



CTAE

Career, Technical & Agricultural Education
Education that works for Georgia

CTAE STATE
NEWSLETTER
Volume 1, Issue 5
May 2014



Greetings from David Turner CTAE State Director

It is hard to believe that we are at the end of the 2013-2014 school year. Time really does fly by when we are busy. As we approach the last few days of this school year, I want to thank each of you for your hard work and dedication to the CTAE profession. Your leadership as a CTAE teacher or administrator is vital to the success of our programs in Georgia.

Our students and teachers have experienced great success this year - both inside and outside of the classroom. We have seen an increase in the number of pathway completers and end of pathway assessment achievers. The Microsoft IT Academy continues to offer incredible opportunities to our students. Our CTSOs have experienced additional growth in both membership and financial support. I attended five CTSO leadership conferences this spring. Each of these conferences was truly an inspiring event for me. I encourage you to make a point of attending a CTSO leadership conference next spring, as it will be an uplifting experience for you.

Over the next three months we will have many opportunities for all CTAE professionals to learn more about the new career clusters and pathways. The first course in each of the new pathways was implemented this year. The second and third courses for each pathway have been adopted by the State Board of Education and will be implemented this fall. Please take advantage of the many professional development opportunities that are available to you in the near future.

One very important professional learning opportunity is the GACTE Conference. This conference is an excellent way to spend time with our state staff to learn about our new initiatives and courses. I encourage you to attend the GACTE Conference this summer.

George Bernard Shaw said "The single biggest problem in communication is the illusion that it has taken place." One of the most important things that we can do as a leader in CTAE is to communicate with each other. Communication is vital to the success of any organization. I encourage you to communicate the information that you receive about the CTAE program to your teachers, counselors, and administrators. We are depending on you to make sure that everyone at the school and district level receives factual information about the CTAE program and initiatives.

The quarterly CTAE newsletters are a great way to share information with you. We all owe a very special "Thank You" to Elizabeth Lewis-Draffen for compiling, editing, and distributing our newsletters.

I am very proud of the CTAE staff at the Georgia Department of Education. I believe that we have a great team that is always willing to assist our CTAE teachers and students. Please do not hesitate to call on any of our staff if we can ever assist you.

Thank you for the job that you do each day. Keep up the great work. I hope to see you at the GACTE Conference in a few weeks.

David

Special Points of Interest:

[Student Success Spotlight Articles](#)

[Career Cluster Focus](#)

- [Agriculture](#), Food & Natural Resources
- [Energy](#)
- [Government and Public Administration](#)
- [Manufacturing](#)
- [STEM](#)

[CTAE Program Manager Updates](#)

[Update for State School Nurses](#)



Dr. John D. Barge, State School Superintendent
"Making Education Work for All Georgians"

STUDENT SUCCESS SPOTLIGHT

As an Engineering Pathway completer, during her sophomore year, Kelsie Tillotson was selected to work at Gulfstream Aerospace as a youth apprenticeship student. Kelsie has worked at Gulfstream Aerospace for two years and during that time she received three Mach awards.

Mach 1 – Created four electrical harnesses for flight simulation including being responsible for labeling all wires to corresponding harnesses and prepped them for termination.

Mach 2 – Volunteered her time for career day to share information about engineering with other young and aspiring students.

Mach 3 – Created a connector export to prevent electrical engineers from having to recreate all new connectors, saving hours of time.

Kelsie has received outstanding job evaluations each nine weeks. Kelsie plans to enter Georgia Southern University when she graduates in May 2014 from South Effingham High School.

South Effingham High School Effingham County Engineering



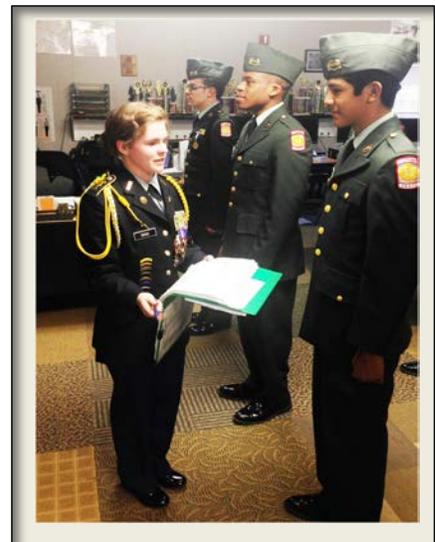
Submitted by: *Becky Truluck, Work-Based Learning Coordinator*

Roswell High School– Fulton County Government & Public Administration

Stephanie Craigue epitomizes the scholar-athlete-leader who embodies the Army value of selfless services. She received a nomination to the U.S. Military Academy and wants to pursue a career as an Army officer. Stephanie was selected as the Georgia Institute of Technology Junior ROTC Cadet of the year was offered an Army ROTC scholarship.

A recipient of the Legion of Valor Bronze Cross for achievement, Stephanie ranks in the top .5% of third year JROTC students worldwide. Stephanie's leadership skills are exceptional and are definitely a role model for Career, Technical and Agricultural Education.

Submitted by: *Frederick D. Weis, Senior Army Instructor*



STUDENT SUCCESS SPOTLIGHT

Bibb County Schools– Bibb County Career Cluster Programs



On March 19, 2014, the Bibb County School District held its 3rd Annual CTAE Student of the Year Banquet to recognize the top CTAE students from each high school. After this recognition, students competed for the coveted honor and title, “District CTAE Student of the Year.” Prior to the banquet, a panel of community members judged seven students. Each of the seven students received a plaque that recognized their school-level accomplishments, and the top three students earned scholarships ranging from the following: (1st Place - \$1,000.00, 2nd Place - \$500.00, and 3rd Place - \$350.00). The scholarships were funded through business partnerships, and the district’s CTAE Annual Cinderella’s Wish List Dress and Accessories Sale.

The 2014 Bibb County CTAE Student of the Year Winners were: Christopher McCarter-3rd place. Christopher is a Nutrition and Food Science pathway completer who will use his scholarship toward tuition at University of Georgia (UGA). Christian Bell-2nd place is a dual pathway completer in JROTC-Army and the computer Systems and Support Pathway. He will use his scholarship to attend Kennesaw State University, and he plans to major in Computer Information Systems. Taylor Babbs-1st place is a dual pathway completer in the JROTC-Air Force and Marketing & Management pathway and will be applying her scholarship to Wesleyan College in a biology major to become either a Pharmacist or Radiologist. Taylor has demonstrated excellence in leadership, community and school involvement and academic achievement. Taylor has been a leader at her school, serving as DECA President and Group Commander in JROTC.

Submitted by: Ms. Jo Brown, Mr. Charles Baima and Mr. Jason Weis, CTAE Supervisors

STUDENT SUCCESS SPOTLIGHT

Madison County High School – Madison County Agricultural Education

Ms. Amber Wilbanks from Madison County High School is one of the “stand-out” students in the top-ranked agricultural education program at Madison County High School. Amber has been active within the Future Farmers America (FFA) for four years. Amber commented, “I enjoy going out and learning about horticulture in the greenhouse because you learn more by hands on experience.”

Amber has been very active within the Madison County High School’s FFA Chapter and has been to state and national conventions, Summer Leadership Camp, and traveled to Washington D.C. for WLC (Washington Leadership Conference). Amber has competed in different Career Development Events, including Nursery Landscaping, Wildlife Management, and Floriculture. Amber’s future plans consist of going to Abraham Baldwin Agriculture College (ABAC) and eventually transferring to the University of Georgia to become an Agriculture teacher. Amber has been a valuable asset to the Madison County FFA chapter, as well as the Georgia FFA. Amber has served this year as the MCHS FFA Chaplain. Her SAE (supervised agriculture experience) is managing the raised bed gardens at the high school. She harvested all vegetables and donated them to the Madison County Food Bank. Recently Amber has harvested greens and turnips that were also served in the MCHS lunchroom to all students and staff. This helps promote agriculture within the school system.

Amber Wilbanks is a great example of why agricultural education is not only important in our schools, but is a primary reason why the program thrives.



Submitted by: *Mr. Travis Tankersley, Madison County FFA Reporter and
Mrs. Trisha Lastly, Agriculture Teacher at Madison County High School*

STUDENT SUCCESS SPOTLIGHT

Benjamin Swatling and Kyle Rinando, Audio Video Technology and Communications Career Cluster students produced a documentary on school gun violence for C-Span's StudentCam contest and received an honorable mention. The students were recognized in a special ceremony by C-Span, Comcast and local government leaders. Kyle is going to attend Georgetown this fall, while Ben will be attending Brigham Young. Expect great things from these young men!

North Cobb High School – Cobb County Audio Visual Technology & Film Program



Submitted by: Josh Dempsey, Audio Visual Technology & Film teacher

South Cobb High School– Cobb County Arts, Audio Video Technology & Communication

Priscilla Medeiros, Eagle TV Anchor and rising senior Eagle TV Director/Technical Director Julian Herbert and SkillsUSA-Silver medal region winner, applied and were accepted into Turner Broadcasting Systems (TBS)– Turner Voices in the Arts program externship. These students will commute to TBS in June for a week of industry experience. The students went through very competitive process and only 30 students were selected from applications and phone interviews. South Cobb is very fortunate to have two students from the TV Broadcast program participating in this wonderful program.



Submitted by: Loraine Foushee, TV Broadcast Instructor

STUDENT SUCCESS SPOTLIGHT

Calhoun City High School – Calhoun County Arts, AV/Technology and Communication Graphic Communications and Design

Kelsi Grant, a senior at Calhoun High School in Calhoun, Georgia, has proven herself to be a stand out high school student in the career cluster of Arts, AV/Technology, and Communications. As a junior, Kelsi completed the Graphic Design Pathway and passed the End of Pathway exam to earn a PrintEd certification in Advertising Design. This year, Kelsi is completing a second pathway in Graphic Communications and will become an Adobe Certified Associate in Photoshop CS6.

Kelsi has been an active member of SkillsUSA for the last 3 years and currently serves as chapter Vice President. She has competed in several design competitions including chapter t-shirt design at the SkillsUSA Champions Rally for the last 2 years where she first placed 6th the first year, then brought home 3rd place this year. She has also competed in the T-shirt Design competition at the Region and State levels, earning a first place in Region for 2 consecutive years and placing 3rd in State this year for her design.

While finishing her second pathway, Kelsi has been successfully interning through the Work-Based Learning program at CHS. In the summer of 2013, Ms. Kristy Brown, the new Marketing and Public Relations director for Greater Community Bank in Calhoun reached out to Calhoun High School for assistance with Adobe Photoshop. Mrs. Greta Hughes, graphic design and communications instructor, and Dr. Brandi Hayes worked together to match Kelsi's knowledge and skills with the needs of the bank. Since then, Kelsi has been instrumental in working with Photoshop and assisting with creating various advertising designs for multiple media types. Ms. Brown had this to say about Kelsi as an intern, *"She has been a tremendous asset to me at Greater Community Bank. She has been able to create advertisements, web banners, and billboards that have been utilized by the bank."*

Not only is Kelsi an outstanding CTAE student, but she excels in her academic classes as well. Kelsi has taken several Advanced Placement courses throughout high school. She is also a member of the National Honor's Society and Key Club where she serves as Treasurer. Kelsi will continue her graphics education through pursuing a Public Relations and Advertising Design degree at the University of Georgia in the fall.



This advertisement was created for the Calhoun High School Yearbook.



Submitted by: Greta Hughes, Graphics Instructor and Brandi Hayes, Work-Based Learning Coordinator

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FDIC

STUDENT SUCCESS SPOTLIGHT

Omari Brown and Adaeze Okwu attended the South Cobb Chamber of Commerce luncheon on April 23, 2014. Small and large business owners and corporations were invited by the students to partake in an opportunity that will align employers and high school interns for real world work experience. The students have arranged for business leaders and interns to meet in what they are calling "McEachern High School Internship Job Fair" on May 8. The actions of Omari and Adaeze will definitely impact McEachern High School students and surrounding businesses relationships.

McEachern High School– Cobb County Healthcare Science



Submitted by: *Anquia Bowden,
Healthcare Teacher*

Chestatee High School– Hall County Business Management and Administration Entrepreneurship



Honors Introduction to Business and Technology students at Chestatee High School were given the unique opportunity to form and operate small businesses through in-depth integrated experiences involving: graphic arts, digital photography, desktop publishing, dye sublimation technology and direct-to-garment print technology. Thirty-five students formed seven small businesses and assumed the roles of CEO, CFO, Marketing Specialist, Graphic Design Specialist and Production Manager. The first annual Marketplace @ Chestatee was held on March 31, 2014. Each of the student-developed companies had products on display and company members were available to answer questions, take orders, or create and sell products on demand to parents and community members.

Submitted by: *Sue Matthews and Mary A. Collier,
Business Education Teachers*

CAREER CLUSTER FOCUS

AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER

For students interested in [Animal Science](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Ag Leadership in Animal Production	Animal Science and Biotechnology (02.42100) & Ag Management and Leadership (01.41200)
Animal Production & Processing	Ag Animal Production (01.43200) & Ag Meat & Dairy Product Processing (02.43200)
Animal/Mechanical Systems	Ag Animal Production (01.43200) & Agricultural Mechanics I (01.42100)
Companion Animal Systems	Animal Science and Biotechnology (02.42100) & Small Animal Care (02.42300)
Equine Science	Animal Science and Biotechnology (02.42100) & Equine Science (02.42200)
Food Animal Systems	Animal Science and Biotechnology (02.42100) & Agricultural Animal Production and Mgmt. (01.43200)
Veterinary Science	Animal Science and Biotechnology (02.42100) & Veterinary Science (02.42400)

For students interested in [Agricultural Mechanics](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Agriculture Energy Systems	Intro to Renewable Energy (03.47100) & Renewable Fuel Production (03.46200)
Agricultural Mechanics & Electrical Systems	Agricultural Mechanics I (01.42100) & Agricultural Electricity and Electrical Controls (01.42600)
Agricultural Mechanics & Metal Fabrication	Agricultural Mechanics I (01.42100) & Ag Metal Fabrication (01.42400)
Agricultural Mechanics Systems	Agricultural Mechanics I (01.42100) & Agricultural Mechanics II (01.42200)

For students interested in [Food Science](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Ag Leadership in Food Product Processing	Ag Meat & Dairy Product Processing (02.43200) & Ag Management and Leadership (01.41200)
Food Products & Processing Systems	Ag Meat & Dairy Product Processing (02.43200) & Ag Food Products and Processing (01.44100)

For students interested in [Diversified Agriculture](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Agribusiness Systems	Ag Management and Leadership (01.41200) & Marketing Ag Products and Services (01.41300)
Agriscience Systems	Animal Science and Biotechnology (02.42100) & Plant Science and Biotechnology (02.44100)
Forestry & Animal Science	Forest Science (03.45100) & Animal Science and Biotechnology (02.42100)
Horticulture & Animal Science	General Horticulture & Plant Science (01.46100) & Animal Science and Biotechnology (02.42100)
Horticulture & Forest Science	General Horticulture & Plant Science (01.46100) & Forest Science (03.45100)

For students interested in [Forestry / Natural Resources](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Ag Leadership in Aquaculture	Aquaculture (03.43100) & Ag Management and Leadership (01.41200)
Ag Leadership in Forestry	Forest Science (03.45100) & Ag Management and Leadership (01.41200)
Environmental Agriculture Systems	Ag Environmental Science and Stewardship (03.42200) & Sustainable Ag Practices (03.46100)
Forest Management Systems	Forest Science (03.45100) & Forestry Science II (03.45200)
Forest Mechanical Systems	Forest Science (03.45100) & Agricultural Mechanics I (01.42100)
Forest / Natural Resources Management	Forest Science (03.45100) & Natural Resources Management (03.41100)
Forest / Renewable Energy	Forest Science (03.45100) & Intro to Renewable Energies (03.47100)
Forestry / Wildlife Systems	Forest Science (03.45100) & Wildlife Management (03.45300)

For students interested in [Plant Science/Horticulture](#), the following courses make up these pathways:

Pathway Name	Basic Agriculture Science (02.47100) along with these two courses
Ag Leadership in Horticulture	General Horticulture & Plant Science (01.46100) & Ag Management and Leadership (01.41200)
Ag Leadership in Plant Science	Plant Science and Biotechnology (02.44100) & Ag Management and Leadership (01.41200)
Horticulture Mechanical Systems	General Horticulture & Plant Science (01.46100) & Agricultural Mechanics I (01.42100)
Landscape Management Systems	General Horticulture & Plant Science (01.46100) & Turf Production and Mgmt. (01.46500)
Plant and Floral Design Systems	General Horticulture & Plant Science (01.46100) & Floral Design and Mgmt. (01.46600)
Plant and Floriculture Systems	General Horticulture & Plant Science (01.46100) & Floriculture Production (01.46200)
Plant and Landscape Systems	General Horticulture & Plant Science (01.46100) & Nursery and Landscape (01.47000)
Plant Mechanical Systems	Plant Science and Biotechnology (02.44100) & Agricultural Mechanics I (01.42100)

END OF PATHWAY ASSESSMENT DETAILS: <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx>

Contact John "Chip" Bridges, Agriculture Program Manager jbridges@doe.k12.ga.us

ENERGY CLUSTER

The Energy and Energy and Power: Generation, Transmission and Distribution pathways have been revised for the Energy Career Cluster. Energy Career Cluster courses prepares students for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

Link to the Energy Pathway Course Standards

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-Energy.aspx>

Link to the Georgia College and Career Clusters/Pathways Plan of Study Documents

The Student Plan of Study documents provide the opportunity for local systems customization to include additional coursework or other pertinent information specific to the individual system or school. The Student Plan of Study document contains the recommended coursework based on the current graduation rule, related to a specific career pathway. This information will provide the guidance needed in your program area. The documents can be found at <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>

Which End of Pathway Assessment are you going to give students?

Click the link below for a list of assessments:

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx>

At the link, scroll down to Engineering and Technology program area to located the Energy assessments. Please check out the options available for all pathways. The blueprints, test names, and additional resources can be found for each assessment!

Professional learning opportunities will be extended soon for End of Pathway Assessment! Stay tuned to the CTAE Resource Network!

Professional Learning Resources

Professional development is available for all pathways within the Energy Cluster. Please check www.ctaern.org for additional information.

Contact Mark Crenshaw, CTAE Program Specialist
Program Delivery Unit
mcrenshaw@doe.k12.ga.us

GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

The transition to Career Clusters opened the door for a new pathway to be created for the students of Georgia in the Government and Public Administration cluster. The three new courses created for the new cluster pathway of Public Management and Administration are:

29.41000 Introduction to Government and Public Administration

29.41100 Government and Public Administration: State and Federal Issues

29.41200 Government and Public Administration: Local & State Issues

Students who are interested in learning about a career within the local, state and federal government will definitely enjoy this pathway. Government and Public Administration careers meet the needs of citizens in a variety of environments and emphasize the “three E’s” of public administration which are Economy, Efficiency, and Equity. Government and public administration students will learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

The Georgia Professional Standards Commission is working with the Georgia Department of Education to develop certification requirements to teach Government and Public Administration.

The other pathways in the Government and Public Administration cluster currently available to students are **Army JROTC, Navy JROTC, Air Force JROTC, and Marine JROTC**. These pathways have been in place and did not undergo any changes. Any three JROTC courses may be counted as the three required courses for a pathway completer. The courses do not have to be sequential or any certain order. Course offerings will be determined by the local school and instructor based on approved JROTC state courses.

The JROTC mission is to motivate young people to be better citizens and leaders, and to assist in transitioning to college, military, work force, or some other type of postsecondary institution after high school.

Link to the Government and Public Administration career cluster pathway information may be found at:

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-pathway-courses.aspx>

Contact Gary Mealer, CTAE Program Specialist
Development and Transition Unit
gmealer@doe.k12.ga.us

MANUFACTURING CLUSTER

The Manufacturing and Mechatronics pathways are provided for the Manufacturing Career Cluster. The Manufacturing Career Cluster includes the processing of materials into intermediate or final products and related professional and technical support activities, such as production control, maintenance, and process engineering.

Link to the Energy Pathway Course Standards

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-manufacturing.aspx>

Link to the Georgia College and Career Clusters/Pathways Plan of Study Documents

The Student Plan of Study documents provide the opportunity for local system customization to include additional coursework or other pertinent information specific to the individual system or school. The Student Plan of Study document contains the recommended coursework based on the current graduation rule, related to a specific career pathway. This information will provide the guidance needed in your program area. The documents can be found at <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>

Which End of Pathway Assessment are you going to give students?

For a lists of assessments, click here....

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx> and scroll down to program area, Manufacturing, and check out the options for each program. A Mechatronics Assessment will be available for FY15.

Several assessment options are available for all pathways. The blueprints, test names, and additional resources are available for each assessment! Professional learning opportunities will be extended soon for End of Pathway Assessment! Stay tuned to the CTAE Resource Network!

PROFESSIONAL LEARNING RESOURCES

Professional development is available for all pathways within Manufacturing. Please check www.ctaern.org for additional information.

Contact Mark Crenshaw,
CTAE Program Specialist, Program Delivery Unit
mcrenshaw@doe.k12.ga.us

STEM CLUSTER

The Engineering and Technology, Engineering Drafting and Design, and Electronics pathways have been revised for the STEM Career Cluster. The Science, Technology, Engineering, Mathematics Career Cluster includes planning, managing, and providing scientific, professional and technical services.

Link to the STEM Pathway Course Standards

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-STEM.aspx>

Link to the Georgia College and Career Clusters/Pathways Plan of Study Documents

The Student Plan of Study documents provide the opportunity for local systems customization to include additional coursework or other pertinent information specific to the individual system or school. The Student Plan of Study document contains the recommended coursework, based on the current graduation rule, related to a specific career pathway. This information will provide the guidance needed in your program area. The documents can be found at <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>

Which End of Pathway Assessment are you going to give students?

For a lists of assessments, click here....

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx> and scroll down to program area, Engineering, and Technology and check out the options for each program.

Several assessment options are available for all pathways. The blueprints, test names, and additional resources can be found for each assessment! Professional learning opportunities will be extended soon for End of Pathway Assessment! Stay tuned to the CTAE Resource Network!

PROFESSIONAL LEARNING RESOURCES

Professional development is available for all pathways within STEM. Please check www.ctaern.org for additional information.

Contact Mark Crenshaw,
CTAE Program Specialist Program Delivery Unit
mcrenshaw@doe.k12.ga.us



CAREER CLUSTER FOCUS

STEM Engineering and Technology, Manufacturing, Energy

Teacher, Staff and Student Accolades



Congratulations to Mr. Nick Crowder, South Forsyth High School, for being named the Forsyth County School District's Teacher of the Year and now a **Semi-Finalist for Georgia's State Teacher of the Year**. This is again another great example of the awesome achievements taking place in our STEM Engineering and Technology, Manufacturing and Energy education programs.

We also had a number of our teachers this year selected as local school and district TOTY. Congratulations to all for your amazing accomplishments and representing the best of what we do. For any other teacher or staff member that was not mentioned in this section for your recognition and/or accomplishments please let me know and I will ensure you are in the next issue. If you did receive a special recognition or accomplishment I want to say congratulations.

Congratulations to Mr. Cory Booth, Mr. Tim Cone, Ms. Tonya Isbell, and Ms. Chandra Porter who were honored at the International Technology and Engineering Educators Association (ITEEA) 48th Annual Conference held in Orlando, Florida on March 13–16. Mr. Booth and Ms. Porter were recognized as Georgia's High School and Middle School Teachers of Excellence and Mr. Cone and Ms. Isbell were recognized as Georgia's High School and Middle School Programs of Excellence for Engineering and Technology. Each teacher and their program represent some of the best Georgia has to offer in providing sound pedagogy and relevant STEM problem-based learning activities to their students. Again congratulations to each for their international and state recognition.

Mr. and Mrs. Booth were also awarded the ITEEA Emerging Leaders Award. This was the first year of this award and we are proud of their accomplishments. Mr. Crenshaw was also honored with the ITEEA's CSL – Outstanding

State Supervisor/Leader of the Year for Engineering and Technology Education award.



Congratulations to Mr. Steve Price, Executive Director for the Ga. Technology Student Association, who finished the year as the International Technology and Engineering Educators Association (ITEEA) President for 2013-2014. Mr. Price will serve another year on the Board of Directors for ITEEA as Past-President.

Congratulations to Ms. Hope Shackelford from Woodstock High School in Cherokee County. Woodstock TSA President and 12th grader Hope Shackelford was honored by the National Center for Women & Information Technology (NCWIT). Hope was one of 24 young women selected from Georgia for the Aspirations in Computing Award. This award is designed to honor high school women for their computing-related achievements and interests, including leadership ability. Hope



was honored because of her involvement in engineering and computing. She has been competing in the animatronics event at TSA for four years, as well as other events. She also has been a TSA officer for three years and spearheaded the Zero robotics club at her school.

Robotics around the State and World

Congratulations to the many teams that competed at the VEX World Championships held in California last month. Out of over 10,000 teams globally, there were 460 teams from over 25 different countries that qualified for World's and Georgia had a great showing with 27 teams which makes them all winners.

Congratulations to South Forsyth High Schools team 1961C for not only winning their Science Division tournament with over 80 teams, but also for finishing 3rd overall in the World during the overall finals.

I want to commend you and your students for all of your accomplishments which are too many for this newsletter. BEST, VEX, FLL, MATE, and FIRST have all been running strong in our programs around the state. Thank you for what you do and how you have represented our programs in Georgia.

Electrathon Rallies



There have been a number of Electrathon Rallies held around the state this year with the most recent at Forsyth County Schools in partnership with Siemens. Thirteen vehicles showed up and despite the weather the students and the teams were phenomenal. 1st Place – Mill Creek HS; 2nd Place – Lambert HS; and 3rd Place – Rabun County HS. Great job to all who participated.

GA TSA Upcoming Events

The 2013-14 TSA year culminates in Washington, DC with the National TSA Annual Conference, June 27 through July 1. The conference setting will be at the Gaylord National, National Harbor Maryland. The Georgia Delegation will be part of the over 5000 TSA Members from all across the country. Chapters are hard at work raising the money to attend and represent their schools and our state in competition against the best from the rest of the US. www.gatsa.org
<http://www.tsaweb.org/National-Conference>

Engineering by Design (EbD) Update

EbD in partnership with Georgia will be holding both a middle school and high school EbD professional learning week-long workshop this June in DeKalb County. The professional learning is tentatively scheduled for June 9-12 at Tucker High School. Please block out these dates on your calendar and expect an email with more details once everything is finalized.
<http://www.iteea.org/EbD/ebd.htm>

GACTE Conference Update

Please make plans to attend this year's GACTE conference held this July 13-16 at the Cobb Galleria in Atlanta. There are some great sessions planned around the new Career Clusters and Business and Industry Partnerships including STEM, Manufacturing and Energy. I look forward to seeing you all there.

Job Opportunities

If you or anyone you know is looking for a teaching opportunity in Engineering and Technology, Engineering Drafting and Design, Electronics, Manufacturing, or Energy please let me know. There are job openings throughout the state for next year. Also, if you are leaving your current position due to relocation or retirement please let us know.

STEM Forum

Please save the dates of October 20-21, 2014. The STEM Forum will be located at the Athens Classic Center, Athens, GA. STEM workshops, Activities, Keynote Speakers, Panelists. We will have an Engineering and Technology Education tract at the Forum. If interested in presenting please let us know as soon as possible.

GETEA

For those that are members of GETEA the [GETEA Mini-Grant Applications](#) are now available. These must be returned by May 30, 2014 for consideration. [PDF Version](#). Please apply. If you are interested in becoming a member please go to our website <http://www.getea.org/> and contact us.

Microprocessor Training Workshop - STEM,

Electronics and Automation Teachers, Old Dominion University, Wayne State University, and Bellingham Technical College will sponsor three separate distance training workshops on embedded system designs using PIC microcontrollers and Arduino modules. Following are the online workshop dates: 6/25/14-6/27/14 (Western Region), 7/14/14-7/16/14 (Mid-America Region), and 8/4/14-8/6/14 (Eastern Region).

There are no registration fees to participate in the workshops. No travel is required. You can choose to participate in the region that best fits your schedule. You must have access to high speed internet (DSL or cable) service. Satellite internet connections do not work well.

CAREER CLUSTER FOCUS
STEM Engineering and Technology,
Manufacturing and Energy
 (continued)

Attendance is limited to 20 participants in each region and each attendee will receive a PIC training system Rev2/kit, a webcam, and a microphone headset (approximate value of \$250), and \$400 for completing the requirements of the 3 days of training. The \$400 stipend will be mailed to participants upon successful completion of the workshop's activities. There is an additional \$100 stipend for participants, if one completes a required project that applies the workshop learning and has its operation verified by the workshop lead faculty. For details go to:

<http://ucdistancetraining.org/workshop2014.php>
 Steve Hsiung - shsiung@odu.edu - 757-683-4606

Women in Manufacturing DVD

The new 15-minute DVD, entitled, "Women in Manufacturing", highlights 14 women who work in a wide variety of manufacturing roles and companies. "Manufacturing is the greatest wealth-creator for any country," one of the women says. She adds that manufacturing "offers careers that are very diverse and can appeal to a wide variety of people," including people with backgrounds ranging from engineering degrees to high school degrees. Her Own Words: Women in Nontraditional Careers materials include 18 DVDs and 8 posters that are used in Workforce Development, CTE, STEM, Special Populations, Perkins, Parent Involvement, and Career Exploration programs across the country to encourage girls and young women to widen their perspective on potential career paths. Perkins funds can be used to purchase these posters, DVDs, and resource guides. For a printable order form/flyer pdf, [CLICK HERE](#) (or go to the website: nontraditionalcareers.com and click the "Print a Flyer" button).

Exploring Engineer Academy

Summer Camp at Georgia Tech from June 1 - June 6, 2014! Exploring Engineer Academy with the Georgia Engineering Foundation and the Learning for Life Division of the Atlanta Area Council of the Boy Scouts of America is conducting their 14th Annual Engineering Academy at Georgia Tech! The academy anticipates a new record high of 70 high school students (boys and girls) in two concurrent and separate STEM tracks - A Traditional **Engineering Track and a Science Track**. Students from metro Atlanta and around the state will be in 10th, 11th and 12th grades under the direct supervision of professional engineers,

scientists, teachers and BSA volunteers. Participants explore engineering as a career by engaging in hands-on engineering activities, touring engineering facilities, and interacting with engineers and students from all major engineering disciplines.

For the last 13 years, the Exploring Engineer Academy has brought together talented students to the Georgia Institute of Technology campus to expose them to the world of engineering. Students tour state-of-the-art engineering sites all around metro Atlanta, in the hopes that they will pursue an exciting engineering career and to open their minds that they too may be able to obtain an engineering degree. I have attached the 2014 Application for attending this year's academy and appreciate it if you can encourage any/all interested students to apply for several **scholarships that are available.** [http://www.atlantabsa.org/OrgHeaders/2521/2014%20Exploring%20Engineering%20Academy%20\(1\).doc](http://www.atlantabsa.org/OrgHeaders/2521/2014%20Exploring%20Engineering%20Academy%20(1).doc)

Also, Teachers Are Looking For Volunteer Chaperones For Either The Day Or Overnight. Overnight Chaperones Will Have Their Room, Meals, And Participation Within The Events Covered! Please Let Me Know If You Are Interested Asap!

AEROSPACE ENGINEERING SUMMER CAMPS - www.spsu.edu/aerospace

SPSU – Southern Polytechnic State University is hosting an Aerospace Engineering summer camp the following days: Camp #1: May 27 – 30; Camp #2: June 9-13; June 25 -27; July 7-11, 2014. To register, email Dr. Adeel Khalid at aerospace@spsu.edu, 678-915-7241. Include the following: Name, Age, School, Grade, Email and Phone Number.

Pathway Course Revisions

Thank you to everyone who has been involved with the initiatives for revising our pathway course standards, including being a part of the revision team, filling out the numerous surveys for needed input, and especially sending information along to business and industry contacts. We look forward to a continued partnership. Provided is the link to the newly posted standards <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-pathway-courses.aspx>

Accountability and Improvement

Brenda Barker, Program Manager

brbarker@doe.k12.ga.us

FY15 Perkinsplus Update

Accountability and Improvement is pleased to announce that 147 LEAs applied for the FY15 Perkinsplus grant. Of the systems that applied, 68.71% qualified for funding in the first round and 31.29% for the second round. LEAs requested a total of \$1,850,627 to: (1) improve system performance on core indicators, (2) enhance non-traditional activities, (3) provide activities to prepare special populations, and (4) implement end-of-pathway assessments.

All FY15 Perkinsplus applications have been evaluated and rated according to funding. LEAs should receive an estimated Perkinsplus allocation early May.

Additional information is provided in the tables below.

Option #	Number of Applications Submitted	% of Applications Submitted	Founding Round	Total Funds Requested	% of Grants Funds Requested
1	13	8.84%	Round #1 (Red)	\$1,197,473	64.71%
2	3	2.04%	Round #2 (Blue)	\$653,154	35.29%
3	2	1.36%	Total	\$1,850,627	100.00%
4	129	87.76%			
Total	147	100.00%			

Upcoming Consolidated Application (Con App) Deadlines

FY2015 Deadline

May 15, 2014 Deadline for sign off on DC (data collection) side of all FY15 CTAE grant applications on the Consolidated Application -- **5:00 p.m. Superintendent sign off deadline**

FY2014 Deadlines

June 6, 2014 Final date for FY14 budget amendments for all CTAE grants
 June 30, 2014 Final date to expend FY14 funds for all CTAE grants
 July 31, 2014 Final date to draw down FY14 funds through GAORS for all CTAE grants
 July 31, 2014 FY14 Completion Reports for all CTAE grants must be completed and have a CLOSED status

Agriculture Education
Chip Bridges, Program Manager
jbridges@doe.k12.ga.us

Before we move into the great summer schedule of agricultural education activities, here are a few of the accomplishments in agricultural education for 2013-2014:

- The year got started with a net increase of seven new agricultural education programs (and each of them made it through their first year)
- 2013-2014 will conclude with the 9th consecutive record setting year of FFA membership growth. There are now more than 36,000 FFA members in Georgia.
- More students each year are earning real world, hands-on, technical skill attainment by participation in the agricultural education Career Development Events (CDEs). This year the Georgia Agribusiness Council issued more than 10,000 certificates state-wide to students for demonstrating career related success in over 25 different career development events. These career development events are the best measure for quality work-related skill attainment for students in agricultural education.
- There was a renewed emphasis during 2013-2014 for the Supervised Agricultural Experience (SAE) component of the agricultural education program. A state wide standard record book system was implemented for students. Hopefully the future will bring improved results as agricultural education continues to improve on teaching students the value and importance of keeping good records.
- 57% of the agriculture teachers in Georgia have less than 10 years of teaching experience. We hope this indicates a bright and prosperous future for the program.

The annual report should be completed and ready for distribution to agriculture teachers at the GVATA summer conference taking place in July 2014. The Agriculture Teachers conference will be at Jekyll Island on July 7, 8, and 9, 2014.

Some other agricultural education activities being conducted this summer include:

- Summer Leadership Camp begins at the end of May and runs through the month of June. This takes place at the FFA – FCCLA Center near Covington, Georgia.
- Goal Oriented Leadership Development (GOLD) is a leadership program offered year round at Camp John Hope near Ft. Valley.
- FFA Wildlife Camp is open to all students and is conducted as a summer program at the FFA – FCCLA Center near Covington.
- Students from across Georgia will attend the Washington Leadership Conference (WLC) in June.
- There will be an FFA Chapter Officer Leadership Training (COLT) Conference in July.
- The 2nd Udder Mud Run will be held in August at the FFA FCCLA Center. Everyone is invited to come and enjoy the mud.

More information is available for these and other agricultural education activities from the State FFA Office or your Region Agricultural Education directors. Listed below is the contact information for these great professionals:

Lynn Barber , Ed.D. South Region Ag. Ed. Director	GA. Dept. of Education 2802 Moore Hwy., ABAC 34 Tifton, GA 31793	229-386-3428 (office) 912-584-8442 (cell)
Ben Lastly , Executive Secretary	GA. FFA Association 316 Poultry Science – UGA Athens, GA 30602	706-552-4456
Stan Mitchell , North Region Director	GA. Dept. of Education 204 Four Towers – UGA Athens, GA 30602	706-552-4468 (office)
Chris Corzine Central Region Ag. Ed. Director	GA. Dept. of Education 1005 State University Drive Ft. Valley, GA 31030	478-822-7385 (Office)

Development and Transition

Emily Spann, Program Manager

espann@doe.k12.ga.us

As this is the last CTAE state newsletter of the year, the members of the Development and Transition GaDOE state staff would like to take this opportunity to thank you for your support of all of the CTAE programs, professional learning opportunities, and initiatives during 2013-2014! Here's hoping that you have a restful summer, and we look forward to seeing many of you at the GACTE conference on July 13-16, 2014, at the Renaissance Waverly Hotel in Atlanta. Please remember to forward this newsletter to any of your colleagues and staff members.

Professional Learning

GACTE 65th Annual Summer Conference

Renaissance Waverly Hotel, Atlanta, Georgia

Co-Sponsored by CTAERN and GADOE--CTAE Division



GACTE Conference Registration and Hotel Registration are now open: www.gacte.org

GACTE/ACTE Members \$290

Non-Members \$450



Regular conference registration closes June 27, 2014

Payments must be received by July 3, 2014

NOTE: Late Registration Fee of \$50 added beginning June 28, 2014

GACTE Registration Helpful Hints:

1. Be sure your ACTE/GACTE membership is current through 8/31/14. If not, renew at www.acteonline.org or pay your dues with your conference registration.
2. Make your selection for the Monday General Interest Sessions from the information at: <http://gacte.org/page.asp?pg=Conference%20Program>
3. Decide which meal functions you will attend and make your meal choices.

Update from Gary Mealer

gmealer@doe.k12.ga.us

The Adjunct Teaching Webinar was conducted by the Georgia Professional Standards Commission and is now recorded and available; click the link below:

[View the Blackboard Collaborate recording](#)

In the recorded webinar, the Georgia Professional Standards Commission staff members discussed the need and the approval process for adjunct certification to help systems address teacher needs for limited classes or specialized courses.

CTAE STATE PROGRAM MANAGER UPDATES (continued)

Update from Dr. Gilda Lyon

glyon@doe.k12.ga.us

Frequently Asked Questions About STEM Certification

Q	How can I become a STEM Certified teacher:
A	Georgia does not have any STEM-Certified teachers. The Professional Standards Commission (PSC) has no test for this certification and does not recognize it. If you have the appropriate math, science, or CTAE certification, then you are a teacher certified to teach in the appropriate STEM field.
Q	How many schools need to be certified in order to be a STEM- Certified District?
A	STEM Certification is for SCHOOLS only. If a system would like to be a STEM-Certified district, all schools must become certified.
Q	For high school students completing internships, do they need to be paid and what is the amount of time required?
A	Students in internships do not have to be paid and the local school determines the time requirement.
Q	What are the requirements for a lab to be a STEM Lab?
A	If you have science or CTAE labs in your school, you already have STEM labs. The STEM labs must be accessible by multiple disciplines, not just students assigned to the class.
Q	How many students are required for the program to get started?
A	The number of students is entirely up to the school. Local schools may have from 10 students to 100, but that is a local decision based on the ability to handle that many students.
Q	Does a person from the DOE come and visit before the school begins the process?
A	No. While you are welcome to call or email the STEM Coordinator from the GaDOE (Gilda Lyon, glyon@doe.k12.ga.us 404.463.1977), no one has to visit BEFORE beginning the process. However, a visit is required before submitting an application for certification. Schools are invited to apply based upon the results of the pre-application visit.



Sponsored by the Georgia Department of Education and the CTAERN Network

THE GEORGIA STEM FORUM

October 20-21, 2014

Classic Center

300 N Thomas St

Athens, GA 30601

Registration

<http://goo.gl/XpnMgO>



Exhibit

<http://goo.gl/30Bulz>



Call for Presenters

<http://goo.gl/lvCOJ9>



CTAE STATE PROGRAM MANAGER UPDATES (continued)

Update from Mamie Hanson

mhanson@doe.k12.ga.us

FY2014 End of Pathway Assessment (EOPA) Data Submission in Student Records

Although the published dates for district EOPA Test Takers Data Submission are June 24-30, 2014, districts do not have wait until June 24th to begin submitting their EOPA Student Records data. The application will be ready to accept data after June 6th. As districts sign off on Student Records, they will be able to begin EOPA updates. As you were notified earlier, the EOPA Eligibility Report is now available in Student Records and on the CTAE menu. If you have questions regarding your EOPA Eligibility Report or need assistance with submission of your EOPA Test Takers submission, please send an email to District Ticket or dticket@doe.k12.ga.us to request assistance. For questions regarding End of Pathway Assessment, please contact Mamie Hanson at 404-657-6279 or by email at mhanson@doe.k12.ga.us.

Update from Dr. John Pritchett

jpritchett@doe.k12.ga.us

College and Career Ready Materials Coming This Summer

Make plans now to receive updated Career Cluster documents related to helping students develop their Individual Graduation Plan and graduate better prepared to be College and Career Ready.

As materials were shipped last summer to the local system superintendent or designee, sets of Career Cluster ring cards and related documents will be shipped for distribution to middle and high school counselors, administrators and teachers.

Please make plans to receive these packages and to distribute to your middle and high schools when school begins in August.



CTAE STATE PROGRAM MANAGER UPDATES (continued)

Guidance and School Counseling/Career Development
Dr. Myrel Seigler, Program Manager
mseigler@doe.k12.ga.us

Counselor Summer Regional Workshops

Registration is now open for these workshops at www.ctaern.org

Monday - June 2	Kennesaw State University	Marietta, Georgia
Tuesday - June 3	Statesboro High School	Statesboro, Georgia
Wednesday - June 4	UGA Conference Center	Tifton, Georgia
Thursday - June 5	Central High School	Macon, Georgia
Friday - June 6	Clarke Central High School	Athens, Georgia

July 13-16--GACTE—Cobb Galleria

NOTE: Registration opened on April 15 and counselors are able to register at the member rate. Register at www.gacte.org



Program Delivery Dwayne Hobbs, Program Manager dhobbs@doe.k12.ga.us

Pathway Course Revisions

Thank you to everyone who has been involved with the initiatives for revising our pathway course standards. This involves all advisory committee members, as well as educators that were part of the revision team, those that filled out the numerous surveys for needed input, and especially those that were able to send the information along to their business and industry contacts. Provided is the link to the newly posted standards <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/cluster-pathway-courses.aspx>

Professional Learning Opportunities

There are a multitude of professional learning opportunities for all CTAE teachers. All professional learning workshops are posted on the CTAERN. All CTAE teachers should check the workshop postings for your instructional area on CTAERN and make plans to attend the appropriate workshop. Teachers who have questions about professional learning should contact their appropriate Program Specialist.

Youth Apprenticeship Program Customer Satisfaction Survey

The link for the survey of employers of Youth Apprenticeship Students was posted earlier with an ERROR and the link did not work. The correct link is below. All YAP Coordinators should contact their employers and request that they complete the survey at the link shown below ASAP:

<https://www.surveymonkey.com/s/CXCB3NJ>

2014 Youth Apprenticeship Conference

The 2014 YAP Conference was a huge success, thanks to the hard work of the planning committee. Below are some issues related to the conference:

- There is a post-conference evaluation on line that all attendees should complete. The link for the YAP Conference evaluation is: <http://www.surveymonkey.com/s/5XG2CXG>
- The "Teachers in Industry Program" (TIP) was announced at the conference. This program is a cooperative project of the Georgia Department of Education and the Governor's Office of Workforce Development and the Greater Dalton Chamber of Commerce. Fifty Georgia teachers will be selected for the program and Work-Based Learning Coordinators will be given priority requiring 20 hours on the site with a business that is approved by the region TIP coordinator. A stipend of \$599 will be awarded after completing the required documentation of the project. Participants may NOT be related to owners or managers of the business/industry to be visited.
The forms and application are available at the Greater Dalton Chamber of Commerce website, www.daltonchamber.org under the Community Tab. All applications are due by May 16, 2014 to the designated region TIP coordinator.
- Remember that all workshops are posted on CTAERN and you should sign up ASAP if you need to attend one.
- There is a great program planned for WBL/YAP at the GACTE in July. If you have not already done so, please register ASAP!

Georgina Howard, RN, MS State School Nurse Specialist Update



DID YOU KNOW?

- An average of one out of every ten school-age children has asthma.
- Asthma is the leading cause of health-related school absenteeism.

Make a commitment to learn about efforts to reduce the impact of asthma on the development and academic success of Georgia's children. School nurses are working with key partners such as GA Dept. of Public Health and Children's Healthcare of Atlanta to increase the number of asthma-friendly schools, to ensure all students with asthma have a current Asthma Action Plan, to reduce asthma triggers in the school environment, and to train school personnel about asthma care and asthma triggers.

The Georgia Department of Public Health and the Georgia Asthma Advisory Coalition recently published its 2013 -2018 Strategic Plan for Addressing Asthma in Georgia. It offers a framework and strategy to guide the future direction of statewide efforts to reduce the burden of asthma over the next five years. Follow this link to the publication:

<http://dph.georgia.gov/asthma-strategic-priorities-and-plan>

Facebook and Twitter are great ways to encourage community conversations about childhood asthma. To make it easier for you to get started, the Childhood Leadership Coalition has sample Twitter and Facebook posts for your information. Click here to view this resource:

[Childhood Asthma Leadership- Coalition website](#)

Involve your students in planning for Asthma Awareness Month. Encourage them to become champions for promoting health and wellness. Here are examples of useful materials to help you move into action:

<http://www.childhoodasthma.org/>

http://www.airnow.gov/index.cfm?action=picture_book.index

Using knowledge and working together, we are better equipped to manage asthma symptoms and reduce school absences among students with asthma. Promote Asthma Awareness during the month of May.