

A Message From Your President



John Grady Taylor

I am honored to be serving as your MS ACTE President for the 2019-2020 school year. I have been involved in CTE from my high school days when I was enrolled in Agriculture Mechanics and Automotive Mechanics and I am a firm believer that CTE makes connections in students' lives that allow them to be successful in the workforce or pursuing higher education opportunities.

Looking back on my days as an Agriculture Teacher and now as a CTE Director I have seen many shifts and swings in educational processes, however one truth that has al-

ways remained is how well CTE students are prepared to be successful in life because of the relevance they gather from their training.

With the new school year in full swing I hope you have had the opportunity to witness the full impact of the relevance that Career and Technical Education has had on your students. The increased public outcry for skilled labor is shining the spotlight on what we do as Career and Technical Educators and opening more opportunities for our students than ever before. Even though we as advocates have always understood the importance of Career and Technical Education, the relevance being lent by the national spotlight is allowing students to realize that their dreams are not limited but expanded.

With this in mind I want to challenge each of you to seek ways to help your students see the relevance of not only your CTE program but also how your curriculum makes math, reading, writing, science and history relevant regardless of the path they choose to pursue. This will in turn challenge your students, opening a world of possibilities and help them become responsible individuals who can positively contribute to their home, community, state and nation.

This past summer our conference was a great experience for all who attended and participated. A big THANK YOU to all of the individuals who planned, organized and orchestrated the MS ACTE/MDE event. If you were unable to attend, you missed out and I sincerely hope you plan on attending the 2020 summer conference on the MS Gulf Coast. Yes, you read that right we will be moving to the Mississippi Coast Coliseum July 22-24 of 2020. I am very excited about the opportunity to have our conference on the coast along with format changes that will include two full days of session at the coliseum and a half day of industry / educational tours on Friday. We are striving to prepare and present topics and information that will make the conference as "relevant" to you as you are to your students' success.

In closing I would like to encourage each of you to publicize the successes of you and your students to anyone and everyone who will listen. Helping others understand how we are preparing our students for success will help us build the connections we need to move forward and improve for our students. Don't forget to submit your articles to the MS ACTE Reporter as you do this.

As always, If I can be of assistance please feel free to contact me. My goal is to help our members make Mississippi ACTE be the best it can be. Have a great school year.

Greetings From the MS ACTE Office

Submitted by: Linda Bath

Thank you, thank you, thank you to all the current ACTE members. Your dedication to our association is very much appreciated! Thanks also to all of you who submitted articles for this issue of The Reporter. I encourage you to send the link for this issue to your school superintendent, local legislators, as well as business and industry in your area so they are aware of the awesome job you are doing. Career/technical education is enhanced when we advertise the success of our students and teachers. As career/technical instructors, you are providing our state with an educated and trained workforce. Keep up the good work!

MS ACTE provides many awards for its members. You can go to our website, mississippiacte.com, and click on the awards button on the home page to see all the categories that are available to you. I hope you will nominate someone from each of these categories. Mississippi has so many talented administrators, teachers, counselors, programs, and students; we need to showcase them. Each winner at the state level will advance to the Region IV competition. If chosen as the regional winner, then they will compete at the national level. This past year, Rex Buckhaults was named Region IV's Administrator of the Year. He will represent Mississippi and Region IV at the national conference in December.

Please feel free to contact me if I can be of help to you. My email address is edofmsacte@aol.com.

Students Receive ASE Certification

Submitted by: Tracy Burnley Hardy

The Automotive Service Technology program at the Kosciusko Attala Career Tech Center had four students to qualify to take the Automotive Service Exam (ASE) entry-level certification exam. This exam identifies students that have a knowledge-based readiness for a career in the automotive industry. The students took exams in the Automobile field and were given the opportunity to receive certification in automatic transmission/transaxle, automobile service technology, brakes, electrical/electronic systems, engine performance, engine repair, heating and air conditioning, maintenance and light repair, manual drive train and axles, suspension and steering. Students that received 100% certification were Blayne Spears, Greyson Bell, and Ethan Hodges. Pictured with students is Mr. Kirt Doss, Automotive Service Technology instructor. Congratulations students on your ASE Entry-Level Certification.



Fire Safety Demonstration

Submitted by: Tracy Burnley Hardy

The Attala County Fire Department presented a fire safety program to all of the students at the Kosciusko-Attala Career Tech Center. The students had a hands-on program on the correct techniques of using a fire extinguisher. Captain Morgan Smith, Firefighter Cody White and Firefighter Trey Johnson spent the day talking to and assisting every student to extinguish a control fire. The students were also given tips on what to do if a fire extinguisher was not available and how families and schools should have an evacuation plan.



Health Science Student Receives HSTE Scholarship

Submitted by: Amy Price

Madeline McCown, Health Science Student from the Kosciusko-Attala CTC was one of three students selected this summer to receive a \$500.00 HSTE (Health Science Teacher Educators) Scholarship. During her high school years, Madeline was a member of the Health Science program. She was a very active part of the program and was extremely successful in her studies. Madeline graduated from KHS in May 2019 and will be attending Holmes Community College in the Fall. The Scholarship funds will be very helpful to Madeline as she begins college and plans to pursue a degree in the Medical Field.



Pictured are as follows (left to right): Tony Holder (CTC Director), Amy Price (Health Science Instructor), Madeline McCown, and Tracy Hardy (CTC Counselor).

HOSA Students Compete in International Competition

Submitted by: Amy Price

Health Science Students from the Kosciusko-Attala Career Tech Center traveled to Orlando, FL this summer to compete in the HOSA (Health Occupations Students of America) International Leadership Conference. The students had to compete at a District and State level in order to qualify for the International Competition. At the State level, the students must place 1st-3rd in order to meet the qualifications for International Competition. The group traveled to Walt Disney



World for the Competition on June 17-23, 2019.

Students who participated are pictured (left to right): Matthew Triplett, Bridges Pinkard, Chase Langford, Mackenzie Bradberry, Breanna Blaine, Amy Price (HOSA Advisor/Health Science Instructor), Laken Milner, Madison Odom, Alexis Lepard, McKenna Graham, and Sydney Sweet.

2019 HOSA ILC Conference

Submitted by: Melissa Graham

Congratulations to the FCAHS HOSA members pictured for their attendance and willingness to compete at the 2019 HOSA International Conference this summer in Orlando, Florida, at Walt Disney World. A special congrats goes to Jenna Myers for placing in the top 25% in the competitive event for Home Health Aide Skills. It was an awesome learning experience, a lot of fun, and everyone had a great time!



Pictured: Sitting (L-R): Mrs. Judy Grice and Jenna Myers, Standing (L-R): Tanner Graham, Abbie Graham, Kylee Kearley and Ethan Watts.

FCAHS Students Compete in SKILLS USA National Competition

Submitted by: Melissa Graham

Students from Forrest County Agricultural High School attended the SKILLS USA National Competition in Louisville, Kentucky the last week of June. Preston Stringer, William Ladner, Jade-Marie Burge and Mayra Solano participated in leadership training. Max McPhail, Sheldon Holley, Jade-Marie Burge, Preston Stringer and William Ladner participated in the Quiz Bowl competition and placed seventh in the nation.



(L-R): Preston Stringer, William Ladner, Mayra Solano, Max McPhail, Jade-Marie Burge and Sheldon Holley.

FCAHS CTE Teachers Awards

Submitted by: Melissa Graham

Forrest County Agricultural High School was one of seventeen districts in the state to receive the MS-ACTE (Mississippi Association of Career Technical Educators) Achieve 100 Award for having one hundred percent participation of CTE personnel in MS ACTE. Mr. Erik Shows received the award for FCAHS. He is the new Career Technical Education Director at FCAHS having seven years of experience in education. Mr. Shows has served as a teacher, coach and student services coordinator before accepting the position of CTE Director.

Mrs. Judy Grice, Health Science Instructor at FCAHS, received the honor of being selected as Health Science Teacher of the Year for the state of Mississippi. Mrs. Grice has fifteen years' experience as a practicing nurse and 12 years' experience as a nurse educator. In addition to teaching, she sponsors HOSA, which is the student organization Future Health Professionals. All of her students are members of HOSA and they compete at the district, state and national level against students from other Health Science programs. Her students consistently place at all levels of competition, with a group advancing to national competition this summer.

Ms. Kayla Walters, Horticulture instructor and FFA advisor at FCAHS, received two awards this summer at the MS FFA Convention: South District Rookie Ag Teacher of the Year and overall State of Mississippi Rookie Ag Teacher of the Year. These awards are presented by the MS FFA Alumni Association and MS Association of Vocational Ag Teachers. Ms. Walters is beginning her second year of teaching at FCAHS and is one of three advisors for the Brooklyn FFA chapter.

Mrs. Mary Helen Lett, Introduction to Ag Science instructor and FFA advisor at FCAHS, won the NAAE (National Association of Agricultural Educators) Outstanding Early Career Teacher award for the state of Mississippi. She will advance to regional level competition and, if she places, will be recognized on the national level in December with five other national winners. Mrs. Lett was chosen for this award based on career achievements such as student success, FFA achievement, community partnerships and personal commitment to growth in her profession.



Shows



Grice



Walters



Lett

MS HOSA Advisor of the Year



Submitted by: Dr. Jeff Quin

Congratulations is in order for Roshanda Alexander. She was named Southern District Advisor for MS HOSA and Mississippi HOSA (Health Occupations Students of America) Advisor of the Year. She received these awards due to her commitment to the organization, leadership for HOSA, and her dedication to the students.

Congratulations, Mrs. Alexander.



Teacher Academy Students Attend National Conference

Submitted by: Monica Mitchell

Students in the Teacher Academy class at the Cleveland Career Development & Technology Center traveled to Dallas, Texas, to attend the Educators Rising National Conference held June 22 - 25, 2019. Students were able to participate in various educational related workshops that focused on topics such as teacher diversity, teacher recruitment, classroom management, and student engagement. The students were also given the opportunity to network with other students from all over the United States. Pictured are (from left) Torrez Walls, Jennifer Williams (Teacher), Alyssa Williams, Primiya Curb, and Jakaya Harper. Alyssa Williams is the Vice President and Primiya Curb is the Secretary for Educators Rising Mississippi. Torrez Walls competed in the Public Speaking competition. Primiya Curb competed in the Exploring Non-Core Subject Teaching Careers competition. Jakaya Harper competed in the Exploring Support Services Careers competition. Last, Alyssa Williams competed in the Job Interview competition in which she placed in the top 10. A very special thanks to all the businesses and individuals who made this experience possible: Quality Steel Corporation, State Bank & Trust Company, Southern Bancorp Bank, Todd Jeffreys, Patrick Davis/State Farm, Lampard's Wholesale Meat, Vowell's Marketplace, Congressman Bennie Thompson, Tammie Beamon, Shelia Williams, Tiffany Curb, Pam Chatman, Representative Abe Hudson, Byas Funeral Home, Cleveland State Bank, and Sarita Simmons.



Leland CTE Center Competes in Nationals

Submitted by: Jacqueline Graham

Leland CTE Center's Yasmin Colon, Business Fundamentals and Marketing student, and Meara Brown, Business Fundamentals and Management student, along with their instructor/sponsor Mrs. Joyce Hackler, were excited to compete on the national level in the Future Business Leaders of America competitions from June 29 – July 2, 2019, in San Antonio, Texas. The girls had previously competed in school-wide, regional and state events as first year students. Some of their greatest accomplishments included being state winners in SEP and having placed first in their category of Business Ethics for the State of Mississippi, FBLA. Meara Brown was also elected as a state officer for FBLA. The students are currently preparing for another successful run.



Yasmin Colon, Mrs. Joyce Hackler, Meara Brown



Yasmin Colon



Meara Brown and Yasmin Colon, left to right

Teacher Academy Students Are Winners at Nationals

Submitted by: Dr. Jeff Quin

Congratulations are in order for our Teacher Academy Students and their Teacher Jessica Rutland. Great job at the competitions!!

Shai Haynes, Keaunna Cruse, and Janna Spencer placed 2nd in Ethical Dilemma.

Shai Haynes placed 5th in Creative Lecture.

Great work to the Teacher Academy Students and to Jessica Rutland.

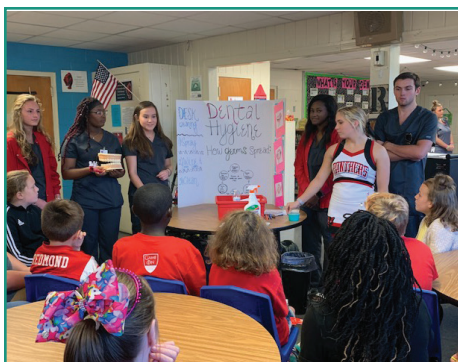
Thanks to all who provided support for their trip to Nationals.



Health Science II Students Promote Healthy Habits

Submitted by: Brooke Walter

Petal High School Health Science II Students prepared and presented hygiene and prevention of illness projects for 5th grade students at Petal Upper Elementary. During these presentations, second year Health Science students provided various hands on activities to help promote healthy germ prevention habits.



Petal Polymer Science Student Participates in College Research Program

Submitted by: Brooke Walter

This summer, one student from Petal High School had the opportunity to experience research on a whole new level. Hannah Hand, a current senior at Petal, was invited to participate in the Research Experience for Undergraduates (REU) program at the University of Southern Mississippi. The REU program is typically reserved for college students who are completing their 2nd or 3rd year. The students were assigned to a specific research project in the areas of chemistry, polymer science, biology, or physics and are mentored by graduate students throughout 10 weeks of research. They are responsible for doing presentations about their work for their peers and the research groups they are working with. Hannah applied to the REU program so that she could learn more about polymer science and engineering careers and working in a research environment.

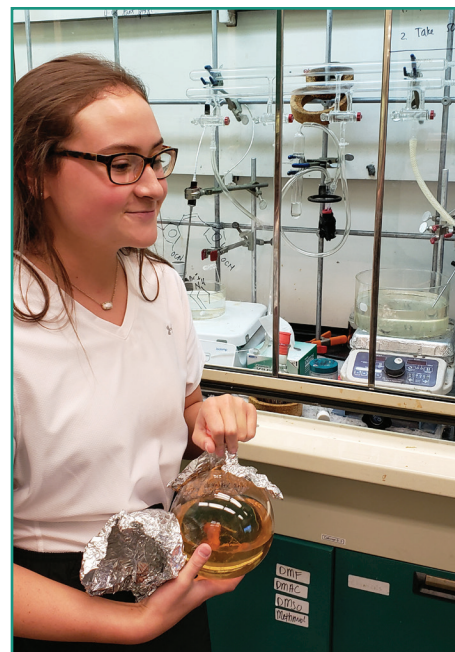


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Hannah was selected to work with Rebecca Haber in the lab of Dr. Jeffrey Wiggins. Part of Dr. Wiggins' research interests include composite materials for the aerospace industry. Hannah's project involved using biomaterials from renewable resources to create a strong matrix for composite airplane parts. The material, Resveratrol, comes from natural resources such as soybeans and can be modified to produce the cis-isomer, then further used for the "green" synthesis of highly processable matrices for carbon fiber composites. Hannah was able to verify the production of her materials using Nuclear Magnetic Resonance, Thermal Gravimetric Analysis, and Differential Scanning Calorimetry, which are all highly technical pieces of equipment that are not commonly available to high school students.

According to Hannah, exposure to so much technical information and research was a bit overwhelming. "I started to doubt myself," she said. "This is due to the fact that I have never seen such high level sciences, so I really struggled learning the research project in the beginning. Luckily, I have supportive people in my life like my mom and my Polymer Science teacher, Dr. Holmes, that kept me connected to reality. They made me realize that I am only in high school so I am not expected to know everything, in regards to polymer science." Eventually she realized that, if she continues to do research and apply herself, she will be at the same level as the other more experienced researchers at some point. Dr. Wiggins also invited Hannah to continue working in the lab through the school year, once she gets settled in her classes. Of course, she was eager to accept! She plans to continue working in the lab as long as possible and is considering a career in science research.

"I am incredibly proud of Hannah," says her polymer science instructor, Dr. Krystin Holmes. "I am so pleased that she was able to step out of her comfort zone and work with people several years older and more experienced in the lab. I knew it would challenge her personally, as well as academically. Hannah is a very bright student, but she needed a little bit of encouragement and reassurance. I also know that she must have really made an impression on Rebecca and Dr. Wiggins for him to ask her to come back and work as a high school student." As for her takeaways from the summer, Hannah says, "I remember talking to my mom and teacher about how I felt at the start of the program and I now know that I will never underestimate myself because at the end, that was one of the best experiences I have ever had. I learned so much about not only the science research field, but more about myself."



Automata Box Projects

Submitted by: Beth Krapac

First year students enrolled in the Introduction to Engineering program using the Project Lead the Way curriculum have completed their Automata Box projects. Students learned how to use a bandsaw, cordless drills, a Miter saw and a table saw. Each student created the box first in the Autodesk software program Inventor. The students presented the boxes to one of the Student Service Coordinators of the VWSD staff to practice soft skills and presentation skills.



MS ACTE Scholarship Winner

Submitted by Valerie Barton, Awards Committee Chair

Our scholarship winner this year is the Vicksburg High School 2019 Valedictorian with a GPA of 4.761, Keanna Abraham. She completed the Project Lead the Way Engineering Program and served as a CTE Student Ambassador. Her accomplishments include National Technical Honor Society, National Honor Society, Student of the Year for Engineering, Computer Integrated Manufacturing highest average and Engineering Design and Development Capstone Presentation exemplary academic performance. She is involved in many extra curricular activities such as Gator Girls Dance Team, Cheerleader, Track Team, Student Body Vice President and School Ambassador. Even with everything she has been involved in at school she still found time to participate in giving back to the community through volunteering for many events and organizations such as Thanksgiving Food Baskets, Operation Shoe Box, Annual Kids Harvest Festival, Salvation Army, and Center for Pregnancy Choices plus many, many more.



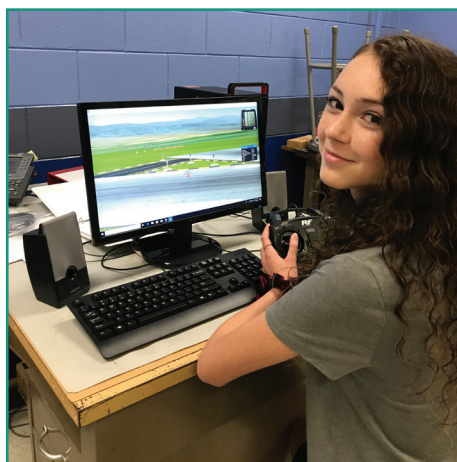
Keanna plans to attend Jackson State University and pursue a degree in civil engineering. Her goal is to work as a Research Civil Engineer and focus on developing stronger materials for building and bridge construction to help save lives during natural disasters.

We are proud to recognize such an outstanding Career and Technical Education student.

Getting a New Program Off the Ground

Submitted by Debra Baird

Unmanned Aerial Systems has landed at the Lamar County Center for Technical Education. This new program, commonly called the Drone Program, is taking over not only Mr. Bruce Lampe's classroom but also the surrounding areas. At the beginning of the course, the students learn many laws and regulations that govern drone flight. They also learn many techniques for controlling drones in flight. Simulation software is a great asset to the class so students can practice at any time and while indoors. The students are excited to learn how to enhance their skills with drones in order to branch out into various industries such as marketing, land development, real estate, and emergency services as well as possible government or military avenues.



Achieve 100% Winners

Submitted by: Linda Bath

Congratulations to the following schools for receiving the Achieve 100% Award for the 2018-19 school year:

- Amite County Vocational Complex
- Amory Career Technical Center
- Choctaw County Career and Technical Center
- Forest-Scott Career Technical Center
- Forrest County Agricultural High School
- Hancock County Career Technical Center
- Jackson County Technology Center
- Kosciusko/Attala Career Technical Center

- Lawrence County Career Technical Center
- Madison Career and Technical Center
- Millsaps Career and Technology Center
- Pearl/Rankin Career and Technical Center
- Petal High School Career and Technical Education Center
- Philadelphia/Neshoba County Career Technical Center
- South Panola High School
- Vicksburg/Warren County Career and Technical Center



This award is presented to schools whose administrators, teachers, and counselors are all members of ACTE. These schools are presented with a framed certificate at the Mississippi Summer Conference, they are listed on the National ACTE web site, and their names are listed in an issue of the Techniques magazine.

In order to qualify for this award, all staff must be a member of ACTE by November 30 of each school year. I encourage you to meet these criteria so your school's name can be added to this impressive list next year!

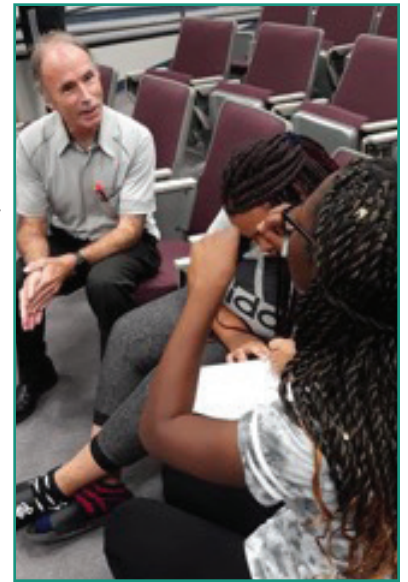
VWSD CTE Engineering Classes Interviewing ERDC Engineers

Submitted by: Kayla Kivett

The Vicksburg Warren Career and Technical Center’s Engineering I and II students were given an opportunity to interview local Engineers on Wednesday, September 25, 2019. The Engineering students are in the process of writing a report on Engineers; these students interviewed various different Engineers from the US Army Engineer Research and Development Center



located in Vicksburg, MS. The Engineers had backgrounds in different areas of engineering such as industrial, chemistry, mechanical and civil. This process was an excellent chance for the students to ask in depth questions and to discuss the different avenues one can pursue in the field of Engineering.



Biomedical Science Student Make Soda Can Calorimeters

Submitted by: Sylvia Lamb

Mrs. Lamb’s Principles of Biomedical Science class used soda cans to make a calorimeter to determine the energy found in various foods. They used Vernier temperature probes hooked to laptops to capture the change in temperature of the water in the cans as they burned the food sample. Since a calorie is the amount of energy needed to raise 1 gram of water by 1 degree Celsius, they can use their data to determine the approximate number of calories in their food samples. Marshmallows and Cheerios were the class favorites as these foods burn easily. This lab and other activities increase their understanding of diabetes and the importance of lifestyle changes, including eating a healthy diet, to manage diabetes successfully.



Alexandria McDaniel (Warren Central Junior) and Jalynn Wood(Vicksburg High Junior)



Carissa Myles (Warren Central Sophomore) and Morgan Nelson (Warren Central Junior)



Hailey Hampton (Warren Central Sophomore) and Gabrielle Dent (Vicksburg High Junior)

Biomedical III Students to Audiologist

Submitted by: Lesley L. Magee

Ms. Magee's Biomedical III students really enjoyed visiting Miranda McCaskill in her office on Friday, September 27, 2019! The students learned many great things while visiting. Mrs. McCaskill allowed the students to tour the room where she normally conducts hearing tests. She also showed them some of the tools that she uses when dealing with patients with different types of hearing loss. Next, Mrs. McCaskill showed the students an exam room and the different tools that she and Dr. Windham may use to view and clear out any obstructions in the small crevices of the human ear, nose, or throat. The students also asked Mrs. McCaskill various questions about her career, including the necessary education and training to pursue her career, possible outlook for this job in the state of MS, and some of her best and worst experiences as an audiologist. Prior to this visit and interview, the students completed a unit on the ear, in which they had to draw, color, and label a model of the ear, describe the functions of the parts of the ear, differentiate between sensorineural and conductive hearing loss and how each shows up on audiograms, and perform an actual Rinne Test on their partner and analyze the resulting audiograms. Following the visit, the students then read several articles and watched 2 documentaries on the cochlear implant debate and had to write a summative paragraph on the pros and cons of a cochlear implant to finish up the unit on the ear. The students learned from Mrs. McCaskill that although she hasn't seen many cochlear implants while working in MS, she has actually seen over 15 acoustic neuromas, which are very rare! Mrs. McCaskill shared with the students that despite the challenges that her career is facing, she enjoys the unpredictability of the job and the outcome of helping people with hearing loss, both young and old, to get some of their independence back! It was a great visit!!



Erica Jackson, VHS, Mrs. McCaskill (audiologist), Andrew Hutcheson (WCHS), Priscilla Crist (WCHS), Katherine Miller (VHS), Sierra Solomon (WCHS), and Shanitra Lee (VHS). Not Pictured: Emma McLeod (VHS)

