



46TH ANNUAL

FALL
CONFERENCE

OCTOBER 21-23, 2010

GOLDEN ISLES CAREER ACADEMY
BRUNSWICK, GA

ILLUMINATING THE
TE OF STEM

Calendar of Events

February 5, 2011
CTEA Governor's Honors Interview
McDonough - Dutchtown HS

March 10 – 12, 2011
49th Annual TSA State Conference
Classic Center – Athens

March 24 -26, 2011
ITEEA Conference
Minneapolis, MN

June 21 – 25, 2011
National TSA Conference
Dallas, TX

July 2011
GACTE Conference
Cobb Galleria Center, Atlanta, GA

October 2011
GETEA Fall Conference
TBA



Sponsored in cooperation with
The Georgia Engineering and Technology
Education Association

The Georgia Department of Education, Career,
Technical and Agricultural Education
Engineering and Technology Division

The Georgia engineering and Technology Education
Affiliate of the Georgia Association of Career
Technical Education

The CTAE Resource Network

The Georgia Technology Student Association

Georgia Department of Education Personnel
Mr. Brad Bryant, State Superintendent of Schools

Dr. Martha Reichrath, Deputy State Superintendent for
Standards, Instruction, and Assessment

Thomas A. Wilson, Associate Superintendent,
Standards Based Learning

Ronald G. Barker, Program Specialist,
Engineering and Technology

"It is the policy of the Georgia Engineering and Technology Education Association not to discriminate on the basis of race, color, gender, age, religion, national origin, handicap, disability, or veteran status in its education programs or activities."

Conference Agenda

Thursday, October 22

9:00AM – 5:00PM

Pre-Conference Workshops

Integrating TSA into the Engineering and Technology Curriculum.
Green Classroom: How to create a paperless classroom for free
Program Certification

Friday

9:00AM - 12:00PM

Pre-Conference Workshops

9:00AM & 10:30PM

Industrial Tours

Tour Information

Brunswick Port Authority

The Port of Brunswick has gained recognition as one of the most productive ports on the East Coast for handling automobiles, heavy equipment and machinery, wood pulp, liner board, paper products, wheat, corn, soybeans, animal feed, gypsum, limestone, and perlite.

Gulfstream Aerospace Corporation

A wholly owned subsidiary of General Dynamics (NYSE: GD), designs, develops, manufactures, markets, services and supports the world's most technologically advanced business-jet aircraft. Gulfstream has produced some 1,800 aircraft for customers around the world since 1958.

Georgia Pacific Cellulose

GP Cellulose companies operate state-of-the-art pulp mills. The Brunswick mill, which has been in operation since 1937, has the capability to produce over 800,000 tonnes of cellulose each year. Additionally, it is the largest single-site fluff production facility in the world.

King & Prince Seafood

The tour will consist of an overview of our production facility, where we bread and batter frozen seafood raw materials and return them to a frozen state, package, palletize, and warehouse for distribution. We have 6 different production lines here, approximately 300 employees, and our supporting departments include maintenance, quality assurance, logistics, human resources, planning. (10:30 Time Slot)

Area Chairpersons

Area 9

Gordon Sindersine

Mary Persons High School

300 Montpelier Avenue
Forsyth, GA 31029
School Fax: 478-994-7065
Lab Phone: 478-994-2812 ext.5039
sindersinec@monroe.k12.ga.us

Area 10 – OPEN

Area 11

Arthur Workman

Terrell Middle High School

201 Greenwave Blvd.
Dawson, GA 39842
School Phone: 229-995-2544
School Fax: 229-995-4523
aworkman@mail.tcgreenwave.net

Area 12

Roland Williams

Bonaire Middle School

125 Highway 96 East
Bonaire, GA 31005
School Fax: 478-929-6245
Lab Phone: 478-929-6235 ext-52557
roland.williams@hcbe.net

Area 13

Russ Hillman

Effingham Co. High School

1589 Highway 119 South
Springfield, GA 31329
School Phone: 912-754-6404
School Fax: 912-754-6893
rhillman@effingham.k12.ga.us

Area 14

Donald Morgan

Brooks County High School

1081 Barwick Road
Quitman, GA 31643
School Fax: 229-262-7049
Lab Phone: 229-263-8923 ext. 6019
dmorgan@brooks.k12.ga.us

Area 15

David Pridgen

Irwin County High School

149 Chieftain Circle
Ocilla, GA 31774
229-468-9421
dpridgen@irwin.k12.ga.us

Area 16

Donna Davis

Coffee County Freshman Campus

1020 South Gaskin Avenue
Douglas, GA 31533
912-384-1342
donnaddavis@coffee.k12.ga.us

Area Chairpersons

Area 1

Katherine Gerbis
Woodland High School
800 Old Alabama Road
Cartersville, GA 30120
Lab Phone: 770-606-5870
katherine.gerbis@bartow.k12.ga.us

Area 2

David Johnson
West Forsyth High School
4155 Drew Road
Cumming, GA 30040
School Phone: 770-888-3470
School Fax: 770-888-3471
djohnson@forsyth.k12.ga.us

Area 3

Ed Clawson
Autery Mill Middle School
4110 Old Alabama Road
Johns Creek, GA 30022
Phone: 770-521-7622
clawson@fultonschool.org

Area 4 MS

Camelia Calvert
Shiloh Middle School
4285 Shiloh Road
Snellville, GA 30039
Lab Phone: 770-582-7564
jenelle_smith@gwinnett.k12.ga.us

Area 4 HS

Jenelle Smith
Norcross High School
5300 Spalding Drive
Norcross, GA 30093
Lab Phone: 770-582-7564
jenelle_smith@gwinnett.k12.ga.us

Area 5

Wayne Baxter
Madison County Middle School
3215 Hwy. 172
Comer, GA 30629
Lab phone: 706-783-2400 ext1233
School Fax: 706-783-4390
wbaxter@madison.k12.ga.us

Area 6

Blaire Booth
East Coweta Middle School
6291 East Highway 16
Senoia, GA 30276
School Phone: 770-599-6607
blaire.booth@cowetaschools.net

Area 7

Paul Camick
Dekalb County School System
3770 North Decatur Road
Decatur, GA 30032
Phone: 404-604-5102
Fax: 678-676-0316
pwc0151@fc.dekalb.k12.ga.us

Area 8

Roger Ivey
Rockdale County Public Schools
1064 Culpepper Drive
Conyers, GA 30094
Phone: 770-388-5721
Fax: 770-388-5722
rivey@rockdale.k12.ga.us

12:00PM-1:30PM

Lunch

On Your Own

1:30PM - 3:00PM

General Session ~ Conference Room 115

Welcome
Update from the State Department of Education,
Ron Barker
MATE ROV, Cathy Sakas

3:15PM - 4:15PM

Concurrent Interest Sessions

Room: 434

Middle School Career Lesson

Jason Reagin, Southwest Middle School (warren.reagin@sccps.com)
Using the Georgia Performance Standards to create a unit for Careers and producing promotional materials about careers .

Room:404

Taking Automation Education to the next level with RAMP – Remote Automation Management Project

Chris Estes, Moultrie Technical College (cestes@moultrietech.edu)
Students in the Engineering or Manufacturing Pathways may qualify to be in the RAMP Project. This would allow you to earn college credit in your final two years in high school. While there are several excellent examples of outreach projects using computer-based instructional technology between today's community and/or technical colleges and their secondary constituents, the RAMP is unique in that it is a "real-time", laboratory-based, interactive platform. High school students and their teachers have direct access to post-secondary mentors for collaborative learning in advanced technical domains. Come and see this program Live and in Action with students interacting with Moultrie Technical College instructor.

Room: 435

Affordable STEM Resources for your Classroom

Mark Jones, Georgia Educational Solutions (mjones@ljcreate.com)
We will provide a look at LJ Create's latest STEM resources, including new two new Green Technologies packs. We will investigate a quick range of Science, Technology, Engineering, and Math lessons, discuss the benefits of a Managed (purchased) vs. Virtual Delivery environments, and take a look at new hands-on, project-based activities. I'll also cover all pricing; installation, training, and on-going PD support options.

**Room: 440
Web 2.0**

Katherine Gerbis, Woodland High School (katherine.gerbis@bartow.k12.ga.us)
Why have your students do another boring PowerPoint to present their findings. There are plenty of FREE web based applications that can make their presentations fun and even interactive. Learn about Glogster: Interactive Poster, Animoto: Movie making software, Prezi: Presentation software and more. Take your class out of the boring and expensive Microsoft realm into the Interactive and exciting realm of Web 2.0.

**Room 350
Digital Video – from tape decks to codecs**

Kevin Pullen, Golden Isles Career Academy (Kevin.Pullen@glynn.k12.ga.us)
A survey on the recent developments in digital video technology. The various analog video tape formats gave way to the emergence of digital hard media options including digital tapes, VDC and DVDs. The latest trends feature equipment, processes and products that are longer hardware or hard copy based, but completely “soft” in format, function and end user access.

Room 437
Kristie Brown, Lego Education (kbrown@legoeducation.us)
The LEGO® MINDSTORMS® NXT Robotic platform is the ideal solution for teaching STEM robotics at all grade levels. With LEGO®, there are no boundaries. From a robotic arm, to snakes and underwater rovs, you can do anything with LEGO®. The options for programming, expansion hardware, and sensors that are available for the NXT will provide your students with maximum flexibility and creativity. This workshop will improve participants’ understanding of STEM, the role that science and math play in engineering and robotics, and how you can use robots to make these interdisciplinary connections for your students. This is a great session for newcomers to Mindstorms® NXT robotics, as well as veteran NXT teachers, looking to see “What’s next”

4:30PM - 5:30PM

Concurrent Interest Sessions

**Room 434
Technical Drafting with a Wireless Mobi Tablet**

Lindsay Longstreth, Snellville Middle School (Lindsay_longstreth@Gwinnett.k12.ga.us)
A new approach to teaching orthographic projection. Using a combination of physical models and a wireless Mobi tablet, take your technical drafting lectures to a whole new level. With real-time drawing on screen, your students will be able to see the 3D object and creation of the 2D projections simultaneously.

**Room 405
The New VEX Round Up Competition**

Patrick Gunter, Golden Isles Career Academy (pgunter@glynn.k12.ga.us)
The new VEX Round - Up Arena will be set-up and in operation for your viewing. The two high school team captains will be running live one on one competitions, so team advisors can see first hand various scoring strategies in the competition. Learn methods of programming the 20 second autonomous run of the competition.

Sustaining Members

Level 6

Amitrace

Bruce Ellsworth
1110 Satellite Blvd.
Suwanee, GA 30024
770.263.9190
sales@amitrace.com
www.amitrace.com

Georgia Technology Student Association

Terri Hancock Ron Barker
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www.gatsa.org

Career Training Aids

Barbara Stafford
PO Box 888848
Dunwoody, GA 30356
404.310.2634
Bstafford@CareerTrainingAids.com
www.careertrainingaids.com

Paxton/Patterson

Robert Leetun
7523 S. Sayre Ave.
Chicago, IL 60638
708.594.7270
Robert@paxpat.com
www.paxtonpatterson.com

Georgia Educational Systems

Mark Jones
6246 Rosecommon Dr.
Norcross, GA 30092
678.488.4954
mjilga@gmail.com
www.gaedsolutions.com

Technical Training

John Holt
1525 Little New York Road
Whitesburg, GA 30185
770.214.5500
john@ttaweb.com
www.ttaweb.com

Sustaining Members

Level 4

Applied Software

Jody Brookshire & Giles Brown
2801 Buford Highway, Suite 100
Atlanta, GA 30329
404.564.1878
jodyb@asti.com
www.asti.com

Learning Labs

David Richardson Sheldon Richardson Dan Scweikert
PO Box 1419
Calhoun, Ga 30703
1.800.334.4943
dan@LLi.com
www.LLi.com

Lego Education

Kristie Brown
PO Box 1707
Pittsburg, KS 66762
1.800.979.5531
kbrown@legoeducation.us
www.legoeducation.us

Level 5

Goodheart Wilcox Publisher

Luke Callaway, Georgia Sales & Marketing
Goodheart-Willcox Publisher,
18604 West Creek Drive, Tinley Park, IL 60477
877.633.0934
lcallaway@g-w.com
www.g-w.com

Room: 435

Affordable STEM Resources for your Classroom

Mark Jones, Georgia Educational Solutions (mjones@ljcreate.com)

We will provide a look at LJ Create's latest STEM resources, including Green Technologies packs. We will investigate a quick range of Science, Technology, Engineering, and Math lessons, discuss the benefits of a Managed (purchased) vs. Virtual Delivery environments, and take a look at new hands-on, project-based activities. I'll also cover all pricing; installation, training, and on-going PD support options.

Room: 440

Engineering Pathway– Beginning to the End

Tim Schmitt, Arabia Mountain HS (TIMOTHY_M_SCHMITT@fc.dekalb.k12.ga.us)

Participants in this session will hear how nationally recognized curriculum frameworks are used throughout the courses in the Engineering Pathway. Engineering the Future, Engineering by Design, and the Robotics Engineering Curriculum (REC) will be discussed. Participants will participate in a small hands-on activity and have plenty of time to discuss how these frameworks can fit into their school.

Room: 437

Capacitor Project

Ron Pajor, Floyd County Schools College and Career Academy (rpajor@floydboe.net)

We will have a brief introduction about electrical charges static electricity and capacitors. After reviewing this information we will build a working capacitor from household materials.

Saturday, October 24

8:00AM - 8:45AM Concurrent Interest Sessions

Room 437

Creating Electronic Games using GameMaker

Roland Williams, Bonaire Middle School (ROLAND.WILLIAMS@hcbe.net)

Want to teach your middle school students engineering and technology with a curriculum they can relate to? Teach your students electronic game design using GameMaker. Come find out how easy GameMaker (a free program) is to use and receive a 9 week curriculum you can use in your class that will keep your students engaged.

Room 435

Free Resources in the Engineering and Technology Education Classroom

John Cribb, Atkinson County High School (jcribb@atkinson.k12.ga.us)

In this session, teachers will learn about free resources and software that can be used in grades 6-12 to enhance their existing activities. These free resources include gaming software, 3D design software, classroom management tools, digital audio software, collaboration software, and much more. DVD's containing the links and other materials will be handed out.

Room 405

VEX Robotics Competition– Round Up

Sheldon Richardson, Learning Labs, Inc (sheldon.richardson@lli.com)

We will be presenting information on this year's VEX Competition- Round Up. In addition we will provide information on the new cortex Vex controller and the latest addition of Easy C.

Room 440

Integrating TSA Leadership Skills into the Engineering and Technology Education Classroom

Angie Quarles, Pickens County High School (angelaquarles@pickens.k12.ga.us)

It's one of our Georgia Performance Standards... but how in the world do you incorporate the development of TSA leadership skills into an Engineering and Technology Education Classroom? Allow your students to receive recognition on the local, state, and even national levels while demonstrating leadership in your lab.

Room 434

Virtual Worlds and education

Rodney Ragsdale, Coffee High School, (Rodney.ragsdale@coffee.k12.ga.us)

Virtual worlds provide a unique, immersive educational experience for students. This presentation will show many of the educational features of the most developed virtual world communities (Second Life) and will provide information on how to introduce them to some of your students.

Past Conference Locations

- 1986 Columbus Technical College – Columbus, GA
- 1987 Augusta, GA
- 1988 Chamblee High School – Chamblee, GA
- 1989 Colquitt County High School – Moultrie, GA
- 1990 University of Georgia – Athens, GA
- 1991 Valdosta Jr. High School – Valdosta, GA
- 1992 Mt. Zion High School – Jonesboro, GA
- 1993 Rome High School – Rome, GA
- 1994 Georgia Southern University – Statesboro, GA
- 1995 Pointe South Middle School – Jonesboro, GA
- 1996 Lowndes High School – Valdosta, GA
- 1997 Thomson High School – Thomson, GA
- 1998 Carrollton High School – Carrollton, GA
- 1999 Collins Hill High School – Suwanee, GA
- 2000 Georgia Southern University – Statesboro, GA
- 2001 University of Georgia – Athens, GA
- 2002 Central Educational Center – Newnan, GA
- 2003 Thomson High School – Thomson, GA
- 2004 Atkinson County High School – Pearson, GA
- 2005 Johnson High School – Savannah, GA
- 2006 Creekland Middle School – Lawrenceville, GA
- 2007 Rockdale Career Academy – Conyers, GA
- 2008 Rockdale Career Academy – Conyers, GA
- 2009 Pickens County Middle School – Jasper, GA

Past Presidents

Georgia Industrial Arts Association

1932Paul Stanley Woodward*	1961-62Wiley Dill
1933 Stanley Hastings*	1962-63 Carl Smiley
1934 C. E. Townsend*	1963-64 Samuel L. Powell, Jr.
1935 John Lytjen	1964-65 Norman Cooksey
1936 Glen Shaeffer*	1965-66 Carol Coons
1937 Eli White*	1966-67 Thomas G. Latimer
1938 G. J. Geisler	1967-68 Gen. Eli White*
1939 G. J. Geisler	1968-69 James W. Bray
1940Records incomplete	1969-70 Tom Coeuy
1941 John Lytjen	1970-71 Bobby Muggridge
1942-46Records incomplete	1971-72Bob House
1947Dr. Ivan Hostetler*	1972-73 Russell Hardin
1947-48Dr. Ivan Hostetler*	1973-74 Edward Wilkiwski
1948-49 L. M. Burke*	1974-75 Berkley Ruiz
1949-50 L. M. Burke*	1975-76 Coleman Peacock
1950-51George Mullins	1976-77 Sherman Hall
1951-52 E. A. Wolf	1977-78 Robert Stewart
1952-53Robert Waters*	1978-79 Harold Quinn *
1953-54Melvin Davis*	1979-80 Bill R. Page
1954-55Raymond Ginn, Jr.*	1980-81 Thomas Pitchford*
1955-56 John Maddox*	1981-82 Dennis Buchanan
1956-57 G. J. Geisler	1982-83 John Kirby
1957-58 G. J. Geisler	1983-84 Dr. Michael Bachler
1958-59 John F. Clontz*	1984-85 Daniel J. Schweickert
1959-60Thomas E. Poe	1985-86 Daniel J. Schweickert
1960-61 Don Whaley	1986-87 Robert B. Allen, Sr.

Georgia Industrial Technology Education Association

1987-88David Stewart	1997-98Roger Jessup
1988-89 Stirling Shippey	1998-99 Phil Sisk
1989-90 Bobby Riley	1999-2000 Eddy Nelson
1990-91 Mike Murrey	2000-01 Angela Hughes
1991-92 Rick Moore	2001-02 Rick Moore
1992-94 Roger T. Ivey	2002-03 Billy Millican
1994-95 Scott Brown	2003-04 Ozzie Parrish
1995-96 William Hicks	2004-05 Willie Haynes, Jr.
1996-97 Steve Price	2005-06 John Cribb

Georgia Engineering & Technology Education Association

2006-07 Robert Kraushaar	2009-2010 Tim Schmitt
2007-09 Eddy Nelson	

Room 403

Georgia's Engineering and Technology Education Program Certification

Pete Brannan, Arabia Mountain High School
(William_I_brannan@fc.dekalb.k12.ga.us)

Now sponsored by the Society of American Military Engineers Atlanta Post, your receipt of extended day funding may soon be tied to your completion of Georgia's Engineering & Technology Education program certification process. Successful completion of this process validates your program and acknowledges your meeting 72 specific criteria through its required documentation. In the environment of accountability in which we operate, this is one of the best ways for you to verify that you and your school are a quality program. Whether you have done it in the past or may consider it in the future, get an overview from a three-time program certification completer.

8:55AM - 9:40AM Concurrent Interest Sessions

Room 437

Introduction to Electronics Technology for Middle School

Sam Beauford, Oak Hill Middle School (Samuel.beauford@baldwin.k12.ga.us)

The purpose of this presentation is to provide instructors with a broad framework in which to introduce middle school student to electronics concepts. Instructors are encouraged to feel free to make any necessary adjustments. This information is intended to first serve as a resource for the instructor after which the instructor can modify the information for student use.

Room 435

Your Students can be Shinning Stars

Inga Cashion, Bryan County High School (icashion@bryan.k12.ga.us)

Building a successful Broadcast Communications course takes hard work and time management skills. Learn how to involve your community and school in a successful Broadcast Communications pathway. This session will include examples of student produced projects from a weekly news broadcast and information about starting your own awards ceremony to reward your students for their hard work.

Room 440

Engineering the Future: A Full Classroom Model!

Tim Schmitt, Arabia Mountain HS (TIMOTHY_M_SCHMITT@fc.dekalb.k12.ga.us)

Christie Schmitt, Arabia Mountain HS (Christie_e_schmitt@fc.dekalb.k12.ga.us)

Participants in this session will see first-hand how the Engineering the Future curriculum can be used as the model for the Foundations of Engineering course. Participants will see student work from different ETF projects, participate in a hands-on ETF activity, and will have access to a ton of teacher-generated support material to help with content delivery.

Room 434

Pass it On! Training Tomorrow's Leaders

Tim Cone, Woodville Tompkins Technical & Career Inst. (timothy.cone@sccpss.com)
Jason Bedgood, Eagles Landing High School (Michael.bedgood@henry.k12.ga.us)
The future of our field depends on us. We often encourage our students to pursue careers as engineers, architects, and computer technicians, but what about encouraging our students to become technology teachers? Lead by two recent college graduates, our session will offer information about what colleges offer technology education degrees, lesson plans/presentations you can use with your class, and additional resources for teaching your students about a career as a technology education teacher

Room 405

The Creative STEM Workshop

Patrick Gunter, Golden Isles Career Academy (pgunter@glynn.k12.ga.us)
This presentation will give the methods to set up a creative innovative way to get students involved in a STEM Education Workshop. Leave this presentation with a plan to change your community by implementing a STEM Education Project that launches students into rewarding STEM Related Careers. You will get several tutorial presentations that direct students in the following programs: Programming Mindstorm LEGO Robotics; MIT Scratch Software Program; Field Robotics Center Carnegie Mellon University Alice 2.2 software; and VEX Easy C Programming.

Room 403

Electratorn

Brent Hinkel, Habersham (bhinkel@habersham.k12.ga.us)
Don Morgan, Brooks County High School (dmorgan@brooks.k12.ga.us)
Georgia Electratorn is a statewide organization of participating high school TSA chapters. The purpose of Electratorn is electric vehicles as plausible transportation sources. Come find out what it's about.

9:45AM - 12:30PM **Advanced Engineering and Technology Forum**
Lobby

11:00-12:00 **Tech Fest**
Lobby

12:30PM - 2:30PM **Awards Luncheon**
"Embracing Change and Leading the way in STEM"
Introduction of Keynote Speaker: Blaire Booth
Keynote Speaker James Boe
Valley City State University, Valley City, ND

Programs of Excellence

- 1989 *Al Money ~ Forsyth Central High School*
- 1990 *Leonard Lemay ~ H. V. Jenkins High School*
- 1991 *Randy Ware ~ Dalton Jr. High School*
- 1993 *Joe Catania ~ Buford Middle School*
Roger Jessup ~ Buford High School
- 1994 *Ted Hitchens ~ Rossville Middle School*
John Kirby ~ Mt. Zion High School
- 1995 *Roger Ivey ~ Lilburn Middle School*
Leonard Lemay ~ H. V. Jenkins High School
- 1996 *Steve Price ~ Pointe South Middle School*
Greg Martin ~ Swainsboro High School
- 1997 *Tracy Moore ~ Clifton Elementary School*
Eddy Nelson ~ Arnall Middle School
C. L. Daughtry ~ Jenkins County High School
- 1998 *Chris McPhail ~ Warner Robbins Middle School*
Jeff Johnson ~ Burke County High School
- 1999 *Rick Moore ~ Stephenson High School*
- 2000 *Allen Gossett ~ Coosa High School*
- 2001 *April Mock ~ Screven County Elementary School*
Angela Hughes ~ Morrow High School
- 2002 *Chaz Kachmar ~ South Gwinnett High School*
- 2004 *Glynn Burrows ~ Shiloh Middle School*
Susan Presley ~ North Cobb High School
- 2005 *Christie Schmitt ~ Lovejoy High School*
- 2006 *Kim Burgess ~ Calloway Middle School*
Steve Price ~ Riverdale High School
- 2007 *Jim Glenn ~ Coastal Middle School*
Dr. William "Pete" Brannan ~ Rockdale Career Academy
- 2008 *Eddy Nelson ~ Autrey Mill Middle School*
Chaz Kachmar ~ Grayson High School
- 2009 *Pamela Brown ~ Smokey Road Middle School*
- 2010 *George Buoy & Ty Carter ~ Tucker High School*
Chandra Porter ~ Freedom Middle School

Teachers of Excellence

1966	Dawson Felts ~ Druid Hill High School
1967	Thomas G. Latimer ~ Lagrange High School
1968	L. M. Burke ~ Newton County High School
1969	James Bray ~ Cross Keys High School
1970	Bob Crawley ~ Warner Robbins High School
1971	Bill Page ~ Cross Keys High School
1972	Dennis Buchanan ~ Briarcliff High School
1973	Harold Quinn ~ Marvin Pittman Lab School
1974	Jimmie Cone ~ Tift County High School
1975	C. L. Daughtry ~ Jenkins County Middle School
1976	Coleman Peacock ~ Irwin County High School
1977	Robert Stewart ~ Summerour Middle School
1978	Tommy Pitchford ~ Valdosta Middle School
1979	Davis Stewart ~ Marvin Pittman Lab School
1980	Charles Webb ~ Dalton Jr. High School
1981	Jack Sapp ~ Lyons High School
1982	George Thomson ~ South Gwinnett High School
1983	Al Money ~ Forsyth Central High School
1984	Randy Ware ~ Dalton Jr. High School
1985	Charles Caldwell ~ LaFayette Jr. High School
1987	Lenard Lemay ~ H. V. Jenkins High School
1988	Bobby Riley ~ Coan Middle School
1989	Carlos Cole ~ Crestwood High School
1990	Roger Ivey ~ Lilburn Middle School
1991	Rick Moore ~ Henderson High School
1992	Robert Allen, Jr. ~ Stone Mountain Jr. High School
1993	Walter Nix ~ Fannin County High School
1994	Steve Price ~ Pointe South Middle School
1995	Phil Sisk ~ Flat Rock Middle School
1996	Dwayne Hobbs ~ Jonesboro High School
1997	Allen Gossett ~ Coosa High School
1998	Tom Volpe ~ Chattanooga Valley Middle School
1999	Angela Hughes ~ Morrow High School
2000	Chris Carpenter ~ Calhoun Middle School
2001	Eddy Nelson ~ Arnall Middle School
	Pete Brannan ~ Jonesboro High School
2002	Chaz Kachmar ~ South Gwinnett High School
2004	Pamela J. Brown ~ Smokey Road Middle School
2005	Cindy Clay ~ Ridgeview Middle School
	Willie Haynes ~ Jenkins County High School
2006	Jim Glenn ~ Coastal Middle School
	Glenn Burrows ~ Mill Creek High School
2007	Eddy Nelson ~ Autrey Mill Middle School
	Dr. William "Pete" Brannan ~ Rockdale Career Academy
2008	Jeff Bachus ~ Taylor Road Middle School
2009	Christie Schmitt ~ Pike County High School
2010	Gwen Block ~ Chamble Charter High School
	Kim Burgess ~ Calloway Middle School

2:50PM - 3:40PM

Concurrent Interest Sessions

Room 434

Catapults

Cory Booth, Jonesboro Middle School (cbooth@clayton.k12.ga.us)

Students experience hands-on learning about simple machines and various math and science principles through designing and building their own model catapults. This activity is part of an entire unit aimed at educating students on how simple machines work and how they help us in everyday life. The lessons can be adapted for 6th or 7th grade Engineering and Technology Education as well as Pre-Engineering at the high school level.

Room 405

Preparing for College

Corbin Klett

Presentation will outline the challenges of university-level engineering programs and how Georgia technology education helps prepare students for success. It will also highlight the opportunities for and importance of student involvement in organizations such as the Georgia Tech Solar Jackets, which is the solar car team that has partnered with the GETEA and some of its members.

Room 403

3D Design using Pro-E

John Cribb, Atkinson County High School (jcribb@atkinson.k12.ga.us)

Pro Engineer Schools edition is free parametric design software that can be used to help meet GPS and STEM standards. Learn how to download a free copy and what you have to do to receive your 300 seat license. Pro Engineer can be installed on all computers and given to students to install on their home computers. As an added bonus, learn how Pro Engineer can be used with MasterCAM to create a tool path for the given part.

Room 435

What a STEM Education Really Means – Strategically & Tactically

Barbara Stafford, Career Training Aids (bstafford@careertrainingaids.com)

Many educators believe that STEM implies adding more science, technology, engineering or math to their curriculum. Meanwhile, the federal government is spending billions to get more students interested in these fields so that companies will depend less on recruiting talent from overseas and will keep their plants on US soil. The truth is that the above definition barely scratches the intent of a real STEM education. A STEM education changes the way we teach, the way students learn, track performance and behavior, and reduces gender and socioeconomic factors. The results are many, including developing critical thinking skills, problem solving, effective teamwork, and our children gaining a better sense of what to pursue as a profession. Outside of the school—'fully' employed communities are safer, our businesses have the talent to innovate, and our economic picture sure looks better. The session will also discuss how to effectively integrate new STEM programs and activities into existing classes—without chaos, confusion, and starting over.

Room 437**VEX Robotics Competition– Round Up**

Garry Brown, Stephenson High School (garry_brown@fc.dekalb.k12.ga.us)

This workshop will involve an interactive discussion about the new “VEX Cortex Microcontroller.” This is the next generation of VEX Microcontroller. The improvement in this microcontroller coordinates the flow of information and power on the robot. In addition we will discuss other electronic system components that can be interfaced to the Vexnet Cortex, Joystick and Microcontroller.

Room 440**Using Day Camps as a means for Promoting Non-Traditional Enrollment and Program Recruitment**

Roger Ivey, Rockdale County Schools (rivey@rockdale.k12.ga.us)

Here’s How one system is attempting to meet the Perkins indicator for non-traditional enrollment.

3:50PM - 4:40PM**Concurrent Interest Sessions****Room 434****Designing the Next Thrill Rides**

Cory Booth, Jonesboro Middle School (cbooth@clayton.k12.ga.us)

Blaire Booth, East Coweta Middle School (blaire.booth@cowetaschools.org)

Innovating the file folder roller coaster while meeting the Georgia Performance Standards. An activity your students will love while incorporating STEM into your lab.

Room 405**The Young Inventors Program**

Patrick Gunter, Golden Isles Career Academy (pgunter@glynn.k12.ga.us)

The Young Inventors Program is intended to stimulate interest in the study of science, technology and engineering by supporting a student inventors program at Golden Isles Career Academy. Attendees of this presentation will receive a CD-ROM with information to implement the young inventor program at your school. Also, on this disk will be included a set of Design Posters, design presentations and a presentation given by a patent attorney giving clarification about what constitutes an invention. You will receive a wealth of information about this European Research & Design and Invention Model.

Room 437**West Point Bridge Design**

Gordon Sinderec, Mary Pearsons High School (sindersinec@monroe.k12.ga.us)

Using the Free West Point Bridge Designer Competition software. What does it take to progress to the next level of competition? How students from Mary Pearsons High School have mastered the West Point Bridge Design Software and Competition. Possibilities to win scholarship money and other items.

Room 435**Alcovy High Schools Program Certification Portfolio**

Douglas Blackwell, Alcovy High School (blackwell.douglas@newton.k12.ga.us)

The Program Certification portfolio presented at Alcovy High School, if implemented with proper time constraints, will provide an opportunity for the review committee to view documentation at an individualized pace and with improved accuracy of accountability of required standards. This process will also allow the visiting committee to witness actual video footage of standards being met, links to different websites, and two different processes of documentation delivery. Attendees of this session will receive the electronic format to duplicate this process at their respective schools

Room 350**Digital Video Production – Hands on workshop**

Kevin Pullen, Golden Isles Career Academy (Kevin.pullen@glynn.k12.ga.us)

Participants will explore the various options in professional, consumer, and classroom based video production. The group will work starting with single web cam production up to professional multi camera studio TV broadcasting. Equipment, software and hardware choices and options will be explored to facilitate personal or classroom broadcasting opportunities.

4:30PM - 5:00PM**Annual Business Meeting
Conference Room 115**