Exhibitor Chair	Dr. Sharon Boyer
Conference Registration Chair	Rie Cowan
GYSTC Representative	Julia Celebi
Nominations Chair	Dr. Kelly Price
E-Observations, Editor	Zoe Evans
GSTA Website Designer	Dr. Donna Governor

Look for members of the GSTA Board throughout the conference.

Conference at a Glance

Wednesday, February 15, 2012

6:00-8:00 PM

Registration

Registration

Thursday, February 16, 2012

7:00 AM - 5:00 PM 8:00 AM - 5:00 PM 8:00 AM - 5:00 PM 8:00 AM - 5:00 PM 4:00 PM - 4:50 PM

Exhibit Hall Open Field Trips Concurrent Sessions/Workshops

District Meet & Greet in the Exhibit Hall

Friday, February 17, 2012

7:00 AM – 5:00 PM	Registration
8:00 AM – 5:00 PM	Exhibit Hall Open
8:00 AM – 5:00 PM	Field Trips
8:00 AM – 5:00 PM	Concurrent Sessions/Workshops
12:00 PM – 1:15 PM	General Session, GSTA Annual Meeting
	Introduction of Candidates for GSTA Office
	Keynote Speaker Dr. Stephen Pruitt, VP Achieve &
	Leading the Development of the Next Generation
	Science Standards
4:30 PM – 5:00 PM	Exhibit Hall Door Prize Drawings
6:00 PM – 10:00 PM	Awards Banquet
	The Georgia Aquarium – Ocean's Ballroom
	Tickets Required

Saturday, February 18, 2012

8:03 AM – 9:30 AM	Registration
8:30 AM – 12:30 PM	Concurrent Sessions/Workshops





Georgia Science Teachers Association GSTA Presidents

Name	Years of Service	Conference Location
Kelly Price	2011-2012	Atlanta
Chris Kennedy	2010-2011	Atlanta
Ann Collins	2009-2010	Savannah
Wendy Joiner	2008-2009	Savannah
Gail Sinkule	2007-2008	Athens
Marion Reeves	2006-2007	Athens
Steve Rich	2005-2006	Columbus
Gail Marshall	2004-2005	Columbus
Venetia Butler	2003-2004	Atlanta – NSTA National
Karol Stephens	2002-2003	Jekyll Island
Judy Godfrey	2001-2002	Jekyll Island
Ellen Roach	2000-2001	Macon
Mary Atwater	1999-2000	Macon
Mark Stallings	1998-1999	Atlanta
Sharon Boyer	1997-1998	Atlanta
Bob Moore	1996-1997	Augusta
Joe Moore	1995-1996	Augusta
Francis Gardner	1994-1995	Savannah
Mary Wilde	1993-1994	Savannah
Ellen Averill	1992-1993	Atlanta Airport
Linda Bostick	1991-1992	Atlanta Airport
Melody Hall	1990-1991	Columbus
Margaret Eidson	1989-1990	Atlanta – NSTA National
Linda Mitchell	1988-1989	Savannah
Daisy Waldrep	1987-1988	Savannah
John Finley	1986-1987	Peachtree City
Kathy O'Neil	1985-1986	Peachtree City
Don Berkowitz	1984-1985	Rock Eagle
Judy Dennison	1983-1984	Rock Eagle
Carol Rutland	1982-1983	Rock Eagle
Jaunita Chitwood	1981-1982	Callaway Gardens
Jaunita Chitwood	1980-1981	Callaway Gardens
Betty Higgins	1979-1980	Woodward Academy
Kathryn Garrard	1978-1979	NSTA Regional
William Barrow	1977-1978	Athens History Village
James Coleman	1976-1977	Holiday Inn Locust Grove
Odell Owens, Jr.	1975-1976	NSTA Regional
Connie McNeil	1974-1975	Macon
Wayne Edwards	1973-1974	Savannah
Willis Brown, Jr.	1972-1973	
Lonnie Love Richard Johnson	<u>1971-1972</u> 1970-1971	
Lucy Smith		
Helen Carter	1969-1970	
Tully Pennington	1968-1969	+
Montine Wilson	<u>1967-1968</u> 1966-1967	+
Charles Coleman	1965-1966	
H.V. Bullock	1964-1965	
Al Woodard	1963-1964	
Bill Leach	1962-1963	
Dallas Stewart	1961-1962	
Cora Middleton	1960-1961	
Betty Cheek	1959-1960	
Uley Calhoun	1958-1959	
	1900-1909	



2010	Amanda McGehee, DeKalb (K-6)		
2009	Rachael Parr, Jefferson (7-12)		
2008	Halley Pag	e, Athens (K-6)	
2007	Donna Governo	or, Cumming (7-12)	
2006	Pamela Krohne-	Googe, Dallas (K-6)	
2005	Zoe Evans,	Carrollton (7-12)	
2004	Vicki Jacob	s, Morrow (K-6)	
2003	Janice Hudsor	n, Columbus (7-12)	
2002	Terrie Kielborn, Carrollton (K-6)	Wynn Mott, Woody Gap (7-12)	
2001	Clelia Scott, Brunswick (K-6)	Steve Rich, Douglasville (7-12)	
2000	Jane Moore, Gwinnette (K-6)	Tina Cross, Columbus (7-12)	
1999	Amanda Buice, Barnesville (K-6)	Amy Denty, Jesup (7-12)	
1998	Marlee Tierce, Conyers (K-6)	Sandra Eidson, Oakwood (7-12)	
1997	Rhonda Toon, Barnesville (K-6)	Marsha Hood. College Park (7-12)	
1996	Sylvia Dee Shore, Columbus (K-6)	Roger Wesley McCoy, Kennessaw (7-12)	
1995	Rita VanFleit, Lithonia (K-6)	Barbara Cornelius, Winder (7-12)	
1994	Teresa Jordan Gruendl, Savannah (K- 6)	Phyllis Rump, Woodstock (7-12)	
1993	Betty Ann Ingram Smith, Newnan (K- 6)	Thomas E. Hall, Moultrie (7-12)	
1992	Barbara G. Piper, Austell (K-6)	Lynda H. Peterson, Marietta (7-12)	
1991	Cathy Rich Robinson, Savannah (K-6)	Trissa Luftig, Norcross (7-12)	
1990	Carol Burbilis, Winder (K-6)	Sandra J. Rhoades, Kennessaw (7-12)	
1989	Michael Édmondson, Columbus (7-12)		
1988	Jeffrey D. Cramer, Atlanta (7-12)		
1987	Daniela M. Taylor, Norcross (7-12)		
1986	Beverly S. Lang, Newnan (7-12)		
1985	Lila Kathryn Mc	Lila Kathryn McGahee, Adair (7-12)	
1984	Annie Laura Pace, Athens (7-12)		
1983	Richard R. Bell, Lithia Springs (7-12)		

The Presidential Award for Excellence in Science Teaching is the Nation's highest honor for teachers of science and mathematics. It is awarded annually by the White House and administered by the National Science Foundation. One Georgian is honored annually in Washington, DC during a week-long celebration featuring visits to the White House and a State Dinner. More information is available at www.paemst.org.

In Georgia, the award is administered through the Georgia Department of Education.





ELEMENTARY Kelly Bodner Cobb County Schools



HIGH SCHOOL Jennifer Forsyth **Cherokee County Schools**

CONFERENCE GRANT



Sherrie Chovanec Paulding County Schools



Peter Fischer Paulding County Schools

EACHERS OF PROMISE



Jessie Kelly Gwinnett County Schools MIDDLE SCHOOL

Soomy Sim Gwinnett County Schools

ADMINISTRATOR OF THE YEAR



Jason Freeman Hiram High School Paulding County Schools

SCIENCEQUEST

TEACHER SCHOLARSHIP

Janice Belcher **Cobb County Schools** MarineLab Costal Ecology Workshop - Summer 2012



FIGH SCHOOL



Tara Jones-Lawrence **Bibb County Schools** DIDD COUNTY SCI HEACHERS ASSOC HEACHERS ASSOC 19.



Amanda Camp Paulding County Schools

"Electric Extremes, Marvelous Magnetism, Entangled Earth Science"

Janice Belcher Cobb County Schools

"Science from the Classroom to the Living Room"

n"

Pamela Parks Oglethorpe County Schools

> *"If You Build It,* They Will Learn"

Gail Marshall University of West GA

"Physical Experiences with the Physics of Simple Machines"







Regina Ahmann Coweta County Schools

"Outdoor Classroom Organic Garden"

Jennifer Abdich Paulding County Schools

"Teaching Science Through Reading in EIP"



Margrite Wimbash Fayette County Schools

"Garden of Hope"



Tonya Rogers Bleckley County Schools

"Central Georgia Critters & Creepers"

STUDENT ADVENTURE SCHOLARSHIP WINNER

Alixe Lyon Forsyth County Schools Funding to attend Cub Creek Science Camp in Rolla, Missouri Summer 2012

GSTA Awards Banquet

Hope to see you there!

GA Aquarium Oceans Ballroom



Special Guest Speaker – Dr. Stephen Pruitt

Cocktail Attire Requested

Tickets Available at Registration. Ticket includes complimentary admission to the GA Aquarium.



GSTA is please to offer an interesting selection of field trips for this year's conference. Space is limited, so reserve your ticket early. Field trip participants should meet at the field trip table at least <u>15 minutes before the scheduled trip</u> <u>departure time</u>.

	Thursday, February 16, 2012
Problem Solving with the Light Microscope Date: Thursday, February 16, 2012 Time: 8:00-1:15 Cost: Free Group limit: 14 Transportation: Included	This 4 hour workshop requires travelling to MVA Scientific Consultants <u>www.mvainc.com</u> a state of the art microscopy laboratory that uses light and electron microscopy to solve problems in research and industry located in Duluth Georgia. A continental breakfast will be provided. Topics will include: 1) Making temporary and permanent specimen mounts for observation and comparison to reference materials, 2) Proper use of the light microscope by maximizing illumination and alignment, 3) Converting a transmitted light microscope into a polarizing light microscope for under \$20, 4) An introduction to attaching video and still cameras to the microscope to create photographic documentation for classroom projects. Teachers attending will take home a micro-aquarium that can be used to observe pond life with the microscope, permanent mounts that they create during the workshop and practical exercises that they can use in the classroom to promote student interest in microscopy and problem solving using the scientific method.
Atlanta Motor Speedway Date: Thursday, February 16, 2012 Time: 9:00–1:00 Cost: \$20 Group limit: 56 Transportation: Included	Do you love NASCAR? Then you'll love this tour of the Atlanta Motor Speedway where you will learn about the science behind auto racing. Walk through pit row. Get a grand view of the track from the corporate suites. Depending on the track schedule, see racecars in action or take a high-speed run around the racetrack in one of the speedway vans - as a passenger of course. Rev up your science lessons with high-speed activities for your classroom.
The Geology of Downtown Atlanta Date: Thursday, February 16, 2012 Time: 12:00–2:00 Cost: Free Group limit: 20 Transportation: Walking tour	Mixed among the concrete, steel and glass of Atlanta's buildings, one can find great examples of the use of natural stone. Architects often try to make their designs memorable by using natural materials as accents and attention- grabbers. Join Bill Waggener, President of the Georgia Mineral Society on a walk through the streets of downtown Atlanta. Examine some of the city's historic and modern structures exploring the geology of the urban environment. Dress in layers for the weather. Bring your camera and a lunch.
Atlanta Botanical Garden Date: Thursday, February 16, 2012 Time: 1:45–5:00 Cost: \$12 Group limit: 56 Transportation: Included	Come explore the Atlanta Botanical Garden. The garden offers over 30 acres of unmatched beauty in the heart of Atlanta, featuring breathtaking gardens, woodlands and more. Stimulate your senses as you stroll through one of the world's largest permanent orchid displays. View rare and endangered plants from tropical rain forests and desert regions. Take delight in the interactive children's garden. Walk high above the trees canopy at the Kendeda Canopy walk, the only tree canopy-level walkway of its kind in the United States.

GSTA Field Trips

Zoo Atlanta, Behind-the-Scenes Tour: Animal Nutrition Kitchen & Zoo Tour Date: Thursday, February 16, 2012 Time: 2:30-6:00 Cost: \$23 Group Limit: 25 Transportation: Included Discover what zoo animals love to eat! Learn how zoologists prepare animal diets and see some of the unusual treats the animals enjoy. After the "kitchen tour", take a stroll through the zoo grounds and exhibits. Stand eye-to-eye with nearly 1,000 of the world's most amazing animals at one of Georgia's most beloved destinations. Zoo Atlanta is one of only four zoos in the U.S. with giant pandas. It has one of the nation's most recognized collections of great apes. Zoo Atlanta is a global center of excellence for the care and reproduction of vanishing amphibians and reptiles.

Friday, February 17, 2012

Georgia Tech Campus and Robert C. Williams Paper Museum Date: Friday, February 17, 2012 Time: 9:30–1:00 Cost: \$17 Group limit: 25 Transportation: Included	Follow the history of papermaking from its beginnings in ancient China to the technologically advanced processes of today! Discover the art, science, history, and geography of paper and papermaking. This field trip experience includes a guided tour of the Robert C Williams Paper Museum, as well as a hands-on papermaking workshop. In addition to learning the process of papermaking, participants will tour portions of the beautiful Georgia Tech campus including the Georgia Tech Library, the Clough Learning Commons, and science labs for chemistry, biology, and physics. Dress for comfort and for the weather since a portion of the trip will be outside.
Yerkes National Primate Research Center, Emory University Date: Friday, February 17, 2012 Time: 1:30-6:00 Cost: \$29 Group Size: 27 Transportation: Included	Learn how scientists at Emory University's Yerkes National Primate Research Center are seeking ways to develop vaccines for infectious and noninfectious diseases, treat drug addiction, unlock the secrets of memory, determine how the interaction between genetics and society shape who we are, and advance knowledge about the evolutionary links between biology and behavior. The tour begins at the Yerkes Main Center on the Emory University campus. Meet researchers, tour biomedical research laboratories, and visit with capuchin monkeys. Next, travel to the Yerkes Field Station in Lawrenceville, where scientists conduct behavioral studies of primate social groups. The outdoor tour will allow visitors to talk with Yerkes researchers and observe three non-human primate species: chimpanzees, rhesus macaques, and sooty mangabeys. Portions of the tour will be outdoors; dress appropriately for the weather.



Fernbank Natural History Museum Date: Friday, February 17, 2012 Time: 2:30–5:30 pm Cost: \$22 Group limit: 56 Transportation: Included Fernbank Museum isn't just another museum-it's a journey to another time and place. A visit to the Museum brings a unique opportunity to explore cultural treasures, experience the thrill of a film in the IMAX[®] Theatre, enjoy science interactives and marvel at the largest dinosaurs ever discovered. And thanks to a stunning line-up of special exhibitions, special events for adults, families and children, and ground-breaking research projects-there's always something new to discover! Join Fernbank educators for an in-depth discussion of how to integrate the museum's exhibitions and films into your classroom curriculum. Also, learn more about the cross-disciplinary approach that will help you address science, social studies, language arts and math standards.

Georgia Aquarium, Behind-the-	The Georgia Aquarium offers an amazing view of some of the world's most
Scenes Tour	interesting aquatic creatures. GSTA members can get a behind-the-scenes tour
Date: Friday, February 17, 2012; 3:00-	of some of the aquariums most popular exhibits. This tour has been designed
6:00	specifically for GSTA members. Get close to the stars of the aquarium (the
Cost: \$15	animals) and learn what it takes to keep the world's largest aquarium running.
Group limit: Unlimited	Participants may walk or provide their own transportation to the aquarium.
Transportation: On your own.	Maps will be available at the field trip table.

Saturday, February 18, 2012

Fossil Dig Experience with the Tellus Science Museum Date: Saturday, February 18, 2012 Time: 8:30–5:30 Cost: \$59, Lunch included Group Size: 27 Transportation: Included	Travel back in time as you search for and discover fossils with geology experts from the Tellus Science Museum. The plant and animal fossils are yours to keep and share with your students. This all-day excursion will take participants to Durham Coal Mine and Lula Lake Land Trust, to collect plant fossils from the Pennsylvania period. Next, travel to Trenton, GA to collect marine life fossils from the Ordovician period. This trip involves moderate physical effort including activities such as hiking, lifting, carrying/backpacking tools, supplies and specimens, and climbing up and down steep slopes. The areas that will be visited are safe, but can be physically demanding. Please dress comfortably. Wear layers of weather appropriate clothing that will not be an issue to get worn, torn or dirty. Hats, sunglasses, gloves, sunscreen, and hiking boots or sturdy shoes are suggested. <u>Suggested equipment and supplies to bring:</u> Container (exbucket, GSTA bag, or backpack), plastic bags, newspaper, and permanent marker for labeling and carrying specimens; digging tools such as a flat screwdriver, putty knife, or garden trowel; small hammer; safety goggles. Lunch is included. <u>Reserve your lunch choice at the field trip table by noon on</u> <u>Friday.</u>
Georgia Aquarium, Behind-the- Scenes Tour Date: Saturday, February 18, 2012; 9:00-11:00 Cost: \$15 Group limit: Unlimited Transportation: On your own.	The Georgia Aquarium offers an amazing view of some of the world's most interesting aquatic creatures. GSTA members can get a behind-the-scenes tour of some of the aquariums most popular exhibits. This tour has been designed specifically for GSTA members. Get close to the stars of the aquarium (the animals) and learn what it takes to keep the world's largest aquarium running. Participants may walk or provide their own transportation to the aquarium.

Thursday – 8:00-9:00 No Sessions Exhibit Hall Open – Visit our wonderful vendors! Several of our wonderful vendors have donated door prizes to be given PASSPORT away. To be included in the prize drawing, pick up your GSTA Vendor Passport in the Exhibit Hall. As you visit with the various vendors, have them give your passport a stamp. Once you have at least 15 stamps, drop your passport in the door prize 0 box at the Exhibit Hall Registration Desk, by 3:00 PM on Friday. A Door Prize drawing will be held on Friday, Feb. 17 @ 4:30 in the 0 Exhibit Hall . Must be present to win. Thursday – 9:00-9:50 Sessions **Day:** THURS, 2/16 Time: 9:00-9:50 Level: K-8 Room: Montreal Title: Science matters: Materials, Assessments, Techniques, Technology, Experiences, **Research, Strategies with GYSTC** Presenters: Julia Celebi, Angela Guilford, Steve Rainey Description: The regional coordinators of 13 GYSTC's will present a wide range of best practices activities in all areas of K-8 science. Activities, materials, and pedagogical strategies will be modeled. **Content:** General Science Time: 9:00-9:50 **Day:** THURS, 2/16 Level: K-8 Room: Manila Title: Georgia 4-H Environmental Education: we have a fish (print) for you. Presenters: Donna Stewart, Paul Coote, Dawn Zenkert Description: Experience hands-on learning with the staff of the Georgia 4-H Environmental Education Program. Learn about the exciting programs available while creating a fish print shirt to take home. **Content:** Life Science **Day:** THURS, 2/16 Time: 9:00-9:50 Level: 6-12 Room: Grand Hall East B **Title: Forensics on a Shoe String Budget** Presenters: Anthony Bertino, Patricia Bertino **Description:** Increase interest/knowledge in math, science, literacy, technology. Topics: evidence, fingerprinting, impressions and making a comparison microscope. Receive presenters' textbook Forensic Science: Fundamentals & Investigations and free CD of resources. **Content:** Interdisciplinary **Day:** FRI, 2/17 Time: 8:00-8:50 Level: 6-12 Room: Hong Kong Title: Infusing engineering concepts into the national science curriculum to improve student understanding and applications Presenters: Randy Emert **Description:** We transform the world around us by the use of machines. You can teach your students to program manufacturing machines using computer numerical control software downloaded for free. **Content:** General/Engineering

Day: THURS, 2/16 Ti	me: 9:00-9:50	Level: K-8	Room: Vancouver
Title: Surviving the AYP C	<u>runch</u>		
Presenters: Lynn Larsen			
Description: Are you and	your students ready	y for AYP? Lear	n the past, present and future standards for
AYP survival. Understand	ing the scaffolding of	of the standards	s is the key!
Content: General Science			
Day: THURS, 2/16 Ti	me: 9:00-9:50	Level: 6-12	Room: Grand Hall East C
Title: Energy Transfer: Wa	aves, Sound and Lig	<u>zht</u>	
Presenters: Peggy Bailey	-		
Description: In this series	of activities from a	new LAB-AIDS®	kit, students produce both longitudinal and
transverse mechanical wa	ves and compare th	neir similarities	and differences. As an introduction,
students use water and sp	orings to observe wa	avelength and f	requency and discover the relationship
between them. They then	read about the wa	ve nature of dif	ferent energy forms, including light and
sound, and are introduced	d to the fundament	al features com	mon to all waves.
Content: Physical Science			
Day: THURS, 2/16 Ti	me: 9:00-9:50	Level: High	Room: Cairo
Title: Centers in High Scho	ool Science? Yes, T	hey Can Work!	
Presenters: Jo-ne Bourass	а		
Description: Using differe	nt centers or statio	ns of learning ir	the high school science classroom can
		•	. This presentation will give participants
		-	h different learning centers and will model
various management stra	•		
Content: General Science	-		
Day: THURS, 2/16 Ti	me: 9:00-9:50	Level: High	Boom: In nan
Title: Surviving in a Stand	ards-Based High So	-	
Presenters: Pamela Crawf	- /		
Description: U R	at a men diter		in the grouping, and self-
assessment stra	s in thin ma		rds-based high school science classroom.
Content: Interd pinary		iery in a standar	
	me: 9:00-9:50	Level: 6-12	Room: Roswell
Title: The Madison Count			
Presenters: Andy Felt, Cin			
	•	ram usas soil ar	nd water quality projects for
•	, .		evices to engage in hands-on activities that
demonstrate student wor	•		evices to engage in hands-on activities that
Content: Interdisciplinary			
Day: THURS, 2/16 Ti	me: 9:00-9:50	Level: 6-12	Room: University
Title: Exploring Exploring			Room. Oniversity
		II Desigii	
Presenters: Annette Pears		" NIACA/~ NA	numission and our evidence the (Aliceian
-			ry mission, and experience the "Mission
		m science with	STEM activities, exploring the process of
mission design. Free mate			
Content: Earth/Space Scie	ence		

Day: THURS, 2/16 Time: 9:00-9:50 Level: K-12 Room: Spring
Title: Teaching Writing in the Science Class
Presenters: Ollie Manley
Description: Teachers teach science to students who struggle with writing. This workshop will focus on
differentiated instruction with emphasis on writing.
Content: General Science
Day: THURS, 2/16 Time: 9:00-9:50 Level: 6-12 Room: Grand Hall East A
Title: Distance Learning at the Georgia Sea Turtle Center
Presenters: Teddy Ivey, Rebecca Funk, Leandra Darden
Description: The Georgia Sea Turtle Center is extending our "flippers" beyond the coast! Come learn
how we can bring sea turtles into YOUR classroom through our NEW distance learning programs!
Content: Life Science
Day:THURS, 2/16Time: 9:00-9:50Level: MiddleRoom: Piedmont
Title: Interdisciplinary Marine Science Instruction through Student Centered Service Learning Projects
Presenters: Timothy Goodale
Description: This paper presentation provides formative findings of a United States Department of
Education funded project aimed at broadening in-service teacher content knowledge in marine sciences
and environmental sustainability through curricular design and K-8 classroom application of meaningful service-learning projects (S-L).
Content: Interdisciplinary
content. Interdisciplinary
Day:THURS, 2/16Time: 9:00-9:50Level: HSRoom: International Ballroom
Title: Skull Evolution
Presenters: Norm Thompson
Description: Come join a group of teachers interested in teaching human evolution using replica skulls
and lots of other lessons to share.
Content: Biology
Thursday – 10:00-10:50 Sessions
Day: THURS, 2/16 Time: 10:00-10:50 Level: K-12 Room: Montreal
Title: Technology Performance Learning Tasks - K-12
Presenters: Todd Nickelsen
Description : Teachers will gain an understanding of a variety of technology applications that can be used
to enhance science teaching and learning.
Content: General Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: Elementary Room: Manila
Day:THURS, 2/16Time: 10:00-10:50Level: ElementaryRoom: ManilaTitle:Creative Writing in Science
Presenters: Kristen Lyle, Andrea Post
Description: Join us for writing in science. Learn strategies for teaching creative writing within the
science curriculum. Leave the presentation with writing topics, writing rubrics, and writing organizers
Content: Interdisciplinary

THE ENCLINE VOLUME	Time: 10:00-10:50 Ilary Activities to Get Ki	Level: K-8	Room: Piedmont	
Presenters: Julie Celeb		dis Taiking Science		
		asaarch basad affar	tive strategies to help in the	
•	•			vition
	•	ts in the science cla	ssroom through interactive acti	vities.
Content: General Scier	nce			
	T :	Laurali C 12		
Day: THURS, 2/16	Time: 10:00-10:50	Level: 6-12	Room: Vancouver	
Title: Science & The Co				<u>ISSA</u>
Presenters: Sally Creel			Georgia science S	Supervisors Association
			ew Common Core standards du	-
	•	teracy standards fo	r the CCGPS can easily be incorp	orated
into everyday instructi				
Content: General Scier	nce/Interdisciplinary			
Day: THURS, 2/16	Time: 10:00-10:50	Level: K-5	Room: Singapore	
<u> Title: Rocket Science –</u>	- It's Elementary!			
Presenters: Pepper Mi	isinco, Pam Googe, Mela	anie Peterson, Lisa	Whelan, Tammy Shiflett	
Description: Participar	nts will be involved in 4	rotations experienc	ing hands-on activities designed	l to
enhance earth science	space standards in Kinc	lergarten through 5	th grade.	
Content: Earth Science		0 0	C C	
Day: THURS, 2/16	Time: 10:00-10:50	Level: K-12	Room: Hong Kong	RARTMENT
•	Powerful Teachers - SLI	DS	0 0	(A)
Presenters: Hubert Be			(TTTE OF
		gths and weakness	es of every student on your Ros	ter?
		-		
• •	Statewide Longitudinal [Jata System (SUDS)	το μπωμεία κανάεν επίμα ς ποιάπτ	ial Now
Find out how use the S	Statewide Longitudinal [will find up to six years			
Find out how use the S at your fingertips, you	will find up to six years	worth of information	on on your students (Assessmen	
Find out how use the S at your fingertips, you Enrollment, Attendanc	will find up to six years ce, Previous Class Grade	worth of information	on on your students (Assessmen	
Find out how use the S at your fingertips, you Enrollment, Attendanc	will find up to six years ce, Previous Class Grade	worth of information	on on your students (Assessmen	
Find out how use the S at your fingertips, you Enrollment, Attendanc Content: General Scier	will find up to six years ce, Previous Class Grade nce	worth of informations, Instructional Prog	on on your students (Assessmen grams, etc).	
Find out how use the S at your fingertips, you Enrollment, Attendanc Content: General Scier Day: THURS, 2/16	will find up to six years ce, Previous Class Grade nce Time: 10:00-10:50	worth of informations, Instructional Prog Level: K-12	on on your students (Assessmen grams, etc). Room: Spring	
Find out how use the S at your fingertips, you Enrollment, Attendanc Content: General Scier Day: THURS, 2/16 Title: What is Science	will find up to six years ce, Previous Class Grade nce Time: 10:00-10:50 Olympiad and how do I	worth of informations, Instructional Prog Level: K-12	on on your students (Assessmen grams, etc). Room: Spring	
Find out how use the S at your fingertips, you Enrollment, Attendanc Content: General Scier Day: THURS, 2/16 Title: What is Science Presenters: Kelly Price	will find up to six years ce, Previous Class Grade nce Time: 10:00-10:50 Olympiad and how do I	worth of informations, Instructional Prog Level: K-12 start at team at m	on on your students (Assessmen grams, etc). Room: Spring <u>y school?</u>	t,
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Day: THURS, 2/16	Time: 10:00-10:50 y Field Research: Discove	Level: 6-12	Room: Cairo
Presenters: Jonathar	-	ercire.org	
		lace authentic field	research. See how photographing,
			ts real science and help serious
environmental resea		in teach your studen	ts real science and help schous
Content: Biology (Lif			
content. Diology (Li	c Science)		
Day: THURS, 2/16	Time: 10:00-10:50	Level: K-5	Room: Roswell
	Music to Contextualize t	he Science Experien	ces of Urban Elementary School
<u>Students</u>			
	a Cone, Charlease Kelly-J		
	-		th a strategy, e.g., hip hop music, that
	icle to enhance the scien	ce experiences of ur	ban youth.
Content: General Sci	ence		
Day: THURS, 2/16	Time: 10:00-10:50	Level: High	Room: Inman
•	ce - Going beyond textbo	U	
Presenters: Rebecca		JUN JUICHUC	
		as a toachar to show	students the true applicability of
•	viously studied. Handout		
Content: Interdiscipl	•		1263!
content: interdiscipi	inary		
· · · · · · · · · · · · · · · · · · ·	Time: 10:00-10:50	Level: 6-12	Room: University
Day: THURS, 2/16	Time: 10:00-10:50		Room: University ed STEM mineral kit
Day: THURS, 2/16	Time: 10:00-10:50 eaching mineral properti		
Day: THURS, 2/16 Title: Learning and to Presenters: Dion Ste	Time: 10:00-10:50 eaching mineral properti wart	es using a self-guide	ed STEM mineral kit
Day: THURS, 2/16 Title: Learning and to Presenters: Dion Ste Description: Using S	Time: 10:00-10:50 eaching mineral properti wart	es using a self-guide	ed STEM mineral kit
Day: THURS, 2/16 Title: Learning and to Presenters: Dion Ste Description: Using S mineral ID flow chart	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle	es using a self-guide	ed STEM mineral kit
Day: THURS, 2/16 <u>Title: Learning and to</u> Presenters: Dion Ste Description: Using S ⁻ mineral ID flow chart Content: Earth/Spac	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle e Science	es using a self-guide its, participants will to teach mineral pro	ed STEM mineral kit
Day: THURS, 2/16 <u>Title: Learning and to</u> Presenters: Dion Ste Description: Using S ⁻ mineral ID flow chart Content: Earth/Space Day: THURS, 2/16	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle e Science Time: 10:00-10:50	es using a self-guide	ed STEM mineral kit
Day: THURS, 2/16 <u>Title: Learning and t</u> Presenters: Dion Ste Description: Using S ⁻ mineral ID flow chart Content: Earth/Spac Day: THURS, 2/16 <u>Title: Making the Me</u>	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k with a crossword puzzle e Science Time: 10:00-10:50 ost of the Periodic Table	es using a self-guide its, participants will to teach mineral pro	ed STEM mineral kit
Day: THURS, 2/16 <u>Title: Learning and tr</u> Presenters: Dion Ste Description: Using S ⁻ mineral ID flow chart Content: Earth/Spac Day: THURS, 2/16 <u>Title: Making the Me</u> Presenters: Betsy Sa	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle e Science Time: 10:00-10:50 ost of the Periodic Table nford, Dianne Hough	its, participants will to teach mineral pro Level: Middle	ed STEM mineral kit learn a teaching method integrating a operties Room: Techwood
Day: THURS, 2/16 Title: Learning and to Presenters: Dion Ste Description: Using S mineral ID flow chart Content: Earth/Space Day: THURS, 2/16 Title: Making the Mo Presenters: Betsy Sa Description: Teacher	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle e Science Time: 10:00-10:50 ost of the Periodic Table nford, Dianne Hough rs will participate in differ	its, participants will to teach mineral pro Level: Middle	ed STEM mineral kit learn a teaching method integrating a operties Room: Techwood
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Day: THURS, 2/16 <u>Title: Learning and tr</u> Presenters: Dion Ste Description: Using S mineral ID flow chart Content: Earth/Space Day: THURS, 2/16 <u>Title: Making the Me</u> Presenters: Betsy Sa Description: Teacher that help 8th grade s Content: Physical Scie Day: THURS, 2/16 <u>Title: Hands-On Scie</u> Presenters: Carolina Description: Bring ex	Time: 10:00-10:50 eaching mineral properti wart TEM generated mineral k t with a crossword puzzle e Science Time: 10:00-10:50 ost of the Periodic Table nford, Dianne Hough rs will participate in differ tudents understand the f ence Time: 10:00-10:50 nce with Classroom Critt Teaching Partner scitement and interest int	its, participants will to teach mineral pro- Level: Middle rentiated lessons wit Periodic Table of the Level: K-8 ers to your classroom by	ed STEM mineral kit learn a teaching method integrating a operties Room: Techwood th visual organizers and inquiry labs e Elements. Room: Grand Hall East A
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Day: THURS, 2/16 Time: 10:00-10:50 Level: K-12 Room: Grand Hall East B
Title: Exciting news from Project Learning Tree!!
Presenters: Jan Kent
Description: New ModuleFOCUS ON FORESTS!! This new secondary module is filled with new
activities of discovery about our natural resources.
Content: Life Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: High Room: Grand Hall East D
Title: Physics Reveals Truth
Presenters: Steven Thedford
Description: Overall, the NanoTeach presentation will demonstrate to high school science teachers how
to integrate nanotechnology into their classrooms in a way that will deepen student understanding of
science concepts. of the Georgia Performance Standards
Content: General Science
Thursday – 10:00-11:50 Sessions Day: THURS. 2/16 Time: 10:00-11:50 Level: K-12 Room: International Ballroom
Day: THURS, 2/16 Time: 10:00-11:50 Level: K-12 Room: International Ballroom Title: Science Trifecta: Effectively Combining Foldables®, Children's Literature, and Science Curriculum
Standards
Presenters: Nancy Wisker
Description: Participants will learn by doing in this fast-paced workshop aimed at teaching science
curriculum via children's literature and 3-D graphic organizers (Foldables [®]). Cut, fold, and more as you
make & take.
Content: General Science
Thursday – 11:00-10:50 Sessions
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila
Day: THURS, 2/16Time: 11:00-11:50Level: ElementaryRoom: ManilaTitle: Don't Fear! Young Learners + Hands On = Success!
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Room: Manila
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Room: Manila
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way!
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver <u>Title: Connecting Science with the Whole Curriculum</u> GSSA
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver <u>Title: Connecting Science with the Whole Curriculum</u> Presenters: Karol Stephens Content: Science
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila <u>Title: Don't Fear! Young Learners + Hands On = Success!</u> Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver <u>Title: Connecting Science with the Whole Curriculum</u> Presenters: Karol Stephens Content: to standards across the curriculum
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Title: Connecting Science with the Whole Curriculum Presenters: Karol Stephens Science students and provides for more retention of skills and
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Cost Cost Cost Cost Cost Cost Cost Cost
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Title: Connecting Science with the Whole Curriculum Presenters: Karol Stephens Science students and provides for more retention of skills and
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Filte: Connecting Science with the Whole Curriculum Presenters: Karol Stephens Description: Use integrating experiences to connect science content to standards across the curriculum and teach in a meaningful way that excites students and provides for more retention of skills and content. Content: General Science/Interdisciplinary
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Content: General Science with the Whole Curriculum Room: Vancouver Presenters: Karol Stephens Content: on a meaningful way that excites students and provides for more retention of skills and content. Content: General Science/Interdisciplinary Day: THURS, 2/16 Time: 11:00-11:50 Level: K-12 Room: Inman
Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Filte: Connecting Science with the Whole Curriculum Presenters: Karol Stephens Description: Use integrating experiences to connect science content to standards across the curriculum and teach in a meaningful way that excites students and provides for more retention of skills and content. Content: General Science/Interdisciplinary
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Day: THURS, 2/16 Time: 11:00-11:50 Level: Elementary Room: Manila Title: Don't Fear! Young Learners + Hands On = Success! Presenters: Jessie Kelly Description: Learn strategies for using inquiry-based, hands-on science with even the youngest elementary students in a budget friendly, safe, content rich, and enormously successful way! Content: General Science Content: General Science with the Whole Curriculum Presenters: Karol Stephens Content: of standards across the curriculum and teach in a meaningful way that excites students and provides for more retention of skills and content. Content: General Science/Interdisciplinary Day: THURS, 2/16 Time: 11:00-11:50 Level: K-12 Room: Inman Title: The Missing Link: Inquiry Helps Resistant Students Study Evolution! Presenters: Lee Meadows Presenters: Lee Meadows

Day: THURS, 2/16	Time: 11:00-11:50	Level: K-5	Room: Montreal	• * ®
Title: GYSTC AIMS to I				GYSTC
	mbers, Debbie Stuckey			GEORGIA YOUTH SCIENCE & TECHNOLOGY CENTERS Strand
			aster multiple standards. Min	
	our effectiveness by ch	loosing AIMS with G	SYSTC. Remember, GYSTC AIN	/IS to
please!				
Content: General Scient	nce			
Day: THURS, 2/16	Time: 11:00-11:50	Level: K-12	Room: Hong Kong	
Title: Teaching Fish				
	nock, Kim Morris-Zarnek			
	"science cafe" discussio	n of whale shark an	d manta ray training with a G	eorgia
Aquarium biologist.				
Content: General Scient	nce			
Day: THURS, 2/16	Time: 11:00-11:50	Level: High	Room: Cairo	
-	ience: Investigating gen	netically modified o	<u>rganisms</u>	
Presenters: Samantha	Andrews			
Description: This activ	ity will explore and ider	ntify commonly con	sumed genetically modified p	lants using
a mock gel electropho	resis exercise.			
Content: Life Science				
Day: THURS, 2/16	Time: 11:00-11:50	Level: Middle	Room: Singapore	
Title: Enhancing Scien	ce Understanding Thro	ugh Literacy Strate	gies	
	arr, Ruth Collins, Jennife			
•	•		acy strategies to increase you	
-	•	al thinking skills, fos	ster motivation, and create st	ronger
readers, writers, and s	•			
Content: Interdisciplin	lary			
THURS, 2/16	Time: 11:00-11:50	Level: High	Room: Spring	
<u>Title: Transitioning to</u>	the New AP Biology Cu	<u>ırriculum</u>		
Presenters: Jeremy Pe	acock			
Description: Learn abo	out an evolution-based	approach to the nev	w curriculum and a technolog	y-based
-	ers and protein functior	 Come prepared t 	o share your ideas.	
Content: Life Science				
Day: THURS, 2/16	Time: 11:00-11:50	Level: 6-12	Room: Grand Hall Eas	t A
•	ext Generation Framew	vork		
Presenters: Carolina T				
	•	ities that integrate S	STEM and language arts to inv	vigorate
your classroom.		C C		-
Content: General Scien				
content. General Scie	nce			
Content. General Scie	nce			
Content. General Scie	nce			
content. General Scie	nce			

Day: THURS, 2/16 Title: Scholar Chemist	Time: 11:00-11:50	Level: 6-12	Room: Grand Hall East B
Presenters: George St Description: Feel the h	ckel leat and join the fun in c	our chemistry lab v	vith fast, easy, and safe chemical nd chemical stochiometry lab activities.
Day: THURS, 2/16 <u>Title: Animal Adaptati</u> Presenters: Linda Bish Description: How anin the ecosystem. Content: Biology (Life	op, Tom Kopp nals have adapted to the	Level: K-8 ir environment an	Room: Grand Hall East C
Presenters: Francine G Description: Are you v	Time: 11:00-11:50 Feaching with black & w Gebus, Erin Delahunty, La vild about pandas? This i ties for the classroom th	ani Schoedler is the workshop fo	Room: Grand Hall East D r you. Teachers will discover great students panda fans.
Presenters: Donna Bar Description: This sessi the content, process, a	on will outline recomme and product through for e session will include str	nded differentiation mative assessment	Room: Techwood on strategies based on differentiating ts, RAFTs, tiered tasks, centers and e the differentiated classroom.
•	rales ar samples can be share tion to borrow samples		Room: University cross the nation. This is an official NASA the Apollo lunar samples into your
	Thursday –	12:00-12:50 S	essions
Presenters: Lisa Alexa Description: Participar	nts will learn how to imp nting the nouns and verb	rove instructional	Room: Vancouver

Day: THURS, 2/16	Time: 12:00-12:50	Level: K-2	Room: Montreal
Titla, Taaching Scienc	ce with Children's Literat		Room: Montreal
		<u>.ure n-z</u>	GYST
Presenters: Angela Gu	· · ·	randos with porticula	descaryom sci i rechinologications for grade two Strand
•		-	r applications for grade two
	will include a variety of s	science trade books an	d the Picture Perfect teacher
resource books.			
Content: General Scie	ince		
Day: THURS, 2/16	Time: 12:00-12:50	Level: K-8	Room: Grand Hall East C
	ve Classroom Chemistry	- It's All About the Ele	ments!
Presenters: Cheryl Fo			
-	_		om management strategies, which
immediately empowe	ers your classroom to inc	rease academic perform	mance, decrease discipline
challenges, and gain p	parental support! Take b	ack the Time To Teach	!
Content: Interdiscipli	nary		
Day: THURS, 2/16	Time: 12:00-12:50	Level: 6-12	Room: Spring
Title: Best Practices: I	Implementing a "Flipped	d" Science Classroom	
Presenters: Jennifer D	Douglass, Jennifer Hulgar	n, Meredith Wood	
Description: We will a	discuss the 'best practice	s' we have developed	for implementing and managing a
	•		ine discussion boards, online
testing, and content v		•	
Content: General			
Day: THURS, 2/16	Time: 12:00-12:50	Level: Elementary	Room: Manila
<u> Title: Who Polluted t</u>	he Chattahoochee?		
Presenters: Jamie Lat	timore, Catherine Leftwi	ch	
Description: How dov	you help students to und	lerstand how the actio	ns of just a few can affect the lives
of many? In this inter	active session we will sha	are a hands on demons	stration about river pollution and
aive a variate of acces	sment and extension op	tions to connect this so	cience topic to a variety of other
give a variety of asses			1 /
give a variety of asses subject areas.			. ,
subject areas.			. ,
subject areas. Content: Interdiscipli	nary		· ·
Subject areas. Content: Interdisciplin Day: THURS, 2/16	nary Time: 12:00-12:50	Level: High	Room: Cairo
Subject areas. Content: Interdisciplin Day: THURS, 2/16 <u>Fitle: Using Inquiry to</u>	nary Time: 12:00-12:50 D Demonstrate Enzyme F	•	· ·
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Fitle: Using Inquiry to Presenters: Amy Slacl	nary Time: 12:00-12:50 Demonstrate Enzyme F k	Function in Potato	Room: Cairo
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se	nary Time: 12:00-12:50 Demonstrate Enzyme F k ee an inquiry twist on the	Function in Potato	Room: Cairo gen peroxide lab! We will conduct a
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se lab to demonstrate er	nary Time: 12:00-12:50 D Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig	Function in Potato	Room: Cairo gen peroxide lab! We will conduct a
Subject areas. Content: Interdisciplin Day: THURS, 2/16 <u>Title: Using Inquiry to</u> Presenters: Amy Slach Description: Come se	nary Time: 12:00-12:50 D Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig	Function in Potato	Room: Cairo gen peroxide lab! We will conduct a
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se ab to demonstrate er Content: Biology (Life Day: THURS, 2/16	Time: 12:00-12:50 D Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig Science) Time: 12:00-12:50	Function in Potato old potato and hydrog gn experiments. Great Level: Middle	Room: Cairo gen peroxide lab! We will conduct a
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Fitle: Using Inquiry to Presenters: Amy Slach Description: Come se ab to demonstrate er Content: Biology (Life Day: THURS, 2/16 Fitle: Utilizing a garde	Time: 12:00-12:50 Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig e Science) Time: 12:00-12:50 en to enhance science ar	Function in Potato old potato and hydrog gn experiments. Great Level: Middle nd math learning	Room: Cairo gen peroxide lab! We will conduct a for CP biology.
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se lab to demonstrate er Content: Biology (Life Day: THURS, 2/16 Title: Utilizing a garde	Time: 12:00-12:50 D Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig Science) Time: 12:00-12:50	Function in Potato old potato and hydrog gn experiments. Great Level: Middle nd math learning	Room: Cairo gen peroxide lab! We will conduct a for CP biology.
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se lab to demonstrate er Content: Biology (Life Day: THURS, 2/16 Title: Utilizing a garde Presenters: Julie Self,	Time: 12:00-12:50 Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig e Science) Time: 12:00-12:50 en to enhance science an Myffy Hopkins, Rachel A	Eunction in Potato old potato and hydrog gn experiments. Great Level: Middle nd math learning Ammirati	Room: Cairo gen peroxide lab! We will conduct a for CP biology.
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se lab to demonstrate er Content: Biology (Life Day: THURS, 2/16 Title: Utilizing a garde Presenters: Julie Self, Description: Discover	Time: 12:00-12:50 Demonstrate Enzyme F k e an inquiry twist on the nzyme function and desig Science) Time: 12:00-12:50 en to enhance science ar Myffy Hopkins, Rachel A how science and math la	Eunction in Potato e old potato and hydrog gn experiments. Great Level: Middle nd math learning Ammirati earning can be enhanc	Room: Cairo gen peroxide lab! We will conduct a for CP biology. Room: Singapore
Subject areas. Content: Interdisciplin Day: THURS, 2/16 Title: Using Inquiry to Presenters: Amy Slach Description: Come se lab to demonstrate er Content: Biology (Life Day: THURS, 2/16 Title: Utilizing a garde Presenters: Julie Self, Description: Discover	Time: 12:00-12:50 Demonstrate Enzyme F k te an inquiry twist on the nzyme function and desig Science) Time: 12:00-12:50 en to enhance science and Myffy Hopkins, Rachel A how science and math le ods. Garden-learning is a	Eunction in Potato e old potato and hydrog gn experiments. Great Level: Middle nd math learning Ammirati earning can be enhanc	Room: Cairo gen peroxide lab! We will conduct a for CP biology. Room: Singapore ed with garden-themed, problem-

Title: Using student led show- Presenters: Becky Bundy	and-tell for engagen the "Minute of Chen	nistry" to get your s	Room: Inman students to start class while you
Title: Light's Properties Using Presenters: Ann Robinson, Sha	<u>Your Own Eye</u> ron Kirby, Dave Tode perties such as reflec	ction, refraction, dis	Room: Roswell spersion, absorption, polarization and exciting for students.
Title: Family Science Nights (gr Presenters: Stephanie Shultz Description: You will learn how	r <mark>ades K-5)</mark> v to set up a success	•	Room: Grand Hall East A Night for your classroom, school or ple of standards-based games and
Title: The Naturalist's Journal: Presenters: Tom Howick, Joe D	Teaching Tool to Sta Virnberger sion for teachers wil	-	Room: Grand Hall East B ent to use the naturalist's journal as a
Title: Trivial pursuit, or large p Presenters: Marion Reeves, Jer Description: Teaching biology	icture Biology? nnifer Lance conceptually allows s	students to connect	Room: Piedmont t the terminology to their learning. operiences that lead to conceptual
Day: THURS, 2/16 Time: Title: Science with Toys Presenters: Frank Mann, Carl E Description: This workshop foo magnetism, motion, sound, ele Content: General Science	Davis cuses on the use of to	-	-

Day:THURS, 2/16Time: 12:00-12:50Level: MiddleRoom: International Ballroom <u>Title:All Aboard!Come Along on the Interactive Science Voyage</u> Presenters:Audrelyn Watkins, Antione Ford, Julie HodgesDescription:Come join us in our interactive world of 8th grade Physical Science where we will create
sunsets, generate power in a house, and explore sports. Content: Physical Science
Day: THURS, 2/16 Time: 12:00-12:50 Level: K-8 Room: Grand Hall East D <u>Title: Differentiate for exceptional students</u> Presenters: Felicia Poole Presenters: Felicia Poole Description: Differentiate instuctions to middle grade science students. Explain how to reach students that are SEBD and learning disabilities Content: General Science
Thursday – 1:00-1:50 Sessions
Day: THURS, 2/16 Time: 1:00-1:50 Level: High Room: Vancouver <u>Title: Simple Methods for Improving Student Performance and Motivation</u> Image: Constant State Image: Con
Day: THURS, 2/16 Time: 1:00-1:50 Level: 3-5 Room: Montreal <u>Title: Teaching Science with Children's Literature 3-5</u> Presenters: Suzanne Bellflower, Elaine Whitten Suzanne Bellflower, Elaine Whitten Description: Resources for this session will include a variety of science trade books and the Picture Perfect teacher resource books. Hands on activities will be paired with books to meet state and national standards. Content: General Science Variety of Science
Day: THURS, 2/16Time: 1:00-1:50Level: 6-12Room: PiedmontTitle: Introducing Public Health EducationPresenters: Esther ShisokaImage: Comparison of the pidemiology of the provides a compelling and relevantDescription: Epidemiology, the basic science of public health, provides a compelling and relevant context for teaching science and mathematics. The integration of epidemiologic applications in existing frameworks for math and science teaching both fosters an opportunity for multidisciplinary learning around specific problems and is an avenue for enabling students to grasp the relevance of the real-world

	ler, Lisa Thompson ave struggling reader	s in your classroom?	Room: Hong Kong ? We have proven tactics to help your with easy to follow time-saving
-	tickel heat and join the fun	in our chemistry lab	Room: Grand Hall East A with fast, easy, and safe chemical and chemical stochiometry lab activities.
•	Armstrong, Jane Sha learn Science by DOI based program. Recei	NG Science. Using b	Room: Spring best practices that incorporate inquiry and als from Delta Education.
Day: THURS, 2/16	Time: 1:00-1:50	Level: 6-12	Room: Cairo
Title: Using red algae Standards Presenters: Dr. Alan C Description: Teachers	as a model organism Gorlin, Jenny Hedges will learn how to gro eriments that will enh	to enhance master	Room: Cairo y of the Georgia Performance Biology d algae Porphyridium cruentum and use it the GPS Biology State Standards.
Title: Using red algae Standards Presenters: Dr. Alan C Description: Teachers to design inquiry expe Content: Biotechnolo Day: THURS, 2/16 Title: Pine Cones: An Presenters: Jane Met Description: Participa	as a model organism Forlin, Jenny Hedges will learn how to gro eriments that will enha gy Time: 1:00-1:50 engaging Inquiry ty, Joan Baldridge nts will engage in a 51 er to place in science	to enhance master w the unicellular rec ance mastery of all t Level: K-5	y of the Georgia Performance Biology d algae Porphyridium cruentum and use it

L

Presenters: Charlease Description: This sess Presenters will offer s	Kelly-Jackson, Maria ion will provide an alte	ernative approach to te	Room: University <u>cy Integration</u> aching elementary science. sons that integrate children's	
literature. Content: General Scie	nce			
Day: THURS, 2/16 Title: Edible electroni Presenters: Samantha		Level: High logy to fabricate integr	Room: Techwood ated circuits	
	nts will learn about th uit.		graphy and use it to fabricate ar	1
• •	os Aguilar, Amanda Bu K-6 teachers can win shington and \$10,000.	the Nation's highest ho	Room: Manila onor for science teaching, & A with past awardees.	
•	raham, Perry Cantrell how the professional ulum with hands on ex		Room: Grand Hall East B gh Touch High Tech can enhance r leaving campus!	e your
•	Jenkins, Donna Ellers Power receives all A's on ht/features, ease of us		Room: Grand Hall East D n Internet@Schools (Jan/Feb 20:	11)
Day: THURS, 2/16 Title: Succession: The Presenters: Carol Pott Description: Learn wh climax community. Content: Biology (Life	er ile they play. This fun	Level: 6-12 board game takes stud	Room: Grand Hall East C ents on a journey from bare roc	k to

	Thursda	iy – 1:00-2:50 S	Sessions	
Day: THURS, 2/16	Time: 1:00-2:50	Level: 6-12	Room: Inman	
Title: Radioactivity an	nd Radiation - Demon	nstrations for Tead	<u>chers and Students</u>	
Presenters: Michael N Description: This wor distinguish the charac Content: Physical Scie	kshop providea trainint teristics and component	-	emonstration material enabli y.	ng students to
Day: THURS, 2/16 <u>Title: Bugs, Pathogen</u> Presenters: Kisha She Description: Join us to Content: Biology (Life	Iton, Marianne Schoc b learn how to use ins	•	Room: International Ballroo	
	Thursda	iy - 2:00-2:50 S	Sessions	
Day: THURS, 2/16	Time: 2:00-2:50	Level: Middle	Room: Vancouver	.0.0-
Title: Using Student E	ngagement to Make	Class Time More N	<u>Meaningful</u>	送GSSA
Presenters: Jo-ne Bou	irassa			Georgia Science Supervisors Association STRAND
Description: What wo	ould happen if the tea	cher spent less tim	e teaching, but the students	spent more
time learning? This ca	an happen through th	e use of student e	ngagement activities.	
Content: General Scie	nce			
Day: THURS, 2/16	Time: 2:00-2:50	Level: 6-12	Room: Piedmont	
Title: Public Health an	nd Public Health Care	<u>ers</u>		
Presenters: Dr. Lynde	ria Cheevers			CENTERS FOR DISEASE CONTROL AND PREVENTION
experts agree that ad broader development an overview of the co critical workforce sho	vances in improvement and application of port re disciplines within t rtages. Educators are tudents about the larg challenging health is	nt of health over the pulation-based pr he field of public h encouraged to at ge variety of enjoy	rsue a career in public health ne next several decades will c revention programs. This sess ealth and public health positi tend this session so that they able, rewarding public health r.	ome from the ion provides ons with can provide
Day: THURS, 2/16	Time: 2:00-2:50	Level: Middle	Room: Grand Hall E	ast B
Title: High Touch High			<u>8</u>	
Presenters: Beverly G Description: Find out on inschool field trips Content: General Scie	how High Touch High		hance your science curriculu	m with hands-
Day: THURS, 2/16 <u>Title: STEM in Georgia</u> Presenters: Gilda Lyon Description: Learn wh Content: General Scie	n, Dr. Juan Carlos Agu nat STEM is & what is		Room: Manila a around STEM.	

Day: THURS, 2/16	Time: 2:00-2:50	Level: K-5	Room: Montreal
Title: K5 Science Endo		SA	
Presenters: Donna Bai			
Description: This sessi	on will provide an ove	erview of the Met	o RESA K-5 science endorsement. The
•	•		Candidates become certified in K-5 science
upon completion.		,	
Content: Interdisciplin	arv		
Day: THURS, 2/16	Time: 2:00-2:50	Level: High	Room: Cairo
Title: Ten Tried and Tr		•	
Presenters: Michael D		<u>, 10000110</u>	
		the Benchmarks	(AAAS) and Inquiry Features (NRC).
•			d to all participants. Represented GPS
include SCSh1&8, SB1			a to an participants. Represented of 5
Content: Biology (Life			
content. Diology (Life	Science		
Day: THURS, 2/16	Time: 2:00-2:50	Level: 6-12	Room: Roswell
Title: Acoustics: Do Y			Room: Roswell
Presenters: Ann Robin			
		•	acts can be avaiting and fun. Taachars will
• •			ects can be exciting and fun. Teachers will
		resonance, sound	d waves, musical instruments and the ear.
Content: Physical Scie	nce		
			.
Day: THURS, 2/16	Time: 2:00-2:50	Level: Middle	Room: University
T 's the state of the C and			
	tent Area Practicum E	xperience on Pre	Service Science Teacher Content and
Pedagogical Efficacy		xperience on Pre	Service Science Teacher Content and
Pedagogical Efficacy Presenters: Timothy G	ioodale		
Pedagogical Efficacy Presenters: Timothy G Description: The Cont	ioodale ent Area Practicum Ex	perience (CAPE) p	laces middle grades science teacher
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of	ioodale ent Area Practicum Ex organizations and gove	perience (CAPE) perience (CAPE)	laces middle grades science teacher .This session will outline the framework of
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of this experience, the pr	ioodale ent Area Practicum Ex organizations and gove	perience (CAPE) perience (CAPE)	laces middle grades science teacher
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of this experience, the pr initial outcomes.	ioodale ent Area Practicum Ex organizations and gove rocess of networking a	perience (CAPE) perience (CAPE)	laces middle grades science teacher .This session will outline the framework of
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of this experience, the pr initial outcomes.	ioodale ent Area Practicum Ex organizations and gove rocess of networking a	perience (CAPE) perience (CAPE)	laces middle grades science teacher .This session will outline the framework of
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of this experience, the pr initial outcomes. Content: General Scien	oodale ent Area Practicum Ex organizations and gove rocess of networking a nce	perience (CAPE) p ernment agencies and developing pa	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and
Pedagogical Efficacy Presenters: Timothy G Description: The Cont candidates in science of this experience, the pr initial outcomes. Content: General Scien	ioodale ent Area Practicum Ex organizations and gove rocess of networking a	perience (CAPE) perience (CAPE)	laces middle grades science teacher .This session will outline the framework of
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Scient Day: THURS, 2/16	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50	perience (CAPE) p ernment agencies and developing pa Level: K-12	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Scien Day: THURS, 2/16 Title: Rivers to Reefs:	ioodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 the Inside Scoop (and	perience (CAPE) p ernment agencies and developing pa Level: K-12	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Scien Day: THURS, 2/16 <u>Title: Rivers to Reefs:</u> Presenters: Kim Morri	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 the Inside Scoop (and s-Zarneke, Cathy Saka	perience (CAPE) p ernment agencies and developing pa Level: K-12 LDip!)	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Sciel Day: THURS, 2/16 <u>Title: Rivers to Reefs:</u> Presenters: Kim Morri Description: Get the ir	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 <u>the Inside Scoop (and</u> s-Zarneke, Cathy Saka nside scoop about Rive	perience (CAPE) p ernment agencies and developing pa Level: K-12 LDip!) IS ers to Reefs throu	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and Room: Techwood gh video, personal testimonials on the
Pedagogical Efficacy Presenters: Timothy G Description: The Conte candidates in science of this experience, the pr initial outcomes. Content: General Scien Day: THURS, 2/16 <u>Title: Rivers to Reefs:</u> Presenters: Kim Morri Description: Get the in value of professional of	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 <u>the Inside Scoop (and</u> s-Zarneke, Cathy Saka nside scoop about Rive	perience (CAPE) p ernment agencies and developing pa Level: K-12 LDip!) IS ers to Reefs throu	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and Room: Techwood gh video, personal testimonials on the
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Scien Day: THURS, 2/16 <u>Title: Rivers to Reefs:</u> Presenters: Kim Morri Description: Get the in value of professional of	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 <u>the Inside Scoop (and</u> s-Zarneke, Cathy Saka nside scoop about Rive	perience (CAPE) p ernment agencies and developing pa Level: K-12 LDip!) IS ers to Reefs throu	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and Room: Techwood gh video, personal testimonials on the
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Pedagogical Efficacy Presenters: Timothy G Description: The Conte candidates in science of this experience, the pr initial outcomes. Content: General Sciel Day: THURS, 2/16 Title: Rivers to Reefs: Presenters: Kim Morri Description: Get the ir value of professional of Content: Life Science Day: THURS, 2/16	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 the Inside Scoop (and s-Zarneke, Cathy Saka nside scoop about Rive development experien Time: 2:00-2:50	perience (CAPE) p ernment agencies and developing pa Level: K-12 Dip!) is ers to Reefs throu ces, and a hands of Level: High	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and Room: Techwood gh video, personal testimonials on the on watershed activity.
Pedagogical Efficacy Presenters: Timothy G Description: The Contr candidates in science of this experience, the pr initial outcomes. Content: General Scient Day: THURS, 2/16 <u>Title: Rivers to Reefs:</u> Presenters: Kim Morri Description: Get the ir value of professional of Content: Life Science Day: THURS, 2/16 <u>Title: Including nanote</u>	Goodale ent Area Practicum Ex organizations and gove rocess of networking a nce Time: 2:00-2:50 the Inside Scoop (and s-Zarneke, Cathy Saka nside scoop about Rive development experien Time: 2:00-2:50	perience (CAPE) p ernment agencies and developing pa Level: K-12 Dip!) is ers to Reefs throu ces, and a hands of Level: High	laces middle grades science teacher .This session will outline the framework of rtnerships with local organizations and Room: Techwood gh video, personal testimonials on the on watershed activity.
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Day: THURS, 2/16Time: 2:00-2:50Level: 6-12Room: Grand Hall East ATitle: Family Science Nights (CSI Style) (grades 6-12)Presenters: Stephanie ShultzDescription: In conjunction with a state-wide effort to improve test scores, you will learn how to set upa suscential Family Science Night (CSI style) for your elements and ensure the scores of the state of the					
a successful Family Science Night (CSI style) for your classroom, school or system. Content: General Science					
Thursday – 2:00-3:50 Sessions					
Day: THURS, 2/16 Time: 2:00-3:50 Level: Middle Room: Singapore Title: Using Food Science as a Learning Tool in Biology					
 Presenters: Joseph Nunn Description: This workshop is being presented by past attendees of the FDA/NSTA Science and our Food Supply Workshop held in Washington D.C. A sampling of hands-on labs will be conducted that iluustrate the science behind food safety. Content: Biology (life science) 					
Day: THURS, 2/16Time: 2:00-3:50Level: 6-12Room: Grand Hall East CTitle: Initiating, Engaging, and Completing a STEM UnitPresenters: Holly VidaDescription: PASCO's STEM Modules guide students through the multi-step engineering design process.Students work individually and in groups to design, build, test, and evaluate their engineering prototype.As you engage in this workshop you will experience the STEM process of inquiry utilizing a pre-designedbut open ended format, including quick and easy data collection. Thus ensuring a true STEM experiencefor each participant. This workshop will address the following GPS standards; SCSh3-9.c and d, whichdeal with inquiry based learning, analysis skills, and students' ability to quickly address misconceptions.Content: Interdisciplinary					
Day: THURS, 2/16Time: 2:00-3:50Level: MiddleRoom: Grand Hall East DTitle: Preparing Georgia's Middle School Science Teachers to Integrate Inquiry-based, Hands-onResearch Modules in the ClassroomPresenters: Chandan Morris Robbins, Middle School EducatorsDescription: Improving Teacher Quality State Grant, through Georgia State University's Bio-BusProgram, focuses on three areas, earth, life, and physical sciences, particularly suitable for incorporatingteaching strategies that stimulate student interest in science.Content: Interdisciplinary					
Day: THURS, 2/16Time: 2:00-3:50Level: 6-12Room: Hong Kong <u>Title: Best Practices: Making Content Videos that are Instructional AND Entertaining</u> Presenters: Jennifer Douglass, Jennifer Hulgan, Meredith WoodDescription: After a brief "best practices' discussion, participants will be guided through the process(hands-on) of making, editing and producing an instructional and engaging content video of their own.Content: General					

Thursday – 3:00-3:50 Sessions
Day: THURS, 2/16 Time: 3:00-3:50 Level: Middle Room: Vancouver Title: STEM Internships for High School Students Image: Steps Service Acceleration Image: Steps Service Acceleration Image: Steps Service Acceleration Presenters: Donald White Image: Steps Service Acceleration Image: Steps Service Acceleration Image: Steps Service Acceleration Description: Come discover how to answer "Why do I have to learn this?!" while leveraging community resources. Session will describe how to establish STEM internships for HS students. Content: General Science Image: Steps Service Acceleration
Day: THURS, 2/16 Time: 3:00-3:50 Level: 6-12 Room: Piedmont <u>Title: Introducing Epidemiology through a Food borne Outbreak Demonstration:</u> With the Potato Salad? Who Ate the Potato Salad? Presenters: Dr. Ralph Cordell Description: Outbreaks of listeria and other serious illnesses linked to tainted food are becoming more common, partly because much of what we eat takes a long and winding road from farm to fork. This session demonstrates an activity centered on a mock outbreak of food poisoning. Participants collect, analyze, and interpret data using the same methods used by CDC epidemiologists in conducting these investigations. Content: Interdisciplinary
Day:THURS, 2/16Time: 3:00-3:50Level: K-8Room: InmanTitle:The 5 E's (Engage, Explore, Explain, Elaborate, Evaluate)Presenters:Lynn Larsen, Debbie StuckeyDescription:Apply the 5E method as you create your lesson. See science lessons come alive through the water cycle.Content:General
Day: THURS, 2/16Time: 3:00-3:50Level: 6-12Room: CairoTitle: 7 Billion and Counting: Lessons for Our Planet's FuturePresenters: Bonita FlournoyDescription: 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.Content: Life Science
Day:THURS, 2/16Time: 3:00-3:50Level: 6-12Room: Grand Hall East ATitle:Mastering the Chemical Formula: an Exceptionally Effective Way to Teach Subscripts andCoefficientsPresenters:Larry BanowskyDescription:What is the difference between subscripts and coefficients? What does "balancing" achemical equation mean?Many students have trouble with these fundamental concepts in chemistryand this prevents them from reaching the next level of learning.If a student does not fully understandthe chemical formula, moles, reactions and stoichiometry are hopelessly confusing.This hands-onsession will give you some elegant, intuitive, and well-differentiated lessons that show students of allability levels to master the chemical formula and therefore move confidently into deeper understandingof chemistry.Content: Chemistry

Day: THURS, 2/16	Time: 3:00-3:50	Level: High	Room: Roswell
Title: Laser Madness	Time: 5.00-5.50		Room. Roswell
Presenters: Lee Whe	eler		
		n Pangolin software an	d a Skywriter RGB Laser.
Content: Physics			
Day: THURS, 2/16	Time: 3:00-3:50	Level: 6-12	Room: University
	Scaling the Universe	with NASA	
Presenters: Tyson Ha	•		
	-	mall? "Scale the Univer	rse" as we investigate the powers of
ten with free NASA m			
Content: Earth/Space	Science		
Day: THURS, 2/16	Time: 3:00-3:50	Level: K-8	Room: Spring
•	eering Design in Scien	ice Classrooms	
Presenters: Donna Go		_	
Description: How are	engineering and scier	nce alike? How are the	y different? Discover how to teach the
engineering cycle wit	h your students.		
Content: General Scie	ence		
Day: THURS, 2/16	Time: 3:00-3:50	Level: Elementary	Room: Manila
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Day: THURS, 2/16	Time: 3:00-4:50		Room: International E	Ballroom
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	ty, Katrina Hammonds			
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-	l as keep 8° grade stud	ients engaged while	e they learn these concepts	
Content: Chemistry				
	Thursday			
	Inursua	y – 4:00-4:50 Se	25510115	
Day: THURS, 2/16	Time: 4:00-4:50	Level: K-5	Room: Vancouver	
Title: Picture-Perfect				K.COCA
Presenters: Alfred Po				Georgia Science Supervisors Association
		oks to guide inquir	y in the upper elementary c	lassroom.
Content: General Scie	ence		,	
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Content: General Scient Day: THURS, 2/16 <u>Title: How to Engage</u> Presenters: Kelly Price Description: Use Scient typical Chapter 1. En shared. Content: General Scient Day: THURS, 2/16 <u>Title: Connecting AYI</u> Presenters: Michael F Description: A study of	Time: 4:00-4:50 <u>Students from Day 1 v</u> e nce Olympiad activities gaging methods for ins ence <u>Time:</u> 4:00-4:50 <u>P to the Content in the</u> Mahan on the CRCT indicators	vith Science Olymp s for the first 1-2 we tructing the nature Level: 6-12 <u>Classroom</u>	Room: Hong Kong iad Activities used for instr eeks of your science class in of science, measurement, o Room: Singapore	uction stead of the
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Day: THURS, 2/16 Title: Easy Elementar		Level: Elementary	Room: Manila
Description: A STEM	no cost methods for pu will be shared.	ncourage student ex	orras citement and exploration. This sessior I STEM event. Sample schedules,
Day: THURS, 2/16 Title: Ramping Up Inc Presenters: Lee Meac	Time: 4:00-4:50 guiry: 5 Key Questions	Level: 6-12	Room: University
Description: Learn fiv	e questions that raise t ngaged, understand sci		sed teaching and develop classrooms evance.
Day: THURS, 2/16 Fitle: Pirates of Puert	Time: 4:00-4:50	Level: 6-12	Room: Cairo
_	e Harris		
Description: This is a Emory University dea	PBL based on research ling With Fluorescence		summer in the biochemistry labs at
Description: This is a Emory University dea Content: Chemistry Day: THURS, 2/16 <u>Title: Forensics, Flow</u> Presenters: Anthony Description: Increase solves crime. Particip Forensic Science: Fun	ling With Fluorescence Time: 4:00-4:50 <u>ers and Pollen</u> Bertino, Patricia Bertin student interest/know ants receive Power Poi damentals & Investigat	Level: High o vledge in math, literad nt, activities, 5E, case	Room: Grand Hall East B cy, technology. Discover how pollen e studies and presenters' textbook,
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Emory University dea Content: Chemistry Day: THURS, 2/16 Title: Forensics, Flow Presenters: Anthony Description: Increase solves crime. Particip Forensic Science: Fun Content: Interdiscipli Day: THURS, 2/16 Title: Putting the Spa	ling With Fluorescence Time: 4:00-4:50 <u>ers and Pollen</u> Bertino, Patricia Bertin student interest/know ants receive Power Poi damentals & Investigat nary <u>Time: 4:00-4:50</u> <u>rk Back into Chemistry</u>	Level: High o vledge in math, literad nt, activities, 5E, case tions. Level: High	Room: Grand Hall East B cy, technology. Discover how pollen e studies and presenters' textbook,
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Description: This is a Emory University dea Content: Chemistry Day: THURS, 2/16 <u>Title: Forensics, Flow</u> Presenters: Anthony Description: Increase solves crime. Participa Forensic Science: Fun Content: Interdiscipli Day: THURS, 2/16 <u>Title: Putting the Spa</u> Presenters: Karen Jor Description: During the students. Through the Content: Chemistry Day: THURS, 2/16 <u>Title: Seeds of Science</u>	ling With Fluorescence Time: 4:00-4:50 <u>ers and Pollen</u> Bertino, Patricia Bertin student interest/know ants receive Power Poi damentals & Investigat nary Time: 4:00-4:50 <u>rk Back into Chemistry</u> nes nis presentation, the pre- e incorporation of musi	Level: High o vledge in math, literad nt, activities, 5E, case tions. Level: High <u>v: Using Music to Eng</u> resenter will address ic, teachers can keep Level: K-5	Room: Grand Hall East B cy, technology. Discover how pollen e studies and presenters' textbook, Room: Roswell rage Students in Chemistry using music in Chemistry to engage students interested in Chemistry.

Day:THURS, 2/16Time: 4:00-4:50Level: HighRoom: Grand Hall East ATitle:Photosynthesis and Respiration Shuffle!Teaching for True Conceptual Understanding

Presenters: Amy Kezman, Laura Lenz

Description: Take home standards-based, hands-on materials that engage students in learning about photosynthesis and cellular respiration.

Content: Life Science

Day:THURS, 2/16Time: 4:00-4:50Level: HighRoom: Grand Hall East CTitle:Flipping Using Edmodo: Trials and Triumphs & Other Tech Tools for Teaching ScienceDescenteredTime: Charles

Presenters: Timmi Shawler

Description: The session will include my experiences using Edmodo to flip my biology classrooms. The second part of the session will be tech tools that can be incorporated in the process. **Content:** Life Science

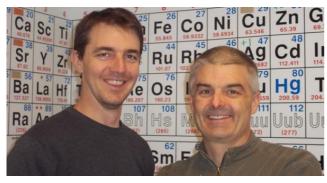
Day:THURS, 2/16Time: 4:00-4:50Level: K-12Room: Exhibit HallGSTA District Meet & Greet!

Description: Come and gather in the exhibit hall and network with fellow educators from your GSTA District. Find teachers in your area to share ideas, resources, and maybe a ride to the next conference! GSTA District Directors will be here to facilitate this informal gathering.



Special Thanks to Our Award Sponsors





Jon Bergmann & Aaron Sams



Learning 4 Mastery: Flipping Your Classroom Learning When and Where You Want It!



Friday

Bergmann & Sams have become known around the world as the first teachers to flip the classroom. In the flipped classroom, students watch video lessons made by their teachers and then use class time to do more hands-on activities and work with their teachers on difficult topics.

8:00 Piedmont	11:00 Piedmont	Feb. 17 th
The Flipped Classroom	 The Flipped Classroom 	
9:00 Piedmont	2:30 Grand Hall East B	
 Mastery Learning/Teaching 	 Mastery Learning/Teaching 	
10:00 Piedmont	3:30 Grand Hall East B	
 Getting Started with Pod/Vodcasting 	Getting Started with Pod/Vodca	asting



Keynote Address

Get the Scoop on New Next Generation Science Standards Dr. Stephen Pruitt

Work is progressing to develop the Next Generation Science Standards (NGSS). This informational session will provide an update on the development of these standards, including process and timeline for release of drafts and final documents, how science educators can be involved, and implications for science teaching.

With private funding from the Carnegie Corporation, the National Research Council (NRC) and Achieve, with support from NSTA and the American Association for the Advancement of Science (AAAS), have embarked on a twostep cooperative process to develop the Next Generation Science Standards. The first step was to develop a conceptual framework that is grounded in



Friday, February 17

International Ballroom

12:00-1:15

current research on science and science learning and identifies the science all K–12 students should know. In July, NRC released *A Framework for K–12 Science Education*, which now serves as the foundation for new K–12 science education standards. The next step will be the development of the standards. That state-led process is being managed by Achieve and will involve scientists, science teachers, policy makers, industry, and other interested parties. The standards are expected to be completed in late 2012

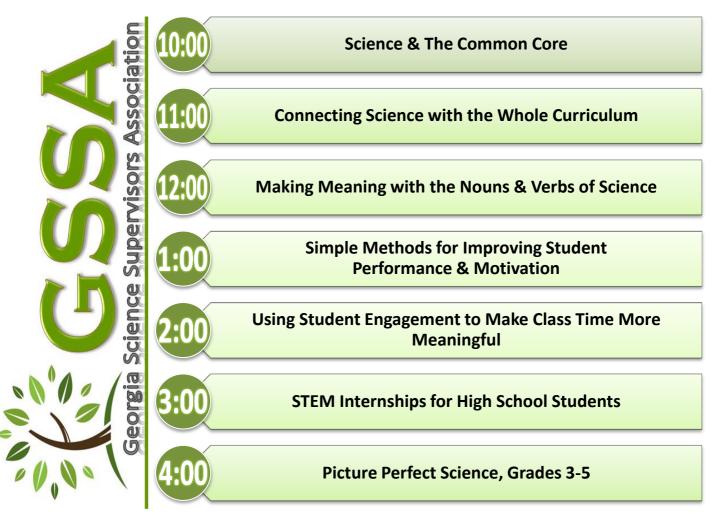
Bio: Stephen Pruitt was named Vice President for Content, Research, and Development for Achieve, Inc., in November 2010. He joined Achieve as director of science in July 2010. In addition to his new role, he will continue to lead the development of the Next-Generation Science Education Standards. Stephen began his career as a high school chemistry teacher in Georgia, where he taught for 12 years. In 2003, he joined the Georgia Department of Education as program manager for science. He served in that role for four years before becoming director of academic standards, where he oversaw the continued implementation of the Georgia Performance Standards in all content areas. In 2008 he became the Associate Superintendent of Assessment and Accountability, responsible for directing all state assessments and overseeing the No Child Left Behind accountability process.

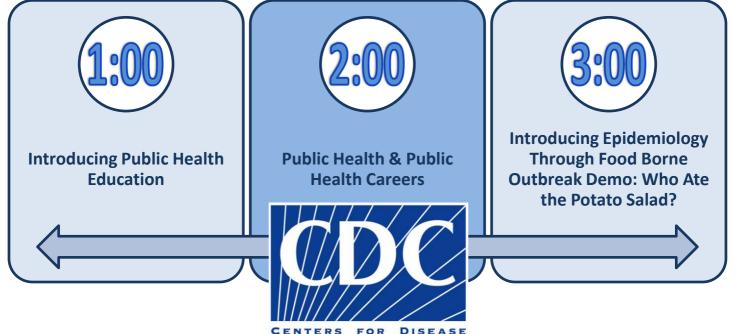
In addition to his state-level work, Stephen also served as president of the Council of State Science Supervisors and a member of the writing team for the College Board's Standards for College Success Science Standards. Most recently, he served on the National Academy of Sciences' Committee on Conceptual Framework for New Science Education Standards, which is developing the framework for the Next-Generation Science Education Standards.





Presentation Strands Thursday February 16th

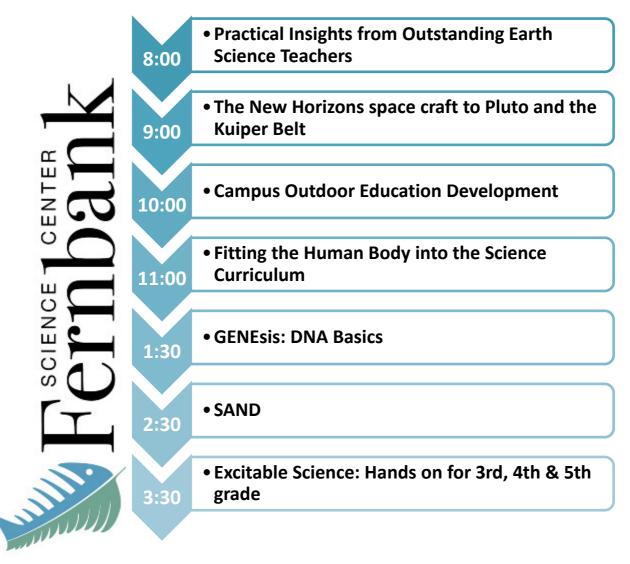




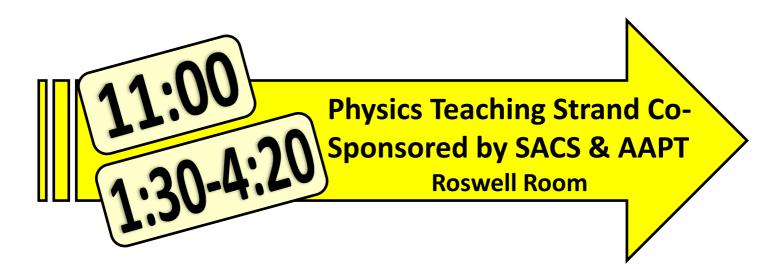
CONTROL AND PREVENTION



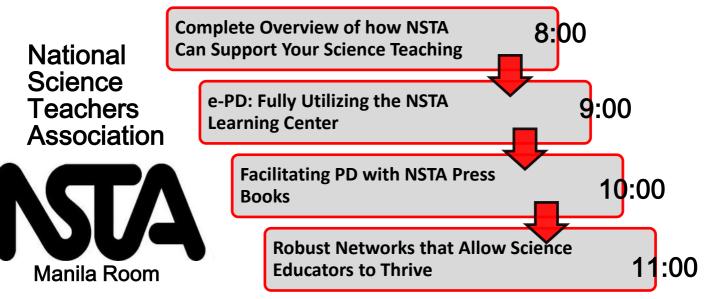


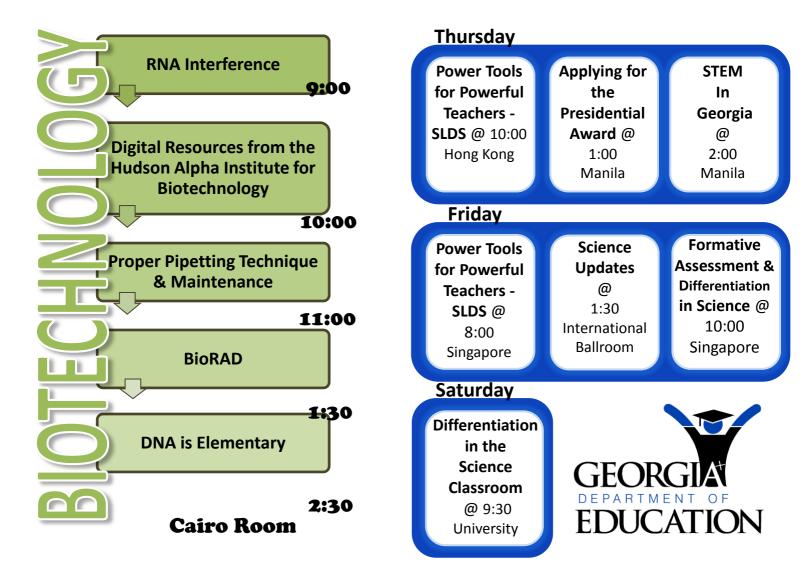


Hong Kong Room









Friday - 8:00-8:50 Sessions
Day: FRI, 2/17 Time: 8:00-8:50 Level: Elementary Room: Manila
Title: A Complete Overview of how NSTA Can Support Your Science Teaching
Presenters: Edward Rock National Science Teachers Association
Description: Come learn how the largest science education organization in the world can support your
classroom, school, district and state. We'll discuss who the National Science Teachers Association
(NSTA) is, how it interfaces with GSTA, and provide a detailed scope of the association and the resources
that are available to all science educators. Learn how you can actively engage in the national discussion
about science and STEM education. All attendees will receive a FREE copy of NSTA's newest publication,
NSTA Reader's Guide to the K-12 Science Education Framework.
Content: General Science
Day: FRI, 2/17 Time: 8:00-9:50 Level: High Room: Cairo
Title: BIOTECH - RNA Interference
Presenters: Philip Gibson
Biotech Strand Description: RNA interference challenges the Central Dogma of Biology. This session's activity
demonstrates how genetically identical organisms can develop into phenotypically distinct populations.
Content: Biotechnology
Day: FRI, 2/17 Time: 8:00-8:50 Level: High Room: Piedmont
Title: The Flipped Classroom
Presenters: Jon Bergmann and Aaron Sams
Description: What a flipped classroom is, what it is not, and how to do it well. See how they completely
transformed their high school chemistry classrooms, so that students would actually master the
material. Turning learning on its head.
Content: General
Day: THURS, 2/16 Time: 8:00-9:50 Level: K-12 Room: Singapore
Title: Power Tools for Powerful Teachers - SLDS
Presenters: Hubert Bennett
Description : Would you like to know the strengths and weaknesses of every student on your Roster?
Find out how use the Statewide Longitudinal Data System (SLDS) to UNLOCK every child's potential. Now
at your fingertips, you will find up to six years worth of information on your students (Assessment,
Enrollment, Attendance, Previous Class Grades, Instructional Programs, etc).
Content: General Science
Day: FRI, 2/17 Time: 8:00-8:50 Level: Elementary Room: Montreal
Day. This 2/17 This 3.00-3.30 Level. Elementary Room. Montreal
Title: CAN YOU SEE THE PHASES
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Title: CAN YOU SEE THE PHASES
Title: CAN YOU SEE THE PHASES Presenters: Robert Bowman
Title: CAN YOU SEE THE PHASESPresenters: Robert BowmanDescription: Learn better techniques and tricks on how to get your students to learn the phases of the
Title: CAN YOU SEE THE PHASES Presenters: Robert Bowman Description: Learn better techniques and tricks on how to get your students to learn the phases of the moon. Come join this interactive session!

Day: FRI, 2/17	Time: 8:00-8:50	Level: K-8	Room: Vancouver	
-	Engage and Teach Stud			
	Gast, Dorinda Haley,			
	· · · ·	ntained classrooms	caterpillars and butterflies reach and	teach
students with spec	ial needs. Learn how al	students can raise	outterflies, tag monarchs, and partici	pate
in citizen science.	-reebies.			
Content: Biology (Life Science)			
Day: FRI, 2/17	Time: 8:00-8:50	Level: K-8	Room: University	
	ng - A Classroom Experi	<u>ence</u>		
Presenters: Jim Hi				
-	-	-	ure. Participants will be given	
storm chaser.	es to engage their stude	ents in the study of s	evere weather through the eyes of a	
Content: Earth/Sp	aca Science			
content. Larth/sp				
Day: FRI, 2/17	Time: 8:00-8:50	Level: K-8	Room: Techwood	
Title: Class Museu				
Presenters: Charm				
	•	ip experience in you	r own as your students become cura	tors
of your own class i	nuseum.			
Content: General S	Science			
Day: FRI, 2/17	Time: 8:00-8:50	Level: High	Room: Spring	
	undaries: Collaboration		-	
	Fischer, Chris Kennedy,			
• •	•		boration with gifted students in	
Content: General S	cience, preparing stude	its for GAA and EUC	1.	
Content. General.	bliefille			
Day: FRI, 2/17	Time: 8:00-8:50	Level: High	Room: Grand Hall East B	
•	Tech Fest: Really Easy D	0		
Presenters: Dr. Jar				
Description: Celeb	rate innovation with ou	r Real Easy Data pro	bes, RED! A hands-on technology	
			animal behavior and muscle fatigue.	
Content: Biology (Life Science)			
Day: FRI, 2/17	Time: 8:00-8:50	Level: Middle	Room: Hong Kong	SCIENCECE
	ghts from Outstanding	Earth Science Teach	ners - FERNBANK	
Presenters: Bill Wi		F 11 C 1 F		TTY SCHOOL
•	•	-	cher award and 15 other geoscience	
	-		gether to share insights in March 201	
			on, NC, sponsored by the Southeaste	ern
	onal Association of Geo	science reachers.		
Content: Biology (

Title: Teach Your Stan			Room: Grand Hall East	С
Presenters: Marti Schr		· · · · ·		
-			se their week long experien	-
Island and the Georgia	Sea Turtle Center fo	or activities you can t	ake back to your classroom.	
Content: General Scier	nce			
Day: FRI, 2/17	Time: 8:00-8:50	Level: High	Room: Grand Hall East	D
Title: Biotech Kitchen	DNA with a Twist of	Inquiry		
Presenters: Jennifer Ca	arden, Dr. Neil Lamb,	, Madelene Loftin		
Description: Tired of c	ookbook DNA extrac	tion protocols? We p	present an inquiry based DN	A extraction
procedure that will have	ve students thinking	about cell type, stru	ctures and DNA.	
Content: Life Science				
	Fr	iday - 8:00-10:5	0	
•	Time: 8:00-10:50	Level: High	Room: Roswell	SHORT COURSE
Title: Honors Physics L			get results!	
Presenters: Joseph Cox				MI 199
•	•	, , ,	rience a year's worth of	CHINA
physics labs all in one s	session. Low tech to	b high tech it's all hei	e.	TEMIST
Content: Physics				
	Friday	– 9:00-9:50 Ses	sions	
Dav: EPI 2/17	•			
•	Time: 9 :00-9:50	- 9:00-9:50 Ses Level: High	sions Room: Piedmont	AL LOUGHERS ASSOCIATE
Title: Mastery Learnin	Time: 9 :00-9:50 g/Teaching	Level: High		A LINE AND A
Title: Mastery Learnin Presenters: Jon Bergn	Time: 9:00-9:50 g/Teaching nann and Aaron Sam	Level: High	Room: Piedmont	ho non
Title: Mastery Learnin Presenters: Jon Bergm Description: See how t	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video podo	Level: High s casts to make better	Room: Piedmont use of class time by taking t	
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lecture	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time	Level: High s casts to make better e and putting the stu	Room: Piedmont use of class time by taking t ff that kids were struggling v	with
Title: Mastery Learnin Presenters: Jon Berger Description: See how to interactive part (lecture (homework and proble	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class	Level: High s casts to make better e and putting the stu s, to improve their m	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y	with
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class	Level: High s casts to make better e and putting the stu s, to improve their m	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y	with
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Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered Content: General	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video podo ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn	Level: High s casts to make better e and putting the stu to improve their m ifferentiated places Level: Elementary	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning.	with
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock	Level: High s casts to make better e and putting the stur to improve their m ifferentiated places Level: Elementary ing Center	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila	with your classes
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit	Level: High s casts to make better and putting the stur to improve their m ifferentiated places Level: Elementary ing Center	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila	with your classes
Title: Mastery Learnin Presenters: Jon Berger Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski Administrators will enj	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video podo ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit joy a detailed tour of	Level: High s casts to make better e and putting the stu to improve their m ifferentiated places Level: Elementary ing Center cical to student succe the NSTA Learning (Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila	with your classes
Title: Mastery Learnin Presenters: Jon Berger Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski Administrators will enj development content,	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit joy a detailed tour of PD coordination, an	Level: High s casts to make better e and putting the stur to improve their m ifferentiated places Level: Elementary ing Center cical to student succe the NSTA Learning C d PD documentation	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila ess. Georgia Science Educato Center, a tool for both online . We'll explore the many wa	with your classes
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski Administrators will enj development content, are utilizing the tools a	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) out of class time em solving) into class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit joy a detailed tour of PD coordination, an and resources in the	Level: High s casts to make better e and putting the stur to improve their m ifferentiated places Level: Elementary ing Center cical to student succe the NSTA Learning Center	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila ess. Georgia Science Educato Center, a tool for both online . We'll explore the many wa er and look at the research s	with your classes
Title: Mastery Learnin Presenters: Jon Berger Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski Administrators will enj development content, are utilizing the tools a Learning Center's effic	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit joy a detailed tour of PD coordination, an and resources in the la	Level: High s casts to make better e and putting the stur to improve their m ifferentiated places Level: Elementary ing Center cical to student succe the NSTA Learning Center	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila ess. Georgia Science Educato Center, a tool for both online . We'll explore the many wa	with your classes
Title: Mastery Learnin Presenters: Jon Bergm Description: See how to interactive part (lectur (homework and proble more student centered Content: General Day: FRI, 2/17 Title: e-PD: Fully Utili Presenters: Edward Ro Description: Highly Ski Administrators will enj development content, are utilizing the tools a	Time: 9:00-9:50 g/Teaching nann and Aaron Sam they used video pode ring) <i>out</i> of class time em solving) <i>into</i> class d, objective driven, d Time: 9:00-9:50 izing the NSTA Learn ock illed teachers are crit joy a detailed tour of PD coordination, an and resources in the l acy. Every participan \$79.98 value).	Level: High s casts to make better e and putting the stur to improve their m ifferentiated places Level: Elementary ing Center cical to student succe the NSTA Learning Center	Room: Piedmont use of class time by taking t ff that kids were struggling v astery. Learn how to make y for learning. Room: Manila ess. Georgia Science Educato Center, a tool for both online . We'll explore the many wa er and look at the research s	with your classes

Day: FRI, 2/17	Time: 9:00-9:50	Level: Elementary	Room: International Ballroom
Presenters: David Ro Description: 3rd grad	de teachers from the	rce, Sally Creel, Northw Northwest GA MSP will	vest GA MSP 3 rd Grade Cohort I share resources, ideas, and best Hand-out of each resource will be
Day: FRI, 2/17	Time: 9:00-9:50	Level: Elementary	Room: Montreal
Presenters: Amy Coc		vith Household Product	<u>ts</u>
Description: Teacher	rs will participate in se to enhance and encou d student learning.		that will be demonstrated using t in physical science. The activities
Day: FRI, 2/17	Time: 9:00-9:50	Level: 6-12	Room: Grand Hall B
Title: Free Classroom	<u>ו Resources from HH</u>	MI for Teaching Evolut	ion
	gaging multimedia re		 and the molecular genetics behind based investigations, and data
Day: FRI, 2/17 Title: Why Does It M	Time: 9:00-9:50	Level: 3-6	Room: Inman
	e Armstrong, Jane Sh	arp, Steve Jones	
•	ove student learning.		g practices. Experience Next Step als from Delta Education.
Day: FRI, 2/17 Title: Big Ideas from		Level: Elementary	Room: Vancouver
Description: Come a	nd have fun exploring	chison, Samantha Andro g how teaching about sr rovided CD containing a	mall scale objects can fit into your
Day: FRI, 2/17	Time: 9:00-9:50	Level: Middle	Room: Singapore
		e're still finding great id	deas!
Presenters: Zoe Evar Description: Need a	ns, Carol Turner, Ann	COOK TINA Denney	

	Time: 9:00-9:50	Level, High	B 11 1 1
		Level: High	Room: University
	th Systems in High Sch	<u>ool</u>	
Presenters: Stepha	nie Miles, Brandie Free	eman	
Description: Teach	ers will engage in hand	s-on Earth systems act	ivities, learn about resources available,
and take home tea	ching materials		
Content: Earth/Spa	ice Science		
Day: FRI, 2/17	Time: 9:00-9:50	Level: High	Room: Grand Hall East A
•	lovel Method for Teac	-	
Presenters: Amy Ke			
•		on activities to teach a	ene expression and how it relates to the
•	nodified organisms to a	-	•
Content: Life Scien	-	iuuless sustailiability is	ssues.
content: Life Scient	Le		
D. 501 2/47	T		
Day: FRI, 2/17	Time: 9:00-9:50	Level: K-8	Room: Grand Hall East C
Title: The Butterfly			
Presenters: Steve F			
•		• • •	the Monarch Butterfly. Incorporate
•		nto your science lesso	ns, and consider inviting "The Butterfly
Man" to your schoo			
Content: Biology (L	ife Science)		
Day: FRI, 2/17	Time: 9:00-9:50	Level: Middle	Room: Grand Hall East D
Title: Inquiry Matte	ers		
Presenters: Kather	ine Armstrong, Jane Sh	arp, Steve Jones	
			practices that include inquiry and
Description: Stude	nts learn science by DC	ING science. Use best	practices that include inquiry and workshop materials from Delta
Description: Stude	nts learn science by DC	ING science. Use best	
Description: Studen literacy that are inc	nts learn science by DC corporated in a researc	ING science. Use best	
Description: Studen literacy that are inc Education	nts learn science by DC corporated in a researc	ING science. Use best	
Description: Studen literacy that are inc Education Content: General S	nts learn science by DC corporated in a researc cience	ING science. Use best h-based program. Free	workshop materials from Delta
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17	nts learn science by DC corporated in a researc cience Time: 9:00-9:50	ING science. Use best h-based program. Free Level: Middle	
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u>	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 ol Edible Science Lesso	ING science. Use best h-based program. Free Level: Middle	workshop materials from Delta
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 ol Edible Science Lesso y Hyder	VING science. Use best h-based program. Free Level: Middle <u>ns</u>	workshop materials from Delta Room: Techwood
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 ol Edible Science Lesso v Hyder on Science at it's best	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co	workshop materials from Delta Room: Techwood pmbine not only hands on science
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 ol Edible Science Lesso v Hyder on Science at it's best nclude a way to every r	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co	workshop materials from Delta Room: Techwood pmbine not only hands on science
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 ol Edible Science Lesso v Hyder on Science at it's best nclude a way to every r	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co	workshop materials from Delta Room: Techwood pmbine not only hands on science
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in Content: General S	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 of Edible Science Lesso y Hyder on Science at it's best include a way to every r cience	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co niddle schoolers heart.	Room: Techwood mbine not only hands on science
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Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in Content: General S Day: FRI, 2/17 <u>Title: The New Hor</u>	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 of Edible Science Lesson of Hyder on Science at it's best include a way to every r cience Time: 9:00-9:50 izons space craft to Plu	ING science. Use best h-based program. Free Level: Middle ns ! This workshop will co niddle schoolers heart. Level: Elementary	Room: Techwood mbine not only hands on sciencefood! Room: Hong Kong
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in Content: General S Day: FRI, 2/17 <u>Title: The New Hor</u> Presenters: April W	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 <u>of Edible Science Lesso</u> r Hyder on Science at it's best nclude a way to every r cience Time: 9:00-9:50 <u>izons space craft to Plu</u> rhitt	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co niddle schoolers heart. Level: Elementary uto and the Kuiper Bel	Room: Techwood mbine not only hands on sciencefood! Room: Hong Kong t- FERNBANK
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in Content: General S Day: FRI, 2/17 <u>Title: The New Hor</u> Presenters: April W Description: In 200	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 of Edible Science Lesson r Hyder on Science at it's best include a way to every r cience Time: 9:00-9:50 izons space craft to Plu /hitt 6, a small space craft w	ING science. Use best h-based program. Free Level: Middle <u>ns</u> ! This workshop will co niddle schoolers heart. Level: Elementary uto and the Kuiper Bel vas launched on a nine	Room: Techwood Room: Techwood mbine not only hands on sciencefood! Room: Hong Kong <u>t- FERNBANK</u> -year journey toward the edges
Description: Studen literacy that are inc Education Content: General S Day: FRI, 2/17 <u>Title: Middle Schoo</u> Presenters: Tammy Description: Hands activities, but will in Content: General S Day: FRI, 2/17 <u>Title: The New Hor</u> Presenters: April W Description: In 200 of our solar system	nts learn science by DC corporated in a researc cience Time: 9:00-9:50 of Edible Science Lesson of Hyder on Science at it's best include a way to every r cience Time: 9:00-9:50 izons space craft to Plu (hitt 6, a small space craft w . The New Horizons rol	ING science. Use best h-based program. Free Level: Middle ns ! This workshop will co niddle schoolers heart. Level: Elementary uto and the Kuiper Bel vas launched on a nine pot probe will arrive at	Room: Techwood Room: Techwood mbine not only hands on sciencefood! Room: Hong Kong <u>t- FERNBANK</u> -year journey toward the edges Pluto and the Kuiper Belt in 2015, and
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Friday	- 9:00-10:50 Ses	sions	
Day: FRI, 2/17 Time: 9:00-10:50	Level: Middle	Room: Spring	
Title: Science Tools for Success			
Presenters: Deanna Boyd			
Description: Teachers will experience a ha		-	
notebooks, foldables, vocabulary strategie	s, and various differe	ntiation techniques. Free m	naterials and
information will be distributed!			
Content: Biology (Life Science)			
Friday	- 10:00-10:50 Ses	ssions	
			SCHERS AS
Day: FRI, 2/17 Time: 10:00-10:50	Level: High	Room: Piedmont	
Title: Getting Started with Pod/Vodcastin	-		A A A A A A A A A A A A A A A A A A A
Presenters: Jon Bergmann and Aaron Sam			FEATURED
Description: They have become known ar			
this session Bergmann & Sams will walk yo	ou through creating vie	deos students will love, and	a using them
appropriately.			
Content: General			
Day: FRI, 2/17 Time: 10:00-10:50	Level: Elementary	Room: Manila	
Title: Facilitating PD with NSTA Press Boo			
Presenters: Edward Rock		Na	tional Science Teachers Association
Description: Science Education Administra	ators, Professional Dev	velopers, and science consu	ultants will
revel in the research-based classroom practice		-	
books. We'll discuss strategies and share		-	-
anchors for your professional learning com	nmunities. Several exe	emplary NSTA Press titles v	vill be gifted
as door prizes at this session			
Content: General Science			
Devis EDL 2/47	Laval, Ulah	De auto Calina	
Day: FRI, 2/17 Time: 10:00-10:50	Level: High	Room: Cairo	
Title: BIOTECH Digital Resources from the Presenters: Jennifer Whitney Carden, Dr. I			THE SU
Description: Imagine students using their			Biotech Strand
process. During this hands-on workshop te			
digital resources			
Content: Life Science			
Day: FRI, 2/17 Time: 10:00-10:50	Level: K-5	Room: Internationa	l Ballroom
Title: Hands On 5 th Grade All Year Long –			
Presenters: Sally Creel, Stacey Osborne, 5 ^t			
Description: Teacher leaders from the Pau		nstrate several hands-on ex	operiments to
teach 5 th grade science GPS. Attendees wi	ill take away several le	essons and receive practica	l advice on
fitting science in an elementary classroom			
Content: General			

Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: Sensing Science</u> Presenters: Michaela D'Aquanni	Level: K-8	Room: Montreal
Description: Experiences bring science to life. the future we can invite them to hold in their Content: General	-	our children to the world around them is
Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: Campus Outdoor Education Developme</u> Presenters: Al Tate Description: Esentially, I plan to present a slid school campuses (COED "Campus Outdoor Ed	le show supporti	ng the development and use of
convenient outdoor locations) for academic c applied mathmetics. I plan to present slides v others, and a discussion period at the end. Content: Biology (Life Science)	urriculum in Bio	ogy, Ecology, Geology, Physics, and
Day:FRI, 2/17Time: 10:00-10:50Title:Georgia Barrier IslandsPresenters:Donna MullenaxDescription:The Barrier Islands of Georgia wiThe session will focus on the geology, habitat:Content:Earth/Space Science	•	-
Day: FRI, 2/17 Time: 10:00-10:50 Title: Strategies to Promote Reading and Wri Presenters: Joey Nunn, Cary Sell, Brian Lucy Description: Workshop will present classroon and writing abilities as they relate to understa Content: General Science	n-tested strategi	es aimed at improving student's reading
Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: Seeing the Invisible Universe with NAS</u> Presenters: Tyson Harty, Ph.D Description: How do we "see" our invisible United to gamma—with hands-on activities and free Content: Earth/Space Science	niverse? Explore	
Day:FRI, 2/17Time: 10:00-10:50Title:Single Gender and Science:What WorksPresenters:Daphne Todd, Robert Wells, TravDescription:Science Showdown: Boys vs Girlsstrategies to increase student interest in scientStandards.Content:Interdisciplinary	is Phelps s in Science Achie	÷ .

Day: FRI, 2/17 Time: 10:00-10:50	Level: 6-12	Room: Grand Hall East	A
Title: Investigating Alternative Energy: Hyd	drogen and fuel cells		
Presenters: AMY KEZMAN, Laura Lenz			
Description: Join us for an overview and tw			e on
hydrogen & fuel cells within the context of	current energy & en	vironmental issues related to	
transportation.			
Content: Earth/Space Science			
Day: FRI, 2/17 Time: 10:00-10:50	Level: Middle	Room: Grand Hall East	В
Title: Middle School Tech Fest: Really Easy	Data Collectors		
Presenters: Dr. Janet Mcmanic			
Description: Celebrate innovation with our		-	
technology into your classroom with two hac Content: Physical Science	ands-on activities: Pr	essure in a column and carte	sian Diver.
Day: FRI, 2/17 Time: 10:00-10:50	Level: 6-12	Room: Grand Hall East	с
Title: EZ Data Collection with TI			
Presenters: Ned Colley			
Description: Ned Colley from Texas Instrum			-
science classroom. Hands-on session using	TI and Vernier techn	ology. Take home materials a	nd door
prizes!			
Content: General Science			
Day: FRI, 2/17 Time: 10:00-10:50	Level: Middle	Room: Grand Hall East I)
Title: Genetics Made Easy with Student Cr	eated Creatures		
	eated Creatures		
Title: Genetics Made Easy with Student Cre Presenters: Donna Gast Description: Students get it – genotypes, pl	henotypes, chromos	-	
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities.	henotypes, chromos	-	
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates.	henotypes, chromos	-	
Presenters: Donna Gast Description: Students get it – genotypes, p with these easy and inexpensive activities.	henotypes, chromos	-	
Presenters: Donna GastDescription: Students get it – genotypes, plwith these easy and inexpensive activities.templates.Content: Biology (Life Science)Day: FRI, 2/17Time: 10:00-10:50	henotypes, chromoso Even better, they rer Level: K-12	nember it! Come away with sa Room: Inman	amples and
 Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 Title: What is critical thinking How will I results the second se	henotypes, chromoso Even better, they rer Level: K-12	nember it! Come away with sa Room: Inman	amples and
 Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. 	henotypes, chromos Even better, they rer Level: K-12 cognize it? And how	nember it! Come away with sa Room: Inman Can I get students to think cr	amples and
 Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. Description: What is critical thinking and here 	henotypes, chromoso Even better, they rer Level: K-12 Ecognize it? And how ow will I recognize it	Room: Inman Can I get students to think cr	amples and <u>itically?</u> g science,
 Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. Description: What is critical thinking and he this workshop will show how students to get 	henotypes, chromoso Even better, they rer Level: K-12 Ecognize it? And how ow will I recognize it	Room: Inman Can I get students to think cr	amples and <u>itically?</u> g science,
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science)	henotypes, chromoso Even better, they rer Level: K-12 Ecognize it? And how ow will I recognize it	Room: Inman Can I get students to think cr	amples and <u>'itically?</u> g science,
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 Title: What is critical thinking How will I re Presenters: George Stickel, PhD. Description: What is critical thinking and ho this workshop will show how students to ge Content: General Friday -	henotypes, chromoso Even better, they rer Level: K-12 Ecognize it? And how ow will I recognize it	Room: Inman Can I get students to think cr Moving beyond merely doing e, apply, and integrate concep	amples and <u>'itically?</u> g science,
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. Description: What is critical thinking and ho this workshop will show how students to ge Content: General <u>Friday</u> - Day: FRI, 2/17 Time: 11:00-11:50	henotypes, chromoso Even better, they rer Level: K-12 Ecognize it? And how ow will I recognize it et students to analyz	Room: Inman Can I get students to think cr Moving beyond merely doing e, apply, and integrate concep	amples and <u>itically?</u> g science,
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Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. Description: What is critical thinking and he this workshop will show how students to ge Content: General <u>Friday -</u> Day: FRI, 2/17 Time: 11:00-11:50 <u>Title: The Flipped Classroom</u> Presenters: Jon Bergmann and Aaron Sams Description: What a flipped classroom is, w	henotypes, chromos Even better, they rer Level: K-12 cognize it? And how ow will I recognize it et students to analyz - 11:00-11:50 Se Level: High	Room: Inman Can I get students to think cr P Moving beyond merely doing e, apply, and integrate concep ssions Room: Piedmont v to do it well. See how	amples and ritically? g science, ots.
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 Title: What is critical thinking How will I re Presenters: George Stickel, PhD. Description: What is critical thinking and he this workshop will show how students to ge Content: General Friday - Day: FRI, 2/17 Time: 11:00-11:50 Title: The Flipped Classroom Presenters: Jon Bergmann and Aaron Sams Description: What a flipped classroom is, w they completely transformed their high sch	henotypes, chromoso Even better, they rer Level: K-12 ecognize it? And how ow will I recognize it? et students to analyz - 11:00-11:50 Sec Level: High	Room: Inman Can I get students to think cr P Moving beyond merely doing e, apply, and integrate concep ssions Room: Piedmont v to do it well. See how	emples and ritically? g science, ots.
Presenters: Donna Gast Description: Students get it – genotypes, pl with these easy and inexpensive activities. templates. Content: Biology (Life Science) Day: FRI, 2/17 Time: 10:00-10:50 <u>Title: What is critical thinking How will I re</u> Presenters: George Stickel, PhD. Description: What is critical thinking and he this workshop will show how students to ge Content: General <u>Friday -</u> Day: FRI, 2/17 Time: 11:00-11:50 <u>Title: The Flipped Classroom</u> Presenters: Jon Bergmann and Aaron Sams Description: What a flipped classroom is, w	henotypes, chromoso Even better, they rer Level: K-12 ecognize it? And how ow will I recognize it? et students to analyz - 11:00-11:50 Sec Level: High	Room: Inman Can I get students to think cr P Moving beyond merely doing e, apply, and integrate concep ssions Room: Piedmont v to do it well. See how	amples and ritically? g science, ots.

	Time: 11:00-11:50 tworks that Allow Science	Level: Elementary Educators to Thrive	Room: Manila	STA
takes place during ranges, administr discussion forums examples of the t	chers are lifelong learners. g an open and focused com rators and staff developers s they can engage in throug types of professional discus es. If science matters to yo as a door prize.	versation with collea will learn about the e gh the National Scien sions and resource sl	gues. Science Educators o extraordinary networks, lis ce Teachers Association.	of all grade stserves and We'll share these lively
•	Payne entation includes a discuss on and learning outcomes.		-	
Presenters: Melir Description: This	session will focus on the in pette accuracy. Guidelines	e and Maintenance		
Presenters: Taha Description: Com	e join fellow physics teach rom simple yet engaging ac	ers in an afternoon fi		
Description: Who	n Thomas, 7 th Grade MSP F says that Life Science can' tivities can promote studer	t be hands-on, explo		

Day: FRI, 2/17	Time: 11:00-11:50	Level: High	Room: Inman
		ators in an Inquiry-B	Based Chemistry Classroom
Presenters: Andy Fe		h	
• •	•		now graphing calculators and
			chemistry classroom for ninth grader
•	ession will use Vernier p	robeware and a TI-N	avigator.
Content: Chemistry			
Day: FRI, 2/17	Time: 11:00-11:50	Level: High	Room: University
•	Strategies for Science Ac	-	
	ard, Yolanda Jones, Angi		
•			nal strategies to enhance and
strengthen science			C C
Content: Interdiscip			
ſ	,		
Day: FRI, 2/17	Time: 11:00-11:50	Level: 6-12	Room: Techwood
	etwork of Possibilities		
Presenters: Blair Ina			
-	-	_	.0 tools in Science instruction, while
also providing take-	with-you information ab	out the most outstar	nding Web 2.0 tools available.
Content: Interdiscip	blinary		
	·	level: Middle	Room: Spring
Day: FRI, 2/17	Time: 11:00-11:50	Level: Middle	Room: Spring
Day: FRI, 2/17 Title: Sense-ational	Time: 11:00-11:50 Science	Level: Middle	Room: Spring
Day: FRI, 2/17 Title: Sense-ational Presenters: Donita	Time: 11:00-11:50 <u>Science</u> Legoas, Kristina Istre		
Day: FRI, 2/17 Title: Sense-ational Presenters: Donita Description: Sense-	Time: 11:00-11:50 <u>Science</u> Legoas, Kristina Istre ational Science is a hand	s-on session with ma	ny practical and inexpensive ways to
Day: FRI, 2/17 <u>Title: Sense-ational</u> Presenters: Donita Description: Sense- motivate your stude	Time: 11:00-11:50 <u>Science</u> Legoas, Kristina Istre ational Science is a hand ents to enjoy science. Sc	s-on session with ma	
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Day: FRI, 2/17 <u>Title: Sense-ational</u> Presenters: Donita Description: Sense- motivate your stude	Time: 11:00-11:50 <u>Science</u> Legoas, Kristina Istre ational Science is a hand ents to enjoy science. Sc the students.	s-on session with ma	ny practical and inexpensive ways to
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Day: FRI, 2/17 <u>Fitle: Sense-ational</u> Presenters: Donita Description: Sense- motivate your stude to the teacher and the Content: General So Day: FRI, 2/17 <u>Fitle: Teaching tow</u>	Time: 11:00-11:50 Science Legoas, Kristina Istre ational Science is a hand ents to enjoy science. Sc the students. cience Time: 11:00-11:50 ard Change: Preparing for	s-on session with ma ience should engage Level: High	ny practical and inexpensive ways to all of the senses as well as make sense Room: Grand Hall East A
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Day: FRI, 2/17 <u>Title: Sense-ational</u> Presenters: Donita Description: Sense- motivate your stude to the teacher and t Content: General So Day: FRI, 2/17 <u>Title: Teaching tow</u> Presenters: Kristen Description: Come	Time: 11:00-11:50 <u>Science</u> Legoas, Kristina Istre ational Science is a hand ents to enjoy science. Sc the students. cience Time: 11:00-11:50 <u>ard Change: Preparing fo</u> Dotti practice ready-to-use act	s-on session with ma ience should engage Level: High or the AP Biology Re ivities and technique	ny practical and inexpensive ways to all of the senses as well as make sense Room: Grand Hall East A <u>design</u> es you can implement immediately in
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Day: FRI, 2/17 Time: 11:00-11:50 Level: 6-12 Room: Grand Hall East	t C
Title: The Impact of Social Media on Science Learning in the Classroom	
Presenters: Dr. Sherry Crocker Description: This session will demonstrate 21st century communication and collaboration in	n Science by
using Social Networking, Social Media, and Social Media tools to engage students and/or tea	
Content: General Science	achers.
Day: FRI, 2/17 Time: 11:00-11:50 Level: K-8 Room: Grand Hall East	. D
Title: Cross-Curricular Mania (K-8)	
Presenters: Stephanie Shultz	
Description: The new Common Core standards encourage greater integration of curriculum	areas than
ever before. How can you help prepare your students this year for what will come in future	
how!	
Content: Interdisciplinary	
Day: FRI, 2/17 Time: 11:00-11:50 Level: 6-12 Room: Singapore	
Title: Science Fair Fun For Kids	
Presenters: Beverly Klein, Beverly Adams	
Description: Do you need ways to make sure that your Science Projects are student project	ts? This is a
standards based way to help students through the scientific process successfully by using a	planning
guide.	
Content: General Science	
Day: FRI, 2/17 Time: 11:00-11:50 Level: K-12 Room: Hong Kong	Sun Science
Title: Fitting the Human Body into the Science Curriculum- FERNBANK	
<u>Title: Fitting the Human Body into the Science Curriculum- FERNBANK</u> Presenters: Linda Lögdberg	
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Title: Fitting the Human Body into the Science Curriculum- FERNBANK Presenters: Linda Lögdberg Description: Most teachers believe that students need to understand how the human body works, but many find that the emphasis on improving ELA and math performance presents of accomplishing this. There are only so many hours in a day! But there is hope: the human body marvelous tool for learning in almost all science areas. This presentation presents lessons a that meet science standards for elementary and high school yet help educate the future ger health care consumers and providers about the most important machine of all—the human Content: Biology (Life Science) General Session –12:00-1:30 Keynote Address Day: FRI, 2/17 Time: 12:00-1:15 Level: K-12 Room: International Ball Title: Get The Scoop on the New Next Generation Science Standards Presenters: Stephen Pruitt, VP Achieve Description: Work is progressing to develop the Next Generation Science Standards	challenges in ody is a and activities neration of body.
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teaching.

Content: General Science

Friday – 1:30-4:20 Sessions
Day: FRI, 2/17 Time: 1:30-4:20 Level: 6-12 Room: Roswell Approximation of the second of t
Activities range from simple yet engaging activities, teacher tools, share-a-thon, and more. Related sessions continued in afternoon. Content: Physics
Friday – 1:30-2:20 Sessions
Day: FRI, 2/17 Time: 1:30-2:20 Level: K-12 Room: International Ballroom <u>Title: Science Updates</u> Presenters: Juan-Carlos Aguilar Description: This session will provide information about current policies coming out of the Georgia Department of Education that affect science instruction throughout the state. Content: General Science Exercise Content: General Science
Day: FRI, 2/17 Time: 1:30-2:20 Level: 6-12 Room: Cairo Title: Sustaining Biotechnology Labs in a Tough Economy: Making the Most of Your Resources Presenters: Sherrie Andrews Description: Come learn about how you can stretch your precious dollars and learn about resources you have in your area. Bio-Rad is dedicated to helping make your job easier and helping you develop best practices. Content: BioTechnology
Day:FRI, 2/17Time: 1:30-2:20Level: 6-12Room: SingaporeTitle:MAT StudentsPresenters:Rushton GregDescription:Join Kennesaw State University chemistry education faculty and graduate students for thisinteractive workshop aimed at addressing introductory chemistry GPS concepts at the secondary(middle, high school) level.This session is specifically targeted towards out-of-field, alternatively-certified, or otherwise new teachers who are looking for research-based lessons that are safe, fun,inexpensive, and that target common student misconceptions.Content:Chemistry
Day:FRI, 2/17Time: 1:30-2:20Level: K-12Room: ManilaTitle:Training Teachers to Apply Inquiry in K-12 SciencePresenters:Gail Marshall, Sharmistha DuttDescription:This presentation illustrates how several successful programs have helped elementary, middle, and secondary teachers learn to more effectively use inquiry-based instruction in elementary, middle and secondary science and math.Content:Interdisciplinary

Title: Baby, You Move Me!		l: Elementary	Room: Montreal
	about simple machine		n, and Newton's Laws FUN for your hat will enhance your teaching.
Title: Snacking Your Way Tl Presenters: Stacey Osborne	rrough Science *REM , Alan Aumann, ys to assess your stud inds on edible science	lents through per	Room: Vancouver formance based activities? This 3-5.
Title: Closing GAPSS in stud Presenters: Steve Tester	<u>ent's achievement.</u> on provides an overvi	I: High iew of the GAPSS	Room: University process highlighting key standards
Title: Vertical Alignment in Presenters: Lauren Horton,	Action - Biology & Ch Tasha Young repare your students	for science acros	Room: Spring s grade levels? Come learn ideas and ren to first 25 attendees.
Title: Learning and Teachin Presenters: Danielle Armstr Description: This session fo	g Science from the In ong, Shannon Thorne cuses on strategies fo	-Brackett r engaging non-tr	Room: Grand Hall East A raditional and at-risk students taking tudent engagement while increasing
Title: Hands-On Genetics: C Presenters: Chris Neill, Wer	razy Traits and Adapt dy Delano, Alen Brow redict the traits of off y creating crazy creat	vn fspring when you	Room: Grand Hall East B know the genetic makeup of the g the resulting population.

Day: FRI, 2/17 Time: 1:30-2:20 Level: K-8 Room: Hong Kong Title: GENEsis: DNA Basics- FERNBANK Presenters: Patricia Jenkins Image: Content: Biology (Life Science) Image: Content: Biology (Life Science)
Day: FRI, 2/17Time: 1:30-2:20Level: K-5Room: Hong KongTitle: Elementary Science: How to do it Right!Presenters: Nancy DiPetrillo, Kelly Bodner, Donna SmithDescription: Explore the design, structure, and impact of science in a metro-Atlanta elementary school.Teachers and school administrator will share how science labs, outdoor learning areas, and spaceprogram have been cultivated.Content: General Science
Friday – 1:30-3:20 Sessions
Day:FRI, 2/17Time:1:30-3:20Level:HighRoom:Grand Hall East CTitle:STEM Activities Using TI-NspiresPresenters:Jan Nourollahi, Ned ColleyDescription:STEM Activities will be presented using the new Ti-Nspires and Vernier Probeware.Handouts provided for teachers.Content:General ScienceDay:FRI, 2/17Time:1:30-3:20Level:ElementaryRoom:Grand Hall East DTitle:Differentiating Science in the Active Classroom (K-5)Presenters:Stephanie ShultzDescription:After every HANDS-ON ACTIVITY we will stop to reflect on the standards used & how to differentiate these tasks between all grade levels.Using a variety of resources, participants will be engaged in activities involving life, physical & earth science.Door prizes will be given at the end of this
session. Content: General Science
Friday – 1:30-4:20 Sessions
Day: FRI, 2/17Time: 1:30-4:20Level: 6-12Room: RoswellTitle: Physics Teaching Strand Co-Sponsored by SACS-AAPTPresenters: Taha MzoughiSacessonPresenters: Taha MzoughiDescription: Come join fellow physics teachers in an afternoon filled with hands on physics activities.Activities range from simple yet engaging activities, teacher tools, share-a-thon, and more. Session continued from morning.Content: Physics

Friday – 2:30-3:20 Sessions				
Description: See h interactive part (le (homework and pr	ergmann and Aaron Sar ow they used video poo cturing) <i>out</i> of class tim	dcasts to make bet ne and putting the s ss, to improve their	Room: Grand Hall East B ter use of class time by taking the non- stuff that kids were struggling with mastery. Learn how to make your classes es for learning.	
•	uebner s on activities using rive and constructive/destru		Room: Hong Kong	
Description: Dyna	Grammens, Lilly Turpin mic teachers show you easy to implement and	•	Room: Manila le STEM into your curriculum. We will give time or money.	
	ey Cantrell, Lisa Oswald ase Elementary Science		Room: Montreal High School Mentors	
Description: This s	a Howell, La'Detra Bras ession will focus on inte rested in doing and lea	eractive, innovative	Room: Vancouver e, hands-on, "out-of-the box" activities to	
Presenters: Sherri	rners.	er	Room: Spring ence on? Use backward design to infuse inquiry	

Day:FRI, 2/17Time: 2:30-3:20Level: MiddleRoom: Grand Hall East A
Title: The Continent Puzzlewhat can rearranging the continents tell you about the earth's history?
Presenters: Amy Kezman, Peggy Bailey,
Description: We will use puzzle pieces representing earth's continents to begin to investigate
continental drift. Concepts covered are; an intro to continental drift, fossil evidence, and geological time.
Content: Earth/Space Science
Day: FRI, 2/17 Time: 2:30-3:20 Level: High Room: Inman
Title: The Value of Doing Science: A Comparison of Traditional versus Virtual Laboratory Activities in
the High School Science Classroom
Presenters: Jorge Diaz
Description: Use of virtual technology in the high chool chemistry classroom focusing on the benefits
and ideas for incorporating virtual labs in chemistry instruction.
Content: Chemistry
Friday – 2:30-4:20 Sessions
Day: FRI, 2/17 Time: 2:30-4:20 Level: Elementary Room: Cairo
Title: BIOTECH - "DNA is Elementary"
Presenters: Michelle Ventura, Dana Brown, Chandan Morris Robinson
Description: Georgia State University's Bio-Bus Program is a free science outreach program
dedicated to bringing fun and engaging science activities into the K-12 classroom.
Content: Life Science
Day:FRI, 2/17Time: 2:30-4:20Level: HighRoom: Singapore
Title: Formative Assessment and Differentiation in Science
Presenters: Gilda Lyon
Description: Tired of reading about differentiation theory? Come see differentiation in action
using formative assessments as the springboard. Hands-on activities that show you how differentiaton
is done.
Content: General Science
Day: FRI, 2/17 Time: 2:30-4:20 Level: Middle Room: Techwood
Title: Journey to the Edge of the Solar System
Presenters: Jayma Koval
Description: Come learn how you can incoporate space weather topics and NASA missions into your
physical science or astronomy class. NASA giveaways are included!
Content: Earth/Space Science
Day: FRI, 2/17 Time: 2:30-4:20 Level: High Room: Piedmont
• • • •
Title: Using Higher Order Thinking Activities in Biology
Presenters: Kristen Dotti
Description: Tired of lectures and handouts? Using games, modeling and simulations, this session will
add new activities to your bag of tricks for teaching biology in an engaging and memorable manner.
Content: Biology (Life Science)

Day: FRI, 2/17	Time: 2:30-4:20	Level: K-12	Room: International Ballroom			
Title: Out of the To	extbook and Into the F	old with Notebook Fe	oldables [®]			
Presenters: Nancy	Wisker					
Description: Recha	arge your students' inte	eractive notebooks an	d turn on the motivation factor with			
Notebook Foldables [®] . Cut, fold, and more in this high-energy, hands-on session.						
Content: General Science						
	Friday – 3:30-4:20 Sessions					
		•				
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Grand Hall East B	ASSOCI		
Title: Getting Star	ted with Pod/Vodcasti	ng	A Securit			
Presenters: Jon Be	rgmann and Aaron San	ns		ED SESSION		
Description: They	have become known a	round the world as th	ne first teachers to flip the			
classroom. In this	session Bergmann & Sa	ams will walk you thro	ough creating videos students will love,	,		
and using them ap	propriately.					
Content: General	,					
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Manila			
Title: Life or death	by PowerPoint in the	<u>classroom</u>				
Presenters: Mario	n Reeves					
Description: You h	ave technologically adv	vanced students ente	ring your room. Is the use of technolog	gy		
-			ence well using electronic presentation			
and the web?	,		3			
Content: General S	Science					
Day: FRI, 2/17	Time: 3:30-4:20	Level: K-8	Room: Montreal			
Title: At-Risk Stud	ent Success in Science	<u>Classrooms</u>				
Presenters: Ginger						
-	-	•	ducators with the tools needed to mak	(e		
the science classro	om accessible and succ	cessful for all student	S.			
Content: Interdisc	plinary					
Day: FRI, 2/17	Time: 3:30-4:20	Level: College	Room: University			
	nd remediating miscor	nceptions				
Presenters: John P	•	· · · · ·				
• •			sconceptions among higher education			
	faculty and preservice	students.				
Content: Interdisc	plinary					
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Inman			
• • •	on using student shuff	•				
	Eales, Christine Wahl					
		assroom can be toug	n. Come see how a group of chemistry	,		
•	e differentiation a depa	-	. come see now a group of chemistry			
Content: Chemistr	•					
content. Chemisti	у					

Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Spring
Title: Using Journa	I Clubs in High School	to Improve Scient	ific Literacy
Presenters: Amano	da Baskett		
Description: Learn	how to set up a journa	al club within the h	igh school classroom to support student
understanding of c	urrent scientific literat	ure.	
Content: General S	science		
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Grand Hall East A
Title: Springs and S	Swings: Harmonic Mot	tion and Hooke's L	<u>aw</u>
Presenters: Chris N	leill, Wendy Delano, A	len Brown	
Description: Make	observations, measure	ements, and predic	ctions in hands-on investigations exploring
the concepts of ha	rmonic motion, oscilla	tion, natural freque	ency, resonance, and Hooke's Law.
Content: Physics		•	
,			
Day: FRI, 2/17	Time: 3:30-4:20	Level: 6-12	Room: Grand Hall East C
	prensic Dissection Feat	uring Carolina's Po	erfect Solution [®] Pigs
	na Teaching Partner		<u>_</u>
	•	ize vour instructior	of mammalian structure and function with
		•	
"real" autopsyl Par	ticipants dissect a pig	using numan autor	osv profocols. Free materials.
"real" autopsy! Par		using numan autor	bsy protocols. Free materials.
"real" autopsy! Par Content: Life Scien		using numan autor	osy protocols. Free materials.
Content: Life Scien	ice		
Content: Life Scien	Time: 3:30-4:20	Level: 3-5	Room: Hong Kong
Content: Life Scien Day: FRI, 2/17 Title: Excitable Scie	Time: 3:30-4:20 ence: Hands on for 3rc	Level: 3-5	Room: Hong Kong
Content: Life Scien Day: FRI, 2/17 <u>Title: Excitable Sci</u> Presenters: Natha	Time: 3:30-4:20 ence: Hands on for 3rc niel Haeck	Level: 3-5 I, 4th & 5th grade	Room: Hong Kong
Content: Life Scien Day: FRI, 2/17 <u>Title: Excitable Sci</u> Presenters: Nathan Description: Teach	Time: 3:30-4:20 ence: Hands on for 3rc niel Haeck ning today is challengin	Level: 3-5 d, 4th & 5th grade g. Come see some	Room: Hong Kong
Content: Life Scien Day: FRI, 2/17 <u>Title: Excitable Sci</u> Presenters: Nathan Description: Teach	Time: 3:30-4:20 ence: Hands on for 3rc niel Haeck ing today is challengin classroom for all studer	Level: 3-5 d, 4th & 5th grade g. Come see some	Room: Hong Kong



	Saturda	ay - 8:30-9:20	Sessions
Day: SAT, 2/18	Time: 8:30-9:20	Level: 6-12	Room: Roswell
Title: Standards Ba	sed Assessment for Inq	uiry Based Classro	<u>ooms</u>
•	ngful assessment that s eative ways to integrate		ased science instruction is challenging. This assessments to enhance student learning
Presenters: Marilyr Description: Do It,	e a lesson and receive v	—Use research bas	Room: Grand Hall East C sed materials to teach Science and s from Delta Education.
Day: SAT, 2/18	Time: 8:30-9:20	Level: K-8	Room: Grand Hall East B
Presenters: Jennife Description: Scienti	fic learning doesn't hav n menus. Take away act itical thinking.	ve to end when the	assroom e lesson does the excitement of science s to extend learning and engage students in
Day: SAT, 2/18	Time: 8:30-9:20	Level: High	Room: Grand Hall East A
•		•	analyze video of Angry Birds in order to d momentum.
Day: SAT, 2/18	Time: 8:30-9:20	Level: Middle	Room: Techwood
Presenters: Enosa E Description: Come	bhy behind the approac	investigate Inquiry	ril y Based Teaching. Participants will learn the ys to incorporate it into today's science
Presenters: Jennife Description: Hybrid not give your stude hybrid course for A	er Forsyth courses are becoming nts a head start? This so P Biology. Open to anyc or management, creatic	more and more co ession will focus or one that would like	Room: Grand Hall East D e) to Increase Student Achievement ommon at colleges and universities – why n one teacher's explorations into creating a e to see how to begin setting up a hybrid d how to use this medium to increase

Day: SAT, 2/18	Saturday – 8:30-10:20 Sessions				
	Time: 8:30-10:20	Level: K-8	Room: Piedmont		
Title: Elementary Se	cience Olympiad Coach	<u>es Mini-worksho</u> g	2		
Presenters: Kelly Pr	ice				
Description: Learn I	how to start Science Oly	mpiad at your ele	mentary school. Georgia hosts one of the		
largest state compe	titions for Elementary S	cience Olympiad.	Learn about the events, resources, fund		
raising, and how to	get involved with the st	ate competition.			
Content: General So	-	•			
	Saturday	y — 9:30-10:20	Sessions		
Dave SAT 2/19	Time: 9:30-10:20	Level: 6-12	Room: Roswell		
Day: SAT, 2/18					
			cal resources to reach students"		
•	Bennett, Nancy Deal, Bri				
			se local resources such as Georgia's barrier		
•	wamps to teach science	e standards at mul	tiple grade levels.		
Content: Life Science	ce de la constante de la consta				
D CAT 2/10	T :	Laurah C 12	Dearwy Chieses AD		
Day: SAT, 2/18	Time: 9:30-10:20	Level: 6-12	Room: Chicago AB		
Title: Teaching Scie					
Presenters: Donna		6			
•	what makes a good song	g for teaching scie	nce concepts and how to use it effectively		
in the classroom.					
Content: Interdiscip	olinary				
Daw 647 2/40	Time: 9:30-10:20				
Dav: SAL. 2/18	TITLE. 3.30-10.20	Level: K-8	Room: Grand Hall East B		
Day: SAT, 2/18 Title: Animal Classif		Level: K-8	Room: Grand Hall East B		
Title: Animal Classi	fication	Level: K-8	Room: Grand Hall East B		
Title: Animal Classi Presenters: Linda B	fication ishop				
Title: Animal Classif Presenters: Linda B Description: I use lin	<u>fication</u> ishop ve animals to help stude	ents understand t	Room: Grand Hall East B ne different classification systems of the		
Title: Animal Classif Presenters: Linda B Description: I use lin Animal Kingdom. Sl	<u>fication</u> ishop ve animals to help stude how different ways to c	ents understand t			
Title: Animal Classi Presenters: Linda B Description: I use lin	<u>fication</u> ishop ve animals to help stude how different ways to c	ents understand t			
Title: Animal Classi Presenters: Linda B Description: I use lin Animal Kingdom. Sl Content: Life Science	fication ishop ve animals to help stude how different ways to c ce	ents understand t lassify animals.	ne different classification systems of the		
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Day: SAT, 2/18	Time: 9:30-10:20	Level: High	Room: Techwood
Title: Everything is ab	out Science		
Presenters: Courtney	Boehlke, Becky Bundy		
Description: Two High	n School science teache	rs, with experience	e as scientists, bring the Scientific Method
to the real world inter	rests of the High School	student	
Content: General Scie	ence		
Day: SAT, 2/18	Time: 9:30-10:20	Level: Middle	Room: Grand Hall East D
Title: How to teach Ea	arth science and effecti	vely reach every t	ype of learner
Presenters: Sarah Jor	dan		
Description: I'll share	activities that help each	n type of learner: a	auditory, visual and kinesthetic. I'll share
vocabulary practices,	lab ideas, and technolo	gy resources that v	will greatly improve ALL your students'
understanding			
Content: Earth/Space	Science		
	Saturday ·	– 9:30-11:20 S	essions
Day: SAT, 2/18	Time: 9:30-11:20	Level: Middle	Room: Spring
Title: Differentiation	in the Science Classroo	<u>m</u>	
Presenters: Gilda Lyo	n		THE HER
Description: Experien	ce a differentiated class	sroom complete w	vith formative assessments.
Content: General Scie	ence		
Day: SAT, 2/18	Time: 9:30-11:20	Level: High	Room: Inman
Title: Labs using the V	<u>Vii</u>	-	
Presenters: Donna M	ullenax		
Description: We will p	perform several experim	nents using Wii coi	ntrollers and balance to collect motion
data. The Wii accesso	ories will be bluetooth ir	nterfaced with lap	tops.
Content: Physics			
	Saturday -	- 10:30-11:20 9	Sessions
Day: SAT, 2/18	Time: 10:30-11:20	Level: Middle	Room: Roswell
Title: Vocab Motion F	Potion!		
Presenters: Jamila Bo	wser, Lynda Byrne		
Description: Discover	a way to increase scien	ice literacy by enga	aging your students in tactile learning.
Participants will be ex	posed to a drill-based s	trategy that increa	ases vocabulary knowledge and
understanding.			
Content: General Scie	ence		
Day: SAT, 2/18	Time: 10:30-11:20	Level: 2-8	Room: Piedmont
Title: Interative Scien	<u>ce Notebooks</u>		
Presenters: Sally Cree			
Description: Come an	d learn how to use inte	ractive notebooks	as an ongoing assessment and feedback
tool. Interactive notel	books assist students in	developing higher	order thinking and reasoning skills. It is
			and mathematics. During the session
-			w entries in your very own journal!
Content: General			

Day: SAT, 2/18 <u>Title: Bridging the G</u> Presenters: Zoe Eva	Time: 10:30-11:20 ap with Family Science N as and Carol Turner	Level: K-12 light	Room: Grand Hall East B
Description: Would parent and communanswers to these qu	you like to increase your ity involvement? Are yo	u looking for "fun' lanning and cond	re you stumped by ways to increase ' ways to engage your students? The ucting a family science night. Come find vent.
SAT, 2/18 Tin	ne: 10:30-11:20 Lev	vel: Elementary	Room: Grand Hall East A
	Elementary School Child		a Science Story
Description: In this s	storybook about habitats	process preservice	e teachers used to brainstorm and create orce and motion using concept maps .
Day: SAT, 2/18	Time: 10:30-11:20	Level: High	Room: Chicago AB
		-	cilitate student learning.
Presenters: Frank Lo			
•	o mathematical models (e strategies used in the modeling able students to make scientific
Day: SAT, 2/18	Time: 10:30-11:20	Level: High	Room: Techwood
Title: Physics & the	Pad	0	
Presenters: Jaclyn N	lurray		
Description: Use the	iPad to present physics	concepts.	
Content: Physics			
	- · · ·		-
		- 10:30-12:20	
Day: SAT, 2/18 <u>Title: Energy: Sun to</u> Presenters: Jamie Al	Time: 10:30-12:20 • Atmosphere to Earth kin, ,	Level: Middle	Room: Grand Hall East C
•	atmosphere to Earth. Ha		w energy is transformed as it comes from and some give-aways! Grades 6 - 12
Day: SAT, 2/18	Time: 10:30-12:20	Level: 6-12	Room: Grand Hall East D
		ood Safety Curric	ulum in Science Courses
	sion will provide applica ne NSTA and will highligh es.	-	lete curriculum developed by the FDA in ent the curriculum into a variety of high
	,		

	Saturday	- 11:30-12:2	20 Sessions
Day: SAT, 2/18	Time: 11:30-12:20	Level: K-8	Room: Grand Hall East B
	le Docs for Collaborative	<u>Lab Reports</u>	
Presenters: Rebee			
Description: Focu	ses on teaching students l	how to use Inte	rnet based, free document editing software
that will allow the	em to work collaboratively	both synchrone	ously and asynchronously.
Content: General	Science		
Day: SAT, 2/16	Time: 11:30-12:20	Level: K-12	Room: Grand Hall East A
Title: What is Scie	ence Olympiad and how d	lo I start at tean	n at my school?
Presenters: Kelly			
•	•		cience Olympiad competition looks and feels
		-	suggestions for running team
•	es and much more will be	shared.	
Content: Interdise	ciplinary		
Day: SAT, 2/18	Time: 11:30-12:20	Level: 6-12	Room: Chicago AB
Presenters: Pame	nitiative at Georgia Perim Ia Gore, Kouok Law, Pame		nson, Margie Lewkowicz, Margaret Major,
•	ase the number of student	nation on the gr	ants that GPC recently received, which are
Description: This designed to increa Content: Interdiso Day: SAT, 2/18	ase the number of student ciplinary Time: 11:30-12:20	nation on the gr ts majoring in S Level: High	rants that GPC recently received, which are TEM subjects. Room: Spring
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular B</u>	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordat	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson,	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the e	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won classroom? This w	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the e	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won classroom? This w alignment.	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the ex workshop will provide han	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won classroom? This w	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the ex workshop will provide han	nation on the gr ts majoring in S	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular B</u> Presenters: Laura Description: Won classroom? This v alignment. Content: Life Scie	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the ex workshop will provide han nce	nation on the gr ts majoring in S Level: High De & standards Kelly Dabney xcitement of mo ds-on experience	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular B</u> Presenters: Laura Description: Won classroom? This w alignment. Content: Life Scie Day: SAT, 2/18	Time: 11:30-12:20 Biology: Feasible, affordat Regassa, Donna Hanson, dering how to bring the ex workshop will provide han nce Time: 11:30-12:20	nation on the gr ts majoring in S Level: High ble & standards Kelly Dabney xcitement of mo ds-on experience Level: Mido	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won classroom? This v alignment. Content: Life Scie Day: SAT, 2/18 <u>Title: Case Studie</u>	ase the number of student ciplinary Time: 11:30-12:20 Biology: Feasible, affordat Regassa, Donna Hanson, dering how to bring the ex workshop will provide han nce Time: 11:30-12:20 s of Problem Based Learn	nation on the gr ts majoring in S Level: High ble & standards Kelly Dabney xcitement of mo ds-on experience ds-on experience Level: Mido ing	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards
Description: This designed to increa Content: Interdiso Day: SAT, 2/18 <u>Title: Molecular B</u> Presenters: Laura Description: Won classroom? This v alignment. Content: Life Scie Day: SAT, 2/18 <u>Title: Case Studie</u> Presenters: Larry	Time: 11:30-12:20 Time: 11:30-12:20 Siology: Feasible, affordak Regassa, Donna Hanson, dering how to bring the ex- workshop will provide han nce Time: 11:30-12:20 s of Problem Based Learn Hampton, Lucy Guillory, J	nation on the gr ts majoring in S ⁻ Level: High <u>ble & standards</u> Kelly Dabney xcitement of mo ds-on experience Level: Mido <u>ing</u> amila Segure	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards dle Room: University
Description: This designed to increa Content: Interdisc Day: SAT, 2/18 <u>Title: Molecular B</u> Presenters: Laura Description: Won classroom? This v alignment. Content: Life Scie Day: SAT, 2/18 <u>Title: Case Studie</u> Presenters: Larry Description: This	Time: 11:30-12:20 Siology: Feasible, affordat Regassa, Donna Hanson, dering how to bring the ex- workshop will provide han nce Time: 11:30-12:20 s of Problem Based Learn Hampton, Lucy Guillory, J presentation will explain a	nation on the gr ts majoring in S ⁻ Level: High ble & standards Kelly Dabney xcitement of mo ds-on experience Level: Mido ing amila Segure and demonstrat	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards dle Room: University e the use of Problem Based Learning as a too
Description: This designed to increa Content: Interdisc Day: SAT, 2/18 <u>Title: Molecular E</u> Presenters: Laura Description: Won classroom? This v alignment. Content: Life Scie Day: SAT, 2/18 <u>Title: Case Studie</u> Presenters: Larry Description: This	Time: 11:30-12:20 Siology: Feasible, affordat Regassa, Donna Hanson, dering how to bring the ei- workshop will provide han nce Time: 11:30-12:20 s of Problem Based Learn Hampton, Lucy Guillory, J presentation will explain a GPS in life science and physical presentation contents of the science o	nation on the gr ts majoring in S ⁻ Level: High ble & standards Kelly Dabney xcitement of mo ds-on experience Level: Mido ing amila Segure and demonstrat	rants that GPC recently received, which are TEM subjects. Room: Spring -aligned blecular biology into your high school ce, teaching materials, and standards dle Room: University e the use of Problem Based Learning as a too

Dates to Remember

NSTA Regional Conference in Atlanta (Counts as 2013 GSTA Conference) 2013 GSTA Awards Applications Window 2014 GSTA Conference Call for Proposals Nov. 1-3, 2012 Sept. 1 - Nov. 30, 2012 June 1- Sept. 30, 2013





Attention OTE GSTA Members

- Meet the candidates at the conference. Look for signs in front of the exhibit hall. Come to the first general session to put a face with the name.
- Members may vote at the conference near the Registration area.







Try the food court at **The Mall at Peachtree Center** (231 Peachtree Street). It is connected to the Hyatt from the lobby level.

Farmer's Basket (Southern buffet) Bistro 7 (Mediterranean)

Café Momo (buffet by the pound)

> Checkers (hamburgers)

> > **Chick-fil-a** (chicken)

Dairy Queen (burgers and hotdogs)

Great Wraps (Greek sandwich/salad)

GW Cheesesteak (Philly cheesesteak, subs)

Jack's Sandwich Shop (sandwiches, grilled items)

> Noodle Café (Pan-Asian)

Roman Delight Pizza (pizza, calzones)

Yami Yami (sushi and seafood)

Café du Jour (soups, roll-ups, hot food)

> Kameel's Café (fresh and healthy)

Malibu Wings (wings and vegetables) Moe's Southwest Grill

(tacos, burritos, more)

My Friend's Place (soup, sandwich, salad)

Oriental Express (Mandarin/Cantonese/ Szechuan)

> Subway (sub sandwiches)

Tropical Cajun (taste of New Orleans)

Additional Area Restaurants

Name	Address	Hours	Price	Other
Hsu's	192 Peachtree	lunch, dinner	L: \$8-16	Business Casual
(Chinese)		,	D: \$12-26	
Hooters	209 Peachtree	lunch, dinner	\$7-15	Casual
(American, Sports)				
Goodfella's Pizza/Wings	209 Peachtree	lunch, dinner	\$6-10	Casual
(Fast Italian)				
Sun Dial-top of Westin	210 Peachtree	lunch, dinner	L:\$13-22+	Reservations encouraged,
(Upscale, menu selections vary,		bar until 2	D:\$15-55+	Business Casual required,
visit website for current		AM		rotating restaurant, bar only
offerings)				option for views
Hard Rock Café (American)	215 Peachtree	lunch, dinner	\$10-22	Very casual
Fire of Brasil	219 Dopohtrop	lunch dinner	L: \$17.95	Drice per person
	218 Peachtree	lunch, dinner	L: \$17.95 D: \$41.50	Price per person
(Brazilian steakhouse)			U. אָ41.50	
Benihana	229 Peachtree	lunch, dinner	L: \$8-18	Reservations accepted,
(Japanese)			D: \$17-43	Business Casual
Azio	229 Peachtree	lunch, dinner	L: \$10-17	Reservations accepted online
(Italian)			D: \$15-37	and by phone, Business Casual
Durango Steak House	230 Peachtree	lunch, dinner	L: \$9-19	Business Casual
(steakhouse)			D: \$10-28	
Gibney's Pub	231 Peachtree	lunch, dinner	\$8+	Peachtree Center Mall,
(Pub fare)				connected to Hyatt by
				Skywalk
Ninfa's	231 Peachtree	lunch, dinner	\$8-12	Peachtree Center Mall,
(Mexican)				connected to Hyatt by
				Skywalk
Sear	265 Peachtree	dinner	\$16-30	Reservations, business casual
(Seafood, Steak)			entrees, \$7	
			sides	
Pacific Rim Bistro	303 Peachtree	dinner	\$15-25	Casual dining, reservations
(Asian/pan-Asian)				
Max Lager's Woodfire Grill	320 Peachtree	lunch, dinner	Under \$30	Casual dining, reservations
(American, brew pub)				
Barley's Sports Bar	338 Peachtree	dinner	\$9-15	Casual dining, entertainment
(American, Sports)				
(American, Sports) McCormick/Schmicks	190 Marietta	dinner	\$16-25	Business casual, reservations
	190 Marietta	dinner	\$16-25	Business casual, reservations
McCormick/Schmicks	190 Marietta 11 Baker	dinner	\$16-25	Business casual, reservations Casual, reservations
McCormick/Schmicks (Seafoof, specialties)		dinner		
McCormick/Schmicks (Seafoof, specialties) Mandarin House		dinner		
McCormick/Schmicks (Seafoof, specialties) Mandarin House (Chinese, sushi)	11 Baker		\$10-15	Casual, reservations
McCormick/Schmicks (Seafoof, specialties) Mandarin House (Chinese, sushi) Pitty Pat's Porch	11 Baker		\$10-15	Casual, reservations



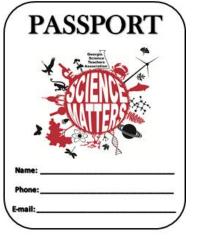
Door Prize Giveaway

Friday, 17 February @ 4:30pm

Exhibitors providing door prizes:

AIMS Education Foundation American Book Company Britannica Digital Learning **Camp Invention** Capital Microscope Services, Inc. **Carolina Biological Supply Centers for Disease Control** Chattahoochee Nature Center **CPO** Science Delta Education **Diamond Del's Gem Mining Adventure Dinah-Might Adventures Dodge Learning Resources Educational Innovations** Edumatics ETA/Cuisenaire ExploreLearning Fernbank Museum of Natural History Flinn Scientific **Frey Scientific** Georgia Aquarium Georgia Bioscience Technology Institute Georgia Farm Bureau/Agriculture in the Classroom Georgia Mineral Society Georgia Project Learning Tree Georgia Sea Turtle Center Georgia Voyager Magazine Georgia Youth Science & Technology Centers

Glencoe/McGraw-Hill High Touch High Tech of Greater Atlanta Howard Hughes Medical Institute Lab-Aids, Inc. National Nanotechnology Infrastructure Network PASCO scientific Pearson Education **Peoples Education** Petra, Inc. SAR Ink Books Sargent Welch/Science Kit/Wards Natural Science Schooltran ScienceFirst/Starlab **Texas Instruments** The School Box **Triumph Learning** University of Georgia, **4-H Environmental Education** University of Georgia, Depts. of Entomology & Plant Pathology University of Georgia, Warnell School of Forestry & Natural Resources Wildlife Wonders - North Georgia Zoo World Book Classroom Zoo Atlanta



Vendor Prize Passport

- To be included in the prize drawing, pick up your GSTA Vendor Passport in the Exhibit Hall. As you visit with the various vendors, have them give your passport a stamp.
- Once you have at least 15 stamps, drop your passport in the door prize box at the Exhibit Hall Registration Desk, by 3:00 PM on Friday.
- A Door Prize drawing will be held on Friday, Feb. 17["] @ 4:30 in the Exhibit Hall. Must be present to win.





Booth#	Exhibitor	Website	
903	AIMS Education Foundation	www.aimsedu.org	
907	American 3B Scientific	www.a3bs.com	
605-606	American Book Company	www.americanbookcompany.com	
1305	Blue Ridge Outdoor Education Center	www.blueridgeoec.com	
302	Britannica Digital Learning	www.info.eb.com	
301	Brock Optical	www.magiscope.com	
604	Camp Invention	www.campinvention.org	
1101-1102	Capital Microscope Services	www.microscopesandmore.com	
601-602	Carolina Biological Supply	www.carolina.com	
1004	1004 Catalyst Learning Curricula www.catalystlearn		
1300 CEISMC - Georgia Tech		www.ceismc.gatech.edu	
607	Cengage Learning	www.gale.cengage.com	
1207	Centers for Disease Control	www.cdc.gov	
1200	Charlie Elliott Wildlife Center	www.georgiawildlife.com	
507	Chattahoochee Nature Center	www.chattnaturecenter.org	
208,308	308 CPO Science www.cposcience.com		
204-205 Delta Education www.deltaeducat		www.deltaeducation.com	
603	Diamond Del's Mining Adventure	www.diamonddel.com	
705-706	Dinah-Might Adventures	www.dinah.com www.dzacademy.com	
802	Dodge Learning Resources/ Benchmark Education	www.dodgelearning.com	
Dodge Learning Resources/		www.dodgelearning.com	
Dodge Learning Resources/		www.dodgelearning.com	
805	805 Dodge Learning Resources/ National Geographic School Publishing www.dodgelearning.com		
1307	Educational Experiences	www.educationalexperiences.org	
1308	Educational Express	www.educationalexpress.com	
808,908 Educational Innovations www.tea		www.teachersource.com	





* Parties **			
Booth#	Exhibitor	Website	
103	Edumatics	www.edusmart.com	
503	Emory College Center for Science Education	www.cse.emory.edu	
402	Environmental Education Alliance of Georgia	www.eealliance.org	
901-902	ETA/Cuisenaire	www.etacuisenaire.com	
106	EXAMgen, Inc.	www.examgen.com	
1204	ExploreLearning	www.explorelearning.com	
406	Fernbank Museum of Natural History	www.fernbankmuseum.org	
1400	Fisher Science Education	www.fisheredu.com	
107	Flinn Scientific	www.flinnsci.com	
206-207	Frey Scientific	www.freyscientific.com	
300	Georgia Aquarium	www.georgiaaquarium.org	
203	Georgia Bioscience Technology Institute	www.gabioscience.org	
		www.eeingeorgia.org www.gadnr.org/education	
1301	Georgia Farm Bureau/Agriculture in the Classroom	www.gfb.org	
707	Georgia Mineral Society	www.gamineral.org	
801 Georgia Power		www.georgiapower.com/learning power	
405	Georgia Project Learning Tree	www.georgiaplt.org	
504	Georgia Sea Turtle Center	www.georgiaseaturtlecenter.org	
1206	Georgia State University - MSIT	http://education.gsu.edu/main/ online_ed.htm	
1203	Georgia Voyager Magazine	www.gavoyager.com	
905	Georgia Youth Science & Technology Centers	www.gystc.org	
3UD-3U/ ~ · ·		http://cheller.phy.georgiasouthern. edu/gears	
304-305	Glencoe/McGraw-Hill	www.glencoe.com	
1104	Grand Classroom	www.grandclassroom.com	
704	High Touch High Tech of Greater Atlanta	www.sciencemadefunatl.net	
806	Howard Hughes Medical Institute	www.BioInteractive.org	





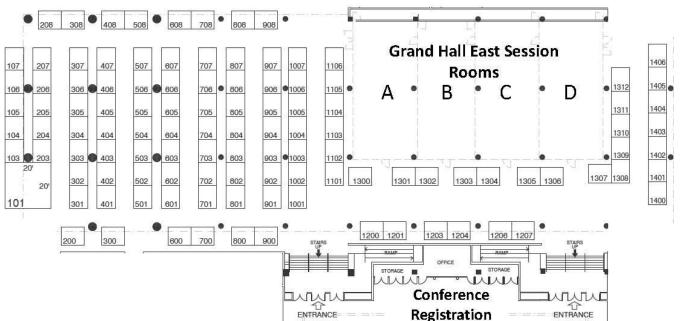
Booth#	Exhibitor	Website
904	It's About Time	www.its-about-time.com
703	Juice Plus +	
701-702	Lab-Aids, Inc.	www.lab-aids.com
1007	LEGO Education	www.legoeducation.us
303	Nancy Larson Publishers	www.nancylarsonscience.com
1006	National Nanotechnology Infrastructure Network	www.nnin.org/nnin_education_ training.html
506	Oxford Institute for Environmental Education	www.oiee.oxford.emory.edu
1106	PASCO scientific	www.pasco.com
1005	Pearson Education	www.pearsonschool.com
1105 Peoples Education www.peo		www.peopleseducation.com
1001 Petra, Inc. www.tcmpub		www.nsta.org www.tcmpub.com www.triumphlearning.com
200	SAR Ink Books	www.sarinkbooks.com
807	Sargent Welch Science Kit Wards Natural Science	www.sargentwelch.com www.sciencekit.com www.wardsci.com
1201	Schooltran	www.schooltran.com
101,102, 201,202	ScienceFirst/Starian	
906	Southeastern Reptile Rescue www.snakesareus.com	
502	Stone Mountain Memorial Association	www.stonemountainpark.org
600,700 Texas Instruments www.education.ti		www.education.ti.com
403 The Clean Air Campaign		www.cleanaircampaign.org/schools
408 The EDMAT Company www.edm		www.edmatcompany.com
1306 The School Box www.school		www.schoolbox.com
1002 Triumph Learning www.triumphlea		www.triumphlearning.com
105University of Georgia, Departments of Entomology & Plant Pathologyhttp://plantpath.cae www.ent.uga.edu		http://plantpath.caes.uga.edu www.ent.uga.edu
401	University of Georgia, Georgia 4-H	
407 University of Georgia, Odum School of www.ecology.uga.ec		www.ecology.uga.edu





Booth#	Exhibitor	Website	
1302	University of Georgia, Warnell School of Forestry and Natural Resources	www.warnell.uga.edu	
505	USDA Forest Service	www.naturalinquirer.org www.scienceinvestigator.org	
1304	1304 U.S. Solar Installation Group, LLC www.ussolar		
608,708	Valdosta State University	www.valdosta.edu	
1303	Vizitech USA	www.vizitech.com	
104	Walden University	www.waldenu.edu	
1103	Western Governors University	www.wgu.edu	
1401	Wildlife Wonders - North Georgia Zoo	www.wildlifewonders.org	
1003	World Book Classroom	www.worldbook.com	
501	Zoo Atlanta	www.zooatlanta.org/educators_ lounge	

Exhibit Hall Layout





Personal Conference Schedule

Thursday Planner

Time	Room	Session
8:00		Exhibit Hall Open – No Sessions
9:00		
10:00		
11:00		
12:00		
1:00		
2:00		
3:00		
4:00		District Meet & Greet in Exhibit Hall

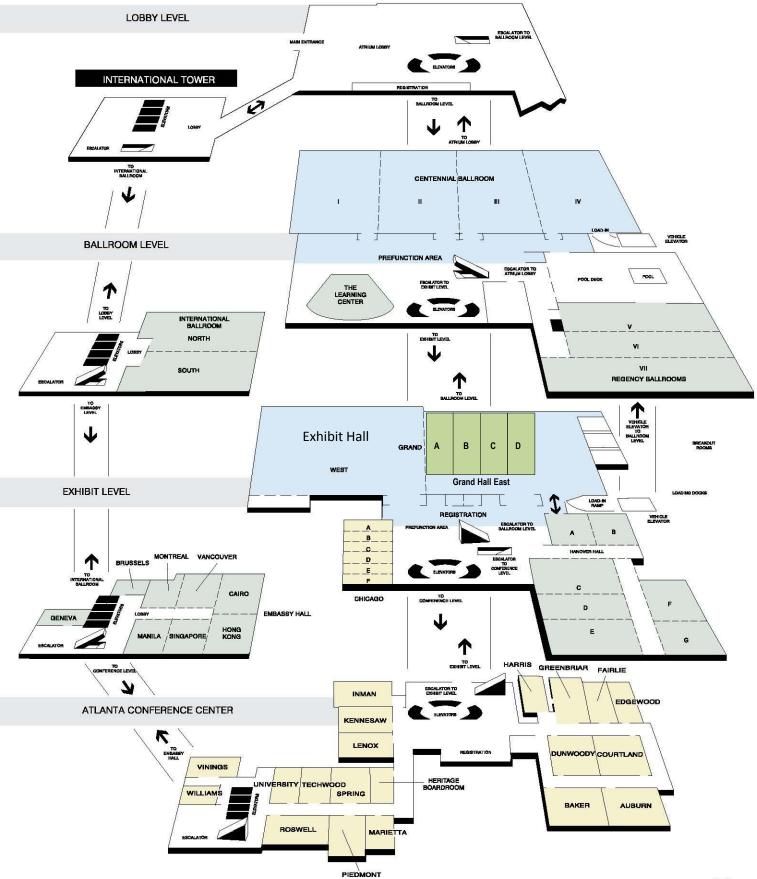
Friday Planner

Time	Room	Session
8:00		Exhibit Hall Open – No Sessions
9:00		
10:00		
11:00		
12:00		General Session: Dr. Stephen Pruitt – Next Generation Science Standards International Ballroom
1:30		
2:30		
3:30		
4:30		Exhibit Hall Door Prizes – Must be present to win!
6:30		Awards Banquet @ Georgia Aquarium – Tickets Required

Saturday Planner

Time	Room	Session
8:30		
9:30		
10:30		
11:30		

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TI physics lesson: Newton's Third Law Real-world experience: Shuttle Launch

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