

Georgia Science Teachers Association Annual Conference at The Hyatt Regency Atlanta, GA • February 17-19, 2011

## **Conference Leadership Team**

## Ann Collins, Conference Chair Fayette County Schools

### Nancy Brim, Local Arrangements Co-Chair DeKalb County Schools

## Kathy Switzer, Local Arrangements Co-Chair DeKalb County Schools

## Kelly Price, Conference Program Chair

Forsyth County Schools

## **Conference Committee**

Sharon Boyer	Exhibits
Rie Cowan	Registration
Kelly Price, Rie Cowan	Signs
Sally Creel	Awards
Jamie Carson, Gina McMillan	Field Trips
Lisa Alexander	Volunteer Coordinator

## **GSTA Executive Board 2009-10**

President	Chris Kennedy
Vice President	Tammy Shiflett
President-elect	Dr. Kelly Price
Director	Ann Collins
Secretary	Zoe Evans
Executive Secretary/Treasurer	Karol Stephens
Elementary Representative	Tracey Rivers
Middle School Representative	Jan Rebel
High School Representative	Dr. Warren Barnard
College Representative	Dr. Verlitte Hinkle
Supervisors Representative	Dr. Jo-ne Bourassa
District I Director	Rie Cowan
District II Director	Donna Governor
District III Director	Rebecca Brown
District IV Director	Steven King
District V Director	Carol Turner
District VI Director	Lynn Larson
District VII Director	Brian Butler
District VIII Director	Kimberly Boucher
District IX Director	Nelson Patton
District X Director	Patricia DuBose
District XI Director	Jennifer Lukens
District XII Director	Jennifer Burley
Foundation Co-Chairs	Dr. George Stickel & Zoe Evans
Awards Chair	Sally Creel
Conference Exhibitor Chair	Dr. Sharon Boyer
Conference Registration Chair	Rie Cowan
GYSTC Representative	Angela Guilford
Nominations Chair	Dr. George Stickel
E-Observations, Editor	Zoe Evans
The Georgia Science Teacher, editors	Joseph Covert &
	Dr. Reagan Biwott

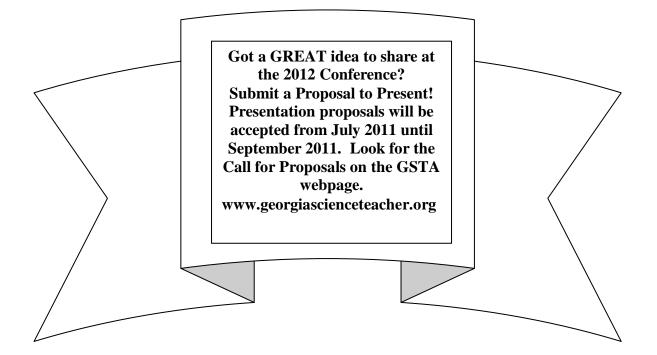
Look for members of the GSTA Board throughout the conference. They will be wearing orange conference shirts and available to listen and help.

**Special Acknowledgements:** 

We extend special thanks to Dixie Fanning for her creativity in the design of the 2011 GSTA Conference logo. Dixie is a scientist at heart having earned a Microbiology degree from Clemson University and working as a microbiologist for thirty years in South Carolina. She currently runs her own graphic arts business called Design from Dixie. <u>http://designfromdixie.com/</u>

Thank you for setting the stage for the 2011 GSTA conference with a very engaging logo.





# **GEORGIA BIO**<sup>TM</sup> The Life Sciences Partnership

# Georgia Bio is pleased to partner with the GSTA to present a special Biotechnology Strand for its 2011 conference.

About Georgia's life science industry

Georgia Bio is a private, nonprofit membership-based industry association, and is the champion for the life sciences industry in Georgia. Georgia has a robust, diverse life science industry, including companies improving healthcare, agriculture, bioenergy, industrial applications and environmental management.

Georgia's life sciences industry and university research have an annual economic impact of \$17.3 billion. The life sciences industry is comprised of more than 340 companies in the state with over \$8 billion in annual sales, and is responsible for 62,000 direct and industry jobs.

## How do we support K-12 life science education?

Georgia Bio launched an education and workforce development initiative in 2007 to accelerate the alignment of Georgia's current and future workforce with the needs of its life sciences industries. Our activities include:

- Championing the development and implementation of a new high school biotechnology curriculum taught as a science elective or as a career and technical education career pathway, depending on the schools' needs.
- Partnering with the state Department of Education to integrate biotechnology into Georgia's middle and high school science courses.
- Promoting interactions between working scientists and the educational community through an annual Workforce Forum, Visiting Scientist program, and mentoring/internship opportunities.
- Sponsoring a state competition as part of the International BioGENEius Challenge.

Visit <u>www.georgiabioed.org</u>

or contact <a href="mailto:cinda.king@gabio.org">cinda.king@gabio.org</a> for more information

## **Conference at a Glance GSTA Science and Leadership Conference**

## Wednesday, February 16, 2010

6:00-8:00

Registration

## Thursday, February 17, 2010

7:00 AM – 5:00 PM	Registration
8:00 AM – 5:00 PM	Exhibit Hall Open
8:00 AM – 5:00 PM	Field Trips
9:30 AM – 5:00 PM	Concurrent Sessions/Workshops
10:30 – 12:00PM	General Session, GSTA Annual Meeting
	Steve Rich, West GA GYSTC and NSTA Press Author
	Introduction of Candidates for GSTA Office
6:30 – 9:00 PM	Tastin' Atlanta with GSTA Board of Directors

## Friday, February 18, 2011

7:00 AM – 5:00 PM	Registration
8:00 AM – 6:00 PM	Field Trips
8:00 AM – 5:00 PM	Exhibit Hall Open
8:00 AM – 4:50 PM	Concurrent Sessions/Workshops
9:00 AM – 9:50 AM	Biotechnology Strand presents
	The Honorable Louis W. Sullivan, M.D.
12:00PM –12:50 PM	Biotechnology Strand presents
	Dr. Steven Stice
3:00 PM 3:50 PM	District Meeting and Greet in the Exhibit Hall
3:30 PM – 4:00 PM	Exhibit Hall Door Prize Drawings
6:00 PM 10:00 PM	Awards Banquet
	The Georgia Aquarium – Tickets Required

## Saturday, February 19, 2011

7:30 AM 9:30 AM	Registration
8:30 AM – 3:30 PM	Concurrent Sessions/Workshops

## **GSTA Presidents**

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

## Wednesday-Sunday FIELD TRIPS for February 16-20, 2011

Georgia Aquarium General Admission Ticket

Date: Wednesday-Sunday, February 16-20, 2011 Time: anytime from 10:00 am until 5:00 pm

Fee: \$15.00 per person

Transportation: on your own

For GSTA participants and their families, we have set up discounted general admission tickets for you to tour the world's largest Aquarium and let your imaginations play. The general admission tickets are good Wednesday Feb 16<sup>th</sup>, 2011 – Sunday Feb 20<sup>th</sup>, 2011 and the cost is \$15 per person. The daily hours of operation for the Aquarium are 10:00 am until 5:00 pm. Please click on this link <u>www.georgiaaquarium.org/gsta</u> to purchase tickets and book your tour. Tickets at this special rate must be purchased in advance; they cannot be purchased at the aquarium. Tickets are only valid February 16<sup>th</sup>- 20<sup>th</sup>, 2011.

## Georgia Aquarium Education Behind-the-Scene Tour

Date: Wednesday-Sunday, February 16-20, 2011

Time: 12:45 pm, 1:45 pm, 2:45 pm

Fee: \$15.00 per person, plus aquarium general admission above

Group Size:

Meet: 12:00 for 12:45, 1:00 for 1:45, or 2:00 for 2:45 at the field trip table

Transportation: on your own

For those who want to explore the Aquarium a little more, we are hosting Education Behind-the-Scenes Tours Wednesday Feb 16<sup>th</sup>, 2011 – Sunday Feb 20<sup>th</sup>, 2011 at 12:45 pm, 1:45 pm, and 2:45pm. The cost for this additional 50 minute program option is \$12 per person, minimum age to participate is 5 years old.

Please click on this link <u>www.georgiaaquarium.org/gsta</u> to purchase tickets and book your tour. Tickets at this special rate must be purchased in advance; they cannot be purchased at the aquarium. Tickets are only valid February 16<sup>th</sup>- 20<sup>th</sup>, 2011.

## THURSDAY TRIPS for February 17, 2011

### Center for Disease Control

Date: Thursday, February 17, 2011 Time: 10:00-11:30 am or 12:30-2:00 pm Fee: \$18 per person Group Size: 25-30 Meet: Field Trip Table at 9:00 AM for 10:00 AM or 11:30 AM for 12:30 PM Transportation: included

Ever wonder how CDC scientists merge old-fashioned detective work with high-tech science to crack the cases of mystery diseases? Get the Story! Visit the Global Health Odyssey Museum (GHO) at CDC Headquarters. This unique museum features award-winning permanent and changing exhibitions that focus on a variety of public health topics, as well as the history of CDC.

Civil Air Patrol TOP Flights Date: Thursday, February 17, 2011 Time: 8:00-noon or 12:00-4:00 pm Fee: \$17.50 per person payable at www.capmembers.com/joinaem Group Size: 20 Meet: Field Trip Table at 8:00 AM or 12:00 PM Transportation: included Civil Air Patrol (CAP) will transport you to and from Peachtree DeKalb Airport for a special teacher orientation airplane flight in one of their Cessna airplanes. While at the airport, you will receive hands-on activities and free resources. If not already a member of CAP, you will need to join by Monday, February 14, in order to be eligible to take the TOP Flight. The cost is a special ½ price rate for any attendee of the GSTA Conference- **only \$17.50!** With the membership, you will receive over 20 <u>free</u> educational resources to use in your classroom, as well as the opportunity for awards, grants, and other CAP flights in your local community. To join CAP, go to <u>www.capmembers.com/joinaem</u> and use Coupon Code GSTA10a for the morning flight session and GSTA10b for the afternoon flight session. For any GSTA Conference attendee who wants to join, but will not be flying, use Coupon Code GSTA10 for this special rate and benefits. For more information, contact <u>ae@capnhq.gov</u>.

#### **Bio-Bus Program "DNA is Elementary" Module**

Date: Thurs, 2/17 Time: 9AM – 11:30AM Fee: FREE Group Size: 9 Meet: At the main entrance to the Hyatt Regency Transportation: provided by Bio-Bus for FREE See biotech lesson in action with elementary students. This trip is for K-5 teachers interested in visiting a local elementary school to observe the Bio-Bus Program teaching the "DNA is Elementary" module. Preregistration is required. Go to this link to register: http://www.surveymonkey.com/s/biobus

#### **Bio-Bus Program "Biotechnology and Forensics" Module**

Date: Thurs, 2/17
Time: 9AM – 12PM
Fee: FREE
Group Size: 9
Meet: At the main entrance to the Hyatt Regency
Transportation: provided by Bio-Bus for FREE
See biotech lesson in action with high school students. This trip is for middle and high school teachers interested in visiting a local high school to observe the Bio-Bus Program teaching the "Biotechnology and Forensics" module.

Preregistration is required. Go to this link to register: <u>http://www.surveymonkey.com/s/biobus</u>

#### Yerkes National Primate Research Center, Emory University

Date: Thursday, February 17, 2011 Time: 10:30-2:00 pm Fee: \$17.00 per person Group Size: 20 Meet: Field Trip Table at 9:45 Transportation: included

Discover how scientists at Emory University's Yerkes National Primate Research Center are seeking ways to: develop vaccines for infectious and noninfectious diseases, including AIDS; treat drug addiction; interpret brain activity through imaging; increase understanding of progressive illnesses such as Alzheimer's and Parkinson's diseases; unlock the secrets of memory; determine how the interaction between genetics and society shape who we are; and advance knowledge about the evolutionary links between biology and behavior. The tour begins at the Yerkes Main Center on the Emory University campus where you will meet researchers, tour biomedical research laboratories, and see capuchin monkeys. Then travel to the Yerkes

Field Station in Lawrenceville, where scientists conduct behavioral studies of primate social groups, for an outdoor tour of three nonhuman primate species: chimpanzees, rhesus macaques and sooty mangabeys. Yerkes researchers will lead the tours and answer your questions throughout the day. We will stop on the way to the Field Station for lunch on your own. Portions of the tour will be outdoors; dress appropriately. In partnership with the Emory College Center for Science Education.

#### **Bio-Bus Program "DNA is Elementary" Module**

Date: Thurs, 2/17 Time: 11:30AM – 2PM Fee: FREE Group Size: 9 Meet: At the main entrance to the Hyatt Regency Transportation: provided by Bio-Bus for FREE See biotech lesson in action with elementary students. This trip is for K-5 teachers interested in visiting a local elementary school to observe the Bio-Bus Program teaching the "DNA is Elementary" module. Preregistration is required. Go to this link to register: http://www.surveymonkey.com/s/biobus

### **Bio-Bus Program "Biotechnology and Forensics" Module**

Date: Thurs, 2/17 Time: 1PM – 4PM Fee: FREE Group Size: 9

Meet: At the main entrance to the Hyatt Regency

Transportation: provided by Bio-Bus for FREE

See biotech lesson in action with high school students. This trip is for middle and high school teachers interested in visiting a local high school to observe the Bio-Bus Program teaching the "Biotechnology and Forensics" module.

Preregistration is required. Go to this link to register: <u>http://www.surveymonkey.com/s/biobus</u>

#### Fernbank Museum

Date: Thursday, February 17, 2011 Time: 1:00-4:00 pm Fee: \$24.00 per person Group Size: 15-30 Meet: Field Trip Table at 12:15 Transportation: included

Join Fernbank educators for an in-depth discussion of how to integrate the museum's exhibitions and films into your classroom curriculum. Also, learn more about the crossdisciplinary approach that will help you address science, social studies, language arts and math standards. Participants will tour permanent exhibitions, see an IMAX film, meet with educators, and get a sneak peak at what is on the horizon for Fernbank Museum of Natural History.

#### **Tellus Science Museum**

Date: Thursday, February 17, 2011 Time: 1:00-3:00 pm Fee: \$25.00 per person Group Size: 10-30 Meet: Field Trip Table at 12:00 Transportation: included Tellus is a world-class, 120,000 square foot science museum located just off I-75 in Cartersville , GA, 30 minutes north of Atlanta. The museum excites visitors with amazing exhibits while opening minds and igniting a passion for science. Tellus features four main galleries: Weinman Mineral Gallery, Fossil Gallery, Science in Motion and Collins Family My Big Backyard. You can take an incredible "trip" in the Tellus planetarium or become a paleontologist in the Fossil Dig. Who knows what semi-precious gemstones you might find in our gem panning area! And of course, all K-12 programs are based upon Georgia Performance Standards. Please check out our website at <u>www.tellusmuseum.org</u> for more details!

## Friday TRIPS for February 18, 2011

## Atlanta Botanical Garden

Date: Friday, February 18, 2011 Time: 10:00 – 11:30 am Fee: \$27.00 per person Group Size: 10-45 Meet: Field Trip Table at 9:15 Transportation: included

The Atlanta Botanical Garden was incorporated in 1976 to develop and maintain plant collections for the purpose for display, education, research, conservation, and enjoyment. The Garden features 15 acres of outdoor display gardens, the Upper Woodland showcasing five acres of shade-loving ornamentals from around the world, and the 10-acre Storza Woods with natural undergrowth and walking trails. Across the Flower Bridge is the two-acre Children's Garden, which has been designed as a "wellness" garden. The Dorothy Chapman Fuqua Conservatory house rare and endangered plants from tropical rain forests and desert regions. The Fuqua Orchid Center house a High Elevation House, a Tropical Display House, and A Center for Education and Conservation.

### **Center for Disease Control**

Date: Friday, February 18, 2011 Time: 10:00-11:30 am or 12:30-2:00 pm Fee: \$18 per person Group Size: 25-30 Meet: Field Trip Table at 9:00 AM for 10:00 AM or 11:30 AM for 12:30 PM Transportation: included

Ever wonder how CDC scientists merge old-fashioned detective work with high-tech science to crack the cases of mystery diseases? Get the Story! Visit the Global Health Odyssey Museum (GHO) at CDC Headquarters. This unique museum features award-winning permanent and changing exhibitions that focus on a variety of public health topics, as well as the history of CDC.

Zoo Atlanta - Behind-the-Scenes Tour: Animal Nutrition Kitchen & Zoo Tour
Date: Friday, February 18, 2011
Time: 1:30-3:00 pm Tour lasts 90 minutes and includes a one hour Zoo Tour and 30 minutes behind-the-scenes in the Zoo's kitchen
Fee: \$29.00 per person; price includes Zoo admission
Group Size: 10-45
Meet: Field Trip Table at 12:15
Transportation: included

Discover what Zoo animals eat! Learn how we prepare animal diets and see some of the unusual treats our animals enjoy that you might like too! A Zoo Tour is a good way to navigate the Zoo in a limited time period and behind-the-scenes opportunities provide teachers and students with a fun, exclusive educational experience. All of our school programs come with <u>grade-specific activities</u> to use at the Zoo and before and after your visit!

#### About Zoo Atlanta

Stand eye-to-eye with nearly 1,000 of the world's most amazing animals at one of Georgia's most beloved destinations. Zoo Atlanta is one of four zoos in the U.S. with giant pandas, has one of the nation's most recognized collections of great apes, and is a global center of excellence for the care and reproduction of vanishing amphibians and reptiles. Award-winning education programs offer exciting opportunities for hands-on learning, nature exploration and animal adventures.

Book a program at zooatlanta.org or call 404.624.WILD to learn more. 800 Cherokee Avenue SE, Atlanta, GA 30315

## Zoo Atlanta – The Overnight Experience...Group Nightcrawler

Date: Friday, February 18, 2011 – Saturday, February 19, 2011 Time: 6:00 pm (Friday) – 9:00 am (Saturday) Fee: \$70.00 per person Group Size: 10-25 Meet: Field Trip Table at 5:15 Transportation: included

As the sun sets and the animals settle in for the night, the fun is just beginning for NightCrawlers! Your group will never forget this unique overnight program packed with themed activities, behind-the-scenes experiences and up-close encounters with animals. Sleep in climate-controlled facilities, enjoy a continental breakfast and take a guided tour of Zoo Atlanta. Review the <u>GPS information</u> to find out if this program would be fitting for your students. About Zoo Atlanta

Stand eye-to-eye with nearly 1,000 of the world's most amazing animals at one of Georgia's most beloved destinations. Zoo Atlanta is one of four zoos in the U.S. with giant pandas, has one of the nation's most recognized collections of great apes, and is a global center of excellence for the care and reproduction of vanishing amphibians and reptiles. Award-winning education programs offer exciting opportunities for hands-on learning, nature exploration and animal adventures.

Book a program at zooatlanta.org or call 404.624.WILD to learn more. 800 Cherokee Avenue SE, Atlanta, GA 30315

## Saturday TRIPS for February 19, 2011

### Stone Mountain Park – Confederate Hall Historical & Environmental Education Center

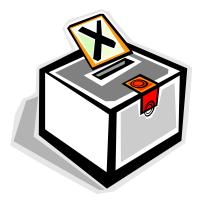
Date: Saturday, February 19, 2011 Time: 10:00 am -12:00 pm Fee: \$17 per person Group Size: 10-30 Meet: Field Trip Table at 9:15 Transportation: included

Explore the geology museum and learn about the GPS aligned, free education classes offered throughout the year. Participants take a guided geology hike onto the mountain after touring the Education Center.

# **GSTA Board Elections**

# **Attention GSTA Members**

- Meet the candidates at the conference, look for signs and come to the first general session to put a face with the name.
- Vote at the conference by the Registration area.





# Social Events

Thursday, February 17, 2011

<u>"Tastin' Atlanta"</u> <u>with the GSTA Board</u> Do you have dinner plans for Thursday evening? If not, join one of the GSTA Board dinner groups. Sign up near the Registration Area 6:30 – 9:00pm

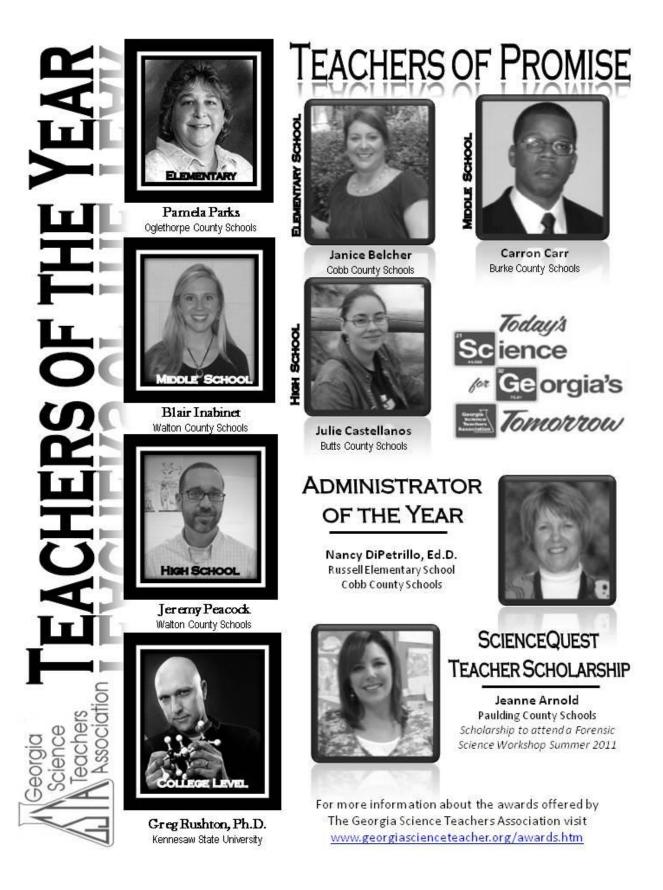
## Friday, February 18, 2011

<u>2011 GSTA Awards Banquet</u> Join us as we honor the best and brightest science instructors in the state of Georgia.

> The Georgia Aquarium Ocean Ballroom Dinner by Wolfgang Puck Catering 6:00pm-10:00pm

## <u>Tickets Required</u>

(Tickets may be purchased online prior to the conference or at the registration desk on-site. Awards ticket provides admission to the aquarium on Friday from 3 pm -6pm)





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

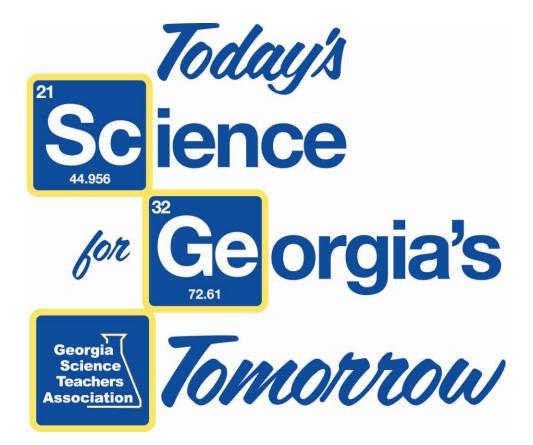
The Presidential Award for Excellence in Science Teaching is the Nation's highest honor for teachers of science and mathematics. It is awarded annually by the White House and administered by the National Science Foundation. One Georgian is honored annually in Washington, DC during a week-long celebration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

1983

Richard R. Bell, Lithia Springs (7-12)

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

# **Georgia Science Teachers Association 2011 Science & Leadership Conference**



# **Concurrent Session Schedule**

**Schedule of Sessions & Workshops** 

# GSSA Strand Georgia Science Supervisors Association



# <u>Thursday, Feb 17 2011</u> <u>Hong Kong</u>

1:30pm GSSA Finding the Chemistry in 8th Grade Physical Science

> 2:30pm GSSA Catch the Wave!

3:30pm GSSA Teaching GPS electricity and magnetism in 8th grade physical science

> 4:30pm GSSA Extreme Forces

# Save the Dates! 2011-2012 School Year

2012 GSTA Annual Conference Feb 16-18, 2012 Hyatt Regency Atlanta, GA

## 2012-2013 School Year

GSTA partners with NSTA to host the Southern NSTA Regional Conference! Nov 1-3, 2012 Atlanta, GA

# **GEARS** Strand



<u>Thursday, Feb 17 2011</u> <u>International Ballroom</u> <u>International Tower</u>

Digitarium; More than a Planetarium

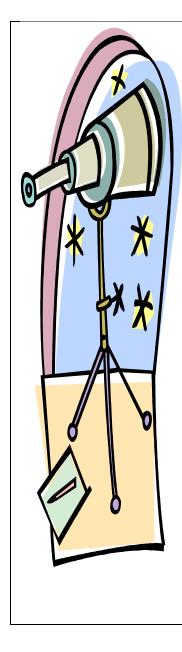
Multiple Presentations: (Portable Planetarium or Star Lab)

1:30pm

2:30pm

3:30pm

4:30pm



Thursday, February 17, 2011		
Exhibit Hall Opens at 8:30AM		
Please visit the GSTA Exhibits in the Grand		
Hall on the Exhibi	it Level of the Hyatt.	
	day 2/17 30AM	
Title: Evaluating the Routes of Vaccine Immunia Presenters: Samantha Andrews, Nicholas Parnell	zation	
Title: AUTOPSY: Forensic Dissection Featuring Presenters: Carolina Teaching Partner Description: Engage students and revitalize your i "real" classroom autopsy! Participants dissect a Ca autopsy protocols. Level/Content: High Day: THURS 2/17 Time: 9:30-10:20AM	instruction of mammalian structure and function with a	
	hat will engage the students and give them a better usehold products and items that can be purchased at Chemistry <b>Room:</b> Spring	
Title: Clouds and Other Wonderful Things         Presenters: Marlee Tierce         Description: Look into the sky and think about the wonders of the clouds. Let's explore the man who named the clouds and how we think about them now.         Level/Content: Elementary       Earth/Space Science         Day: THURS 2/17       Room: Piedmont         Time: 9:30-10:20AM		
Title: Differentiation That Works Presenters: Ashley Cody, Rhonne McBride, Wand Description: "Differentiation that Works" A present learning. The strategies are practical for all science boards, and pre-assessments are included. Level/Content: Middle Day: THURS 2/17 Time: 9:30-10:20AM	tation of instructional strategies to increase student	

	un lasuning. Otratagias for togehing asignes to large
	Im learning. Strategies for teaching science to large
classes.	
Presenters: Tiffany Barnett, Rachael Parr	te levre cleases. Derticipente will lesve with even place of
	to large classes. Participants will leave with examples of
stations, centers, and labs for a standards bas	
Level/Content: Middle	General Science
Day: THURS 2/17	Room: Lenox
Time: 9:30-10:20AM	
Title: Formation of the Solar System from a	a middle schooler's perspective
Presenters: Stephen Ramsden	
	en@solarastronomy.org) will provide a one hour lecture as if
	order to give you the experience of his solar astronomy
outreach program (www.charliebates.org) fro	
Level/Content: Middle	Earth/Space Science
Day: THURS 2/17	Room: Williams
<b>Time</b> : 9:30-10:20AM	
Title: Introducing Inquiry Investigations™	
Presenters: Amy Smith	
<b>Description:</b> Explore the new hands-on, activ	ve learning
Level/Content: K-8	General Science
Day: THURS 2/17	Room: Montreal
Time: 9:30-10:20AM	
1111e. 9.30-10.20AM	
Title: Science Notebooks in the Elementar	y Class
Presenters: Rosalita Kennedy, Stacey Graci	
	our students to learn Science? Come and see how your
elementary students can blossom as learners	
Level/Content: Elementary	General Science
Day: THURS 2/17	Room: Vinings
Time: 9:30-10:20AM	
Title: The Best 3rd Grade Show and Share	
Presenters: Tom Brown, 3rd Grade Teacher	
	ers share their best science lessons. These super science
	al Georgia 3rd graders :) Helpful tips and copies of
lessons provided.	
Level/Content: Elementary	Interdisciplinary
Day: THURS 2/17	Room: Cairo
Time: 9:30-10:20AM	
Title: CMeDTED Colones Curricula for the	
<b>Title: SMaRTER Science Curricula for the</b> <b>Presenters:</b> Verilette Hinkle, Brian Gerber, Ju	
	grant proposal, the SMaRTER Project, and participate in
	d, inquiry-based, integrated science lessons for the
	u, inquiry-based, integrated science ressons for the
elementary grades.	Interdicciplinen:
Level/Content: Elementary	
Day: THURS 2/17	Room: Hong Kong
Time: 9:30-10:20AM	

Title: Simple Methods for Improving M	otivation 3.0
Presenters: Donald White	
Description: Discover some simple, low-	cost/no-cost methods for improving student engagement,
	e classroom. Guaranteed to get immediate results! Session
will demonstrate resources available FRE	E to all Georgia teachers.
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Manila
Time: 9:30-10:20AM	
Title: Engage and Inspire Diverse Clas	srooms with Hands-on Learning
Presenters: Johnny Robinson	-
Description: Qwizdom's Interactive Learn	ning System combines advanced student response technology
	curriculum and content sharing software to provide a complete
instructional solution for any classroom.	5 1 1
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Singapore
<b>Time</b> : 9:30-10:20AM	
Title: Investigating the water cycle with	technology: Elementary Teachers
Presenters: Dori Haggerty	
Description: Teachers will investigate the	e effects of temperature on the gaseous state of the water cycle
by using digital probe ware and SPARK so	cience technology.
Level/Content: Elementary	Interdisciplinary
Day: THURS 2/17	Room: Techwood
Time: 9:30-10:20AM	
Title: Ocean Literacy: What is it and w	hy should we care? Teacher's Thoughts and Professional
Development Opportunities	
Presenters: Catherine Linsky	
<b>Description:</b> 75% of Earth's surface is co	vered in oceans, but the majority of Environmental Education
	will help you counteract this imbalance and foster Ocean
Literacy.	
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Vancouver
Time: 9:30-10:20AM	



# GSTA General Session and Annual Meeting Thursday 2/17 10:30 AM International Ballroom-International Tower

## "Reflections on the State of Science Education in Georgia" Speaker: Steve Rich



Savannah native Steve Rich taught elementary and middle grades science in Georgia for 15 years, earning National Board Certification, two NSTA teaching awards, and the Presidential Award for Excellence in Science Teaching. After leaving the classroom, Steve served as Georgia's Science Specialist for grades K-5 and later K-8 at the Department of Education in Atlanta. He is currently coordinator of the West Georgia Youth Science and Technology Center. He holds degrees from Georgia State University and the University of Georgia.

He is the author of three books for teachers including the 2010 NSTA Press bestseller, Outdoor Science: A Practical Guide. He was GSTA president in 2005-2006, and editor of the Georgia Science Teacher Journal for 8 years. He was a district director of NSTA, and served on the 2010 NSTA Review Panel for the Draft Framework to guide the new National Science Education Standards. He is currently president of the Society of Elementary Presidential Awardees, and a member of the selection committee for the Children's Book Council national list of Outstanding Science Trade Books.



Thursday 2/17	
	12:30 pm
Presenters: Nicholas Parnell, Samanth	g: discovering the genomic regions controlling traits a Andrews, Gustavia Evans genetic mapping activity using the association of genotype and
	environmentally responsible. Ways to teach about recycling, ented. You will see how to compost biodegradable garbage from Biology (Life Science) <b>Room:</b> Piedmont
	o use one of the multiple intelligences to engage students in in motion! Earth science curriculum will be the focus, but other Earth/Space Science <b>Room:</b> Manila
	lucator Fellow will present hands-on, inquiry-based education NASA's current mission to Mercury. The focus will be
achievement by utilizing the concepts of Level/Content: Middle Day: THURS 2/17 Time: 12:30-1:20PM	ndenhouten iddle school teacher's perspective on how to increase student a standard based classroom (SBC). General Science <b>Room:</b> Inman

Title: Fabulous 5th Grade Science	Activities from the Paulding County Math-Science Partnership	
<b>Presenters</b> : Tom Brown, 5th Grade	Teachers from Paulding County	
	brite 5th grade science activities that are proven to engage your	
	science teaching. Handouts and helpful tips will be provided.	
Level/Content: Elementary	Interdisciplinary	
Day: THURS 2/17	Room: Cairo	
Time: 12:30-1:20PM		
Title: Vocabulary Strategies in the	Science Classroom	
Presenters: Betsy Sanford, Dianne		
<b>Description:</b> Vocabulary strategies to	o help your students succeed in the middle school science	
classroom.		
Level/Content: Middle	Interdisciplinary	
Day: THURS 2/17	Room: Hong Kong	
-	Room. Hong Kong	
Time: 12:30-1:20PM		
	e to Teach Lenses and Nature of Science	
Presenters: Zodiac Webster, GEAF	RS Team	
	Galileoscope and Galileo's story in class. Activities will span	
	umbers of tripods raffled for those who bring their Galileoscopes.	
Level/Content: 6-12	Physical Science	
Day: THURS 2/17	Room: Singapore	
Time: 12:30-1:20PM		
Title: Deeding and Writing Strategi	en for Colonna	
Title: Reading and Writing Strategi	es for Science	
Presenters: Larry Zimmerman		
<b>Description:</b> Learn quick and easy s	trategies for building reading and writing skills in your science	
classroom. Participate in activities that will bolster your students' content knowledge, comprehension and		
	will receive a CD handout with templates, lessons, and activities	
from the presentation.		
	Osneral	
Level/Content: K-12	General	
Day: THURS 2/17	Room: Williams	
Time: 12:30-1:20PM		
Title: Utilizing Plant Pathology and	Entomology in the Science Classroom	
	Littomology in the Science Classicolin	
Presenters: Kisha Shelton		
Description: Presentation and hands	s on activites related to the use of plant diseases and insects to	
impact student's learning in science.		
Level/Content: K-8	Biology (Life Science)	
Day: THURS 2/17	Room: Edgewood	
	Koom. Lugewood	
Time: 12:30-2:20PM		
Title: Geology of Georgia: Hands-c	on Learning Stations Workshop	
<b>Presenters</b> : Olga Jarrett, Robert Jar		
	hands-on learning stations on the geology of Georgia with cross-	
	ill receive a handout on 15 learning stations and samples of a few	
Georgia rocks.		
Level/Content: Elementary	Earth/Space Science	
Day: THURS 2/17	Room: Vinings	
<b>Time</b> : 12:30-2:20PM		

Title: Language of Science	
Presenters: Barbara Rascoe	
	lyze science terms relative to how each science term
is defined scientifically and how each science term n	
Level/Content: Middle	Interdisciplinary
Day: THURS 2/17	Room: Lenox
Time: 12:30-2:20PM	
Title: Making Friends with Unfriendly Science Te	extbooks
Presenters: Lisa Alexander, Ginger Harbin	
	er view of science literacy and how to manage science
textbooks in that context.	
Level/Content: K-8	Interdisciplinary
Day: THURS 2/17	Room: Spring
Time: 12:30-2:20PM	
Title, Using Ossens group is Data to be available	Overstitetive Thinking of Verse Opienes Oferdants
	Quantitative Thinking of Your Science Students
Presenters: Martha Muir, Theresa Pinilla, Courtney	
<b>Description:</b> This session gives participants the opp	
	epts and explore websites that can be used to expand
these lessons.	Interdiccipliner (
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17 Time: 12:30-2:20PM	Room: Techwood
1111e. 12.30-2.20FW	
Thurse	Nov 2/17
	lay 2/17
	0 pm
Title: Ecology of a freshwater swamp: Using the	
Presenters: Missy Bennett, Ashley Crosby, Bradley	
<b>Description:</b> Do your students suffer from "nature de	
teachers can use a local resource such as the Okefe	
Level/Content: High	Biology (Life Science)
Day: THURS 2/17	Room: Inman
Time: 1:30-2:20PM	
Title: Amplify Your Genetics Class with the Inqu	iries in Science® Series
Presenters: Carolina Teaching Partner	
Description: Increase student achievement by using	
Science® Biology units provide hands-on activities to	o make teaching challenging topics effortless. Free
door prizes!	
Level/Content: High	Biology (Life Science)
Day: THURS 2/17	Room: Kennesaw
Time: 1:30-2:20PM	Room. Rennesaw
	Room. Rennesaw
Title: NASA Powers of Ten: Scaling the Universe	
Presenters: Tyson Harty, Ph.D.	
<b>Presenters</b> : Tyson Harty, Ph.D. <b>Description:</b> How big is big? How small is small? St	tudents often have difficulty comprehending orders of
<b>Presenters</b> : Tyson Harty, Ph.D. <b>Description:</b> How big is big? How small is small? St magnitude. "Scale the Universe" as we investigate th	tudents often have difficulty comprehending orders of ne powers of ten with free NASA materials.
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Presenters: Amanda Buice, Juan Carlos Aguilar, Steve Rich Description: You can with the Nation's highest honor for science teaching, including a trip for two to Washington and \$10,000. Get hints for successful applications & O/A's with past awardees. Level/Content: 6-12     General Science Day: THURS 2/17     Room: Vancouver Title: Team Marine: A model for engagement in service learning through science outreach Presenters: Catherine Teare Ketter, Kenneth Leach Description: Team Marine! is a service educational learning course offered to undergraduate students at the University of Georgia during spring semesters through the School of Marine Programs. The course goal is to provide non-education majors opportunity to share their science knowledge with area public school students. Level/Content: 6-12     Interdisciplinary Day: THURS 2/17     Room: Cairo Title: Cutdoor Science Presenters: Steve Rich, Petra Griffin Description: No teacher gets left inside with these lesson ideas featuring birds and butterflies. Get practical ideas for teaching and learning in the school yard and free seeds. Level/Content: K-8     Interdisciplinary Day: THURS 2/17     Room: Montreal Title: CSSA - Finding the Chemistry in 8th Grade Physical Science Presenters: Karol Stephens Description: Make the chemistry happen with 8th grade students as they start to process the abstract concepts in chemistry with these simple, hands-on activities to illustrate 8th grade standards. Level/Content: K-8     Description: The Digitarium; More than a Planetarium Fresenters: Max McKelvey Description: The Digitarium portable planetarium is suitable for teaching diverse topics to all grade levels. Capabilities for use in teaching science, with social students, and music will be explored Level/Content: K-8     Market Kelvey Description: The Digitarium portable planetarium is suitable for teaching diverse topics to all grade levels. Capabilities for use in teaching science, with social studies, and music will be explored Level/Content: K-12     General     Roo	Title: Applying for the Presidential Award	
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Level/Content: 6-12       Interdisciplinary         Day: THURS 2/17       Room: Cairo         Title: Outdoor Science       Presenters: Steve Rich, Petra Griffin         Description: No teacher gets left inside with these lesson ideas featuring birds and butterflies. Get practical ideas for teaching and learning in the school yard and free seeds.         Level/Content: K-8       Interdisciplinary         Day: THURS 2/17       Room: Montreal         Title: GSSA - Finding the Chemistry in 8th Grade Physical Science       Presenters: Karol Stephens         Description: Make the chemistry happen with 8th grade students as they start to process the abstract concepts in chemistry with these simple, hands-on activities to illustrate 8th grade standards.         Level/Content: 6-12       Physical Science         Day: THURS 2/17       Room: Hong Kong         Time: 1:30-2:20PM       Title: GEARS Digitarium; More than a Planetarium         Presenters: Max McKelvey       Description: The Digitarium portable planetarium is suitable for teaching diverse topics to all grade levels. Capabilities for use in teaching science, math, social studies, art and music will be explored Interdisciplinary         Day: THURS 2/17       Room: International Ballroom South-Int Tower         Time: 1:30-2:20PM       Title: Strategies for Building Academic Vocabulary in Science         Presenters: Larry Zimmerman       Description: In the content areas, and specifically science, vocabulary becomes an impediment to learning and understanding. At		are their science knowledge with area public
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Day: THURS 2/17Room: Williams		poral

#### Title: NASA's Lunar Certification Program

 Presenters: Dr. Lester Morales

 Description: Bring a piece of History into your classroom as NASA's lunar samples can open the door of our universe. Study how our Moon gives us clues into the origins of the Earth.

 Level/Content: 6-12
 Earth/Space Science

 Day: THURS 2/17
 Room: Manila

 Time: 1:30-3:20PM

#### Title: Home and School Science Activities

Presenters: Bernie Horvath

**Description:** Grades 4-9. Promote literacy in physical science using a backdrop of everyday events and common materials in understandable language. Includes air pressure, gravity, friction, inertia, centripetal force, atoms, molecules and Periodic Table.

Level/Content: Middle Day: THURS 2/17 Time: 1:30-3:20PM Physical Science **Room:** Singapore

## Thursday 2/17 2:30 pm

Title: Red Algae is Growing in my Classroom! Use Red Algae to teach Scientific Research Skillsand Biotechnology to your studentsPresenters: Alan GorlinDescription: Red Algae is Growing in my Classroom! Use Red Algae to motivate your students to learnScientific Research Skills and BiotechnologyLevel/Content: HighDay: THURS 2/17Time: 2:30-3:20PM

## Title: Chemistry Inquiry Learning

Presenters: Tommy Molden

**Description:** Chemistry Inquiry Learning is a GPS driven professional development that will primarily focus on the development of inquiry learning opportunities involving: instructional strategies, laboratory activities, investigational activities, literacy integration and recommended assessments. Level/Content: High Chemistry

Day: THURS 2/17 Time: 2:30-3:20PM Chemistry Room: Kennesaw

#### Title: Real Chemistry for All Students, but How?

**Presenters**: Amy Kezman, Kevin McReynolds **Description**: What are the barriers to teaching real, quantitative chemistry to all students? Keven McReynolds, will lead a hands-on exploration that will touch the areas of greatest student difficulty and show you many intuitive and practical solutions that will help your students engage with chemistry and

learn. Level/Content: High Day: THURS 2/17

**Day:** THURS 2/17 **Time**: 2:30-3:20PM Chemistry Room: Techwood

Title: Rock Labs That Work	
Presenters: Michael Eby	
Description: Presentation of several operational labs	s involving igneous, metamorphic, and sedimentary
rock. Fun and interactive labs will be discussed and s	hared. Teachers will participate in lab involving
creation of metamorphic rock. Participants will receive	e take home "idea" handouts and will have the
opportunity to win teaching supplies.	
Level/Content: Middle	Earth/Space Science
Day: THURS 2/17	Room: Piedmont
Time: 2:30-3:20PM	
Title: Using Gizmos in the Science 6-8 Science	
Presenters: Barbara Quarles	
<b>Description:</b> Gizmos offers the world's largest library	of interactive online simulations for math and
science education in grades 3-12. Gizmos are fun, ea	
understanding of challenging concepts through inquir	
Level/Content: Middle	Earth/Space Science
Day: THURS 2/17	Room: Vinings
Time: 2:30-3:20PM	<b>Room.</b> Winnigs
1111 <b>e</b> . 2.30-3.20FW	
Title: Electives with Ease	
Presenters: Lauren Horton, Tasha Young	
Description: Do you need help with your science ele	
interactive lessons for Anatomy and Physiology, Envi	
Oceanography. Packets will be given to the first 25 p	•
Level/Content: High	General Science
Day: THURS 2/17	Room: Edgewood
Time: 2:30-3:20PM	
Title: Formation of the Solar System from a middl	e schooler's perspective
Title: Formation of the Solar System from a middl Presenters: Stephen Ramsden	e schooler's perspective
Presenters: Stephen Ramsden	arastronomy.org) will provide a one hour lecture as if
Presenters: Stephen Ramsden Description: Stephen W. Ramsden (sramsden@sola you were a group of middle school students in order t	arastronomy.org) will provide a one hour lecture as if o give you the experience of his solar astronomy
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<b>Presenters:</b> Stephen Ramsden <b>Description:</b> Stephen W. Ramsden (sramsden@sola you were a group of middle school students in order to outreach program (www.charliebates.org) from their	arastronomy.org) will provide a one hour lecture as if o give you the experience of his solar astronomy perspective.
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Presenters: Stephen Ramsden Description: Stephen W. Ramsden (sramsden@sola you were a group of middle school students in order to outreach program (www.charliebates.org) from their Level/Content: Middle Day: THURS 2/17 Time: 2:30-3:20PM Title: Using Digital Media to Produce Creative Sta	arastronomy.org) will provide a one hour lecture as if o give you the experience of his solar astronomy perspective. Earth/Space Science <b>Room:</b> Spring
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<ul> <li>Presenters: Stephen Ramsden</li> <li>Description: Stephen W. Ramsden (sramsden@sola you were a group of middle school students in order to outreach program (www.charliebates.org) from their Level/Content: Middle</li> <li>Day: THURS 2/17</li> <li>Time: 2:30-3:20PM</li> <li>Title: Using Digital Media to Produce Creative Stephesenters: Kelly Stewart</li> <li>Description: I will discuss how my students created a compositions to demonstrate their understanding of the Physical Science.</li> <li>Level/Content: K-8</li> <li>Day: THURS 2/17</li> <li>Time: 2:30-3:20PM</li> <li>Title: Team Marine: A model for engagement in s Presenters: Catherine Teare Ketter, Kenneth Leach</li> <li>Description: Program will discuss a successful servit teaching of science through service learning.</li> </ul>	arastronomy.org) will provide a one hour lecture as if o give you the experience of his solar astronomy perspective. Earth/Space Science Room: Spring udent Summative Assessments in Science completely original documentaries and musical he standards for the units we study in Life and General Science Room: Vancouver ervice learning through science outreach. ce learning model to engage students in the
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Title: Invasive Species & EDDMapS: Hands O	n Science with Real World Applications
Presenters: Karan Rawlins	
	uses computer science, biology, ecology and land
	how you can help fight them in a hands on learning
experience.	
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Montreal
Time: 2:30-3:20PM	
Title: GSSA Catch the Wave!	
Presenters: Terri George, Kimberly Emanuel, Lis	sa Alexander
	es and strategies to help physical science students with
standards to address wave mechanics.	
Level/Content: 6-12	Physical Science
Day: THURS 2/17	Room: Hong Kong
Time: 2:30-3:20PM	
Title: Big Ideas about Tiny Things-Lessons for	Grades K-5
Presenters: Joyce Palmer, Nancy Healy, Katie H	
	gh hands-on activities how teaching about small scale
objects can fit into your science curriculum. The I	
Standards.	
Level/Content: Elementary	General Science
Day: THURS 2/17	Room: Williams
Time: 2:30-3:20PM	
Title: GEARS Digitarium; More than a Planetar Presenters: Max McKelvey	ium
	is suitable for teaching diverse topics to all grade
levels. Capabilities for use in teaching science, m	
Level/Content: K-8	Interdisciplinary
Day: THURS 2/17	Room: International Ballroom South-Int Tower
Time: 2:30-3:20PM	
Title: The Science Teachers Toolkit: Everythin	g you need from notebooks, to labs, to hands-on
activities.	
Presenters: Malissa Summers, Deanna Boyd, N	
	er's one stop shop to Interactive Notebook, Problem-
Based Learning (PBL), best teaching strategies, c much more	uick formative assessments, hands-on activities and
Level/Content: Middle	Physical Science
Day: THURS 2/17	Room: Lenox
Time: 2:30-4:20PM	
Thur	sday 2/17
	30 pm
Title: Improving Content Accessibility for Engl	ish Language Learners
Presenters: Ginger Harbin, Lisa Alexander	
	ing and what you can do to help ELLs improve their
understanding of science and performance on as	
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Williams
Time: 3:30-4:20PM	

Title: An Astrobiology Inquiry-Based	
Presenters: Janetta Greenwood, Krista	Staskevicius, Jamila Cola
	trobiology inquiry based activity that explores the characteristics
of life on Earth and the universe.	arobiology inquiry bacca activity that explored the characteriotics
Level/Content: High	Biology (Life Science)
Day: THURS 2/17	Room: Inman
Time: 3:30-4:20PM	
Title: Inquiry Learning in the High Scl	hool Classroom
Presenters: Rhoda Rush	
Description: Process Oriented Guided I	nquiry Learning is a great method to reach and teach students
science concepts. Experience several PC	OGIL activities for the High School level.
Level/Content: High	Chemistry
Day: THURS 2/17	Room: Kennesaw
Time: 3:30-4:20PM	Room. Rennesaw
Time. 3.30-4.20PW	
Title: The Solar System and Beyond v	with NASA's Education Resources
Presenters: Les Gold	
	stem and beyond using NASA's Education Resources
Level/Content: Middle	Earth/Space Science
Day: THURS 2/17	Room: Edgewood
Time: 3:30-4:20PM	
Title: Making the most out of your Atl	anta fieldtrip
Presenters: Cindy Sheehy, Stacy Grais	
	ning help students build for transfer. Learn to integrate Georgia
	ence, and discover resources available to educators at Atlanta's
informal education sites.	
Level/Content: K-8	General Science
Day: THURS 2/17	Room: Vancouver
Time: 3:30-4:20PM	
Title: The Cult Oil Cuill Dead Zenes	and Undrothermal Vente, Deal bet tenis esigned real
	and Hydrothermal Vents: Real hot topic science, real
research data and real inquiry	
Presenters: Vicki Soutar, Ken Leach, C	atherine Teare Ketter
Description: Ocean to classroom: Use t	oday's headlines and research data to create scientific inquiry
lessons for your students.	
	Interdioginlinen/
Level/Content: High	Interdisciplinary
Day: THURS 2/17	Room: Singapore
Time: 3:30-4:20PM	
Title: Myths of Science and Science M	lisconceptions
Presenters: Barbara Rascoe	
	Il holp agionag tagghara ayaming and/ar ra ayaming mutha af
	Il help science teachers examine and/or re-examine myths of
science and science misconceptions.	
Level/Content: 6-12	Interdisciplinary
Day: THURS 2/17	Room: Spring
Time: 3:30-4:20PM	, ,

Title: Getting Down & Dirty Presenters: Tammy Shiflett, Pam Googe Melanie Peterson, Pepper Misinco Description: Dig through four dirt filled discovery destinations driven by elementary performance standards. Be dazzled by dirt & decomposition to develop your dirty mind. First 50 participants receive CD w/handouts & activities. Level/Content: Elementary Interdisciplinary Day: THURS 2/17 Room: Vinings Time: 3:30-4:20PM Title: GSSA Teaching GPS electricity and magnetism in 8th grade physical science Presenters: George Stickel Description: How to teach and assess electricity and magnetism will be shown through hands-on activities. Additionally, what should be taught, and what can and should be omitted will be discussed. Level/Content: 6-12 **Physical Science** Day: THURS 2/17 **Room:** Hong Kong Time: 3:30-4:20PM Title: GEARS Digitarium; More than a Planetarium Presenters: Max McKelvey Description: The Digitarium portable planetarium is suitable for teaching diverse topics to all grade levels. Capabilities for use in teaching science, math, social studies, art and music will be explored Level/Content: K-8 Interdisciplinary Room: International Ballroom South-Int Tower Day: THURS 2/17 Time: 3:30-4:20PM Title: Project-Based Inquiry Launcher Units: Sustaining the Start of the Year All Year Long Presenters: Mike Ryan, Marion Usselman Description: We present "Launcher Units": project-based inquiry learning units, where students develop science process skills, perspectives, and practices. We will demonstrate some hands-on activities and distill the critical features of a Launcher Unit. Level/Content: 6-12 **General Science** Dav: THURS 2/17 **Room:** Piedmont Time: 3:30-5:20PM Title: Team Marine: The Best of the Best -- classroom tested hands-on lab activities for science grades 6-12 **Presenters:** Catherine Teare Ketter, Kenneth Leach Description: The Ocean in Action: Classroom-tested interdisciplinary hands-on science activities for grades 6-12. Level/Content: 6-12 Interdisciplinary Day: THURS 2/17 Room: Cairo Time: 3:30-5:20PM Title: A S.T.E.P. in the right direction for Sea Turtle Conservation Presenters: Alicia Marin, Teddy Ivey Description: The Sea Turtle Education Project (STEP) is 3-part series has been specifically designed for 2nd-4th grade students and teachers. This unique program combines outreach and field trip programs for you and your class to become sea turtle experts! Level/Content: Elementary Interdisciplinary Day: THURS 2/17 Room: Montreal Time: 3:30-5:20PM

#### Title: A Class Called SECME: A Daily Lesson in Project-based Learning

**Presenters**: Lynda Byrne, Mark Eyerman,

**Description:** Rigorous and Relevant? Motivating? Differentiated Instruction? Join us for this practical guide to creating a "culture of change" using GPS infused project-based learning curriculum that includes realistic classroom management...and fun!

Level/Content: 6-12 Day: THURS 2/17 Time: 3:30-5:20PM Interdisciplinary Room: Techwood

## Title: Experimental Data Collection using LEGO Mindstorm NXT

 Presenters:
 Jeffrey Rosen, Fred Stillwell, Roger Collier

 Description:
 Engage students in science experimentation, data collection and data analysis using the LEGO Mindstorm NXT. Participants will learn how to use the NXT brick and sensors as a data-logging system.

 Level/Content:
 6-12

 Physical Science

**Day:** THURS 2/17 **Time:** 3:30-5:20PM Physical Science **Room:** Manila

## Thursday 2/17 4:30 pm

Title: Stimulating Excitement for Science: Using Inquiry to Foster a Love for SciencePresenters: Alfred PorterDescription: Stimulating Excitement for Science: Using Inquiry to Foster a Love for ScienceLevel/Content: HighDay: THURS 2/17Time: 4:30-5:20PM

#### Title: Hands On: Real World Lessons for Middle School Classrooms

 Presenters:
 Jennifer Richards, Erica Picard

 Description:
 This session presents a FREE, ready-to-use interdisciplinary curriculum integrating experiential learning in core subject areas with food science through the study of microbiology. Lab supplies for implementation are also FREE.

 Level/Content:
 Middle

 Biology (Life Science)

Day: THURS 2/17 Time: 4:30-5:20PM

Time: 4:30-5:20PM

Biology (Life Science) **Room:** Singapore

#### Title: Observations Through the Seasons

 Presenters: Anne Seemann, Ruth Martin

 Description: Integrate science, technology, and writing as you and your students observe the changes and life cycles in nature throughout a school year using photography, journals, and an interactive bulletin board.

 Level/Content: Elementary
 Biology (Life Science)

 Day: THURS 2/17
 Room: Spring

 Title: Explore Acid/Base Science through inquiry: Middle School Teachers

 Presenters: Dori Haggerty
 Description: Teachers will engage in real-time data collection using digital probe ware and SPARK

 science software to explore acid/base science. Inquiry-based methods, predictions, data collection, graph analysis and evaluation are part of this investigation.

 Level/Content: Middle
 Interdisciplinary

 Day: THURS 2/17
 Room: Edgewood

Title: Science Fair and Georgia Perfo	ormance Standards:
Flip Sides of the Same Coin	
Presenters: Donna Governor	
<b>Description:</b> Find out how you can use	e science fair to teach Nature of Science GPS standards.
Level/Content: Middle	Interdisciplinary
Day: THURS 2/17	Room: Lenox
<b>Time</b> : 4:30-5:20PM	
Time: 4.30-3.201 W	
Title: Creating a Community Cohort	of Learners by Using a Wiki
Presenters: Kathy Shields	
<b>Description:</b> Participants will learn how	v a wiki can help galvanize a diverse community of learners by
	viki allows for rewarding reflection on the process of building
content knowledge in the area of science	
Level/Content: Elementary	Interdisciplinary
	Room: Vancouver
Day: THURS 2/17	Room: vancouver
<b>Time</b> : 4:30-5:20PM	
Title: Inquiry Teaching and Learning	a: The Periodic Table
<b>Presenters</b> : Amy Kezman, Peggy Bail	
	series is taken from the Master unit from the SEPUP Issues and
	th support from the National Science Foundation and used in
	way handouts and materials to use in class next week!
Level/Content: Middle	Physical Science
Day: THURS 2/17	Room: Kennesaw
Time: 4:30-5:20PM	
Title: GSSA-Extreme Forces	
Presenters: Katrina Ford, Sally Creel	
	ience behind forces and motion through a variety of simple hands-
on labs sure to engage your students.	
Level/Content: 6-12	Physical Science
Day: THURS 2/17	Room: Hong Kong
Time: 4:30-5:20PM	
Title: Differentiation Strategies for	Salanaa 101. Maating the Needo of ALL Learners
Presenters: Larry Zimmerman	Science 101: Meeting the Needs of ALL Learners
	of differentiation while experiencing how to differentiate your
	arning needs, styles, and levels of your students. Attendees will
receive a CD handout with templates. In	essons, and activities from the presentation.
	- ·
Level/Content: K-12	General
Level/Content: K-12 Day: THURS 2/17	General <b>Room:</b> Williams
Level/Content: K-12	
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM	Room: Williams
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM Title: GEARS Digitarium; More than a	Room: Williams
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM Title: GEARS Digitarium; More than a Presenters: Max McKelvey	Room: Williams a Planetarium
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM Title: GEARS Digitarium; More than a Presenters: Max McKelvey Description: The Digitarium portable p	Room: Williams a Planetarium lanetarium is suitable for teaching diverse topics to all grade
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM Title: GEARS Digitarium; More than a Presenters: Max McKelvey Description: The Digitarium portable p levels. Capabilities for use in teaching	Room: Williams a Planetarium planetarium is suitable for teaching diverse topics to all grade science, math, social studies, art and music will be explored
Level/Content: K-12 Day: THURS 2/17 Time: 4:30-5:20PM Title: GEARS Digitarium; More than a Presenters: Max McKelvey Description: The Digitarium portable p levels. Capabilities for use in teaching Level/Content: K-8	Room: Williams a Planetarium planetarium is suitable for teaching diverse topics to all grade science, math, social studies, art and music will be explored Interdisciplinary
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 Title: Science is STEM-ulating!

 Presenters: Patti Grammens, Kathy Mellette

 Description: Two dynamic teachers will present ways to incorporate STEM disciplines into the curriculum in order to excite our students about their future jobs in these disciplines.

 Level/Content: 6-12
 General Science

 Day: THURS 2/17
 Room: Vinings

 Time: 4:30-5:20PM

# <u>Share-A-Thons</u> Saturday, February 19 1:30-2:20

Elementary School – Hong Kong Room

# Middle School – Vinings Room

High School – Vancouver Room

## Friday is Biotechnology Day at the GSTA Conference!

Special Thanks to GA Bio for their partnership. Review the Friday schedule for special guest speakers, 16 concurrent presentations including an expert panel discussion, unique field trip opportunities, a Biotech Alley full of free resources and special short courses on Saturday 2/19 at Georgia State University.

#### **Biotechnology Strand Saturday Short Courses**

Limited to 24 attendees for each short course NO charge for these short courses but you must sign up early to obtain a ticket for these courses. Sign up early at the following link: <u>http://www.surveymonkey.com/s/biotechshortcourses</u>

Check with the registration desk to see if any tickets remain.

Ion Exchange Chromatography to Study and Isolate Proteins Ellyn Daughtery 9AM-12PM

Participants will learn how to run an ion-exchange column to separate and study the proteins, lysozyme and amylase. Protein fractions will be collected and analyzed using indicators and spectrophotometry.

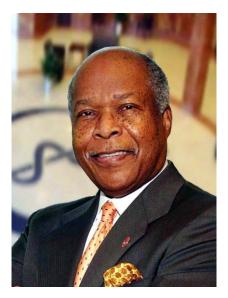
<u>Pig IgG ELISA – Biotechnology in the Food Industry</u> Amy Naum 9AM-12PM

Learn how a diagnostic procedure used by biotechnologists in many industries called ELISA detects protein presence and concentration by using antibody-antigen technology.

#### Taking the Mystery Out of PCR Sherri Andrews 9AM-12PM

How do you amplify a gene if you don't know the sequence? How do you design primers for student driven research? How is quantitative PCR (Real Time) different than traditional PCR? This workshop will answer these questions and make you more of an expert on PCR. You will learn what degenerative primers are, how to design primers, and learn how to run a Real Time PCR reaction.

## **Biotechnology Strand Special Guest Speaker**



**The Honorable Louis W. Sullivan, M.D.** Biotechnology Strand General Session International Ballroom South – Int Tower 9:00 AM Friday, 2/18

Louis W. Sullivan, M.D., is chairman of the board of the National Health Museum in Atlanta and chairman of the Washington, D.C.-based Sullivan Alliance to Transform America's Health Professions. Dr. Sullivan served as Secretary of the U.S. Department of Health and Human Services under former President George H. W. Bush from 1989 to 1993. He was the founding dean of what became the Morehouse School of Medicine, and served for more than two decades as its President. He served as chair of the President's Commission on Historically Black Colleges and Universities from 2002-2009, and was co-chair of the President's Commission on HIV and AIDS from 2001-2006.

A native of Atlanta, Dr. Sullivan graduated magna cum laude from Morehouse College, and earned his medical degree, cum laude, from Boston University School of Medicine. His postgraduate training included internship and residency in internal medicine at New York Hospital – Cornell Medical Center, a clinical fellowship in pathology at Massachusetts General Hospital, and a research fellowship in hematology at the Thorndike Memorial Laboratory of Harvard Medical School, Boston City Hospital.

Dr. Sullivan is the recipient of more than 55 honorary degrees, and serves on numerous corporate boards. He is a tireless advocate for enhancing health literacy and advancing healthy behaviors, for improved health promotion and disease prevention activities, gender and ethnic diversity, food and drug safety, and medical research.

## Biotechnology Strand Special Guest Speaker



Dr. Steven Stice University of Georgia Biotechnology Strand Lunch and Learn International Ballroom South – Int Tower 12:00 PM Friday, 2/18 "Demystifying Cloning and Stem Cells"

Dr. Stice is recognized as one of the world's most innovative scientists and entrepreneurs. He produced the first cloned rabbit in 1987 and the first cloned transgenic calves in 1998. In 1997 his group produced the first genetically modified embryonic stem cell derived pigs and cattle. This research led to publications in Science and Nature journals, national news coverage (CBS, NBC, ABC and CNN) and the first US patents on cloning animals and cattle embryonic stem cells. In 2007, he developed neural stem cells, the first product commercialized from human embryonic stem cells. IN 2010, his lab discovered how to incorporate pluripotent stem cells — cells that can develop into any other kind of cells — into embryos that grow into pigs.

Steven Stice is a professor and director of the University of Georgia Regenerative Bioscience Center. He is a Georgia Research Alliance Eminent Scholar endowed chair and professor of animal science in the UGA College of Agricultural and Environmental Sciences. He was named one of the 100 Most Influential Georgians by *Georgia Trend* magazine.

Stice founded Aruna Biomedical, Inc., the first company in the world to produce a marketed product derived from human embryonic stem cells in 2007. The product is a neural progenitor cell line used to research neurological diseases and disorders, ranging from Parkinson's disease to depression. Prior to joining the University of Georgia, Stice was a co-founder and chief scientific officer at Advanced Cell Technology, Inc., a stem cell company.

Stice received a B.S. at the University of Illinois. He received his M.S. degree from Iowa State University and his Ph.D. from the University of Massachusetts in Amherst.

## Biotechnology Strand

8:00AM	<i>Vancouver</i> GABIO Using Biotechnology: Science for a New Millennium, 2nd Ed.	-
		_

9:00AM	International Ballroom South – International Tower General Session The Honorable Louis W. Sullivan, M.D.
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	Cairo
10:00AM	GABIO Disorder Detectives
	Hong Kong
	GABIO Including Nanoscale Science in your Science Classroom-Results from
,	a Summer Research Experience
	Montreal
	GABIO DNA is Elementary (2 hour session)
Vancouver	
	GABIO Nanoscale Applications in Environmental Technologies

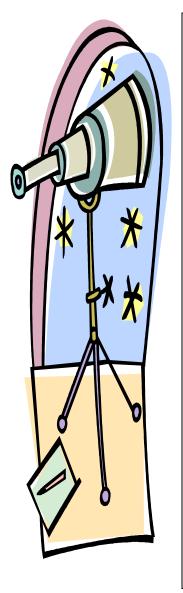
11:00AM	<b>Cairo</b> GABIO In vitro Gas Suppression: Beano®Enzymes to the Rescue <b>Vancouver</b> GABIO Connecting Nanotechnology Applications in Healthcare with Middle/High School
12:00PM	International Ballroom South – International Tower Lunch and Learn Session Dr. Steven Stice, UGA Grab your lunch to go and join us!

## Biotechnology Strand

1:00PM	Cairo GABIO DNA Length Change Predicts Number of Proteins <i>Montreal</i> GABIO Care and Feeding of the Microscope <i>Vancouver</i> GABIO Problem-Based Learning for Middle and High School Science (2 Hour Session)
2:00PM	Cairo GABIO Introducing Epidemiology through a Foodborne Outbreak Demonstration: Who Ate the Potato Salad? <i>Montreal</i> GABIO Evaluating the Routes of Vaccine Immunization
3:00PM	Exhibit hall Door Prizes and GSTA District Director Meet and Greet
4:00PM	Cairo GABIO CDC Career Paths: Introducing Public Health Science Education <i>Montreal</i> GABIO A 3-week unit of Biotech for Any Biology Class <i>Vancouver</i> GABIO HANDS ON Science: Reinforce Curriculum with Engaging Activities <i>Int Ballroom South</i> GABIO Bioscience Curriculum Resources for Your Classroom
4:50PM	International Ballroom South – International Tower Door prize drawing for the Biotech Strand Make sure to bring your Biotech Strand Passport with you for the drawing. You must be present to win!

## **GEARS** Strand





Friday, Feb 18, 2011 Vinings Room

8:00am GEARS What's that Constellation?

9:00am GEARS Investigates Dark Matter in Galaxies

10:00am GEARS Hands-on Astronomy for 6 – 12

11:00am GEARS Building your Galileoscope

1:00pm GEARS Bringing E.T into Your Classroom

2:00pm GEARS Hi-Tech Astronomy: Using Technology to Engage Students in High Level Data Analysis

4:00pm GEARS Windows in the Atmosphere: Radiation sources, detectors and shields



## GYSTC Strand Georgia Youth Science Technology Centers Friday, Feb 18, 2011 Piedmont Room

8:00am GYSTC All in the Family

9:00am GYSTC 6th Grade Mini-Conference Show & Share Best Practice Lessons

10:00am GYSTC - Teaching Science with Children's Literature

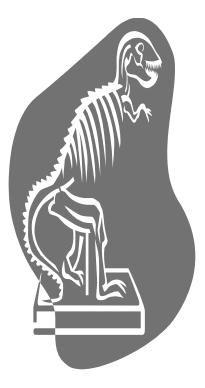
> 11:00am GYSTC: Teach Writing Using Science

> > 12:00pm GYSTC: Lunch and Learn

1:00pm GYSTC: Science and Storytelling

2:00pm GYSTC: Teaching Science with Children's Literature

## Fernbank Museum Strand



Friday, Feb 18, 2011 Hong Kong Room

11:00am FERNBANK What is the MESSENGER Spacecraft?

12:00pm FERNBANK Reaching the 3-5 Science Student

1:00pm FERNBANK 6th Grade GPS On The Rocks

2:00pm FERNBANK The Zero G Experience



Solar Telescope Presentation 12:30pm – 3:30pm

Weather permitting Stephen W., Ramsden (<u>sramsden@solarastronomy.org</u>) will be setup outside of the Hyatt at the corner of Peachtree and Baker streets to provide hands on viewing of our beautiful home star in three wavelengths of light. You will see firsthand through his eyepieces Solar Prominences and flares, active magnetic regions and sunspots. Free NASA/JPL solar system ambassador goodies to all attending as well as your own pair of solar viewing glasses for you to keep.

## Friday, February 18, 2011 8:00 am

	0.00 am
Title: Take the Leap: Carolina's Per	fect Solution® Frog Dissection
Presenters: Carolina Teaching Partn	
	frog dissection, using comparative anatomy techniques and
	ntify body systems. Experience Carolina's Perfect Solution® frogs,
the most lifelike and safest preserved	
Level/Content: 6-12	Biology (Life Science)
Day: FRI 2/18	Room: Kennesaw
Time: 8-8:50AM	
Title: ELISA DO-LITTLE	
Presenters: Teri Schneider, Marti Ne	ewcomb-Thompson
	nsmission and ELISA applications in the classroom.
Level/Content: High	Biology (Life Science)
<b>Day:</b> FRI 2/18	Room: Montreal
<b>Time</b> : 8-8:50AM	
TIME: 8-8:50AM	
Title: Flight Plan for Differentiating	
Presenters: Rachael Parr, Tiffany Ba	
Description: Our 'Flight Plan' for diffe	rentiation will take you step by step through the planning and
implentation process for differentiating	science instruction in the middle grade classroom.
Level/Content: Middle	Biology (Life Science)
Day: FRI 2/18	Room: Techwood
<b>Time</b> : 8-8:50AM	
Time. 8-8.50AW	
	s program are to train science teachers in Summer Biotechnology veness of teacher training. Evaluation results will be reported. Biotechnology Room: Singapore
Title: GABIO Using Biotechnology	: Science for a New Millennium, 2nd Ed.
Presenters: Ellyn Daugherty	
	the newly revised Biotechnology: Science for the New Millennium,
	al, Encore® CD, Instructor's Guide, Course Planner, and the three
support web sites.	
Level/Content: 6-12	Biotechnology
Day: FRI 2/18	Room: Vancouver
Time: 8-8:50AM	
Title: Exploring the Evidence for R	iding on Nitrogen-Filled Tires
Presenters: Thomas Koballa, Charle	
	behind the practice of purging air from tires and filling them with
nitrogen gas and a learning progression	on for understanding the movement of gases through rubber.
Level/Content: 6-12	Chemistry
Dave EDL0/40	Room: Inman
Day: FRI 2/18	
<b>Day:</b> FRI 2/18 <b>Time</b> : 8-8:50AM	Room. minan
	Room. minan

Title: GEARS What's that Constellation?		
Presenters: Jamie Akin		
	for \$50!! Handouts will be provided and someone will	
walk away with a planetarium!!		
Level/Content: 6-12	Earth/Space Science	
Day: FRI 2/18	Room: Vinings	
Time: 8-8:50AM		
Title: Georgia 4-H Environmental Education: A		
Presenters: Melanie Biersmith, Jaclyn Holt, Matt		
	quality field studies for over 30 years. Come learn how	
this program can complement Georgia's Performa	ance Standards in the context of real world	
environments.		
Level/Content: K-8	General Science	
Day: FRI 2/18	Room: Edgewood	
Time: 8-8:50AM		
Title: Using Formative Assessments in Science	ce Instruction	
Presenters: Tracy Altherr		
Description: Formative assessments are importan	nt tools for informing teachers what their students know	
or what misconceptions they hold about content n	natter. This presentation will provide teachers with	
research supporting the use of formative assessm	ents and will also give teachers ideas of assessments to	
employ in their classrooms.	5	
Level/Content: K-8	General Science	
Day: FRI 2/18	Room: Lenox	
Time: 8-8:50AM		
Title: GYSTC All in the Family		
Presenters: Angela Guilford, Debbie Stuckey, Ly	nn Larsen	
	ols you need to implement a successful Family Science	
	sted by GYSTC coordinators from around the state.	
Level/Content: Elementary	General Science	
Day: FRI 2/18	Room: Piedmont	
Time: 8-8:50AM		
Title: AP Science: Participation and Excellenc	e are not Mutually Exclusive	
Presenters: Joe Cox	······································	
	gram that more than tripled student participation, while	
simultaneously raising the passing percentage by		
Level/Content: High	Interdisciplinary	
Day: FRI 2/18	Room: Hong Kong	
Time: 8-8:50AM		
Title: Bring the Mountain to the Science Learn	or	
Presenters: Kimberly Loomis		
	phibit taking your class on a field trip. Online resources	
developed by the National Park Service can bring Level/Content: Middle		
	Interdisciplinary	
Day: FRI 2/18 Time: 8-8:50AM	Room: Spring	

Title: Collaborative hands-on labs for ESEP Ph		
Presenters: Sherrie Chovanec, Peter Fischer, Chris Kennedy		
<b>Description:</b> Cost effective hands-on labs used successfully in a unique collaborative blended setting of		
	hysics. Experience enriching labs for all level of learners.	
Level/Content: 6-12		
	Physical Science	
Day: FRI 2/18	Room: Cairo	
Time: 8-8:50AM		
Title: Understanding the Periodic Table		
Presenters: Heather Brasell		
	(made o 0 10) helps develop conceptual understanding	
	(grades 8-10) helps develop conceptual understanding	
	eriodic tables, and relationship between atomic structure	
and the Periodic Table.		
Level/Content: 6-12	Physical Science	
Day: FRI 2/18	Room: Manila	
Time: 8-8:50AM		
Title: Ecology: Interdependence and interaction	ons in dynamic ecosystems	
Presenters: Barbara Nagle, Laura Lenz		
<b>Description:</b> Interdependence and interactions be	etween organisms are critical for the functioning of	
	ent interest in learning about dynamic ecosystems by	
	management and invasive species into standards-based	
	management and invasive species into standards-based	
lessons using hands-on activities.		
Level/Content: High	Biology (Life Science)	
Day: FRI 2/18	Room: Williams	
Time: 8-8:50AM		
Eriz	Aay 2/19	
	day 2/18	
9:	:00 am	
Title: Butterflies in the Classroom		
Presenters: Carolina Teaching Partner		
	and The Definite data de la destructura de la constructura de set	
Description: Butterflies bring classroom exciteme	ent! The Painted Lady butterfly's perfect for student	
Description: Butterflies bring classroom exciteme	ent! The Painted Lady butterfly's perfect for student ds. Butterfly care sessions. Free activities and living	
<b>Description:</b> Butterflies bring classroom exciteme observation and meets National Science Standard		
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Title: Case Studies in Chemistry		
Presenters: Sarah Eales, Christine Wahl		
	increase student involvement and help students to see	
relevancy. See examples of cases and demonstr	ations and take home examples for use in your	
classroom.		
Level/Content: 6-12	Chemistry	
Day: FRI 2/18	Room: Inman	
<b>Time</b> : 9-9:50AM		
Title: Reptile Wranglers		
Presenters: Ken Panse, Zack Panse		
Description: Join us for an engaging look into the	e lives of snakes, lizards, turtle/tortoises, toads/frogs and	
a few giant arthropods. Feel free to interact with interesting facts about their critters!	the Reptile Wranglers Ken and Zack as they share	
Level/Content: K-12	Biology (Life Science)	
Day: FRI 2/18	Room: Manila	
<b>Time</b> : 9-9:50AM		
Title: GYSTC 6th Grade Mini-Conference Show	v & Share Best Practice Lessons	
Presenters: Angela Guilford	a han aharing Deat Depaties been a diseased	
	achers sharing Best Practice lessons and resources.	
	m North Georgia and Cobb County Schools. All 6th	
grade GPS will be presented.		
Level/Content: Middle	Earth/Space Science	
Day: FRI 2/18	Room: Piedmont	
<b>Time</b> : 9-9:50AM		
Title: GEARS Investigates Dark Matter in Gala	ixies	
Presenters: Sarah Higdon, James Higdon, GEA		
	nade of? Using NASA data and hands-on demos we will	
infer the presence of dark matter. 20 kits will be g	iven away.	
Level/Content: 6-12	Earth/Space Science	
Day: FRI 2/18	Room: Vinings	
<b>Time</b> : 9-9:50AM	-	
Title: Hot Air Balloon with Hair dryer		
Presenters: Hong Kim		
6	ch it with hot air by a hair dryer. It is an exciting, hands-	
on, safe, and easy science project for a class.	ch it with hot all by a half dryer. It is all exciting, hands-	
Level/Content: K-8	General Science	
Day: FRI 2/18		
	Room: Edgewood	
<b>Time</b> : 9-9:50AM	Room: Edgewood	
<b>Time</b> : 9-9:50AM	of the best middle school activities we've ever used!	
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Time: 9-9:50AM Title: Begged, Borrowed, and Stolen ~ MORE Presenters: Zoe Evans, Ann Cook, Tina Denney	of the best middle school activities we've ever used!	
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Title: How to CAP your frustrations and TRADE your Disruptions Presenters: Mark Knox **Description:** Teachers know the frustration of losing instruction time to matters of discipline. Time to Teach is a set of strategies proven to reduce classroom discipline problems and restore that time. Level/Content: K-8 Interdisciplinary Day: FRI 2/18 Room: Lenox Time: 9-9:50AM Title: Collaborative Hands-On Labs for ESEP Physical Science Part 2 Presenters: Sherrie Chovanec, Peter Fischer, Chris kennedy Description: Cost effective hands-on labs used successfully in a unique collaborative blended setting of ESEP self-contained Physical Science and AP Physics. Experience enriching labs for all level of learners. Level/Content: 6-12 Physical Science Dav: FRI 2/18 Room: Cairo Time: 9-9:50AM **Title: Integrating Engineering and Robotics to Teach Science** Presenters: Fred Stillwell, Jeffrey Rosen Description: This session describes a middle school course, Applied Concepts of Engineering and Science, that integrates science, mathematics, language arts and social studies using engineering and robotics in a problem-based setting. Level/Content: Middle **Physical Science** Day: FRI 2/18 Room: Spring Time: 9-9:50AM Title: The Station Approach: Scaffolded Inquiry and Brain-based Learning Activities **Presenters:** Dr. Cherry C. Brewton, Graduate Students **Description:** Let's implement the Station Approach! Get basics, then rotate through a series of science centers (stations) that allows teachers to differentiate instruction and scaffold science inquiry through brain-based activities. Collect data; make scientific claims and support them with evidence. Level/Content: K-8 Interdisciplinary Day: FRI 2/18 Room: Williams Time: 9-9:50AM Friday 2/18 10:00 am **Title: GABIO Disorder Detectives** Presenters: Neil Lamb, Jennifer Carden, Madelene Loftin Description: Diagnosing chromosomal disorders has never been so easy! Come see a new no mess approach to karyotyping. Engaging, Active, Affordable! Level/Content: 6-12 Biotechnology Day: FRI 2/18 Room: Cairo Time: 10-10:50AM Title: GABIO Nanoscale Applications in Environmental Teechnologies. Presenters: Joyce Palmer, Nancy Healy, Katie Hutchison **Description:** Come and explore through hands-on activities how nanotechnology is being used in the field of environmental technologies. The lessons shared address Georgia Performance Standards as well as National Science Standards. Level/Content: 6-12 Biotechnology Day: FRI 2/18 Room: Vancouver Time: 10-10:50AM

Title: Georgia's Scientific Tomorrow: Unknowable b	ut Not Unthinkable	
Presenters: Rosalind Watson		
<b>Description:</b> Integrating science GPS and thinking skills affected student achievement in our school. Receive har		
make a difference in your school.	idouts and explore now these strategies can	
Level/Content: Elementary	Earth/Space Science	
	<b>n</b> : Techwood	
Time: 10-10:50AM		
Title: Our Top Ten Energy Sources		
Presenters: Rebecca Lamb, Karen Reagor		
Description: Energy is a hot topic! Learn about the sou	rces we use, and take home curriculum you can	
use in your classroom! NEED materials are correlated to		
Level/Content: Elementary	General Science	
	n: Edgewood	
Time: 10-10:50AM		
Title: The Sky's The Limit		
Presenters: Carolina Teaching Partner		
<b>Description:</b> Participants will practice with activities from		
literacy, notebooking strategies, technology and assessr performance.	nents to maximize student learning and	
Level/Content: Elementary	General Science	
	n: Kennesaw	
Time: 10-10:50AM	n. Rennesaw	
Title: Fourth Grade Share-a-thon KSU MSP Cohorts		
Presenters: Marlee Tierce		
Description: Fourth Grade teachers from North Georgia	and Cobb County will share activities and ideas.	
Level/Content: Elementary	Interdisciplinary	
Day: FRI 2/18 Room	n: International Ballroom North-Int tower	
Time: 10-10:50AM		
Title: Teaching Energy Conservation with an empha	sis on Bio-Fuels	
Presenters: Sue Kral	in the development of new feed economic of	
<b>Description:</b> Teachers participate in activities that expla		
biofuels as a renewable source of fuel for transportation,		
Level/Content: Elementary Day: FRI 2/18 Roon	Interdisciplinary <b>n:</b> Lenox	
Time: 10-10:50AM	II. Lenox	
Title: Science and Poetry		
<b>Presenters</b> : Jessica Kirkham, Kim Hembree		
<b>Description:</b> Poetry is about details, science is about de	tails. Wow! Why can't we join the act of	
investigation in science with the structure of poetry? We		
"explore" an experiment and write them as a poem in or		
Level/Content: Elementary	Interdisciplinary	
	<b>n:</b> Manila	
Time: 10-10:50AM		
Title: GYSTC - Teaching Science with Children's Lite	erature	
Presenters: Steve Rich, Pattie Morton, Lynn Larsen		
Description: Be ahead of the game when science become	mes part of AYP. Integrate the Outstanding	
Science Tradebooks into your reading lessons, and get t		
students. Door prizes!!	-	
Level/Content: Elementary	Interdisciplinary	
	n: Piedmont	
Time: 10-10:50AM		

Title: Inquiry Invitations in the Science Classroom         Presenters: Jennifer "Jaye" Thiel         Description: This session will explain how to design and implement GPS related Inquiry Invitations in the science classroom. Participants will receive sample Inquiry Invitations.         Level/Content: Elementary       Interdisciplinary         Day: FRI 2/18       Room: Singapore         Time: 10-10:50AM
Title: Snacking Your Way Through Science         Presenters: Stacey Osborne, Jennifer Baker, Jennifer Reardon         Description: Looking for engaging ways to formally assess students? In "Snacking Your Way Through Science," you will have opportunities to assess students through hands-on, standards-based activities integrating science, math, and technology.         Level/Content: Elementary       Interdisciplinary         Day: FRI 2/18       Room: Spring         Time: 10-10:50AM       Spring
Title: GEARS Hands-on Astronomy for 6 – 12         Presenters: Lindsay Bearden, Jamie Akin         Description: Come join us as we use hands-on to determine the radius and the color of our sun using very inexpensive materials!! We'll also show you a way to demonstrate how scientists find planets around other stars in our universe. Give-aways and handouts for activities will be provided.         Level/Content: 6-12       Earth/Space Science         Day: FRI 2/18       Room: Vinings
Title: Reaching out to Multiple Intelligences: Using Songs to Teach Science         Presenters:       Donna Governor, Larry Morris         Description:       Discover how science content songs can be used to teach concepts and engage students in learning.         Level/Content:       Middle         Day:       FRI 2/18         Time:       10:00-10:50AM
Title: GABIO DNA is Elementary         Presenters:       Chandan M. Robbins, Michelle Ventura, Dana Brown         Description:       Georgia State University's Bio-Bus Program is a free science outreach program dedicated         to bringing fun and engaging science activities into the K-12 classroom.       Evel/Content:         Level/Content:       Elementary       Biology (Life Science)         Day:       FRI 2/18       Room:       Montreal
Title: GABIO Including Nanoscale Science in your Science Classroom-Results from a Summer         Research Experience         Presenters: Joey Nunn, Marie J. Cabrices, Pamela Gilbert-Smith         Description: Come learn how teachers spent their summer and how they are using nanoscale lessons in their classses. Find out how you can be a participant in the summer of 2011.         Level/Content: 6-12       Interdisciplinary         Day: FRI 2/18       Room: Hong Kong         Time: 10-10:50AM

Title: Science and Interactive Whiteboard	s in the Elementary Classroom	
Presenters: Larry Zimmerman		
Description: Learn about interactive whiteboards and how to quickly and easily use Interactive		
Whiteboards (IWB) to engage your students in science content and increase achievement. Attendees will		
receive a CD handout complete with ready-to	p-implement templates, lessons, and activities from the	
presentation.		
Level/Content: Elementary	General	
Day: FRI 2/18	Room: Williams	
Time: 10-10:50AM		
	Friday 2/18	
	11:00 am	
	e Classroom? Biodiversity Activities for Students	
Presenters: Jennifer Atkinson, Paul Goodwi		
	rsity activities does not require an extensive knowledge of	
	activities, your students can explore the world of biodiversity	
through calculating a biodiversity index and e	examine biodive	
Level/Content: High	Biology (Life Science)	
Day: FRI 2/18	Room: Inman	
Time: 11-11:50AM		
Title: Hands-On 5th Grade All Year Long! Presenters: Sally Creel	- NW GA MSP	
	CANCD will dome as yourd hands on averation anto to tasch	
	-GA MSP will demo several hands-on experiments to teach	
	several lessons and receive practical advice on fitting science	
in.		
Level/Content: Elementary	General Science	
Day: FRI 2/18	Room: International Ballroom North-Int Tower	
<b>Time</b> : 11-11:50AM		
Title: GABIO In vitro Gas Suppression: B	eano®Enzymes to the Rescue	
Presenters: Jeremy Peacock, Scott May		
	Beano®, a bioengineered enzyme that suppresses intestinal	
	bic for students provides an easy, inexpensive introduction to	
the world of biotechnology.		
Level/Content: High	Biotechnology	
Day: FRI 2/18	Room: Cairo	
Time: 11-11:50AM		
Title: GABIO Connecting Nanotechnology	y Applications in Healthcare with Middle/High School	
Presenters: Joyce Palmer, Nancy Healy, Ka		
	ids-on activities how nanotechnology is being used in the	
	s Georgia Performance Standards as well as National	
Science Standards.	e eesigia i enemanee etanaarde de won de radional	
Level/Content: 6-12	Biotechnology	
Day: FRI 2/18	Room: Vancouver	
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<b>Time</b> : 11-11:50AM		
Title: GEARS Observing with the Faulkes	Telescope From Your Classroom	
Presenters: Sarah Higdon, Jim Myers, Jam		
	Universe into your classroom? The Faulkes/GEARS	
	elescopes and GEARS mentor teachers provide full support	
and lesson plans.		
Level/Content: 6-12	Earth/Space Science	
	Room: Edgewood	
Day: FRI 2/18		
<b>Time</b> : 11-11:50AM		

Title: GEARS Building your Galileoscope	
Presenters: Zodiac Webster, GEARS Team	
	eoscope you received from teachingwithtelescopes.org
Level/Content: 6-12	Earth/Space Science
Day: FRI 2/18	Room: Vinings
Time: 11-11:50AM	
Title: SENSEable GA Science-Yesterday, Tod	lay and Tomorrow
Presenters: Ruby Ashley, Dr. Sophia Kent	revided D. O. seienes teachers with resources for bands
	rovided P-8 science teachers with resources for hands-
	ession will highlight sample lessons from elementary and
middle grades standards. Level/Content: K-8	General Science
Day: FRI 2/18	Room: Kennesaw
Time: 11-11:50AM	Room. Reimesaw
Time. IT-TI.SOAM	
Title: TI Tools for the Science Classroom	
Presenters: Ned Colley	
	he 6-12 science classroom. Hear about STEM, GPS and
more. Take home materials will be provided and	
Level/Content: 6-12	General Science
Day: FRI 2/18	Room: Manila
Time: 11-11:50AM	
Title: The "Write" Stuff: Incorporating Writin	g in the Science Classroom
Presenters: Zoe Evans, Carol Turner	
Description: "Writing Across the Curriculum" is a	a charge we've been given by both our school and
district. Come see the activities we've used to ac	ddress this area of our school improvement plan and
assess our student's science content knowledge.	
Level/Content: Middle	General Science
Day: FRI 2/18	Room: Singapore
<b>Time</b> : 11-11:50AM	
Title: Treeke of a Thief	
Title: Tracks of a Thief	
Presenters: Lynn Larsen, Dean Laskey	rmine a thief! Characteristics of Science Standards for
middle school will be investigated.	
Level/Content: Middle	General Science
Day: FRI 2/18	Room: Techwood
Time: 11-11:50AM	
Title: Science Olympiad Foundations	
<b>Presenters</b> : Scott Cole, Penni Johnson, Flavia I	Bitussi
	t your school and learn how to run a program that will
challenge the most gifted students at your school	
Level/Content: High	Interdisciplinary
Day: FRI 2/18	Room: Lenox
<b>Time</b> : 11-11:50AM	
Title: GYSTC: Teach Writing Using Science	
Presenters: Angela Guilford	
<b>Description:</b> Sharing strategies and examples o	n how to teach science through writing.
Level/Content: Elementary	Interdisciplinary
Day: FRI 2/18	Room: Piedmont
Time: 11-11:50AM	

Title: A Closer Look at Careers in Science	
Presenters: Ashley Carter	
Description: Do you want to know more about c	urrent science careers? This session will share
	s. It will also include hands-on activities to engage your
middle school students and help them consider h	
Level/Content: Middle	Interdisciplinary
Day: FRI 2/18	Room: Spring
<b>Time</b> : 11-11:50AM	<b>Room.</b> Spring
Time. 11-11.50AM	
	n a a a vaft 9
Title: FERNBANK What is the MESSENGER S	pacecraft?
Presenters: April Whit	
	er sent back the first pictures of Mercury's surface.
NASA's MESSENGER space craft goes into orbi	
presentation provides an overview of the mission	, some questions it hopes to answer, and classroom
activities for elementary school teachers.	
Level/Content: K-8	Earth/Space Science
Day: FRI 2/18	Room: Hong Kong
Time: 11-11:50AM	
Title: Visual Literacy for Science	
Presenters: Larry Zimmerman	
	troduction to visual literacy as a strategy for building key
	ence content. Strategies demonstrated will be practical
and easy to implement in any elementary classro	om.
Level/Content: Elementary	General
Day: FRI 2/18	Room: Williams
Time: 11-11:50AM	
<b>F</b> :	dour 0/4 0
Eri	
	day 2/18
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12	2:00 pm
12 Title: GABIO Lunch and Learn	•
Title: GABIO Lunch and Learn         Presenters: Dr. Steven Stice	2:00 pm
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	Friday 2/18
	1:00 pm
Title: Exploring a Hidden World: M	
Presenters: Theresa Pinilla	
	anisms frequently goes unnoticed, though we are surrounded by
	GIFT internship, students will become aware of the activities of
microbial organisms. Level/Content: 6-12	Biology (Life Science)
Day: FRI 2/18	Room: Edgewood
Time: 1-1:50PM	
	rch Topic (S.M.A.R.T). Teams and Scientific Teaching
Presenters: John Finley, John Baue	
	s molecular modeling and scientific teaching using the S.M.A.R.T
(Students Modeling A Research Top teaching.	ic)team program as the vehicle for promoting inquiry and scientific
Level/Content: 6-12	Biology (Life Science)
Day: FRI 2/18	Room: Inman
Time: 1-1:50PM	
Title: Genetics: Crazy Traits and A	Adaptation Survivor
Presenters: Chris Neill, Wendy Del	
	s traits, alleles, phenotypes and genotypes come alive as you create
crazy creatures using a unique kit ar	
Level/Content: 6-12	Biology (Life Science)
Day: FRI 2/18	Room: Lenox
<b>Time</b> : 1-1:50PM	
Title: GABIO Care and Feeding o	f the Microscope
Presenters: Richard Brown	· · · · · · · · · · · · · · · · · · ·
Description: Proper alignment, clea	ning and specimen preparation skills to obtain high quality images
	outs with references for further study. Mock forensic investigation
using common kitchen ingredients in	
Level/Content: High	Biology (Life Science)
Day: FRI 2/18	Room: Montreal
<b>Time</b> : 1-1:50PM	
	a Bradiata Number of Brataina
Title: GABIO: DNA Length Change	e Fledicis Nulliber of Flotellis
Presenters: Brian Heglund	
Presenters: Brian Heglund Description: Biophysicists can mani	ipulate DNA and study how these changes affect DNA operation.
<b>Presenters</b> : Brian Heglund <b>Description:</b> Biophysicists can mani The objective is to determine the nur	
<b>Presenters:</b> Brian Heglund <b>Description:</b> Biophysicists can mani The objective is to determine the nur extension data.	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force-
<b>Presenters</b> : Brian Heglund <b>Description</b> : Biophysicists can mani The objective is to determine the nur extension data. <b>Level/Content</b> : High	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology
<b>Presenters</b> : Brian Heglund <b>Description</b> : Biophysicists can mani The objective is to determine the nur extension data. <b>Level/Content</b> : High <b>Day:</b> FRI 2/18	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force-
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology <b>Room:</b> Cairo
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM Title: Using Digital Media to Teacl	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology Room: Cairo h Literacy Skills through Science
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM Title: Using Digital Media to Teach Presenters: Janet Jones, Mike What	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology Room: Cairo h Literacy Skills through Science alen
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM Title: Using Digital Media to Teacl Presenters: Janet Jones, Mike Wha Description: By using Ignite! Science literacy skills, science teachers can p	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology <b>Room:</b> Cairo h Literacy Skills through Science alen ce digital curriculum to teach necessary English language arts and
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM Title: Using Digital Media to Teacl Presenters: Janet Jones, Mike Wha Description: By using Ignite! Science literacy skills, science teachers can p literacy.	<ul> <li>ipulate DNA and study how these changes affect DNA operation.</li> <li>mber of proteins bound to DNA by analyzing changes in force-</li> <li>Biotechnology</li> <li>Room: Cairo</li> </ul> h Literacy Skills through Science alen be digital curriculum to teach necessary English language arts and brepare middle school students to meet the challenges of high school
Presenters: Brian Heglund Description: Biophysicists can mani The objective is to determine the nur extension data. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM Title: Using Digital Media to Teacl Presenters: Janet Jones, Mike Wha Description: By using Ignite! Science literacy skills, science teachers can p	ipulate DNA and study how these changes affect DNA operation. mber of proteins bound to DNA by analyzing changes in force- Biotechnology Room: Cairo h Literacy Skills through Science alen

Title: Engaged Kids are Focused on Science         Presenters: Lynda Pollock         Description: Using mini labs to promote engagement. Keep your students' minds on science by getting         their attention. Hands on and demo activites to excite student learning.         Level/Content: Middle       General Science         Day: FRI 2/18       Room: Techwood         Time: 1-1:50PM
Title: Training Teachers to Apply Inquiry in K-12 Science         Presenters: Dr. Gail Marshall, Judy Cox, Dr. Sharmistha Basu-Dutt, Dr. Heidi Banford, Dr. Joy Black, Dr.         Tim Chowns, Stephanie Miles, Brandie Freeman         Description: This presentation will provide examples and data from five successful programs designed to train elementary, middle, and secondary teachers to use inquiry-based science instruction.         Level/Content: College       Interdisciplinary         Day: FRI 2/18       Room: Kennesaw         Time: 1-1:50PM       Interdisciplinary
Title: High Incidence Disabilities in the Science Classroom         Presenters: Lisa Alexander, Ed.D, Ginger Harbin, Ed.D         Description: Ever taught students with ADD, Autism, and Learning Disabilities? This workshop provides         you with an opportunity to learn how to reach these students while still meeting the GPS.         Level/Content:       6-12         Day:       FRI 2/18         Time:       1-1:50PM
Title: GYSTC: Science and Storytelling         Presenters: Paula Chambers, Ph.D., Lynn Larsen         Description: Come learn about using storytelling to teach science standards.         Level/Content: Elementary       Interdisciplinary         Day: FRI 2/18       Room: Piedmont         Time: 1-1:50PM
Title: GEARS Bringing E.T into Your Classroom.         Presenters: Gary Lawhon, Dave Baltenberger         Description: Strategies for incorporating methods of detection of extrasolar planets into the classroom.         Participants will assemble visual demonstrators that can be taken home and used in their classroom.         Level/Content: 6-12       Interdisciplinary         Day: FRI 2/18       Room: Vinings         Time: 1-1:50PM
Title: Physical Science Big 20s         Presenters: Sheila Sholtis         Description: Monitoring student progress results in significant student improvement. Come see one teacher's method of allowing students to gather and graph their own performance data. Students willingly become data driven learners.         Level/Content:       6-12       Physical Science         Day:       FRI 2/18       Room: Singapore
Title: FERNBANK Reaching the 3-5 Science Student         Presenters: Nathaniel Haeck         Description: Having struggles reaching your classes for science? If so, come see these hands on activities that are sure to hook your students into science.         Level/Content: Elementary       Interdisciplinary         Day: FRI 2/18       Room: Hong Kong         Time: 1-1:50PM

Title: Alternative Energy for Transportation: Hydrogen and Fuel Cells Presenters: Barbara Nagle, Laura Lenz Description: Learn about a curriculum module that includes the production of hydrogen, chemistry of hydrogen fuel cells, stoichiometry and energy considerations, and trade-offs of hydrogen fuel cells for transportation. Take home an activity that includes both web-based and hands-on models of the fuel cell		
redox reaction. Level/Content: High Day: FRI 2/18 Time: 1-1:50PM	Chemistry Room: Williams	
and resources. Presentors are from KSU MSP ( Schools. Level/Content: Middle Day: FRI 2/18	are Best Practice Lessons hysical Science Teachers sharing Best Practice lessons Grant Cohorts from North Georgia and Cobb County Physical Science Room: International Ballroom North-Int Tower	
Time: 1-1:50PM         Title: GABIO: Problem-Based Learning for Middle and High School Science         Presenters: Jordan Rose, Patricia Marsteller         Description: Experience best practices in PBL instruction, access over 200 free PBL lessons, and transform your students into motivated investigators, self-directed and life-long learners, critical thinkers and keen problem solvers.         Level/Content:       6-12       Interdisciplinary         Day:       FRI 2/18       Room:       Vancouver         Time:       1-2:50PM       Vancouver		
Friday 2/18 2:00 pm		
and take positive actions through service learnin science night kits. Level/Content: Elementary	outh investigate earth's ecosystems as citizen scientists g. We present a program overview and activities from Biology (Life Science)	
Day: FRI 2/18 Time: 2-2:50PM	Room: Inman	
Title: GABIO Evaluating the Routes of Vaccin Presenters: Samantha Andrews, Nicholas Parr Description: This activity will use ELISA to acce using different routes of administration Level/Content: High Day: FRI 2/18 Time: 2-2:50PM		
Title: GABIO Introducing Epidemiology through a Foodborne Outbreak Demonstration: Who Ate the Potato Salad?         Presenters:       Ralph Cordell         Description:       This session demonstrates an activity centered around a mock outbreak of food poisoning.         Students collect, analyze, and interpret data using the same methods used by CDC epidemiologists in conducting these investigations.         Level/Content:       6-12		
Day: FRI 2/18 Time: 2-2:50PM	Room: Cairo	

Title: Baby, You Move Me!	
Presenters: Sharon Golden, Jenny Hohn	
Description: Make learning about Simple Machine	es and Force & Motion FUN for your students! Come try
a variety of hands-on, inquiry based performance	activities that will enhance your teaching.
Level/Content: Elementary	Physical Science
Day: FRI 2/18	Room: International Ballroom North-Int tower
Time: 2-2:50PM	
Title: GEARS Hi-Tech Astronomy: Using Tech	nology to Engage Students in High Level Data
Analysis	
Presenters: Michelle Davis	
Description: Dust off your technology! Get ready to engage students in data analysis with graphing	
calculators, computers, and CBLs. Adaptable lesson plans, labs and activities will be provided.	
Level/Content: High	Earth/Space Science
Day: FRI 2/18	Room: Vinings
Time: 2-2:50PM	-
Title: Let's Get Vertical! Using Vertical Teams	to Help Improve Student Success
Presenters: Alfred Porter	en eterte d'active d'active d'active en eterte de la seconda la
	se strategies discussed in this presentation to create K-
12 Vertical Teams within their District.	
Level/Content: 6-12	General Science
Day: FRI 2/18 Time: 2-2:50PM	Room: Spring
Time: 2-2.50PM	
Title: Saving Energy at Home and School	
<b>Presenters</b> : Rebecca Lamb, Karen Reagor	
<b>Description:</b> Lessons and activities teach energy	efficiency and conservation at home and school
	implement an energy management program in your
classroom or school.	
Level/Content: Middle	General Science
Day: FRI 2/18	Room: Techwood
Time: 2-2:50PM	
Title: Emotions and neurocognition: Bridging	the gap for science success
Presenters: Marilyn Simmons Bowe	
	e link between learning styles and emotional pathways
and how they may impact academic achievement	for African Americans in Science, Technology,
Engineering, and Mathematics (STEM) Disciplines	
Level/Content: 6-12	Interdisciplinary
Day: FRI 2/18	Room: Edgewood
Time: 2-2:50PM	
Title: Laminated Assessment	
Presenters: Judy Ward	
	assessing and monitoring student learning of science
standards with a concentration in physical science	
Level/Content: College	Interdisciplinary
Day: FRI 2/18	Room: Kennesaw
Time: 2-2:50PM	NOOIII. Keillesaw
TIME. 2-2.50FW	
Title: Writing to Learn in Science	
Presenters: Amy Kezman, Peggy Bailey	
	s in the science classroom. Journals promote written
and oral literacy, reading and vocabulary developm	
effective teaching and learning. This workshop will	
Level/Content: High	Interdisciplinary
Day: FRI 2/18	Room: Lenox
Time: 2-2:50PM	

Title: The NSTA Learning Center--Online Content Building Resources for Teachers of Science Presenters: Ed Rock Description: NSTA's Learning Center (http://learningcenter.nsta.org) provides thousands of standardsaligned science resources and tools 24/7 for teachers. Level/Content: K-8 Interdisciplinary Day: FRI 2/18 Room: Manila Time: 2-2:50PM Title: GYSTC: Teaching Science with Children's Literature Presenters: Lynn Larsen, Steve Rich Description: Come learn strategies and examples for using children's literature to teach science standards. Level/Content: Elementary Interdisciplinary Day: FRI 2/18 Room: Piedmont Time: 2-2:50PM Title: Inquiry Hands on Labs for Physics and Physical Science Presenters: Alfred Porter Description: How do you turn traditional physics classroom into an inquiry based environment without reinventing the wheel. Level/Content: High **Physical Science** Day: FRI 2/18 Room: Singapore Time: 2-2:50PM Title: FERNBANK 6th Grade GPS On The Rocks Presenters: Dr. Bill Witherspoon Description: Lab activities, developed by a Fernbank Science Center geologist for use with the 6th grade GPS, help students connect rock textures to their igneous, sedimentary, or metamorphic origins. Further computer-based activities help them connect rock origins to plate tectonic-driven Earth processes. Level/Content: Middle Earth/Space Science Day: FRI 2/18 Room: Hong Kong Time: 2-2:50PM Title: Folding for Lasting Understanding: Notebook Foldables® in the K-8 Classroom Presenters: Nancy Wisker Description: Recharge your students' interactive notebooks and turn on the motivation factor with Dinah Zike's Foldables®. Discover how to morph student notebooks into dimensional, individualized, and brainsmart tools. Level/Content: K-8 Interdisciplinary Day: FRI 2/18 Room: Williams Time: 2-2:50PM Exhibit Hall Door Prize Give Away & **GSTA District Director Meet and Greet** 

Friday 2/18 3:00-3:50 pm

Friday 2/18	
4:00 pm	
Title: GABIO HANDS ON Science: Reinforce Curriculum with Engaging Activities Presenters: Domonique Lemon	
Description: GABIO: Get your students' HANDS ON the science material to reinforce lessons taught.         Use our healthcare camp activities in the classroom to create a fun and engaging learning environment.         Level/Content:       6-12         Day:       FRI 2/18         Time:       4-4:50PM	
Title: GABIO A 3-week unit of Biotech for Any Biology Class	
Presenters: Amy Naum Description: Learn how to implement a 3-week unit to introduce biology students to the science and business of biotechnology including hand on activities that investigate how biotechnology has impacted research, manufacturing, and diagnostics in today's society. Level/Content: High Day: FRI 2/18 Time: 4-4:50PM	
Title: GABIO CDC Career Paths: Introducing Public Health Science Education	
Presenters: Candace Kirksey Jones, Esther M. Shisoka         Description: This session introduces public health, public health careers, and integrating public health science education into the middle and high school curriculum. We will explore CDC's public health education programs, resources, and activities that promote careers in public health.         Level/Content: 6-12       Interdisciplinary         Day: FRI 2/18       Room: Cairo         Time: 4-4:50PM	
Title: GABIO Bioscience Curriculum Resources for Your Classroom (Panel Discussion)	
Presenters:Tony Beck, Ralph CordellDescription:Need new ideas and resources for teaching Bioscience? A wealth of resources have been developed with federal funding, but searching through the materials and websites may be daunting. Join a panel of experts as they guide you to new resources for elementary, middle and high school science teaching, and highlight their favorite sites and materials to bring to your classroom. Level/Content:K-12Biology (Life Science) Day:FRI 2/18Room:International Ballroom South-Int TowerTime:4-4:50PM	
Title: Rock Roulette	
Presenters: James Morris         Description: How can we make rocks "rock"? If we make the students "be" the rock, then they will have a better understanding of how the rocks flow through the rock cycle.         Level/Content:       6-12         Day:       FRI 2/18         Time:       4-4:50PM	
Title: GEARS Windows in the Atmosphere: Radiation sources, detectors and shields	
Presenters:       Kevin McReynolds         Description:       This hands-on workshop is designed to provide a logical extension of the electromagnetic (EM spectrum) discussions. We will test common materials for properties of transmission or absorption         Level/Content:       6-12         Day:       FRI 2/18         Time:       4-4:50PM	

Title: Formative and Summative Foldables for 4th and 5th		
Presenters: Jamie Lattimore, Catherine Leftwich		
<b>Description:</b> We will provide exciting new methods for assessment so that your teaching can be more		
precisely targeted and differentiated for your student population. We will also provide some summative		
options as well. 4th and 5th grade teachers - you are NOT going to want to miss this one! Level/Content: Elementary General Science		
Day:   FRI 2/18   Room:   Manila		
Time: 4-4:50PM		
Title: Taking Turtles to Your Classroom		
Presenters: Marti Schriver, Karen Chassereau		
Description: Learn how teachers have taken their experiences at the Georgia Sea Turtle Center and		
developed activities you can take back to your classroom.		
Level/Content: K-8 General Science		
Day:     FRI 2/18     Room:     Kennesaw       Time:     4-4:50PM     4-4:50PM		
Title: Educating Students for a Sustainable World		
Presenters: David Messer		
<b>Description:</b> Turn today's global challenges into thought-provoking lessons with hands-on activities that		
explore world population growth, natural resource use, climate change and social justice. Free CD-ROM		
of lesson plans.		
Level/Content: Middle General Science		
Day: FRI 2/18 Room: Techwood		
Time: 4-4:50PM		
Title: Treesures in the Classroom: Cossessing		
Title: Treasures in the Classroom: Geocaching Presenters: Cynthia Wolfe		
<b>Description:</b> Excite your students by turning learning into a game. Sneak in some skills. Geocaching is a		
way to integrate multiple disciplines and just have fun		
Level/Content: 6-12 Interdisciplinary		
Day: FRI 2/18 Room: Edgewood		
Time: 4-4:50PM		
Title: Spectacular Science Fair Fun		
Presenters: Anna Stanfield		
<b>Description:</b> Do you want to learn the secrets of a fantastic science fair project? Then check out the		
Spectacular Science Fair Fun program. You will learn where to find the latest news, rules, and help alon the way.		
Level/Content: Middle Interdisciplinary		
Day: FRI 2/18 Room: Piedmont		
Time: 4-4:50PM		
Title: Igniting Excitement in Science through an Electric Vehicle Program		
Presenters: Rachael Parr, Luis Romo, Tiffany Barnett		
<b>Description:</b> Ignite students excitement for learning by organizing an Electric Vehicle Club!		
Level/Content:     Middle     Interdisciplinary       Day:     FRI 2/18     Room:     Spring		
Day: FRI 2/18 Room: Spring Time: 4-4:50PM		
Title: Optics with Light and Color: A Series of EnLIGHTening Experiments!		
Presenters: Chris Neill, Wendy Delano, Alen Brown		
Description: Experience Light & Color using LED flashlights, filters, lasers and more! Try color mixing,		
view light spectra with diffraction glasses and explore reflection, refraction, and internal reflection with		
lasers and prisms.		
Level/Content: 6-12 Physical Science		
Day: FRI 2/18 Room: Singapore		
Time: 4-4:50PM		

 Title: Succession: The Journey

 Presenters: Carol Potter

 Description: Learn while they play. This fun board game takes students on a journey from bare rock to climax community.

 Level/Content: High
 Biology (Life Science)

 Day: FRI 2/18
 Room: Inman

 Time: 4-4:50PM

# Title: FERNBANK The Zero G Experience Presenters: Dr. Debi Huffman, Nathaniel Haeck Description: Ever wondered what it is like in a Zero Gravity environment? Come see a team that worked with NASA last spring and went to Houston, TX and flew an experiment on the Zero-G Flight. Level/Content: 6-12 Day: FRI 2/18 Time: 4-4:50PM

## Title: A Proactive/Reactive Approach to Helping Students Pass the GHSGT in Science (2011 Version)

 Presenters:
 Bronwyn Hogan, Stephen Beall, Joe Cox

 Description:
 Collecting resources to help your students on the HSGT.

 strategies and materials to increase success on the HSGT.
 Join us as we share our

 Level/Content:
 High

 Day:
 FRI 2/18

 Time:
 4-4:50PM

## 2011 GSTA Awards Banguet

The Georgia Aquarium Ocean Ballroom Dinner by Wolfgang Puck Catering Friday, February 18, 6:00pm-10:00pm

Speaker: Dr. Sharon Boyer Fayette County Schools "The Problems and Possibilities of Letters"

The Georgia Science Teacher Association would like to invite you to attend the Georgia Science Teacher Association Award Celebration at the Georgia Aquarium. Our guest speaker will be Dr. Sharon Boyer. Dr. Boyer holds a B.S. Natural Resources in Environmental Education from Ohio State University, Masters in Education in Science Education from the University of Georgia, and her Doctorate of Education in Educational Leadership from the University of Georgia. She is currently the Coordinator of Science, Elementary Technology, and High School Remediation Programs in Fayette County. Over her educational career, Dr. Boyer has served on the Board of numerous organizations, including the Environmental Education Alliance, Fayette Clean and Beautiful, Georgia Youth for Science and Technology Council, and Southern Preservation Trust, Inc.. She is currently serving on the Board for the Georgia Science Supervisors Association and is the Exhibits Chair for the Georgia Science Teacher Association. Dr. Boyer has been actively involved with the Board of the Georgia Science Teacher Association since 1981. She has served as Director, President, President-Elect, Science Supervisors Representative. District Representative. Dr. Bover has received the Dallas Steward Award from the Georgia Science Teacher Association and the Project WET Facilitator of the Year Award. Sharon Boyer, Ed.D. will be a dynamic speaker at the Georgia Science Teacher Association Award Program at the Georgia Aquarium. You will not want to miss this opportunity to share with the Georgia Science Teacher Association Board as we recognize amazing people who are influencing science education across Georgia.

# Saturday, February 19, 2011 8:30 am

	0.30 am
Title: Biology as a Language	
Presenters: Patricia DuBose, Marty	/ Howard
Description: Many students struggle	e with the scientific language of high school biology. Without a solid
foundation of the language, struggli	ng students experience difficulty with assessments. Explore
	nto a language that students will use and understand.
Level/Content: 6-12	Biology (Life Science)
Day: SAT 2/19	Room: Lenox
<b>Time</b> : 8:30-9:20AM	
Title: The Realities of Life as a So	ientist
Presenters: Becky Bundy, Courtne	v Boehlke
	ntists, recently turned High School science teachers, discuss the
	at they believe students should understand about these career
Level/Content: 6-12	General Science
Day: SAT 2/19	Room: Spring`
<b>Time</b> : 8:30-9:20AM	
Title: Professor Boggs writes and	performs original songs about science!
Presenters: Larry Morris	
	owards the middle grades curriculum, and cover a mix of earth/space,
	se fun, engaging, witty songs not only entertain, but actually teach
	lirectly aligned to GPS. Come Sing-a-long!
Level/Content: Middle	General
<b>Day:</b> SAT 2/19	Room: Montreal
Time: 8:30-9:20AM	
1111e. 0.30-9.20AM	
Title: The Great Energy Debate	
<b>Presenters</b> : Rebecca Lamb, Karen	Reagon
	ry activity, students will research and debate the advantages and
disadvantages of the energy sources	
Level/Content: 6-12	Interdisciplinary
Day: SAT 2/19	Room: Hong Kong
Time: 8:30-9:20AM	ROOM. HONG KONG
1111e. 8.30-9.20AM	
Title: What's Your Air IQ? Activit	
Presenters: Gretchen Gigley, Sara	
•	Program and GA Safe Routes to School will demonstrate how to
	clean air both in and out of the classroom.
Level/Content: K-8	Interdisciplinary
<b>Day:</b> SAT 2/19	Room: Vancouver
Time: 8:30-9:20AM	
Title: Department of Natural Reso	ources programs for teachers
Presenters: Cynthia Wolfe	
Description: Learn about FREE pro	ograms offered by the Georgia Department of Natural Resources that
will excite and enhance your teachin	g
Level/Content: 6-12	Interdisciplinary
Day: SAT 2/19	Room: Vinings
Time: 8:30-9:20AM	U-

Assessments	Title: Differentiating Instruction in Reg & Gifted Classrooms Using Menus and Projects for	
Presenters: Jean Reeves, Anita McWhorter		
	oice in your lessons! Students are given Menus and	
decide how they will produce a product that shows		
their learning and assessment while allowing them		
Level/Content: Middle	Physical Science	
Day: SAT 2/19	Room: Kennesaw	
<b>Time</b> : 8:30-9:20AM		
Title: Using Online Simulations to Improve Con	contuct Understanding in Science	
Presenters: Dr. Trinna McKay	ceptual onderstanding in Science	
	chers take advantage of research proven instructional	
	derstanding in science. Teachers can supplement and	
	f concepts. Students can manipulate key variables,	
and engage in extensive "what-if" experimentation.		
Level/Content: 6-12	Interdisciplinary	
Day: SAT 2/19	Room: Piedmont	
Time: 8:30-9:20AM		
Title: Fueling the Future: Energy Interconnection	ns and Sustainable Choices	
Presenters: Thomas Allison		
Description: Experience hands-on lessons that de		
sources, human choices, economic challenges, and	environmental impacts. Think critically about the	
science behind the headlines. Includes free curricul	um!	
Level/Content: 6-12	General	
Day: SAT 2/19	Room: Techwood	
Time: 8:30-9:20AM		
Title: Why Does The Water Rise? Science and Ir	nquiry	
Presenters: Francis Gardner		
Description: Experience an innovative activity that		
<b>Description:</b> Experience an innovative activity that necessary to any scientific investigation using mate	will introduce students to inquiry techniques rials obtained at the grocery store while demonstrating	
<b>Description:</b> Experience an innovative activity that necessary to any scientific investigation using mate principles achievable by all students.	rials obtained at the grocery store while demonstrating	
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	Saturday 2/19
	9:30 am
Title: Data, Data Everywhere - What	
Presenters: Ginger Harbin, Lisa Alexa	nder
Description: Applicable to all grades- the	his presentation will explore how to interpret data from a variety of
sources and make that knowledge work	t for you and your students.
Level/Content: K-8	Interdisciplinary
Day: SAT 2/19	Room: Lenox
<b>Time</b> : 9:30-10:20AM	
Title: Passing Science Assessments	s with ABC & Techno Textbooks
Presenters: Michelle Gunter	l flande ander a flittene aftere a bittele ander te allege berende t
	I flashcards utilize interactive whiteboards to display and
	m. Participants will receive free digital sample materials.
Level/Content: 6-12	Interdisciplinary
Day: SAT 2/19 Time: 9:30-10:20AM	Room: Vinings
1111 <del>6</del> . 9.30-10.20AW	
Title: Introducing Simple Electrical C	Circuits
Presenters: Scott Thompson	norticipanto will use incorponativo motoriale to construct and
	participants will use inexpensive materials to construct and
Level/Content: 6-12	trical circuits containing batteries and light bulbs.
	Physics Boom: Spring
Day: SAT 2/19 Time: 9:30-10:20AM	Room: Spring
1111e. 9.30-10.20AM	
Title: Academic Exploration of Antaro	ctic Peninsula
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Title: Growing the Outdoor Learning Movement		
Presenters: Karen Garland		
<b>Description:</b> Creating places of educational val	ue that foster creative play, inspire a sense of wonder,	
and encourage learning is a no-risk investment. Connections will be made to the natural world through		
hands-on activities. Resources provided.	Connections will be made to the natural world through	
	Interdiccipliners.	
Level/Content: K-8	Interdisciplinary	
Day: SAT 2/19	Room: Vancouver	
Time: 9:30-11:20AM		
Title: Teaching Academic Vocabulary Using	Dinah Zike's Foldables®	
Presenters: Nancy Wisker		
<b>Description:</b> In this fast-paced, make-and-take session, learn how three-dimensional graphic organizers		
known as Foldables® can help enrich your instruction of, and student retention of, science academic		
vocabulary.		
	Interdiccipliner,	
Level/Content: 6-12	Interdisciplinary	
Day: SAT 2/19	Room: Kennesaw	
Time: 9:30-11:20AM		
Title: Teaching Our Hominin Past in the Cont	text of Climate Climate in Georgia Schools	
Presenters: Dr. Norm Thomson	5	
	in a hands-on workshop using hominid skulls to help	
	volution over the past 6-7 million years. Participants will	
	naterials that compliment the unit - all relevant to the	
GPS.		
Level/Content: 6-12	Biology (Life Science)	
Day: SAT 2/19	Room: Inman	
Time: 9:30AM-11:20PM		
Sat	urday 2/19	
	-	
1	0:30 am	
Title: Taking Advantage of Opportunities in	Science	
Presenters: Michael Mahan		
	announcements from science agencies and national	
organizations.	announcemente nem celence ageneice and haterial	
Level/Content: College	Piology (Life Science)	
	Biology (Life Science) Room: Lenox	
Day: SAT 2/19	Room: Lenox	
Time: 10:30-11:20AM		
Title: Engaging Students in Science Content	through Global Issues & Sustainability	
Presenters: Thomas Allison	0	
	oom using ecological footprint, renewable resources, and	
sustainability audits. Experience standards-based, engaging, hands-on lessons that bring science content to life. Free curriculum!		
	Osserel	
Level/Content: 6-12	General	
Day: SAT 2/19	Room: Techwood	
Time: 10:30-11:20AM		
Title: Hosting a Student-Led Family Science	Night Event	
Presenters: Donna Governor	•	
Description: Come learn some tips and strated	ies for developing a successful student-run family science	
Level/Content: Middle	night at your school.	
	Interdisciplingry	
Day: SAT 2/19	Interdisciplinary	
Time: 10:30-11:20AM		
Time: 10:30-11:20AM	Room: Hong Kong	
Time: 10:30-11:20AM		
Time: 10:30-11:20AM		
Time: 10:30-11:20AM		

Title: Using Inflatables To Enhance Science Instruction Presenters: Joey Nunn Description: Session focuses on using large and small scale inflatables to support science instruction in
most grade levels. Inexpensive methods will be illustrated to promote this highly engaging learning tool. Level/Content: Middle Interdisciplinary
Day: SAT 2/19       Room: International Ballroom South-Int Tower         Time: 10:30-11:20AM       Room: International Ballroom South-Int Tower
Title: Educators Unite: Development of a Professional Learning Community Presenters: Essie Smith, Maher Atteya, Ilse Ricketts, Tanya Wall, Sherri Sewall, Yolanda Dixon, Ruth Small, Carolyn Dupree, Myrna Nicholas
<b>Description:</b> This session will describe the PLC formed between Georgia Perimeter College science faculty and teachers from various DeKalb County elementary schools. They shared content lessons and instructional strategies to promote K-12 student preparation for and interest in majoring in STEM in college.
Level/Content:     Elementary     Interdisciplinary       Day:     SAT 2/19     Room:     Vinings       Time:     10:30-11:20AM     Interdisciplinary
Title: Reptile Wranglers Presenters: Ken Panse, Zack Panse Description: Join us for an engaging look into the lives of snakes, lizards, turtle/tortoises, toads/frogs and
a few giant arthropods. Feel free to interact with the Reptile Wranglers Ken and Zack as they share interesting facts about their critters!
Level/Content:K-12Biology (Life Science)Day:SAT 2/19Room:PiedmontTime:10:30-11:20AMRoom:Piedmont
<b>Title: The Origins of Life from Chemical Inventory</b> <b>Presenters</b> : Lakshmi Anumukonda, Ragan Buckley, Jamila Cola <b>Description:</b> Teachers will have a chance to incorporate thin layer chromatography, a separation technique, to teach Evolution in Biology and Properties of matter in Chemistry to motivate and inspire student learning
Level/Content: HighChemistryDay: SAT 2/19Room: SpringTime: 10:30AM-12:20PM
Title: Case Based Learning on a Time Budget Presenters: Melanie Snow Description: Science classrooms are encouraged to teach using standards, inquiry, real world scenarios,
and differentiated instruction, while engaging students. Case based learning can roll it all into one within the time constraints of your class. Level/Content: 6-12 Interdisciplinary
Day: SAT 2/19     Room: Manila       Time: 10:30AM-12:20PM
Title: Fun for All Ages with Sound and Waves         Presenters: Lila Adair, Garry Loveless         Description: Looking for fun hands-on activities and demos for teaching sound and waves? Come try our best discovery-based teaching ideas. Lesson plans for all grade levels.         Level/Content: 6-12       Physical Science         Day: SAT 2/19       Room: Cairo         Time: 10:30AM-12:20PM

Title: Forms of Energy and Energy Transforma Presenters: Rebecca Lamb, Karen Reagor Description: Confidently teach important science investigate forms of energy: motion, sound, therma energy transformations between them.	concepts with center-based, hands-on activities that
Level/Content: Middle	Physics
Day: SAT 2/19	Room: Singapore
Time: 10:30AM-12:20PM	
	day 2/19 30 am
Title: Butterflies! Engage students, teach GPS, Presenters: Donna Gast, Rachel Small	do real science
<b>Description:</b> Engage students from the first day w MonarchHealth (citizen science), monarch tagging raising butterflies. Lesson plans. Freebies.	GPS activities, tips for inexpensively attracting and
Level/Content: K-8	Biology (Life Science)
Day: SAT 2/19	Room: Vinings
Time: 11:30AM-12:20PM	
Title: Teaching Engineering in the High School	Classroom
Presenters: Linda Patterson	ovide courses in chemical, material, civil, aeronautical,
	d where our challenges have been. We'll provide you
Level/Content: High	Interdisciplinary
Day: SAT 2/19	Room: Hong Kong
Time: 11:30AM-12:20PM	
Title: The Gulf Oil Spill: An Inquiry Based Acti Presenters: Brian Post, Jamila Cola Description: Teachers will participant in inquiry–ba investigate the science behind and efforts to clean Level/Content: Middle Day: SAT 2/19 Time: 11:30AM-12:20PM	ased hands on activity to discuss the causes, and
Title: Hands-On Science	
Presenters: Stephanie Shultz	
<b>Description:</b> Using all process skills, participants with to physical, life and earth science. Participants will <b>Level/Content:</b> Elementary	will be engaged in a variety of activities that are applied leave with a variety of lesson ideas. General Science
Day: SAT 2/19	Room: Montreal
Time: 11:30-1:20PM	
Title: 4-H Green Thumb Garden Club of Putnam Presenters: Lillian Johnston Butterworth, Linda Jo Description: Science concepts are being taught th	orgensen, Keith Fielder
start plants in the greenhouse, grow vegetables to	eat, and create a habitat for butterflies and birds.
Level/Content: K-8	Interdisciplinary
Day: SAT 2/19	Room: Vancouver
Time: 11:30-1:20PM	

Saturday 2/19		
Title: ELLs in the Science Classroom	12:30 pm	
Presenters: Penni Johnson, Angela Reed		
	strate strategies used in an ELL inclusion on-level Biology	
course.		
Level/Content: High	Biology (Life Science) <b>Room:</b> Cairo	
Day: SAT 2/19 Time: 12:30-1:20PM	Room. Cano	
Title: Professor Boggs writes and perfor	ms original songs about science!	
Presenters: Larry Morris		
	the middle grades curriculum, and cover a mix of earth/space,	
	engaging, witty songs not only entertain, but actually teach	
and motivate core science content directly a Level/Content: Middle	General	
Day: SAT 2/19	Room: Singapore	
Time: 12:30-1:20PM		
Title: Cleasereeme Without Walle: Wetler	ada 8 Earact 8 Crittora, Obl Mul	
Title: Classrooms Without Walls: Wetlan Presenters: Randall Spaid, Sumitra Hima		
	hree outdoor classroom curriculum modules 1300 7th grade	
	r, forest and wetland ecosystems with digital cameras and	
probeware.	, , , , , , , , , , , , , , , , , , ,	
Level/Content: Middle	Biology (Life Science)	
Day: SAT 2/19	Room: Vinings	
Time: 12:30-1:20PM		
Title: From the Sun to Pluto and Beyond	d	
Presenters: Nancy Sills		
	es, lesson plan will be presented as we travel from the Sun to	
the outer reaches of Our Solar System. Fro		
Level/Content: Middle Day: SAT 2/19	Earth/Space Science Room: Lenox	
<b>Time</b> : 12:30-1:20PM	Room. Lenox	
Title: Once Upon a Science Book: Deve	lop successful science readers!	
Presenters: Jodi Wheeler-Toppen		
	s' "Once Upon a Life Science Book" show you how to create	
classes!	he same time. Take home a complete lesson to use with your	
Level/Content: Middle	General Science	
Day: SAT 2/19	Room: Hong Kong	
Time: 12:30-1:20PM		
Title: Chemistry and the Atom: Fun with		
<b>Presenters:</b> Chris Neill, Wendy Delano, A	s and activities that give students with different learning styles	
opportunities to explore and grasp atomic s		
Level/Content: 6-12	General Science	
Day: SAT 2/19	Room: Spring`	
Time: 12:30-1:20PM		

Title: How can elementary science activities be more inquiry-based?		
Presenters: Glenda Ogletree		
<b>Description:</b> Participate in changing ordinary science activities into inquiry-based experiences for		
elementary students using a learning cycle format. Level/Content: Elementary	General Science	
Day: SAT 2/19	Room: Manila	
Time: 12:30-2:20PM		
Saturo	day 2/19	
	0 pm	
Title: Plate Tectonics	-	
Presenters: Carolina Teaching Partner		
	to explore shield volcanoes and investigate viscosity,	
temperature, and speed of lava flow. We will also e		
Level/Content: Middle	Earth/Space Science	
Day: SAT 2/19	Room: Singapore	
Time: 1:30-2:20PM		
Title: Improving Students' Scientific Discourse	Through Academic Language Learning	
Presenters: Dr. Sharan R. Crim	rniough Academic Language Learning	
<b>Description:</b> This symposium will focus on utilizing	science teaching strategies to improve English	
Language Learners' scientific discourse by connecti		
academic language learning.		
Level/Content: 6-12	Interdisciplinary	
Day: SAT 2/19	Room: Cairo	
Time: 1:30-2:20PM		
Title: Elementary Share-a-thon		
Presenters: Tracey Rivers		
<b>Description:</b> Join your colleagues to share their Be	st and Brightest Elementary Science Instructional	
Strategies.	Interdiscipling pro	
Level/Content: Elementary Day: SAT 2/19	Interdisciplinary	
Time: 1:30-2:20PM	Room: Hong Kong	
1111e. 1.30-2.20FW		
Title: Middle School Share-a-thon		
Presenters: Jan Rebel		
	st and Brightest Middle School Science Instructional	
Strategies.	st and Englicest Middle Concer Colonee methodional	
Level/Content: Middle	Interdisciplinary	
Day: SAT 2/19	Room: Vinings	
Time: 1:30-2:20PM		
Title: High School Share-a-thon		
Presenters: Dr. Warren Barnard		
Description: Join your colleagues to share their Be	st and Brightest High School Science Instructional	
Strategies.		
Level/Content: High	Interdisciplinary	
Day: SAT 2/19	Room: Vancouver	
Time: 1:30-2:20PM		

 Title: Physics of Fluids

 Presenters: Jaclyn Murray

 Description: Revamp your forces curriculum by incorporating the buoyant force. Labs/activities will be shared.

 Level/Content: High
 Physics

 Day: SAT 2/19
 Room: Spring

 Time: 1:30-2:20PM

#### Title: Science Literacy in the 21st Century Presenters: Paula Fowler, Christopher Zornes

**Description:** The NGHS Physics students are improving their literacy skills and science knowledge with: peer-led presentations through electronic journaling as a replacement of lab notebooks, and engineering journals that document the design, construction, testing, design changes, and principles of physics associated with their mousetrap cars.

Level/Content: High Day: SAT 2/19 Time: 1:30-2:20PM Physics Room: Lenox

#### Saturday 2/19 2:30 pm

Title: Using Interactive Notebooks to in	tegrate across the curriculum
Presenters: Janice Belcher, Sally Creel	
Description: Make your student notebook	s come alive! Interactive notebooks promote organization,
engage students, and encourage students working portfolio, and demonstrate critical	to process information, combine words and visuals, become a thinking.
Level/Content: K-8	Interdisciplinary
Day: SAT 2/19	Room: Cairo
Time: 2:30-3:20PM	
Title: Integrating Science, Math and Ag Presenters: Andy Felt, Cindy Jones	riculture; The STEM Program in Madison County
	w Madison County is loveraging technology to fulfill Title IID

**Description:** This session will focus on how Madison County is leveraging technology to fulfill Title IID STEM grant outcomes. These outcomes include creating interdisciplinary projects, teaching 21<sup>st</sup> century skills, promoting long-term economic growth, community partnerships, and stimulating interest in STEM careers.

Level/Content: 6-12 Day: SAT 2/19 Time: 2:30-3:20PM Interdisciplinary **Room:** Hong Kong

## **GSTA Exhibitors**

Booth#	Exhibitor	Website
806	AIMS Education Foundation	www.aimsedu.org
907	American 3B Scientific	www.3bscientific.com
1104	American Book Company	www.americanbookcompany.com
404	Blue Ridge Outdoor Education Center	www.blueridgeoec.com
801-802	Capital Microscope Services, Inc.	www.microscopesandmore.com, www.swift-
905-906	Carolina Biological Supply Co.	www.carolina.com
200	Centers for Disease Control and Prevention	www.cdc.gov/EXCITE
201	Charlie Elliott Wildlife Center/GA-DNR	www.georgiawildlife.com
606	Chattahoochee Nature Center	www.chattnaturecenter.org
503	Cochran Mill Nature Center	www.cochranmillnaturecenter.org
304	Conserve Georgia / Dept of Natural Resources	www.conservegeorgia.org
300/400	CPO Science	www.cposcience.com
401-402	Delta Education	www.deltaeducation.schoolspecialt y.com
105-106	Dinah-Might Adventures, LP	www.dinah.com
1205	Elachee Nature Science Center	www.elachee.org
407	Environmental Education Alliance of Georgia	www.eealliance.org
1003	ETA/Cuisenaire	www.etacuisenaire.com
804	ExploreLearning	www.explorelearning.com
805	Fisher Science Education	www.fisheredu.com
704	Flinn Scientific, Inc.	www.flinnsci.com
301-302	Frey Scientific	www.freyscientific.com
505	Georgia 4-H Environmental Education	www.georgia4h.org/ee
405	Georgia Aquarium	www.georgiaaquarium.org
100	Georgia Bioscience Technology Institute	www.gabioscience.org
1004	Georgia Farm Bureau Fed/Ag in the Classroom	www.gfb.org
1107	Georgia Mineral Society	www.gamineral.org
604	Georgia Museum of Natural History	http://naturalhistory.uga.edu
605	Georgia Project Learning Tree	www.georgiaplt.org
1007	Georgia Southern Museum Outreach Programs	http://ceps.georgiasouthern.edu/mu seum/education/Outreach.html

Booth#	Exhibitor	Website	
303	Georgia Youth Science & Technology Centers, Inc.	www.gystc.org	
406	Georgians Experience Astronomy Research in Schools	http://cheller.phy.georgiasouthern.e du/	
1005	Glencoe/McGraw-Hill	www.glencoe.com	
902	Grand Classroom	www.grandclassroom.com	
807	Great Source Rigby Steck-Vaughn	www.greatsource.com	
500/600	GSTA Store	www.georgiascienceteacher.org	
1105	HolbrookTravel	www.holbrooktravel.com	
803	It's About Time	www.its-about-time.com	
602-603	Lab-Aids, Inc.	www.lab-aids.com	
1207	Lasting Impressions	www.lastingimpressionsjewelry.co	
107	Lesley University	www.lesley.edu/georgia	
203	Linking the Language	www.linkingthelanguage.org	
1106	Little Scientists	www.little-scientists.com	
1103	McWane Science Center	www.mcwane.org	
703	Nasco	www.enasco.com	
501-502	National Geographic School Publishing & Dodge Learning Resources	www.dodgelearning.com	
705	National Nanotechnology Infrastructure Network	www.mirc.gatech.edu, www.nnin.org	
904	National Weather Service	www.weather.gov/atlanta	
706-707	Online Science Mall	www.onlinescience.com	
1001	PASCO scientific	www.pasco.com	
1102	Pearson Curriculum Group	www.pearsonschool.com	
1101	Pearson Curriculum Group - Prentice Hall	www.pearsonschool.com	
701	Petra, Inc.	www.nsta.org, www.tcmpub.com, www.coachbooks.com	
1006	Qwizdom, Inc.	www.qwizdom.com	
903	Sargent Welch - Science Kit - Wards Natural Science	www.sargentwelch.com www.sciencekit.com	
206-7/306-7	Science First/Starlab	www.sciencefirst.com, www.starlab.com	
305	SECME, Inc.	www.secme.org	
1002	Space Camp/Aviation Challenge	www.spacecamp.com	
506	Stone Mountain Memorial Association	www.stonemountainpark.org	
901	Sundance/Newbridge	www.sundancepub.com, www.newbridgeonline.com	

Booth#	Exhibitor	Website
601	Texas Instruments	www.education.ti.com
507	The Clean Air Campaign, Inc.	www.cleanaircampaign.org
702	Triumph Learning - Coach	www.triumphlearning.com
1205	U.S. EPA SunWise Program	www.epa.gov/sunwise
204-205	University of Georgia - Entomology Dept & Plant Pathology Dept	http://plantpath.caes.uga.edu
403	University of Georgia - Warnell School	www.warnell.uga.edu
504	University of Georgia Marine Extension Service	www.marex.uga.edu/aquarium
102-104	Valdosta State University Teacher Quality Grant	www.valdosta.edu/biology/jones.sh tml
202	Walden University	www.waldenu.edu
607	Zoo Atlanta	www.zooatlanta.org

## Personal Conference Schedule

## Thursday Planner

Time	Room	Session
8:30		Visit the Exhibit Hall
9:30		
10:30		General Session: Steve Rich - Featured Speaker – International Ballroom
12:30		
1:30		
2:30		
3:30		
4:30		
6:30		"Tastin' Atlanta" with GSTA Board of Directors

#### Friday Planner

Time	Room	Session
8:00		
9:00		
10:00		
11:00		
12:00		Lunch and Learns and visit Exhibit Hall
1:00		
2:00		
3:00		Exhibit Hall Door Prizes and GSTA District Director Meet and Greet
4:00		
7:00		Awards Banquet Georgia Aquarium *Tickets Required

### Saturday Planner

Time	Room	Session
8:30		
9:30		
10:30		
11:30		
12:30		
1:30		
2:30		

