

Georgia Science Teachers Association

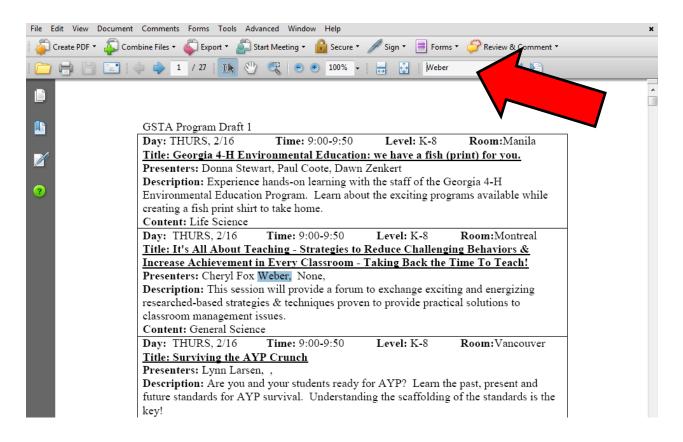
Annual Conference

At

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

www.georgiascienceteacher.org

- The following pages are a draft of the final program that will be printed and shared at the GSTA Conference.
- You may search for your session by using the "Find" box in Adobe. See example below.



- If you notice errors or problems with the program please email Sally Creel – <u>sally.creel@gmail.com</u>. In your e-mail please be specific about the date, time, title, and presenters of the sessions and exactly what needs to be corrected.
- Revised versions of the program will be posted at later dates.

GSTA Program

Thursday – 9:00-9:50 Sessions				
Day: THURS, 2/16	Time: 9:00-9:50	Level: K-8	Room: Montreal	
Title: Science matters	: Materials, Assessme	<u>ents, Techniques</u>	s, Technology, Experiences, V [®]	
Research, Strategies	with GYSTC			
Presenters: Julia Cele	bi, Angela Guilford, St	eve Rainey	& IELINDUGY CENTER Strand	
Description: The region	onal coordinators of 1	3 GYSTC's will pr	esent a wide range of best practices	
activities in all areas o	of K-8 science. Activitie	es, materials, and	d pedagogical strategies will be modeled.	
Content: General Scie	ence			
Day: THURS, 2/16	Time: 9:00-9:50	Level: K-8	Room: Manila	
Title: Georgia 4-H Env			<u>n (print) for you.</u>	
Presenters: Donna St				
	_		the Georgia 4-H Environmental Education	
_	t the exciting program	ns available while	e 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 S				
Presenters: Anthony				
-	_		literacy, technology. Topics: evidence,	
	-	•	scope. Receive presenters' textbook Forensic	
Science: Fundamenta	-	d free CD of reso	urces.	
Content: Interdisciplin	nary			
	-			
Day: THURS, 2/16	Time: 9:00-9:50	Level: K-8	Room: Singapore	
			ging Behaviors & Increase Achievement in	
Every Classroom - Tal		reach		
Presenters: Cheryl Fo		m to ovebongo	waiting and anargining recoarched based	
-	-	-	exciting and energizing researched-based	
		oractical solution	ns to classroom management issues.	
Content: General Scie	ence			
Day: FRI, 2/17	Time: 8:00-8:50	Level (12	Deem , Hong Kong	
			Room: Hong Kong	
understanding and a		le national scien	ce curriculum to improve student	
Presenters: Randy Em			of mochines. New one tooch your students to	
-		-	of machines. You can teach your students to	
		inputer numerica	al control software downloaded for free.	
Content: General/Eng	gineering			
Day: THURS, 2/16	Time: 9:00-9:50	Level: K-8	Room: Vancouver	
Title: Surviving the A		LEVEI. NºO		
Presenters: Lynn Lars		dy for AVD2 Las	rn the nact procent and future standards for	
			rn the past, present and future standards for	
AYP survival. Underst	landing the scartolding	g of the standard		
Content: General Scie	200	-	1	

Day: THURS, 2/16			
	Time: 9:00-9:50	Level: High	Room: Cairo
Title: Centers in High		<u>, They Can Work!</u>	
Presenters: Jo-ne Bou			
		-	the high school science classroom can
-	-	-	This presentation will give participants
		g students through	different learning centers and will model
various management	-		
Content: General Scie	nce		
Day: THURS, 2/16	Time: 9:00-9:50	Level: High	Room: Inman
Title: Surviving in a St		-	
Presenters: Pamela Ci			<u>1997</u>
			tion, flexible grouping, and self-
			ds-based high school science classroom.
Content: Interdisciplir		ustery in a standard	
Day: THURS, 2/16	Time: 9:00-9:50	Level: 6-12	Room: Roswell
<u>Title: The Madison Co</u>			
Presenters: Andy Felt			<u>,</u>
	•	ogram uses soil an	d water quality projects for
•	•	-	vices to engage in hands-on activities that
demonstrate student	•	··· .	
Content: Interdisciplin			
•	,		
Day: THURS, 2/16	Time: 9:00-9:50	Level: 6-12	Room: University
Title: Exploring Explo	ring: Lessons in Miss	ion Design	
Presenters: Annette P	earson		
Description: Make a n	nodel of "MESSENGE	R," NASA's Mercur	y mission, and experience the "Mission
•		tem science with S	TEM activities, exploring the process of
mission design. Free I	materials.		
Content: Earth/Space	Calanaa		
	Science		
Day: THURS, 2/16	Time: 9:00-9:50	Level: K-12	Room: Spring
Day: THURS, 2/16 Title: Teaching Writin	Time: 9:00-9:50 g in the Science Class		Room: Spring
Day: THURS, 2/16 Title: Teaching Writin Presenters: Ollie Man	Time: 9:00-9:50 g in the Science Class ley	<u>s</u>	
Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers	Time: 9:00-9:50 g in the Science Class ley teach science to stud	<u>s</u> dents who struggle	Room: Spring with writing. This workshop will focus on
Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers differentiated instruct	Time: 9:00-9:50 g in the Science Class ley teach science to stud ion with emphasis or	<u>s</u> dents who struggle	
Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers	Time: 9:00-9:50 g in the Science Class ley teach science to stud ion with emphasis or	<u>s</u> dents who struggle	
Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers differentiated instruct Content: General Scie	Time: 9:00-9:50 g in the Science Class ley teach science to stud tion with emphasis or nce	s dents who struggle n writing.	with writing. This workshop will focus on
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Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers differentiated instruct Content: General Scie Day: THURS, 2/16 <u>Title: Distance Learnin</u>	Time: 9:00-9:50 g in the Science Class ley teach science to stud tion with emphasis or nce Time: 9:00-9:50 ng at the Georgia Sea	<u>s</u> dents who struggle n writing. Level: 6-12	with writing. This workshop will focus on
Day: THURS, 2/16 <u>Title: Teaching Writin</u> Presenters: Ollie Man Description: Teachers differentiated instruct Content: General Scie Day: THURS, 2/16 <u>Title: Distance Learnin</u> Presenters: Teddy Ive	Time: 9:00-9:50 g in the Science Class ley teach science to stud tion with emphasis or nce Time: 9:00-9:50 ng at the Georgia Sea y	s dents who struggle n writing. Level: 6-12 a Turtle Center	with writing. This workshop will focus on Room: Grand Hall East A
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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
Day: THURS, 2/16 Time: 9:00-9:50 Level: HS Room: International Ballroom <u>Title: Skull Evolution</u> 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 <u>Title: Technology Performance Learning Tasks - K-12</u> 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, 2/16Time: 10:00-10:50Level: ElementaryRoom: Manila <u>Title: Creative Writing in Science</u> Presenters: Kristen Lyle, Andrea PostDescription: 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 organizersContent: Interdisciplinary
Day: THURS, 2/16Time: 10:00-10:50Level: K-8Room: MontrealTitle: Effective Vocabulary Activities to Get Kids Talking Science
Presenters: Julie Celebi Description: Session will feature a variety of research based effective strategies to help in the development and increased literacy of students in the science classroom through interactive activities. Content: General Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: 6-12 Room: Vancouver Title: Science & The Common Core Presenters: Sally Creel GSSA Presenters: Sally Creel Same the sele estimation the sele estimatis and the sele estin the sele estimation the sele estin the sele e
Description : Explore the role science plays in the roll out of the new Common Core standards during this session. See concrete examples of how the Literacy standards for the CCGPS can easily be incorporated into everyday instruction. Content: General Science/Interdisciplinary
Day: THURS, 2/16 Time: 10:00-10:50 Level: K-5 Room: Singapore Title: Rocket Science – It's Elementary! K-5 K-5

Presenters: Pepper Misinco, Pam Googe, Melanie Peterson, Lisa Whelan, Tammy Shiflett Description: Participants will be involved in 4 rotations experiencing hands-on activities designed to
enhance earth science space standards in Kindergarten through 5 th grade.
Content: Earth Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: K-12 Room: Hong Kong
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: THURS, 2/16 Time: 10:00-10:50 Level: K-5 Room: Grand Hall East D
Title: Technology With Science
Presenters: Michelle Moday, Scott Monroe, Erin Harris
Description: Do you want to integrate technology and science? Join this presentation to learn more
about teaching with technology and integrating technology in your elementary science classroom.
Content: General
Day: THURS, 2/16 Time: 10:00-10:50 Level: 6-12 Room: Cairo
Title: Cheap and Easy Field Research: DiscoverLife.org
Presenters: Jonathan Lochamy
Description: Nothing in the classroom can replace authentic field research. See how photographing,
uploading, and identifying GA wildlife can both teach your students real science and help serious
environmental research.
Content: Biology (Life Science)
Day: THURS, 2/16 Time: 10:00-10:50 Level: K-5 Room: Roswell
Title: Using Hip Hop Music to Contextualize the Science Experiences of Urban Elementary School
<u>Students</u>
Presenters: Neporcha Cone, Charlease Kelly-Jackson
Description: The purpose of this session is to present teachers with a strategy, e.g., hip hop music, that
can be used as a vehicle to enhance the science experiences of urban youth.
Content: General Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: High Room: Inman
Title: Forensic Science - Going beyond textbook science
Presenters: Rebecca Austin
Description: Teaching Forensic Science enables a teacher to show students the true applicability of
science concepts previously studied. Handouts! Freebies! Door prizes!
Content: Interdisciplinary
Days THURS 2/16 Times 10:00 10:50 Levels 6.12 Deares University
Day: THURS, 2/16 Time: 10:00-10:50 Level: 6-12 Room: University
Title: Learning and teaching mineral properties using a self-guided STEM mineral kit
Presenters: Dion Stewart

Description: Using STEM generated mineral kits, participants will learn a teaching method integrating a mineral ID flow chart with a crossword puzzle to teach mineral properties Content: Earth/Space Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: Middle Room: Techwood Title: Making the Most of the Periodic Table
Presenters: Betsy Sanford, Dianne Hough
Description: Teachers will participate in differentiated lessons with visual organizers and inquiry labs
that help 8th grade students understand the Periodic Table of the Elements.
Content: Physical Science
Day: THURS, 2/16 Time: 10:00-10:50 Level: K-8 Room: Grand Hall East A
Title: Hands-On Science with Classroom Critters
Presenters: Carolina Teaching Partner
Description: Bring excitement and interest into your classroom by using live organisms! Participate in
fun, simple hands-on activities with termites, isopods, and beetles. Free samples provided.
Content: Life Science
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: Incorporating Nanotechnology into the existing science curriculum
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, 2/16Time: 10:00-11:50Level: K-12Room: International Ballroom
Title: Science Trifecta: Effectively Combining Foldables [®] , Children's Literature, and Science Curriculum
<u>Stanards</u>
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
<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!	
Content: General Science	
Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Vancouver Title: Connecting Science with the Whole Curriculum Image: Connect science content to standards across the curriculur Presenters: Karol Stephens Image: Connect science content to standards across the curriculur Description: Use integrating experiences to connect science content to standards across the curriculur Image: Content. Content: General Science/Interdisciplinary	m
Day: THURS, 2/16Time: 11:00-11:50Level: K-12Room: InmanTitle: The Missing Link: Inquiry Helps Resistant Students Study Evolution!Presenters: Lee MeadowsDescription: You're teaching in a public school where religious students object to evolution. Hear an approach that engages them in understanding the evidence, but minimizes conflict.Content: Biology	
Day: THURS, 2/16 Time: 11:00-11:50 Level: K-5 Room: Montreal Title: GYSTC AIMS to Please! Presenters: Paula Chambers, Debbie Stuckey Image: Content: General Science	TC ISCENCE ST DUR
Day: THURS, 2/16 Time: 11:00-11:50 Level: K-12 Room: Hong Kong <u>Title: Teaching Fish</u> Presenters: Amy Warnock, Kim Morris-Zarneke, Description: Informal "science cafe" discussion of whale shark and manta ray training with a Georgia Aquarium biologist. Content: General Science	
Day: THURS, 2/16Time: 11:00-11:50Level: HighRoom: CairoTitle: Supermarket Science: Investigating genetically modified organismsPresenters: Samantha AndrewsDescription: This activity will explore and identify commonly consumed genetically modified plants using a mock gel electrophoresis exercise.Content: Life Science	ing
Day: THURS, 2/16Time: 11:00-11:50Level: MiddleRoom: SingaporeTitle: Enhancing Science Understanding Through Literacy StrategiesPresenters: Rachael Parr, Ruth Collins, Jennifer CoxDescription: This presentation will show you how to embed literacy strategies to increase your studenunderstanding of science, improve their critical thinking skills, foster motivation, and create strongerreaders, writers, and speakers.	ıts'

Content: Interdiscipli	nary		
Presenters: Jeremy P Description: Learn at	bout an evolution-based a ders and protein function.	pproach to the ne	Room: Spring w curriculum and a technology-based to share your ideas.
Presenters: Carolina	xperience hands on activit		Room: Grand Hall East A STEM and language arts to invigorate
Presenters: George S Description: Feel the	heat and join the fun in o	our chemistry lab v	Room: Grand Hall East B with fast, easy, and safe chemical and chemical stochiometry lab activities.
Day: THURS, 2/16 <u>Title: Animal Adapta</u> Presenters: Linda Bis Description: How ani the ecosystem. Content: Biology (Life	hop, Tom Kopp imals have adapted to the	Level: K-8 ir environment an	Room: Grand Hall East C d the importance of these adaptions to
Presenters: Francine Description: Are you	vities for the classroom th	ani Schoedler s the workshop fo	Room: Grand Hall East D r you. Teachers will discover great students panda fans.
Presenters: Donna Ba Description: This sest the content, process,	sion will outline recomme and product through form he session will include str	nded differentiation mative assessmentiation	Room: Techwood on strategies based on differentiating ts, RAFTs, tiered tasks, centers and the differentiated classroom.
Day: THURS, 2/16 Title: NASA Lunar Ce	Time: 11:00-12:50 rtification	Level: Middle	Room: University

•	nar samples can be share		oss the nation. This is an offi	
classroom. Content: Earth /Space		at the end. Bring tr	ne Apollo lunar samples into y	our
	Thursday –	12:00-12:50 Se	ssions	
Day: THURS, 2/16	Time: 12:00-12:50	Level: K-5	Room: Vancouver	
•	g With the Nouns and V	erbs of Science		GSSA
Presenters: Lisa Alexa			Georgia Sci	ence Supervisors Association STRAND
	hting the nouns and ver		trategies and hands on activit	ies by
Day: THURS, 2/16	Time: 12:00-12:50	Level: K-2	Room: Montreal	W
-	e with Children's Literat			9 *
Presenters: Angela Gu	uilford, Cindy Green			GEORGIA YOUTH SCIENCI & TECHNOLOGY CENTER: Strand
•		•	Ilar applications for grade two and the Picture Perfect teach	
Content: General Scie	nce			
	Time: 12:00-12:50 ve Classroom Chemistry x Weber	Level: K-8 - It's All About the E	Room: Grand Hall East Elements!	С
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to inc parental support! Take b	- It's All About the E earched-based classr rease academic perf	Elements! room management strategies formance, decrease discipline	
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower challenges, and gain p	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to inc parental support! Take b	- It's All About the E earched-based classr rease academic perf	Elements! room management strategies formance, decrease discipline	
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower challenges, and gain p Content: Interdisciplin Day: THURS, 2/16 Title: Best Practices: I	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to incl parental support! Take b hary Time: 12:00-12:50 mplementing a "Flipped	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I'' Science Classroon	Elements! Foom management strategies formance, decrease discipline the strategies Room: Spring	
Title: Building Effective Presenters: Cheryl For Description: Build know immediately empowe challenges, and gain p Content: Interdiscipline Day: THURS, 2/16 Title: Best Practices: I Presenters: Jennifer D	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to incl parental support! Take b nary Time: 12:00-12:50 mplementing a "Flipped Douglass, Jennifer Hulgar	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I'' Science Classroon o, Meredith Wood	Elements! Foom management strategies formance, decrease discipline ich! Room: Spring <u>n</u>	which
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower challenges, and gain pr Content: Interdisciplin Day: THURS, 2/16 <u>Title: Best Practices: I</u> Presenters: Jennifer D Description: We will d	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to incl parental support! Take b hary Time: 12:00-12:50 mplementing a "Flipped Douglass, Jennifer Hulgar discuss the 'best practice including managing a sel	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I'' Science Classroon b, Meredith Wood s' we have develope	Elements! Foom management strategies formance, decrease discipline the strategies Room: Spring	which
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower challenges, and gain p Content: Interdisciplin Day: THURS, 2/16 Title: Best Practices: I Presenters: Jennifer D Description: We will of 'flipped' classroom – i testing, and content ve Content: General Day: THURS, 2/16	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to incl oarental support! Take b hary Time: 12:00-12:50 mplementing a "Flipped Douglass, Jennifer Hulgar discuss the 'best practice including managing a sel rideos. Time: 12:00-12:50	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I'' Science Classroon b, Meredith Wood s' we have develope	Elements! Formance, decrease discipline formance, decrease discipline foch! Room: Spring n ed for implementing and man fonline discussion boards, onlin	which
Title: Building Effective Presenters: Cheryl For Description: Build known immediately empower challenges, and gain p Content: Interdisciplin Day: THURS, 2/16 Title: Best Practices: I Presenters: Jennifer D Description: We will of 'flipped' classroom – it testing, and content v Content: General Day: THURS, 2/16 Title: Who Polluted t	ve Classroom Chemistry x Weber owledge of effective rese ors your classroom to incloarental support! Take b hary Time: 12:00-12:50 mplementing a "Flipped Douglass, Jennifer Hulgar discuss the 'best practice including managing a sel rideos. Time: 12:00-12:50 he Chattahoochee?	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I'' Science Classroom of, Meredith Wood s' we have develope f-paced classroom, of Level: Elementary	Elements! Formance, decrease discipline formance, decrease discipline foch! Room: Spring n ed for implementing and man fonline discussion boards, onlin	which
Title: Building Effective Presenters: Cheryl For Description: Build know immediately empower challenges, and gain p Content: Interdisciplin Day: THURS, 2/16 Title: Best Practices: I Presenters: Jennifer D Description: We will of 'flipped' classroom – it testing, and content v Content: General Day: THURS, 2/16 Title: Who Polluted the Presenters: Jamie Latt Description: How do yo of many? In this intera	ve Classroom Chemistry x Weber owledge of effective rese ers your classroom to inclu- parental support! Take b hary Time: 12:00-12:50 mplementing a "Flipped Douglass, Jennifer Hulgar discuss the 'best practice including managing a sel rideos. Time: 12:00-12:50 he Chattahoochee? timore, Catherine Leftwi you help students to uncl active session we will sha sment and extension op	- It's All About the E earched-based classr rease academic perf ack the Time To Tea Level: 6-12 I' Science Classroom of, Meredith Wood s' we have develope f-paced classroom, of Level: Elementary ch lerstand how the act are a hands on demo	Elements! Formance, decrease discipline formance, decrease discipline foch! Room: Spring n ed for implementing and man fonline discussion boards, onlin	aging a ne

Day:THURS, 2/16Time: 12:00-12:50Level: HighRoom: CairoTitle:Using Inquiry to Demonstrate Enzyme Function in Potato
Presenters: Amy Slack Description: Come see an inquiry twist on the old potato and hydrogen peroxide lab! We will conduct a lab to demonstrate enzyme function and design experiments. Great for CP biology. Content: Biology (Life Science)
Day: THURS, 2/16Time: 12:00-12:50Level: MiddleRoom: SingaporeTitle: Utilizing a garden to enhance science and math learningPresenters: Julie Self, Myffy Hopkins, Rachel AmmiratiDescription: Discover how science and math learning can be enhanced with garden-themed, problem- based learning methods. Garden-learning is a practical yet exciting way to stimulate student interest while teaching core academic standards.Content: Interdisciplinary
Day: THURS, 2/16 Time: 12:00-12:50 Level: High Room: Inman <u>Title: Using student led show-and-tell for engagement in chemistry</u> Presenters: Becky Bundy Presenters: Becky Bundy Description: Learn how to use the "Minute of Chemistry" to get your students to start class while you take roll, come to class on-time, be excited, and remain engaged! Content: Chemistry
Day:THURS, 2/16Time: 12:00-12:50Level: HighRoom: RoswellTitle:Light's Properties Using Your Own EyePresenters:Ann Robinson, Sharon Kirby, Dave ToddDescription:Seeing light's properties such as reflection, refraction, dispersion, absorption, polarizationand scattering in your own eye makes this presentation personal, fun, and exciting for students.Content:Physical Science
Day: THURS, 2/16Time: 12:00-12:50Level: ElementaryRoom: Grand Hall East ATitle: Family Science Nights (grades K-5)Presenters: Stephanie ShultzDescription: You will learn how to set up a successful Family Science Night for your classroom, school or system. Participants will have the opportunity to make and take a couple of standards-based games and Content: General Science
Day:THURS, 2/16Time: 12:00-12:50Level: K-12Room: Grand Hall East BTitle:The Naturalist's Journal:Teaching Tool to Study the EnvironmentPresenters:Tom HowickDescription:This hands-on session for teachers will demonstrate how to use the naturalist's journal as a teaching tool in your classroom.Content:General Science
Day: THURS, 2/16 Time: 12:00-12:50 Level: High Room: Piedmont <u>Title: Trivial pursuit, or large picture Biology?</u> Presenters: Marion Reeves, Jennifer Lance Description: Teaching biology conceptually allows students to connect the terminology to their learning.

Come consider ways of understanding. Content: Biology (Life		ourse around student	experiences that lead to conceptual
-	nn, Carl Davis kshop focuses on the use ound, electrostatics, Nev		Room: Techwood te scientific concepts such as essure.
Presenters: Audrelyn Description: Come joi	ver in a house, and explo	ive Science Voyage Iulie Hodges orld of 8th grade Phys	Room: International Ballroom ical Science where we will create
Presenters: Felicia Poo	iate instuctions to middl ming disabilities nce	le grade science stude	o m: Grand Hall East D nts. Explain how to reach students
	Thursday ·	– 1:00-1:50 Sessio	ons
Presenters: Donald W	some simple, low cost/r nce classroom.		Room: Vancouver tivation
Presenters: Suzanne B	Time: 1:00-1:50 e with Children's Literat Bellflower, Elaine Whitte		Room: Montreal
	rce books. Hands on acti	•	ce trade books and the Picture th books to meet state and national

around specific problems and is an avenue for enabling students to grasp the relevance of the real-world application of mathematics and science. This session will demonstrate how to integrate public health science education into the middle and high school curriculum. We will explore CDC's public health education programs, resources and activities. Content: Life Science
Day:THURS, 2/16Time:1:00-1:50Level:6-12Room:Hong KongTitle:Literacy and Science Success:What is the Connection?Presenters:Brian Butler, Lisa ThompsonDescription:Do you have struggling readers in your classroom?We have proven tactics to help yourstruggling readers comprehend science content.You will leave with easy to follow time-savingstrategies!Content:General
Day:THURS, 2/16Time: 1:00-1:50Level: 6-12Room: Grand Hall East ATitle:Scholar Chemistry: We've got chemistry in the bag!Presenters:George StickelDescription:Feel the heat and join the fun in our chemistry lab with fast, easy, and safe chemicalreactions in a ziplock bag.Perform hands-on thermochemistry and chemical stochiometry lab activities.Content:Chemistry
Day:THURS, 2/16Time: 1:00-1:50Level: 6-12Room: CairoTitle:Using red algae as a model organism to enhance mastery of the Georgia Performance BiologyStandardsPresenters:Dr. Alan Gorlin, Jenny HedgesDescription:Teachers will learn how to grow the unicellular red algae Porphyridium cruentum and use itto design inquiry experiments that will enhance mastery of all the GPS Biology State Standards.Content:Biotechnology
Day: THURS, 2/16 Time: 1:00-1:50 Level: 6-12 Room: Singapore Title: Creative Science Journaling Presenters: Jane Metty, Joan Baldridge Singapore Description: No more boring science lab journals. Particpants will be shown several examples of creative journal entries that clearly convey student understanding and allow students to become vested in their work Room: Singapore Content: General Science Singapore Singapore
Day: THURS, 2/16 Time: 1:00-1:50 Level: 6-12 Room: Roswell Title: Electricity-Circuitry In Action Presenters: Laura Hendrix, Lori Hughes Level: 6-12 Room: Roo: Roo
Day: THURS, 2/16 Time: 1:00-1:50 Level: K-5 Room: University Title: Science "Literacy" Matters: Enriching Science through Literacy Integration

Presenters will offer sau literature. Content: General Scien	n will provide an alter nple inquiry-based, G ce	rnative approach PS aligned scienc	to teaching elementary science. e lessons that integrate children	Ś
Day: THURS, 2/16	Time: 1:00-1:50	Level: High	Room: Techwood	
Title: Edible electronics			ntegrated circuits	
Presenters: Samantha A Description: Participan edible integrated circui Content: Physical Scien	s will learn about the ce	process of photo	blithography and use it to fabrica	te an
Day: THURS, 2/16 Title: Applying for the I Presenters: Juan-Carlos	Aguilar, Amanda Bui		Room: Spring	
	ington and \$10,000. (-	est honor for science teaching, a Q & A with past awardees.	
Day: THURS, 2/16 <u>Title: High Touch High</u> Presenters: Beverly Gra		Level: K-5 ce Made Fun! K-5	Room: Grand Hall East	В
	ow the professional in um with hands on exp		of High Touch High Tech can enh t ever leaving campus!	ance your
Day: THURS, 2/16 Title: Science Power by Presenters: Katherine J		Level: Elementa assroom	ry Room: Grand Hall East D)
Description: Science Po for installation, content Content: Interdisciplina	/features, ease of use	•	l from Internet@Schools (Jan/Fe pport.	b 2011)
Day: THURS, 2/16 Title: Succession: The J Presenters: Carol Potte	r	Level: K-5	Room: Grand Hall East C	
Description: Learn whil climax community. Content: Life Science	e they play. This fun b	ooard game takes	students on a journey from bare	e rock to
	Thursday	- 1:00-2:50 9	Sessions	
Day: THURS, 2/16 Title: Radioactivity and Presenters: Michael Nic Description: This works distinguish the characte Content: Physical Scien	Time: 1:00-2:50 Radiation - Demons hols, Joe Shonka, hop providea training ristics and componer	Level: 6-12 trations for Teac and hands-on de	Room: Inman hers and Students emonstration material enabling s	tudents to

Day: THURS, 2/16	Time: 1:00-2:50	Level: 6-12	Room: International Ballroo	om
Title: Bugs, Pathoger	ns, and Plants			
	elton, Marianne Schock			
Description: Join us t	to learn how to use inse	ects and plant dise	ase to teach different biologi	ical principles.
Content: Biology (Life	e Science)			
	Thursda	y – 2:00-2:50 S	Sessions	
Day: THURS, 2/16	Time: 2:00-2:50	Level: Middle	Room: Vancouver	· 0 ° 0 -
Title: Using Student	Engagement to Make	<u>Class Time More N</u>	<u>leaningful</u>	法GSSA
Presenters: Jo-ne Bo	urassa			Georgia Science Supervisors Association STRAND
Description: What w	ould happen if the tead	cher spent less time	e teaching, but the students	spent more
time learning? This o	an happen through the	e use of student en	gagement activities.	
Content: General Sci	ence			
Day: THURS, 2/16	Time: 2:00-2:50	Level: 6-12	Room: Piedmont	and C
	nd Public Health Care	<u>ers</u>		
Presenters: Dr. Lynde				CENTERS FOR DISEASE CONTROL AND PREVENTION
•			rsue a career in public health	•
experts agree that ac	lvances in improvemer	nt of health over th	e next several decades will c	ome from the
broader developmen	t and application of po	pulation-based pre	evention programs. This sessi	ion provides
an overview of the co	ore disciplines within th	he field of public he	ealth and public health positi	ons with
critical workforce she	ortages Educators are			
	ntages. Luucators are	encouraged to atte	end this session so that they	can provide
	-	-	end this session so that they able, rewarding public health	•
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Day: THURS, 2/16 Time: 2:00-2:50 Level: High Room: Cairo
Title: Ten Tried and True High School Biology Lessons
Presenters: Michael Dias, Wes McCoy
Description: 12 Bio-lessons all mapped onto the Benchmarks (AAAS) and Inquiry Features (NRC).
Instructional files for implementing these lessons are provided to all participants. Represented GPS
include SCSh1&8, SB1b&c, SB2b&c, SB5d.
Content: Biology (Life Science)
Day: THURS, 2/16 Time: 2:00-2:50 Level: 6-12 Room: Roswell
Title: Acoustics: Do You Hear What I Hear?
Presenters: Ann Robinson, David Todd, Sharon Kirby
Description: Relating the properties of sound to everyday objects can be exciting and fun. Teachers will
get inquiry activities and other resources on resonance, sound waves, musical instruments and the ear.
Content: Physical Science
Day: THURS, 2/16 Time: 2:00-2:50 Level: Middle Room: University
Title: Impact of a Content Area Practicum Experience on Pre-Service Science Teacher Content and
Pedagogical Efficacy
Presenters: Timothy Goodale
Description: The Content Area Practicum Experience (CAPE) places middle grades science teacher
candidates in science organizations and government agencies. This session will outline the framework of
this experience, the process of networking and developing partnerships with local organizations and
initial outcomes.
Content: General Science
Day: THURS, 2/16 Time: 2:00-2:50 Level: K-12 Room: Techwood
Title: Rivers to Reefs: the Inside Scoop (and Dip!)
Presenters: Kim Morris-Zarneke, Cathy Sakas
Description: Get the inside scoop about Rivers to Reefs through video, personal testimonials on the
value of professional development experiences, and a hands on watershed activity.
Content: Life Science
Day: THURS, 2/16 Time: 2:00-2:50 Level: High Room: Spring
Title: Including nanotechnology in you Science Classrooms-Results from a Summer Research
Experience
Presenters: Nicole Jarper
Description: nanotechnology in the high school science classroom. Come learn how teachers spent their
summer and how they are using nano in their classes. Find out how you can participant in the summer
of 2012
Content: General Science
Day: THURS, 2/16 Time: 2:00-2:50 Level: 6-12 Room: Grand Hall East A
Title: Family Science Nights (CSI Style) (grades 6-12)
Presenters: Stephanie Shultz
Description: In conjunction with a state-wide effort to improve test scores, you will learn how to set up
a successful Family Science Night (CSI style) for your classroom, school or system.

Thursday – 2:00-3:50 SessionsDay: THURS, 2/16 Time: 2:00-3:50 Level: Middle Room: SingaporeTitle: Using Food Science as a Learning Tool in BiologyPresenters: Joseph NunnDescription: This workshop is being presented by past attendees of the FDA/NSTA Science and our FoodSupply 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, 2/16 Time: 2:00-3:50 Level: 6-12 Room: 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-designed but open ended format, including quick and easy data collection. Thus ensuring a true STEM experience for each participant. This workshop will address the following GPS standards; SCSh3-9.c and d, which deal with inquiry based learning, analysis skills, and students' ability to quickly address misconceptions. Content: InterdisciplinaryDay: THURS, 2/16 Time: 2:00-3:50 Level: Middle Room: Grand Hall East D Title: Preparing Georgia's Middle School Science Teachers to Integrate Inquiry-based, Hands-on Research Modules in the Classroom Presenters: Chandan RobbinsDescription: Improving Teacher Quality State Grant focuses on three areas, earth, life, and physical sciences,
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sciences particularly suitable for incorporating teaching strategies that stimulate student interest in
sciences, particularly suitable for meerportating teaching strategies that stimulate strategies in
science.
Content: Interdisciplinary
Day: THURS, 2/16 Time: 2:00-3:50 Level: 6-12 Room: Hong Kong
Title: Best Practices: Making Content Videos that are Instructional AND Entertaining
Presenters: Jennifer Douglass, Jennifer Hulgan, Meredith Wood Description: 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, 2/16Time: 3:00-3:50Level: MiddleRoom: Vancouver
Title: STEM Internships for High School Students
Presenters: Donald White
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
Day: THURS, 2/16 Time: 3:00-3:50 Level: 6-12 Room: Piedmont

Title: Introducing Epid	lemiology through a F	ood borne Outbreal	k Demonstration:
Who Ate the Potato S			
Presenters: Dr. Ralph			
		serious illnesses link	ed to tainted food are becoming more
•			winding road from farm to fork. This
		•	of food poisoning. Participants collect,
	•		C epidemiologists in conducting these
investigations.	0	,	
Content: Interdisciplin	ary		
Day: THURS, 2/16	Time: 3:00-3:50	Level: K-8	Room: Manila
Title: Teach your Stan	dards with Turtle Acti	<u>ivities</u>	
Presenters: Marti Sch	river		
Description: Take the	beach to your classroo	om as teachers use t	heir week long experiences at Jekyll
Island and the Georgia	Sea Turtle Center for	activities you can ta	ke back to your classroom.
Content: Life Science			
Day: THURS, 2/16	Time: 3:00-3:50	Level: 6-12	Room: Cairo
Title: 7 Billion and Cou	unting: Lessons for Ou	<u>ır Planet's Future</u>	
Presenters: Bonita Flo	urnoy		
Description: Engage ir	innovative activities	to explore connectio	ns between human population growth,
resource consumption	and the changing fac	e of our planet. Free	CD-ROM of activities.
Content: Life Science			
Day: THURS, 2/16	Time: 3:00-3:50	Level: High	Room: Roswell
Title: Laser Madness			
Presenters: Lee Whee	ler		
•	students can do with	Pangolin software a	nd a Skywriter RGB Laser.
Content: Physics			
			Descention of the second
Day: THURS, 2/16	Time: 3:00-3:50	Level: 6-12	Room: University
Title: Powers of Ten: S		vith NASA	
Presenters: Tyson Har	•		
• •	-	hall? "Scale the Unive	erse" as we investigate the powers of
ten with free NASA ma			
Content: Earth/Space	Science		
	Time: 2:00 2:50		Deeme Carring
Day: THURS, 2/16	Time: 3:00-3:50	Level: K-8	Room: Spring
Title: Teaching Engine Presenters: Donna Go		Classi UUIIIS	
		ca alika? How are th	av different? Discover how to toach the
•			ey different? Discover how to teach the
engineering cycle with	your students.		
Contanti Conaral Cala			
Content: General Scient			Deems Cread Us! 55 st A
Day: THURS, 2/16	Time: 3:00-3:50	Level: Elementary	Room: Grand Hall East A
Day: THURS, 2/16 Title: Plastic Awarene	Time: 3:00-3:50 ss Week		Room: Grand Hall East A
Day: THURS, 2/16 <u>Title: Plastic Awarene</u> Presenters: Jim Ries, C	Time: 3:00-3:50 <u>ss Week</u> Carter Ries, Olivia Ries		Room: Grand Hall East A t the all types of plastic pollution and to

suggest simple changes students can incorporate into their daily lives which will have an immediate impact on our environment. Content: General Science
Day: THURS, 2/16 Time: 3:00-3:50 Level: K-8 Room: Grand Hall East B Title: Bringing Outdoor Science In Presenters: Steve Rich Presenters: Steve Rich Steve Rich Description: Join NSTA Press bestselling author Steve Rich to discover how to bring the school yard indoors with lessons from the brand new title "Bringing Outdoor Science In - Thrifty Classroom
Lessons." Content: Interdisciplinary
Thursday – 3:00-4:50 Sessions
Day:THURS, 2/16Time: 3:00-4:50Level: K-5Room: MontrealTitle:Bridging the Gap- Collaborative Strategies for Teaching Third and Fifth Grade SciencePresenters:Michelle Bergozza, Phillip BurnsDescription:A video demonstrating the growth of scientific learning of GPS standards taught in 3rd and
5th grade through teacher collaboration will be shown. The presenters will show how collaborative planning leads to improved student achievement and academic success. Content: General Science
Day:THURS, 2/16Time:3:00-4:50Level:K-5Room:TechwoodTitle:How to Keep Every Student Engaged In Elementary SciencePresenters:Dr. Rita Bailey, Tanisha JohnsonDescription:This training is designed with engaging the whole student in mind. We will demonstratehow quality questioning, daily assessments, and student reflection, can be used enhance sciencelearning.Content:General Science
Day:THURS, 2/16Time: 3:00-4:50Level: HighRoom: International BallroomTitle:Understanding Atomic Structure & PeriodcityPresenters:Jane Metty, Katrina HammondsDescription:This several page foldable makes an excellent artifact demonstrating studentunderstanding as well as keep students engaged while they learn these concepts.Content:Chemistry
Thursday – 4:00-4:50 Sessions
Day: THURS, 2/16 Time: 4:00-4:50 Level: K-5 Room: Vancouver <u>Title: Picture-Perfect Science, Grades 3–5</u> Presenters: Alfred Porter State of the sta
Day: THURS, 2/16Time: 4:00-4:50Level: 6-12Room: SingaporeTitle: Connecting AYP to the Content in the ClassroomPresenters: Michael MahanDescription: A study on the CRCT indicators for Science scores in all grades

Content: General Scier	nce		
chemistry students.	n	Level: High of demos, labs, an	Room: Inman Ind projects that I do with my high school
Content: Chemistry Day: THURS, 2/16 Title: Easy Elementary	Time: 4:00-4:50	Level: Elementa	ry Room: Manila
Presenters: Sarah Mill Description: A STEM D	gan, Melissa Ladd, Al ay is an easy way to e o cost methods for p vill be shared.	encourage student	excitement and exploration. This session sful STEM event. Sample schedules,
Day: THURS, 2/16 Title: Ramping Up Ing Presenters: Lee Meade Description: Learn five where students are en Content: General Scier	ows questions that raise gaged, understand sc	the bar on inquiry	Room: University -based teaching and develop classrooms relevance.
Day: THURS, 2/16 Title: Pirates of Puerto Presenters: Lawrence Description: This is a P Emory University deali Content: Chemistry	Harris BL based on research		Room: Cairo
	ertino, Patricia Bertin tudent interest/knov nts receive Power Poi amentals & Investiga	vledge in math, lite int, activities, 5E, c	Room: Grand Hall East B eracy, technology. Discover how pollen ase studies and presenters' textbook,
Presenters: Karen Jone Description: During th	es is presentation, the p	resenter will addre	Room: Roswell Engage Students in Chemistry ess using music in Chemistry to engage sep students interested in Chemistry.
Day: THURS, 2/16	Time: 4:00-4:50	Level: High	Room: Grand Hall East A

Title: 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

Keynote Speaker

Friday, February 17 12:00-1:15 International Ballroom

Dr. Stephen Pruitt

Work is progressing to develop the Next Generation Science Standards. 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



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.



GSTA Program – Friday

Friday - 8:00-10:50
Day:FRI, 2/17Time: 8:00-10:50Level: HighRoom: RoswellTitle:Honors Physics Labs that WORK!Build student interest, get results!Presenters:Joseph Cox, Dan Miller, Stephen BeallDescription:It's time for your students to learn by doing!Experience a year's worth ofphysics labs all in one session.Low tech to high tech it's all here.Content:Physics
Friday - 8:00-8:50 Sessions
Day: FRI, 2/17Time: 8:00-8:50Level: ElementaryRoom: ManilaTitle: A Complete Overview of how NSTA Can Support Your Science TeachingPresenters: Edward RockDescription: Come learn how the largest science education organization in the world can support yourclassroom, 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 resourcesthat are available to all science educators. Learn how you can actively engage in the national discussionabout 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 <u>Title: BIOTECH - RNA Interference</u> Biotech strand Biotech strand Presenters: Philip Gibson Biotech strand Biotech strand Description: RNA interference challenges the Central Dogma of Biology. This session's activity Biotech strand 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: Flipping Guys Presenters: Description: Content: General 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 Image: State of the strengths and weaknesses of every student on your Roster? Prind 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, 2/17Time: 8:00-8:50Level: ElementaryRoom: MontrealTitle:CAN YOU SEE THE PHASESPresenters:Robert BowmanDescription:Learn better techniques and tricks on how to get your students to learn the phases of the moon. Come join this interactive session!

Content: Earth/Space Science
Day:FRI, 2/17Time: 8:00-8:50Level: K-8Room: VancouverTitle:Butterflies - Engage and Teach Students with Special NeedsPresenters:Donna Gast, Dorinda Haley,Description:From collaborative to self-contained classrooms caterpillars and butterflies reach and teachstudents with special needs.Learn how all students can raise butterflies, tag monarchs, and participatein citizen science.Freebies.Content:Biology (Life Science)
Day:FRI, 2/17Time: 8:00-8:50Level: K-8Room: UniversityTitle:Storm Chasing - A Classroom ExperiencePresenters:Jim HintonDescription:Turn your classroom into a storm chasing adventure.Participants will be givenresources/strategies to engage their students in the study of severe weather through the eyes of a storm chaser.Content:Earth/Space Science
Day:FRI, 2/17Time: 8:00-8:50Level: K-8Room: TechwoodTitle:Class MuseumsPresenters:Charmagne QuenanDescription:Learn how to create a field trip experience in your own as your students become curatorsof your own class museum.Content:General Science
Day:FRI, 2/17Time: 8:00-8:50Level: HighRoom: SpringTitle:Braking Boundaries: Collaboration between gifted and ESEP (MIOD/MI)Presenters:Peter Fischer, Chris Kennedy, Rie CowanDescription:Inquiry methods used within ESEP classes in collaboration with gifted students in Biology/Physical Science, preparing students for GAA and EOCT.Content:General Science
Day: FRI, 2/17Time: 8:00-8:50Level: HighRoom: Grand Hall East BTitle: Life Science Tech Fest: Really Easy Data CollectorsPresenters: Dr. Janet McManicDescription: Celebrate innovation with our Real Easy Data probes, RED! A hands-on technologyworkshop using our RED data collectors to record and analyze animal behavior and muscle fatigue.Content: Biology (Life Science)
Day: FRI, 2/17 Time: 8:00-8:50 Level: Middle Room: Hong Kong Title: Practical Insights from Outstanding Earth Science Teachers - FERNBANK Image: Comparison of the Science Teachers - FERNBANK Presenters: Bill Witherspoon Image: Comparison of the Outstanding Earth Science Teacher award and 15 other geoscience teachers from middle school through university level came together to share insights in March 2011. Hear and see the ideas brought to the symposium in Wilmington, NC, sponsored by the Southeastern Section of the National Association of Geoscience Teachers. Content: Biology (Life Science)

	Room: Grand Hall East C
Title: Teach Your Standards with turtle Activities	
Presenters: Marti Schriver, Karen Chassereau, Breanna	a Young
Description: Take the beach to your classroom, teach	ers will use their week long experiences at Jekyll
Island and the Georgia Sea Turtle Center for activities	you can take back to your classroom.
Content: General Science	
Day: FRI, 2/17 Time: 8:00-8:50 Level: Hig	h Room: Grand Hall East D
Title: Biotech Kitchen DNA with a Twist of Inquiry	
Presenters: Jennifer Carden, Dr. Neil Lamb, Madelene	
Description: Tired of cookbook DNA extraction protoc	
procedure that will have students thinking about cell t	ype, structures and DNA.
Content: Life Science	
Friday – 9:00-9	
Day: FRI, 2/17 Time: 9:00-9:50 Level: Hig	h Room: Piedmont
Title: Flipping Guys	
Presenters:	
Description:	* PRATURED SE
Content: General	
Day: FRI, 2/17 Time: 9:00-9:50 Level: Eler	nentary Room: Manila
Title: e-PD: Fully Utilizing the NSTA Learning Center	
Presenters: Edward Rock	National Science Teachers Associatio
Description: Highly Skilled teachers are critical to stud	ent success. Georgia Science Educators and
Administrators will enjoy a detailed tour of the NSTA L	
Administrators will enjoy a detailed tour of the NSTA L development content, PD coordination, and PD docum	nentation. We'll explore the many ways educators
Administrators will enjoy a detailed tour of the NSTA L development content, PD coordination, and PD docum are utilizing the tools and resources in the NSTA Learn	nentation. We'll explore the many ways educators ing Center and look at the research supporting the
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Administrators will enjoy a detailed tour of the NSTA L development content, PD coordination, and PD docum are utilizing the tools and resources in the NSTA Learn Learning Center's efficacy. Every participant will recein choice of 2 SciPacks (a \$79.98 value). Content: General Science Day: FRI, 2/17 Time: 9:00-9:50 Level: Ele Title: 3 rd Grade Science MSP Show & Share	nentation. We'll explore the many ways educators ing Center and look at the research supporting the we a FREE NSTA Learning Center account and their mentary Room: International Ballroom
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Day: FRI, 2/17	Time: 9:00-9:50	Level: 6-12	Room: Grand Hall B	
	m Resources from HH	IMI for Teaching Ev	olution	
animations, and vio as selection, phylog	ver Howard Hughes Mo deo clips to help you te genetic trees, drug resi engaging multimedia re	each central and diff istance, and biodive	room-ready lessons, hands-on activit icult biological concepts in evolution, rsity, and the molecular genetics beh uiry-based investigations, and data	such
Day: FRI, 2/17	Time: 9:00-9:50	Level: 3-6	Room: Inman	
Title: Why Does It				
Presenters: Kather	ine Armstrong, Jane Sł	narp		
Description: Use fo	ormative assessment to	o better inform teac	hing practices. Experience Next Step	
Strategies to help r	nove student learning.	. Free workshop ma	terials from Delta Education.	
Content: Physical S	cience			
Day: FRI, 2/17	Time: 9:00-9:50	Level: Elementa	ry Room: Vancouver	
•		Level. Liementa	y Noom : vancouver	
Title: Big Ideas from				
•	Palmer Allen, Katie Hut		ndrews	
Description: Come	and have turn avalation			
	•		ut small scale objects can fit into your	r
	. Participants will be p			ſ
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science curriculum Content: General	Participants will be p	provided CD containi	ng all lessons.	r
science curriculum Content: General Day: FRI, 2/17	Participants will be p Time: 9:00-9:50	brovided CD containi Level: Middle	ng all lessons. Room: Singapore	r
science curriculum Content: General Day: FRI, 2/17 Title: Begged, Borr	. Participants will be p Time: 9:00-9:50 owed, and Stolen ~ W	Level: Middle	ng all lessons. Room: Singapore	r
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science curriculum. Content: General Day: FRI, 2/17 Title: Begged, Borr Presenters: Zoe Eva Description: Need some of the great i Content: General Day: FRI, 2/17 Title: Teaching Ear Presenters: Stepha Description: Teach and take home tea	Time: 9:00-9:50 owed, and Stolen ~ W ans, Carol Turner, Ann a great activity to use deas and activities we Time: 9:00-9:50 th Systems in High Sch nie Miles, Brandie Fre ers will engage in hand ching materials	Level: Middle <u>Ke're still finding gre</u> Cook Tina Denney Monday? No time t 've begged, borrowe Level: High <u>hool</u> eman	ng all lessons. Room: Singapore Pat ideas! o search the Internet? If so, come se ed, and stolen over the years. Room: University	e
science curriculum. Content: General Day: FRI, 2/17 Title: Begged, Borr Presenters: Zoe Eva Description: Need some of the great i Content: General Day: FRI, 2/17 Title: Teaching Ear Presenters: Stepha Description: Teach and take home tea	Time: 9:00-9:50 owed, and Stolen ~ W ans, Carol Turner, Ann a great activity to use deas and activities we Time: 9:00-9:50 th Systems in High Sch nie Miles, Brandie Fre ers will engage in hand ching materials	Level: Middle <u>Ke're still finding gre</u> Cook Tina Denney Monday? No time t 've begged, borrowe Level: High <u>hool</u> eman	ng all lessons. Room: Singapore Pat ideas! o search the Internet? If so, come se ed, and stolen over the years. Room: University	e
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science curriculum. Content: General Day: FRI, 2/17 Title: Begged, Borr Presenters: Zoe Eva Description: Need some of the great i Content: General Day: FRI, 2/17 Title: Teaching Eart Presenters: Stepha Description: Teach and take home tea Content: Earth/Spa Day: FRI, 2/17 Title: Genetics: A N Presenters: Amy Ke	Time: 9:00-9:50 <u>owed, and Stolen ~ W</u> ans, Carol Turner, Ann a great activity to use deas and activities we <u>Time: 9:00-9:50</u> <u>th Systems in High Sch</u> nie Miles, Brandie Fre ers will engage in hand ching materials ice Science <u>Time: 9:00-9:50</u> <u>Iovel Method for Teac</u> ezman, Laura Lenz	Level: Middle Ve're still finding gre Cook Tina Denney Monday? No time t Ve begged, borrowe Level: High mool ds-on Earth systems Level: High ching Gene Expressi	ng all lessons. Room: Singapore at ideas! o search the Internet? If so, come see ed, and stolen over the years. Room: University activities, learn about resources avai Room: Grand Hall East A on	e lable,
science curriculum. Content: General Day: FRI, 2/17 <u>Title: Begged, Borr</u> Presenters: Zoe Eva Description: Need some of the great i Content: General Day: FRI, 2/17 <u>Title: Teaching Ear</u> Presenters: Stepha Description: Teach and take home tea Content: Earth/Spa Day: FRI, 2/17 <u>Title: Genetics: A N</u> Presenters: Amy Ke Description: Use st	Time: 9:00-9:50 <u>owed, and Stolen ~ W</u> ans, Carol Turner, Ann a great activity to use deas and activities we <u>Time: 9:00-9:50</u> <u>th Systems in High Sch</u> nie Miles, Brandie Fre ers will engage in hand ching materials ice Science <u>Time: 9:00-9:50</u> <u>Iovel Method for Teac</u> ezman, Laura Lenz	Level: Middle <u>Ve're still finding gre</u> Cook Tina Denney Monday? No time t 've begged, borrowe Level: High <u>nool</u> eman ds-on Earth systems <u>Level: High</u> <u>ching Gene Expressi</u> -on activities to tead	ng all lessons. Room: Singapore at ideas! o search the Internet? If so, come see ed, and stolen over the years. Room: University activities, learn about resources avai Room: Grand Hall East A on ch gene expression and how it relates	e lable,

Day: FRI, 2/17	Time: 9:00-9:50	Level: K-8	Room: Grand Hall East C
Title: The Butterfly	<u>Man</u>		
Presenters: Steve R	ich		
Description: Join au	thor Steve Rich for a r	nigration journey with the	e Monarch Butterfly. Incorporate
reading, mathemati	ics, and social studies i	nto your science lessons,	and consider inviting "The Butterfly
Man" to your schoo	l.		
Content: Biology (Li	fe Science)		
Day: FRI, 2/17	Time: 9:00-9:50	Level: Middle	Room: Grand Hall East D
Title: Inquiry Matte	ers -		
Presenters: Katheri	ne Armstrong, Jane Sh	arp, Steve Jones	
Description: Studen	nts learn science by DC	ING science. Use best pr	actices that include inquiry and
literacy that are inc	orporated in a researc	h-based program. Free w	orkshop materials from Delta
Education			
Content: General So	cience		
Day: FRI, 2/17	Time: 9:00-9:50	Level: Middle	Room: Techwood
Title: Middle Schoo	l Edible Science Lesso	ns	
Presenters: Tammy			
	•	! This workshop will com	bine not only hands on science
-		niddle schoolers heartfo	•
Content: General So			
Day: FRI, 2/17	Time: 9:00-9:50	Level: Elementary	Room: Hong Kong
•		uto and the Kuiper Belt- I	
Presenters: April W			
•		vas launched on a nine-ve	ear journey toward the edges
	•		uto and the Kuiper Belt in 2015, and
		•	It there. We'll take a look at the latest
		•	been developed for teachers and
students.			
Content: DIOIOSVILI	fe Science)		
Content: Biology (Li	fe Science)		
Content: Biology (Li		1 - 9·00-10·50 Sessio	nns
	Friday	/ - 9:00-10:50 Sessio	
Day: FRI, 2/17	Frida Time: 9:00-10:50	y - 9:00-10:50 Sessic Level: Middle	ons Room: Spring
Day: FRI, 2/17 Title: Science Tools	Frida Time: 9:00-10:50 for Success	Level: Middle	
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown	Level: Middle Flanagan, Nayati Harris	Room: Spring
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache	Frida Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a ha	Level: Middle Flanagan, Nayati Harris ands-on demonstration of	Room: Spring f science tools including: interactive
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache notebooks, foldable	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a ha es, vocabulary strategi	Level: Middle Flanagan, Nayati Harris ands-on demonstration of	Room: Spring
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teacher notebooks, foldabler information will be	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a has s, vocabulary strategio distributed!	Level: Middle Flanagan, Nayati Harris ands-on demonstration of	Room: Spring f science tools including: interactive
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache notebooks, foldable	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a has s, vocabulary strategio distributed!	Level: Middle Flanagan, Nayati Harris ands-on demonstration of	Room: Spring f science tools including: interactive
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teacher notebooks, foldabler information will be	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a has es, vocabulary strategio distributed! fe Science)	Level: Middle Flanagan, Nayati Harris ands-on demonstration of es, and various differentia	Room: Spring f science tools including: interactive ation techniques. Free materials and
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache notebooks, foldable information will be Content: Biology (Li	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Brown ers will experience a has es, vocabulary strategio distributed! fe Science)	Level: Middle Flanagan, Nayati Harris ands-on demonstration of es, and various differentia	Room: Spring f science tools including: interactive ation techniques. Free materials and
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache notebooks, foldable information will be Content: Biology (Li	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Browners will experience a has es, vocabulary strategio distributed! fe Science) Friday Time: 10:00-10:50	Level: Middle Flanagan, Nayati Harris ands-on demonstration of es, and various differentia	Room: Spring f science tools including: interactive ation techniques. Free materials and
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teacher notebooks, foldabler information will be Content: Biology (Li Day: FRI, 2/17 <u>Title: Flipping Guys</u>	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Browners will experience a has es, vocabulary strategio distributed! fe Science) Friday Time: 10:00-10:50	Level: Middle Flanagan, Nayati Harris ands-on demonstration of es, and various differentia	Room: Spring f science tools including: interactive ation techniques. Free materials and
Day: FRI, 2/17 <u>Title: Science Tools</u> Presenters: Deanna Description: Teache notebooks, foldable information will be Content: Biology (Li	Friday Time: 9:00-10:50 for Success Boyd, Priscilla Browners will experience a has es, vocabulary strategio distributed! fe Science) Friday Time: 10:00-10:50	Level: Middle Flanagan, Nayati Harris ands-on demonstration of es, and various differentia	Room: Spring f science tools including: interactive ation techniques. Free materials and

Day: FRI, 2/17	Time: 10:00-10:50	Level: Elementary	Room: Manila	
• • •	PD with NSTA Press Book	•		
Presenters: Edwar	d Rock		Na	tional Science Teachers Association
revel in the resear books. We'll discu		ices provided by NSTA Pr ands-on examples for usi	ess' professional deve ng these extraordinary	lopment tools as
Day: FRI, 2/17	Time: 10:00-10:50	Level: High	Room: Cairo	ST EPI
-	gital Resources from the H	-	r Biotechnology	
-	er Whitney Carden, Dr. N			51.50
	ine students using their sr			a Biotech Stran d
	is hands-on workshop tea			
digital resources	·		0	
Content: Life Scier	nce			
Day: FRI, 2/17	Time: 10:00-10:50	Level: K-5	Room: International	l Ballroom
<u> [itle: Hands On 5^t</u>	^h Grade All Year Long – Pa	aulding MSP		
Presenters: Sally C	Creel, Stacey Osborne, 5 th	Grada Cobort		
	her leaders from the Paul		te several hands-on ex	periments to
Description: Teac	-	ding MSP will demonstra		
Description: Teac teach 5 th grade sci	her leaders from the Paul	ding MSP will demonstra		
Description: Teac teach 5 th grade sci fitting science in a	her leaders from the Paul ence GPS. Attendees will	ding MSP will demonstra		
Description: Teac teach 5 th grade sci fitting science in a Content: General	her leaders from the Paul ence GPS. Attendees will n elementary classroom.	ding MSP will demonstra take away several lessor	is and receive practical	
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50	ding MSP will demonstra		
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 Title: Sensing Scie	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 nce	ding MSP will demonstra take away several lessor	is and receive practical	
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Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Title: Sensing Scie</u> Presenters: Micha Description: Exper	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif	ding MSP will demonstra take away several lessor Level: K-8	ns and receive practical	advice on
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Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Fitle: Sensing Scie</u> Presenters: Micha Description: Expent the future we can Content: General	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif	ding MSP will demonstra take away several lessor Level: K-8	ns and receive practical	advice on
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 Fitle: Sensing Scie Presenters: Micha Description: Expen- the future we can Content: General Day: FRI, 2/17 Fitle: Campus Out	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 nce ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 door Education Developr	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil eir hands. Level: Elementary	ns and receive practical Room: Montreal dren to the world arou	advice on
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 Title: Sensing Scie Presenters: Micha Description: Exper the future we can Content: General Day: FRI, 2/17 Title: Campus Out Presenters: Al Tate	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 door Education Developr e	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil tir hands. Level: Elementary ment- FERNBANK	Room: Montreal dren to the world arou	I advice on
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Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 Title: Sensing Scie Presenters: Micha Description: Expent the future we can Content: General Day: FRI, 2/17 Title: Campus Out Presenters: Al Tate Description: Esent school campuses (her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 nce ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 door Education Developr e cially, I plan to present a s COED "Campus Outdoor I	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil fr hands. Level: Elementary ment- FERNBANK lide show supporting the Education Development"	Room: Montreal dren to the world arou Room: Hong Kong development and use) and local parks (or ot	I advice on Ind them is of her
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Title: Sensing Scie</u> Presenters: Micha Description: Exper the future we can Content: General Day: FRI, 2/17 <u>Title: Campus Out</u> Presenters: Al Tate Description: Esent school campuses (convenient outdoor	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 <u>door Education Developr</u> e tially, I plan to present a s COED "Campus Outdoor I or locations) for academic	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil eir hands. Level: Elementary <u>ment- FERNBANK</u> lide show supporting the Education Development"	Room: Montreal dren to the world arou Room: Hong Kong development and use) and local parks (or ot cology, Geology, Physic	of her cs, and
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Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Title: Sensing Scie</u> Presenters: Micha Description: Exper the future we can Content: General Day: FRI, 2/17 <u>Title: Campus Out</u> Presenters: Al Tata Description: Esent school campuses (convenient outdoo applied mathmetic	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 door Education Developre e cially, I plan to present a s COED "Campus Outdoor I for locations) for academic cs. I plan to present slides ussion period at the end.	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil eir hands. Level: Elementary <u>ment- FERNBANK</u> lide show supporting the Education Development"	Room: Montreal dren to the world arou Room: Hong Kong development and use) and local parks (or ot cology, Geology, Physic	of her cs, and
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Title: Sensing Scie</u> Presenters: Micha Description: Exper the future we can Content: General Day: FRI, 2/17 <u>Title: Campus Out</u> Presenters: Al Tate Description: Esent school campuses (convenient outdoo applied mathmetic others, and a discu Content: Biology (her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 <u>door Education Developr</u> e cially, I plan to present a s COED "Campus Outdoor I for locations) for academic cs. I plan to present slides ussion period at the end. Life Science)	ding MSP will demonstra take away several lessor Level: K-8 fe. Reconnecting our chil eir hands. Level: Elementary ment- FERNBANK lide show supporting the Education Development" curriculum in Biology, Ed s with one or two example	Room: Montreal dren to the world arou Room: Hong Kong development and use) and local parks (or ot cology, Geology, Physic les, locations and prop	of her cs, and
Description: Teac teach 5 th grade sci fitting science in a Content: General Day: FRI, 2/17 <u>Title: Sensing Scie</u> Presenters: Micha Description: Exper the future we can Content: General Day: FRI, 2/17 <u>Title: Campus Out</u> Presenters: Al Tate Description: Esent school campuses (convenient outdoo applied mathmetic	her leaders from the Paul ence GPS. Attendees will n elementary classroom. Time: 10:00-10:50 <u>nce</u> ela D'Aquanni riences bring science to lif invite them to hold in the Time: 10:00-10:50 door Education Developre e stially, I plan to present a s COED "Campus Outdoor I or locations) for academic cs. I plan to present slides ussion period at the end. Life Science) Time: 10:00-10:50	ding MSP will demonstra take away several lessor Level: K-8 Te. Reconnecting our chil eir hands. Level: Elementary <u>ment- FERNBANK</u> lide show supporting the Education Development"	Room: Montreal dren to the world arou Room: Hong Kong development and use) and local parks (or ot cology, Geology, Physic	of her cs, and

Description: The D	Mullenax		
bescription: me B	arrier Islands of Georgia	will be presented thro	ugh hands-on activities and discussion
		ats, geography, and his	story of the barrier islands.
Content: Earth/Spa	ace Science		
Day: FRI, 2/17	Time: 10:00-10:50	Level: Middle	Room: Singapore
	Promote Reading and V		ol Science Instruction
•	unn, Cary Sell, Brian Lucy		
•		-	imed at improving student's reading
-	s as they relate to under	standing middle schoo	I science topics
Content: General S	cience		
Day: FRI, 2/17	Time: 10:00-10:50	Level: 6-12	Room: University
	visible Universe with NA	<u>ASA</u>	
Presenters: Tyson			
•		•	e properties of light waves—from radio
•	ands-on activities and fre	ee NASA materials.	
Content: Earth/Spa	ice Science		
Day: FRI, 2/17	Time: 10:00-10:50	Level: Middle	Room: Techwood
<u> Title: Single Gende</u>	er and Science:What Wo	rks Best?	
Presenters: Daphn	e Todd, Robert Wells, Tra	avis Phelps	
Description: Science	e Showdown: Boys vs Gi	irls in Science Achiever	nent! Join us to learn gender specific
strategies to incrre	ase student interest in so	cience inquiry and mas	stery of the Georgia Performance
Standards.			
Content: Interdisci	plinary		
Day: FRI, 2/17	Time: 10:00-10:50	Level: 6-12	Room: Grand Hall East A
<u> Fitle: Investigating</u>	Alternative Energy: Hyc	drogen and fuel cells	
Presenters: AMY K	EZMAN, Laura Lenz		
Description: Join	s for an overview and tw	o activities from a clas	and any tasts of CEDUD in a dula an
Description: Join n			sroom-tested SEPUP module on
•			ronmental issues related to
nydrogen & fuel ce			
nydrogen & fuel ce ransportation.	lls within the context of		
nydrogen & fuel ce ransportation. Content: Earth/Spa	lls within the context of		
nydrogen & fuel ce ransportation. Content: Earth/Spa Day: FRI, 2/17	Ils within the context of ace Science	current energy & envir Level: Middle	ronmental issues related to
nydrogen & fuel ce transportation. Content: Earth/Spa Day: FRI, 2/17 Title: Middle Schoo	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy	current energy & envir Level: Middle	ronmental issues related to
nydrogen & fuel ce ransportation. Content: Earth/Spa Day: FRI, 2/17 Fitle: Middle Schoo Presenters: Dr. Jan Description: Celebr	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our	current energy & envir Level: Middle Data Collectors Real Easy Data probes	ronmental issues related to Room: Grand Hall East B . Learn how to integrate the RED
nydrogen & fuel ce ransportation. Content: Earth/Spa Day: FRI, 2/17 Fitle: Middle Schoo Presenters: Dr. Jan Description: Celebr	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our	current energy & envir Level: Middle Data Collectors Real Easy Data probes	ronmental issues related to Room: Grand Hall East B
nydrogen & fuel ce transportation. Content: Earth/Spa Day: FRI, 2/17 Fitle: Middle Schoo Presenters: Dr. Jan Description: Celebr	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our ur classroom with two ha	current energy & envir Level: Middle Data Collectors Real Easy Data probes	ronmental issues related to Room: Grand Hall East B . Learn how to integrate the RED
nydrogen & fuel ce cransportation. Content: Earth/Spa Day: FRI, 2/17 Fitle: Middle Schoo Presenters: Dr. Jan Description: Celebr cechnology into yo Content: Physical S	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our ur classroom with two ha	current energy & envir Level: Middle Data Collectors Real Easy Data probes	ronmental issues related to Room: Grand Hall East B . Learn how to integrate the RED
hydrogen & fuel ce cransportation. Content: Earth/Spa Day: FRI, 2/17 Title: Middle Schoo Presenters: Dr. Jan Description: Celebr cechnology into yo Content: Physical S Day: FRI, 2/17	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our ur classroom with two ha Science Time: 10:00-10:50	current energy & envir Level: Middle Data Collectors Real Easy Data probes ands-on activities: Pres	Room: Grand Hall East B . Learn how to integrate the RED ssure in a Column and Cartesian Diver.
hydrogen & fuel ce transportation. Content: Earth/Spa Day: FRI, 2/17 Title: Middle Schoo Presenters: Dr. Jan Description: Celebr technology into you Content: Physical S Day: FRI, 2/17 Title: EZ Data Colle	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our ur classroom with two ha Science Time: 10:00-10:50 ection with TI	current energy & envir Level: Middle Data Collectors Real Easy Data probes ands-on activities: Pres	Room: Grand Hall East B . Learn how to integrate the RED ssure in a Column and Cartesian Diver.
aydrogen & fuel ce ransportation. Content: Earth/Spa Day: FRI, 2/17 Title: Middle Schoo Presenters: Dr. Jan Description: Celebu echnology into you Content: Physical S Day: FRI, 2/17 Title: EZ Data Colle Presenters: Ned Co	ells within the context of ace Science Time: 10:00-10:50 ol Tech Fest: Really Easy net Mcmanic rate innovation with our ur classroom with two ha Science Time: 10:00-10:50 ection with TI olley	current energy & envir Level: Middle Data Collectors Real Easy Data probes ands-on activities: Pres Level: 6-12	Room: Grand Hall East B . Learn how to integrate the RED ssure in a Column and Cartesian Diver.

prizes! Content: General So	cience			
Day: FRI, 2/17	Time: 10:00-10:50	Level: Middle	Room: Grand Hall East	D
Presenters: Donna Description: Studer	its get it – genotypes, ph inexpensive activities. E	enotypes, chromoso	mes, genes, meiosis, and mu ember it! Come away with s	
Presenters: George Description: What i	Stickel, PhD. s critical thinking and ho	w will I recognize it?	Room: Inman can I get students to think c Moving beyond merely doir , apply, and integrate conce	ng science,
	Friday -	11:00-11:50 Ses	sions	
Title: Flipping Guys Presenters: Description: Content: General Day: FRI, 2/17 Title: Robust Netw	Time: 11:00-11:50 orks that Allow Science	Level: Elementary Educators to Thrive	Room: Manila	STA
Presenters: Edward Description: Teache takes place during a ranges, administrat discussion forums t examples of the typ	Rock ers are lifelong learners. In open and focused con ors and staff developers hey can engage in throug es of professional discus If science matters to yo a door prize.	And lifelong learners versation with collea will learn about the e gh the National Scien ssions and resource sl	know that most effective le gues. Science Educators of extraordinary networks, lists ce Teachers Association. W haring that takes place on th chance to will a <i>Science Mat</i>	all grade serves and e'll share nese lively
student motivation	yne tation includes a discuss and learning outcomes.		Room: Montreal ased learning can be used to ines will be distributed and o	•
Content: Interdiscip	ninary			

•	ette accuracy. Guidelines		r pipetting technique and th andling and calibrating of pi	
Presenters: Taha Description: Com	e join fellow physics teach om simple yet engaging ac	ers in an afternoon	Room: Roswell filled with hands on physics ls, share-a-thon, and more.	
Description: Who	n Thomas, 7 th Grade MSP F says that Life Science can' ivities can promote studer	t be hands-on, expl	Room: Vancouver oratory, and exciting? Com and love for our natural we	
Presenters: Andy Description: The probeware can be	Felt purpose of this session will used to facilitate an inqui session will use Vernier p	l be to demonstrate ry-based high schoo	Room: Inman Based Chemistry Classroon how graphing calculators a ol chemistry classroom for n Navigator.	nd
Presenters: Judy \	e literacy.	e Walker	Room: University	nd
Presenters: Blair I Description: This	session will present a ratio e-with-you information ab	-	Room: Techwood 2.0 tools in Science instruct anding Web 2.0 tools availab	
Description: Sense	a Legoas, Kristina Istre e-ational Science is a hand		Room: Spring any practical and inexpensi e all of the senses as well as	

to the teacher and the Content: General Sc				
	Time: 11:00-11:50	Level: High or the AP Biology I	Room: Grand Hall East A Redesign	
	practice ready-to-use act ase the level of critical th		ues you can implement immediately rating the desired changes for the A	
Title: Chemistry and Presenters: Chris Ne	Time: 11:00-11:50 I the Atom: Fun With At ill, Wendy Delano, Alen nce innovative games a	Brown	Room: Grand Hall East B es! ive students with different learning s	tyles
opportunities to exp Content: Chemistry	lore and grasp atomic st	tructure and the po	eriodic table.	
Day: FRI, 2/17 Title: The Impact of	Time: 11:00-11:50 Social Media on Science	Level: 6-12 Learning in the C	Room: Grand Hall East C lassroom	
-	ssion will demonstrate 2 king, Social Media, and S	-	unication and collaboration in Scienc to engage students and/or teachers.	e by
Day: FRI, 2/17 Title: Cross-Curricula Presenters: Stephan		Level: K-8	Room: Grand Hall East D	
ever before. How ca how!	an you help prepare you		ater integration of curriculum areas t r for what will come in futureFin	
Content: Interdiscip	Time: 11:00-11:50	Level: 6-12	Room: Singapore	
Title: Science Fair Fu Presenters: Beverly Description: Do you	In For Kids Klein, Beverly Adams need ways to make sure	e that your Science	Projects are student projects? This ocess successfully by using a plannin	
Content: General Sc	ience			
Presenters: Linda Lo			Room: Hong Kong RNBANK erstand how the human body	
works, but many find accomplishing this.	d that the emphasis on i There are only so many	mproving ELA and hours in a day! Bu	math performance presents challeng t there is hope: the human body is a esentation presents lessons and activ	-

	General Session –	12:00-1:30 Inter	national Ballroom	
	Frida	y – 1:30-4:20 Ses	sions	
	Frida	y – 1:30-2:20 Ses	sions	
•	Time: 1:30-2:20 <u>ates</u> Carlos Aguilar ession will provide info nt of Education that af	Level: K-12	Room: International Ballro t policies coming out of the n throughout the state.	oom
Day: FRI, 2/17 <u>Title: GABio - BioR</u> Presenters: Sherri Description: Content: BioTechr	e Andrews	Level:	Room: Cairo	Biotech Stran
interactive worksh (middle, high scho certified, or otherv	on Greg Kennesaw State Univers Iop aimed at addressing ol) level. This session is wise new teachers who hat target common stu	g introductory chemist specifically targeted t are looking for resear	Room: Singapore on faculty and graduate stude try GPS concepts at the secon cowards out-of-field, alternati rch-based lessons that are saf	dary vely-
Presenters: Gail M Description: This p middle, and secon middle and second Content: Interdisc	dary teachers learn to r dary science and math. iplinary	tt how several successfu more effectively use ir	Room: Manila Il programs have helped elem nquiry-based instruction in ele	•
Description: Make	n Golden, Jenny Hohn learning about simple y a variety of hands-on,		Room: Montreal otion, and Newton's Laws FUN es that will enhance your tead	-

Day:FRI, 2/17Time: 1:30-2:20Level: ElementaryRoom: VancouverTitle:Snacking Your Way Through Science *REMIX*Presenters:Stacey Osborne, Alan Aumann,	
Description: Looking for ways to assess your students through performance based activities? This presentation will provide hands on edible science labs for grades 3-5. Content: Earth/Space Science	
Day: FRI, 2/17 Time: 1:30-2:20 Level: High Room: University Title: Closing GAPSS in student's achievement. Presenters: Steve Tester	
Description: This presentation provides an overview of the GAPSS process highlighting key standards used to measure teacher performance. Content: Interdisciplinary	
Day: FRI, 2/17 Time: 1:30-2:20 Level: High Room: Spring Title: Vertical Alignment in Action - Biology & Chemistry Presentency Presentency	
Presenters: Lauren Horton, Tasha Young Description: Want to help prepare your students for science across grade levels? Come learn ideas a activities that align biology and chemistry K-12. Packets will be given to first 25 attendees. Content: General Science	and
Day:FRI, 2/17Time: 1:30-2:20Level: HighRoom: Grand Hall East ATitle:Learning and Teaching Science from the Inside OutPresenters:Danielle Armstrong, Shannon Thorne-BrackettDescription:This session focuses on strategies for engaging non-traditional and at-risk students takinBiology, Physics and Physical Science geared toward maximizing student engagement while increasinrigour.Content:General Science	
Day:FRI, 2/17Time: 1:30-2:20Level: HighRoom: Grand Hall East BTitle:Hands-On Genetics: Crazy Traits and Adaptation SurvivorPresenters:Chris Neill, Wendy Delano, Alen BrownDescription:How can you predict the traits of offspring when you know the genetic makeup of the parents? Ideas come alive by creating crazy creatures and studying the resulting population.Content:Biology (Life Science)	
Day:FRI, 2/17Time: 1:30-2:20Level: ElementaryRoom: PiedmontTitle:Let's Get GraphicPresenters:Brittany Jamison, Madeline JonesDescription:Graphic organizers can be a great way to display science. However, creativity and plannican make a dull graphic organizer shine!Content:General Science	ng
Day: FRI, 2/17 Time: 1:30-2:20 Level: K-8 Room: Hong Kong <u>Title: GENEsis: DNA Basics- FERNBANK</u> Presenters: Patricia Jenkins Description: This program is designed to present DNA fundamentals, teaching strategies,	

demonstrations and labs to assist elementary and middle school Content: Biology (Life Science)	bl teachers.
Day: FRI, 2/17 Time: 1:30-2:20 Level: K-5	Room: Hong Kong
Title: Elementary Science: How to do it Right!	
Presenters: Nancy DiPetrillo, Kelly Bodner, Donna Smith	
Description: Explore the design, structure, and impact of science	
Teachers and school administrator will share how science labs,	outdoor learning areas, and space
program have been cultivated. Content: General Science	
content. General Science	
Friday – 1:30-3:20 Ses	sions
Day: FRI, 2/17 Time: 1:30-3:20 Level: High	Room: Grand Hall East C
Title: STEM Activities Using TI-Nspires	
Presenters: Jan Nourollahi, Ned Colley	Namina and Mannier Duckey, and
Description: STEM Activities will be presented using the new Ti- Handouts provided for teachers.	-Nspires and vernier Probeware.
Content: General Science	
Day: FRI, 2/17 Time: 1:30-3:20 Level: Elementary	Room: Grand Hall East D
Title: Differentiating Science in the Active Classroom (K-5)	
Presenters: Stephanie Shultz	
Description: After every HANDS-ON ACTIVITY we will stop to re	flect on the process & standards behind
each & how to differentiate these tasks between all grade level	s. Using a variety of resources,
participants	
Content: General Science	
Friday – 1:30-4:20 Ses	
Day: FRI, 2/17 Time: 1:30-4:20 Level: 6-12	Room: Roswell
Title: Physics Teaching Strand Co-Sponsored by SACS-AAPT	PHYSICS EDUCATION
Presenters: Taha Mzoughi Description: Come join fellow physics teachers in an afternoon	
Activities range from simple yet engaging activities, teacher too	
continued from morning.	is, share a thon, and more. Session
Content: Physics	
Friday – 2:30-3:20 Ses	
Day: FRI, 2/17 Time: 2:30-3:20 Level: High	Room: Grand Hall East B
Title: Flipping Guys	
<u>Title: Flipping Guys</u> Presenters:	
<u>Title: Flipping Guys</u> Presenters: Description:	
<u>Title: Flipping Guys</u> Presenters:	
<u>Title: Flipping Guys</u> Presenters: Description: Content: General	Room: Singapore
Title: Flipping Guys Presenters: Description: Content: General	Room: Singapore
Title: Flipping Guys Presenters: Description: Content: General Day: FRI, 2/17 Time: 2:30-4:20 Level: High	Room: Singapore
Title: Flipping Guys Presenters: Description: Content: General Day: FRI, 2/17 Time: 2:30-4:20 Level: High Title: Formative Assessment and Differentiation in Science Presenters: Gilda Lyon Description: Tired of reading about differentiation theory? Content:	ne see differentiation in action
Title: Flipping Guys Presenters: Description: Content: General Day: FRI, 2/17 Time: 2:30-4:20 Level: High Title: Formative Assessment and Differentiation in Science Presenters: Gilda Lyon	ne see differentiation in action

Content: General S	cience			
Day: FRI, 2/17 <u>Title: SAND- FERNE</u> Presenters: Nan Hu Description: Hands	lebner	Level: K-8 er and beach sand t	Room: Hong Kong	
	provided for the first	•	upper elementary and middle school	
Day: FRI, 2/17 Title: Science is STE Presenters: Patti G	Time: 2:30-3:20 EM-tastic! rammens, Lilly Turpin	Level: High	Room: Manila	
	easy to implement and		e STEM into your curriculum. We will give time or money.	2
Day: FRI, 2/17 Title: Student Men	Time: 2:30-3:20 tor Magic	Level: K-12	Room: Montreal	
	y Cantrell, Lisa Oswald se Elementary Science cience		High School Mentors	
Description: This se	Howell, La'Detra Bras ession will focus on inte rested in doing and lea	eractive, innovative	Room: Vancouver	
Day: FRI, 2/17 Title: Backward De	Time: 2:30-3:20 sign for Conceptual La	Level: High	Room: Spring	
Presenters: Sherrie	e Chovanec, Peter Fisch u have favorite labs tha ners.	ner	n? Use backward design to infuse inquiry	,
Day: FRI, 2/17	Time: 2:30-3:20	Level: Middle	Room: Grand Hall East A	
Presenters: Amy Ke Description: We wi	ezman, Peggy Bailey, Il use puzzle pieces rep oncepts covered are; a	presenting earth's o	inents tell you about the earth's history? continents to begin to investigate tal drift, fossil evidence,and geological tim	
Day: FRI, 2/17 <u>Title: The Value of</u> <u>the High School Sci</u>	-	Level: High parison of Traditio	Room: Inman nal versus Virtual Laboratory Activities in	Ĩ

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		iday – 2:30-4:20 Se		
Day: FRI, 2/17	Time: 2:30-4:20		Room: Cairo	ALMON
	ech Strand) "DNA is	s Elementary Brown, Chandan Morris Ro	ahincan	
		-	ee science outreach program	Biotech Strand
-		ng science activities into t		
Content: Life Scie		0		
Day: FRI, 2/17	Time: 2:30-4:2		Room: Techwood	
	he Edge of the Sola	<u>ir System</u>		
Presenters: Jayma				
•	•	NASA giveaways are inclu	er topics and NASA missions ir	ito your
Content: Earth/Sp	•	ASA givedways are inclu	ueu!	
Day: FRI, 2/17	Time: 2:30-4:2	0 Level: High	Room: Piedmont	
-	r Order Thinking Ac	ctivities in Biology		
Presenters: Kriste	n Dotti			
•	l of lectures and har	ndouts? Using games mo	deling and simulations this se	
			-	
			an engaging and memorable m	
add new activities Content: Biology (-	
Content: Biology ((Life Science)	s for teaching biology in a	an engaging and memorable m	nanner.
Content: Biology	(Life Science) Time: 2:30-4:2	s for teaching biology in a constant of the second se	an engaging and memorable m Room: International Ballro	nanner.
Content: Biology (Day: FRI, 2/17 Title: Out of the T	(Life Science) Time: 2:30-4:2 Textbook and Into t	s for teaching biology in a	an engaging and memorable m Room: International Ballro	nanner.
Content: Biology Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy	(Life Science) Time: 2:30-4:2 Textbook and Into the other states of the other states o	s for teaching biology in a 0 Level: K-12 <u>he Fold with Notebook F</u>	an engaging and memorable m Room: International Ballro	oom
Content: Biology Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl	(Life Science) Time: 2:30-4:2 <u>extbook and Into ti</u> / Wisker arge your students' es [®] . Cut, fold, and	s for teaching biology in a 0 Level: K-12 <u>he Fold with Notebook F</u>	an engaging and memorable m Room: International Ballro oldables® ad turn on the motivation facto	oom
Content: Biology Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl	(Life Science) Time: 2:30-4:2 <u>extbook and Into ti</u> / Wisker arge your students' es [®] . Cut, fold, and	s for teaching biology in a 0 Level: K-12 he Fold with Notebook Formattive notebooks ar	an engaging and memorable m Room: International Ballro oldables® ad turn on the motivation facto	oom
Content: Biology Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl	(Life Science) Time: 2:30-4:20 extbook and Into the y Wisker arge your students' es®. Cut, fold, and the Science	ss for teaching biology in a 0 Level: K-12 <u>he Fold with Notebook Fr</u> interactive notebooks ar more in this high-energy,	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session.	oom
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General	(Life Science) Time: 2:30-4:20 Textbook and Into the Y Wisker arge your students' es®. Cut, fold, and the Science Fr	ss for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Se	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session. ssions	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General	(Life Science) Time: 2:30-4:2 Textbook and Into t Y Wisker arge your students' es [®] . Cut, fold, and Science Fr Time: 3:30-4:2	s for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Se	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session.	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Gu</u>	(Life Science) Time: 2:30-4:2 Textbook and Into t Y Wisker arge your students' es [®] . Cut, fold, and Science Fr Time: 3:30-4:2	ss for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Se	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session. ssions	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Guy</u> Presenters:	(Life Science) Time: 2:30-4:2 Textbook and Into t Y Wisker arge your students' es [®] . Cut, fold, and Science Fr Time: 3:30-4:2	ss for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Se	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session. ssions	oom bor with
Content: Biology (Day: FRI, 2/17 Title: Out of the T Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 Title: Flipping Guy Presenters: Description:	(Life Science) Time: 2:30-4:2 Textbook and Into t Y Wisker arge your students' es [®] . Cut, fold, and Science Fr Time: 3:30-4:2	ss for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Se	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session. ssions	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Guy</u> Presenters: Description: Content: General	(Life Science) Time: 2:30-4:24 Textbook and Into the y Wisker arge your students' es®. Cut, fold, and the Science Fr Time: 3:30-4:24 /S	ss for teaching biology in a Level: K-12 he Fold with Notebook F interactive notebooks ar more in this high-energy, iday – 3:30-4:20 Ses 0 Level: High	an engaging and memorable m Room: International Ballro oldables [®] ad turn on the motivation factor hands-on session. SSIONS Room: Grand Hall East B	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Guy</u> Presenters: Description: Content: General Day: FRI, 2/17	(Life Science) Time: 2:30-4:24 Textbook and Into the p Wisker arge your students' es®. Cut, fold, and the Science Fr Time: 3:30-4:24 Time: 3:30-4:24	As for teaching biology in a solution of the solution of th	an engaging and memorable m Room: International Ballro <u>oldables®</u> nd turn on the motivation factor hands-on session. ssions	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Guy</u> Presenters: Description: Content: General Day: FRI, 2/17 <u>Title: Life or deat</u>	(Life Science) Time: 2:30-4:20 Textbook and Into the Wisker arge your students' es®. Cut, fold, and the Science Fr Time: 3:30-4:20 A state of the stateo	As for teaching biology in a solution of the solution of th	an engaging and memorable m Room: International Ballro oldables [®] ad turn on the motivation factor hands-on session. SSIONS Room: Grand Hall East B	oom bor with
Content: Biology (Day: FRI, 2/17 <u>Title: Out of the T</u> Presenters: Nancy Description: Rech Notebook Foldabl Content: General Day: FRI, 2/17 <u>Title: Flipping Guy</u> Presenters: Description: Content: General Day: FRI, 2/17 <u>Title: Life or deat</u> Presenters: Maric	(Life Science) Time: 2:30-4:24 Textbook and Into the Wisker arge your students' es®. Cut, fold, and the Science Fr Time: 3:30-4:24 h by PowerPoint in on Reeves	As for teaching biology in a solution of the solution of th	an engaging and memorable m Room: International Ballro oldables® ad turn on the motivation factor hands-on session. ssions Room: Grand Hall East B Room: Manila	oom oor with
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D ED 2 /47	-		Desce Masteral
Day: FRI, 2/17	Time: 3:30-4:20 ent Success in Science	Level: K-8	Room: Montreal
Presenters: Ginger			
		will provide science	educators with the tools needed to make
	om accessible and succ		
Content: Interdisci			
	, ,		
Day: FRI, 2/17	Time: 3:30-4:20	Level: College	Room: University
	nd remediating miscor	nceptions	
Presenters: John P	•	с н с	
			nisconceptions among higher education
	faculty and preservice	students.	
Content: Interdisci	pinary		
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Inman
Title: Differentiation	on using student shuff	le	
Presenters: Sarah I	Eales		
Description: Differ	entiation within one cl	assroom can be tou	igh. Come see how a group of chemistry
	differentiation a depa	rtment initiative.	
Content: Chemistr	y		
Dav: FRI 2/17	Time: 3:30-4:20	level: High	Room: Spring
• • •		Level: High to Improve Scientif	Room: Spring fic Literacy
Day: FRI, 2/17 Title: Using Journa Presenters: Amano	l Clubs in High School	•	
Title: Using Journa Presenters: Amanc	l Clubs in High School da Baskett	to Improve Scientif	
Title: Using Journa Presenters: Amano Description: Learn understanding of c	I Clubs in High School da Baskett how to set up a journa urrent scientific literat	to Improve Scientif	fic Literacy
Title: Using Journa Presenters: Amano Description: Learn understanding of c	I Clubs in High School da Baskett how to set up a journa urrent scientific literat	to Improve Scientif	fic Literacy
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science	to Improve Scientif al club within the hi ure.	fic Literacy gh school classroom to support student
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20	to Improve Scientif al club within the hig ure. Level: High	fic Literacy gh school classroom to support student Room: Grand Hall East A
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La	fic Literacy gh school classroom to support student Room: Grand Hall East A
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20 Swings: Harmonic Mot leill, Wendy Delano, Al	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown	fic Literacy gh school classroom to support student Room: Grand Hall East A
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure	to Improve Scientif al club within the higure. Level: High ion and Hooke's La len Brown ements, and predict	fic Literacy gh school classroom to support student Room: Grand Hall East A
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure	to Improve Scientif al club within the higure. Level: High ion and Hooke's La len Brown ements, and predict	fic Literacy gh school classroom to support student Room: Grand Hall East A
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Neill, Wendy Delano, Al observations, measure rmonic motion, oscillat	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law.
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure rmonic motion, oscillat	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: Fo	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 prensic Dissection Feat	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: Fo Presenters: Carolir	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20 Swings: Harmonic Mot Neill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 Drensic Dissection Feat na Teaching Partner	to Improve Scientif al club within the higure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12 curing Carolina's Pe	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C rfect Solution® Pigs
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: FC Presenters: Carolin Description: Engag	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Veill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 Drensic Dissection Feat na Teaching Partner ge students and revitali	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12 curing Carolina's Pe ze your instruction	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C rfect Solution® Pigs of mammalian structure and function with a
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: FC Presenters: Carolin Description: Engag	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 Defines and revitali reaching Partner se students and revitali	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12 curing Carolina's Pe ze your instruction	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C rfect Solution® Pigs
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: FC Presenters: Carolir Description: Engag "real" autopsy! Par Content: Life Scien	I Clubs in High School da Baskett how to set up a journa urrent scientific literat Science Time: 3:30-4:20 Swings: Harmonic Mot Veill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 Drensic Dissection Feat na Teaching Partner ge students and revitali rticipants dissect a pig ce	to Improve Scientif al club within the hig ure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12 curing Carolina's Pe ze your instruction using human autop	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C rfect Solution® Pigs of mammalian structure and function with a sy protocols. Free materials.
Title: Using Journa Presenters: Amano Description: Learn understanding of c Content: General S Day: FRI, 2/17 Title: Springs and S Presenters: Chris N Description: Make the concepts of ha Content: Physics Day: FRI, 2/17 Title: AUTOPSY: Fc Presenters: Carolir Description: Engag "real" autopsy! Par Content: Life Scien Day: FRI, 2/17	I Clubs in High School da Baskett how to set up a journa urrent scientific literat science Time: 3:30-4:20 Swings: Harmonic Mot Jeill, Wendy Delano, Al observations, measure rmonic motion, oscillat Time: 3:30-4:20 Defensic Dissection Feat na Teaching Partner ge students and revitali rticipants dissect a pignor ce Time: 3:30-4:20	to Improve Scientif al club within the higure. Level: High ion and Hooke's La len Brown ements, and predict tion, natural freque Level: 6-12 suring Carolina's Pe ze your instruction using human autop	fic Literacy gh school classroom to support student Room: Grand Hall East A w tions in hands-on investigations exploring ncy, resonance, and Hooke's Law. Room: Grand Hall East C rfect Solution® Pigs of mammalian structure and function with a

•			Edmodo to flip my biology classro	oms. The
•		ols that can be ind	corporated in the process.	
Content: Life Scier	ice			
Dav: FRI. 2/17	Time: 3:30-4:20	Level: 3-5	Room: Hong Kong	N SCIENC
• • •	ence: Hands on for 3rd		0 0	
Presenters: Natha		,		
		G Come see som	e simple, fun, demonstrations tha	tourry school
•	classroom for all studen	5		L L
• • •		its in grades 5-5.		
Content: Biology (Life Science)			
Day: FRI, 2/17	Time: 3:30-4:20	Level: High	Room: Vancouver	
Title: Notable Not				
	Holcomb, Jenifer McLei	ndon Elizaboth D	otrio	
• •			notebooks in various science clas	ses. The
notebook is not or	ily used to increase lear	rning but also as a	an organizational strategy.	
Content: General S	Science			
	Science			

Saturday

Saturday – 8:30-9:20 Sessions	
Day: SAT, 2/18 Time: 8:30-9:20 Level: 6-12 Room: Manila	
Title: Standards Based Assessment for Inquiry Based Classrooms	
Presenters: Amy Beavers	
Description: Meaningful assessment that supports inquiry based science instruction is challenging. Th	is
session presents creative ways to integrate standards-based assessments to enhance student learning	3
outcomes.	
Content: General Science	
Day: SAT, 2/18 Time: 8:30-9:20 Level: K-8 Room: Montreal	
Title: Brain Boosters - Science Extension Activities for the Classroom	
Presenters: Jennifer Gates	
Description: Scientific learning doesn't have to end when the lesson does the excitement of science	
lives on in extension menus. Take away activities and lessons to extend learning and engage students	in
higher order and critical thinking.	
Content: General Science	
Day: SAT, 2/18 Time: 8:30-9:20 Level: High Room: Cairo	
Title: Teaching Physics with Angry Birds	
Presenters: Rebecca Howell	
Description: How to use free software to screen capture and analyze video of Angry Birds in order to	
teach/reinforce mechanics principles: kinematics, energy and momentum.	
Content: Physics	
Day: SAT, 2/18 Time: 8:30-9:20 Level: Middle Room: Roswell	
Title: Exploring Science Through Inquiry	
Presenters: Enosa Erhunmwunsee, Oneisha Young,	
Description: Come along on a journey and investigate Inquiry Based Teaching. Participants will learn t	the
jargon, the philosophy behind the approach and practical ways to incorporate it into today's science	
classes.	
Content: Interdisciplinary	
Day: SAT, 2/18 Time: 8:30-9:20 Level: K-8 Room: Techwood	
Title: Effectiveness and Use of a Weather Science and Safety Workshop for K-8 Teachers	
Presenters: Alan Stewart	
Description: This presentation reports on the progress of an NSF-Funded Weather Science and Safety	
Workshop For Georgia Teachers. Bibb County teachers who attended the workshop will share their	
experiences.	
Content: Earth/Space Science	
Saturday – 9:30-10:20 Sessions	
Day: SAT, 2/18 Time: 9:30-10:20 Level: 6-12 Room: Manila	
Title: "Georgia Barrier Islands, Rivers, and Swamps: Using local resources to reach students"	
Presenters: Missy Bennett, Nancy Deal, Brian Burruss	
Description: This presentation describes how teachers can use local resources such as Georgia's barrie	er

islands, rivers and sw Content: Earth/Space	amps to teach science Science	standards at mult	iple grade levels.
Presenters: Missy Be Description: This pres	nnett, Nancy Deal, Bria sentation describes how amps to teach science	n Burruss w teachers can us	Room: Manila <u>cal resources to reach students"</u> e local resources such as Georgia's barrier iple grade levels.
-	hop		Room: Montreal the different classification systems of the
Description: Use rese	noch, Katherine Armst arch based materials to ials from Delta Educatio	o teach science ar	Room: Vancouver and literacy. Experience a lesson and receiv
Presenters: Alfred Po Description: Learn ho	w tried-and-true biolo	gy laboratory acti	Room: Cairo Inquiry into Biology vities can be transformed into velop abilities for and understandings
Description: Two Hig	Boehlke, Becky Bundy h School science teache rests of the High Schoo	ers, with experien	Room: Roswell
Presenters: Sarah Jor Description: I'll share	activities that help eac lab ideas, and technolo	ch type of learner	Room: Techwood <u>r type of learner</u> : auditory, visual and kinesthetic. I'll share t will greatly improve ALL your students'

	Saturday	- 9:30-11:20 9	Sessions	
Day: SAT, 2/18 <u>Title: Differentiatic</u> Presenters: Gilda L	Time: 9:30-11:20 on in the Science Classroo yon	Level: Middle	Room: University	
Description: Experi Content: General S		ssroom complete v	with formative assessments.	CALL
Day: SAT, 2/18 Title: Labs using th		Level: High	Room: Spring	
		-	ontrollers and balance to coll ptops.	ect motion
	Saturday	- 10:30-11:20	Sessions	
Description: Discov	Bowser, Lynda Byrne ver a way to increase scie exposed to a drill-based	nce literacy by eng	Room: Manila gaging your students in tactile ases vocabulary knowledge	-
tool. Interactive no the perfect tool to	eel and learn how to use inte tebooks assist students ir integrate language arts, p	n developing highe particularly writing	Room: Piedmont s as an ongoing assessment a er order thinking and reasoni , and mathematics. During th ew entries in your very own j	ng skills. It is ne session
Presenters: Zoe Eva Description: Would parent and commu answers to these qu	nity involvement? Are yo	r science scores? / ou looking for "fun planning and cond	Room: Montreal Are you stumped by ways to " ways to engage your stude lucting a family science night vent.	nts? The
Title: Science Tales Presenters: Sumitra Description: In this	: Elementary School Chile a Himangshu, Randall Spa session we will share the storybook about habitat	aid e process preservic	Room: Cairo g a Science Story se teachers used to brainstor force and motion using conce	

Day: SAT, 2/18	Time: 10:30-11:20	Level: High	Room: Singapore	
		nd chemistry to f	acilitate student learning.	
Presenters: Frank L				
• •		· ·	ne strategies used in the modeling	
	op mathematical models (equations) that e	nable students to make scientific	
predictions.				
Content: Physical S	cience			
Day: SAT, 2/18	Time: 10:30-11:20	Level: High	Room: Roswell	
Title: Physics & the		Level. High	Koom. Roswen	
Presenters: Jaclyn I				
•	e iPad to present physics	concents		
Content: Physics		concepts.		
	- Saturdav	- 10:30-12:20	Sessions	
Day: SAT, 2/18	Time: 10:30-12:20	Level: Middle	Room: Vancouver	
Title: Energy: Sun	to Atmosphere to Earth			
Presenters: Jamie A	Akin, ,			
Description: We wi	ll do different experiment	s to determine he	ow energy is transformed as it comes f	rom
the sun through the	e atmosphere to Earth. Ha	and outs provided	d and some give-aways! Grades 6 - 12	
Content: Earth/Spa	ce Science			
Day: SAT, 2/18	Time: 10:30-12:20	Level: 6-12	Room: Techwood	
•			Room: Techwood culum in Science Courses	
•	DA/NSTA Collaborative F			
Title: Utilizing the I Presenters: Rebecc	DA/NSTA Collaborative F a Austin, ,	ood Safety Curri		in
Title: Utilizing the I Presenters: Rebecc Description: This se	DA/NSTA Collaborative F a Austin, , ession will provide applica	Food Safety Curri	<u>culum in Science Courses</u>	
Title: Utilizing the I Presenters: Rebecc Description: This se	DA/NSTA Collaborative F a Austin, , ession will provide applica the NSTA and will highligh	Food Safety Curri	<mark>culum in Science Courses</mark> plete curriculum developed by the FDA	
Title: Utilizing the I Presenters: Rebecc Description: This se collaboration with	DA/NSTA Collaborative F a Austin, , ession will provide applica the NSTA and will highligh rses.	Food Safety Curri	<mark>culum in Science Courses</mark> plete curriculum developed by the FDA	
Title: Utilizing the I Presenters: Rebecc Description: This se collaboration with t school science court	DA/NSTA Collaborative F a Austin, , ession will provide applica the NSTA and will highligh eses. plinary	Food Safety Curri nts with the com t ways to implem	culum in Science Courses plete curriculum developed by the FDA ent the curriculum into a variety of hig	
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Title: Utilizing the I Presenters: Rebecc Description: This se collaboration with t school science cour Content: Interdiscip Day: SAT, 2/18 Title: Effective Stra	DA/NSTA Collaborative F a Austin, , ession will provide applica the NSTA and will highligh eses. olinary Saturday – Time: 11:30-12:20 tegies for Whiteboarding	Tood Safety Curri nts with the com t ways to implem - 11:30-12:20 Level: K-8	culum in Science Courses olete curriculum developed by the FDA ent the curriculum into a variety of hig Sessions	
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Title: Teaching Science Through Song

Presenters: Donna Governor

Description: Learn what makes a good song for teaching science concepts and how to use it effectively in the classroom.

Content: Interdisciplinary

Day:SAT, 2/18Time: 11:30-12:20Level: HighRoom: RoswellTitle:Molecular Biology: Feasible, affordable & standards-aligned

Presenters: Laura Regassa, Donna Hammonds, Kelly Dabney

Description: Wondering how to bring the excitement of molecular biology into your high school classroom? This workshop will provide hands-on experience, teaching materials, and standards alignment.

Content: Life Science

Day:SAT, 2/18Time: 11:30-12:20Level: MiddleRoom: UniversityTitle:Case Studies of Problem Based Learning

Presenters: Larry Hampton, Lucy Guillory, Jamila Segure

Description: This presentation will explain and demonstrate the use of Problem Based Learning as a tool for teaching the GPS in life science and physical science classrooms.

Content: Physical Science