

ALABAMA POULTRY

THE OFFICIAL MAGAZINE OF THE ALABAMA POULTRY & EGG ASSOCIATION

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President's Message



What does the Alabama Poultry & Egg Association mean to you? I mentioned during our annual meeting how this association helped shape my life and as I reflect on those days, it did more than shape my life, it changed my life. This association is filled with great people that do great things on a daily basis and, almost 30 years ago, a group of leaders sitting in a room, probably in Cullman, Ala., made a decision to grant me a scholarship so that I could have the opportunity at an education. This past spring, I had the opportunity to sit in a room with a group of leaders and we awarded nearly \$60,000 in scholarships to deserving students so they could have an opportunity at an education. In my 25 plus years in this business, I would say this was one of the most fulfilling moments of my career. As a member of this association you can be proud of the fact your support has helped and will continue to help students reach their educational goals and change their lives.

My objectives for this coming year are to continue to champion programs that positively impact the lives of our future industry leaders. Programs like the 2 + 2 Education Program, the high school certificate program for industrial maintenance and career fair awareness. I will continue to support programs that positively impact our contract growers who are some of the hardest working people in our industry. I will continue to support the relocation of the poultry farm from the campus of Auburn University to the new location outside of town. This new location is a sight to behold and, when completed, will be a world class educational facility. Finally, I will do my very best to educate and spread the good word about our industry to anyone who will listen.

In some way or the other we are all in some type of leadership role, whether in your business or personal lives. Remember that no one person in your organization is more important than another, we just have different responsibilities. And most importantly, our people are the most important asset. C.S. Lewis has a quote that stuck with me many years ago and I try my best to apply it to my day-to-day routine. He said, "Humility is not thinking less of yourself; it's thinking of yourself less."

I am truly humbled and honored to serve you and this association. Thank you for all that you do for this association and this industry we all love and enjoy.

Sincerely,

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USPOULTRY Announces the Release of a First-Ever Report of Antimicrobial Use Across U.S. Broiler Chickens and Turkeys

Contact: Gwen Venable, 678.514.1971, gvenable@uspoultry.org

Dramatic antimicrobial usage changes and improved antimicrobial stewardship

TUCKER, Ga – U.S. Poultry & Egg Association announces the release of the U.S. poultry industry's first-ever report quantifying antimicrobial use on broiler chicken and turkey farms. The new report shows dramatic reductions of turkey and broiler chicken antimicrobial use over a five-year timeframe. As part of its commitment to the transparency and sustainability of a safe food supply, the poultry industry aims to strike a balance between keeping poultry flocks healthy and the responsible use of antimicrobials, especially those medically important to human health.

Under the research direction of Dr. Randall Singer, DVM, PhD, of Mindwalk Consulting Group, LLC, this report represents a five-year set of data collected from 2013 to 2017 regarding the use of antimicrobials in U.S. broiler chickens and turkeys throughout their lifetime, from hatchery to day of harvest. It was prepared through a systematic collection of on-farm antimicrobial use data to capture the disease indications and routes of administration through which antimicrobials were given to the poultry.

Given several key differences among broiler chickens and turkeys – namely differences in weight, life span, susceptibility to lifetime illness and the number of effective medical therapies available – the data from broiler chickens and turkeys should neither be combined nor compared.

Key changes among broiler chickens over the five-year period show:

- Broiler chickens receiving antimicrobials in the hatchery decreased from 93 percent to 17 percent
- Hatchery gentamicin use decreased approximately 74 percent
- Medically important in-feed antimicrobial use in broiler chickens decreased by as much as 95 percent. For example: tetracycline 95 percent, virginiamycin 60 percent
- Medically important water-soluble antimicrobial use in broiler chickens decreased by as much as 72 percent. For example: penicillin 21 percent,

tetracycline 47 percent, sulfonamide 72 percent

- There was a documented shift to the use of antimicrobial drugs that are not considered medically important to humans (e.g., avilamycin and bacitracin BMD)
- Key changes among turkeys over the five-year period show:
- Turkeys receiving antimicrobials in the hatchery decreased from 96 percent to 4 percent
- Hatchery gentamicin use decreased approximately 42 percent
- Medically important in-feed antimicrobial use in turkeys decreased: tetracycline 67 percent
- Medically important water-soluble antimicrobial use decreased substantially. For example: penicillin 42 percent, tetracycline 28 percent, lincomycin 46 percent, neomycin 49 percent, erythromycin 65 percent
- Antimicrobial use among broiler chickens and turkeys decreased dramatically between 2013 and 2017, and there are a couple of key explanations for this:



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- Changes in FDA regulations, which were fully implemented in January 2017, effectively eliminated the use of medically important antimicrobials for production purposes and placed all medically important antimicrobials administered in the feed or water of poultry under veterinary supervision

A continued focus by poultry companies on disease prevention, thereby reducing the need for antimicrobials. Improved record-keeping of all antimicrobial administrations, which is a key component of antimicrobial stewardship

Furthermore, the broiler chicken and turkey industries have increased the production of animals raised without antimicrobials.

Participation in this effort was entirely voluntary. The poultry industry recognized the importance of this work and responded. The 2017 data in this report represent more than 7.5 billion chickens (about 90 percent of annual U.S. chicken production by the major companies on the *WATT PoultryUSA* list) and 160 million turkeys (about 80 percent of annual U.S. turkey production by the major companies on the *WATT PoultryUSA* list).

USPOULTRY Vice President of Research, Dr. John Glisson, DVM, MAM, PhD, affirms, “This research is the

first step in determining how antimicrobials are used in the entire poultry production system of the U.S., and to succeed, we need participation from the majority of companies. We couldn’t be more pleased with the response of the poultry industry.”

Glisson cautions, though, that there are still serious bird illnesses (e.g., necrotic enteritis, gangrenous dermatitis and colibacillosis) for which the poultry industry has few effective interventions. And when birds get sick from these diseases, they must receive therapy. He confirms that “driving good antimicrobial stewardship in poultry, as opposed to simple documentation of reduced use, is our end goal for the best outcomes for both the people and the poultry.”

Moving forward in 2019, Dr. Singer will continue the annual collection of data from the broiler chicken and turkey industries and will begin collecting data from the U.S. table egg industry. Glisson anticipates this new data will provide greater clarity about antimicrobial use in individual flocks, stating, “We expect even more detailed data on flock antimicrobial usage and record-keeping in the years ahead, which thoroughly supports USPOULTRY efforts to ensure proper stewardship of medications.”



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-Mike and Karen Hill



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Former AP&EA President Joe Moss Dies at 87

DECATUR — Joseph David “Joe” Moss, born on February 28, 1932 in Selmer, Tenn., passed away peacefully at age 87 on Wednesday, June 19, 2019 in Decatur.

After graduation from Memphis State College, he served as a pilot in the U.S. Air Force flying the C-124 Globemaster II for the 8th Troop Carrier Squadron, part of the 62d Troop Carrier Wing at Larson Air Force Base. Captain Moss was a Korean War veteran and served in the Air Force Reserve.

Following his military service, he and his wife moved to Decatur to begin his long career in the poultry industry as a manager at Wayne Farms. He was active on the board of directors of the Alabama Poultry & Egg Association, serving as President from 1985-86.

Moss served First Presbyterian Church in many ways as

an Elder, Deacon, Sunday School teacher for all ages, youth group leader, and occasional pulpit filler.

He was a devoted husband, father and grandfather, a strong man of faith with a fun-loving sense of humor.

He is survived by his beloved wife of 63 years, Nancy Kincaid Moss; daughter and son-in-law Nancy and Stephen Petersen of Decatur; grandchildren David Petersen of Huntsville, Alex Petersen of Decatur, Margaret Lee Petersen (Tom Kim) of Birmingham; brother Bill Moss (Vera) of Memphis; and many nieces and nephews. Joe was preceded in death by his parents, Mary and Henry Baker; sister Nell Strawn; and brother Robert Murray.

A private family interment service was held Saturday with full military honors at the Roselawn mausoleum.

The family suggest memorials be made to the Presbyterian Home for Children or your favorite charity.

A Much Needed Correction

In the recent edition of Alabama Poultry Magazine, I misidentified the owner of the stand-alone solar powered poultry farm, as Terry Butts. The owners of the Clunk-In-

Time Farm are Selina and Tim Butts. I do apologize.

Good luck with your new venture. We will want to hear more about it.



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MTC Logistics Breaks Ground at the Port of Mobile – Expands Four Fold Refrigerated Cargo Handling Capability

MOBILE – July 24, 2019 — Today, MTC Logistics (MTC), along with officials from the Alabama State Port Authority, Alabama Department of Commerce and elected officials, broke ground on MTC's 12 million cubic feet international temperature-controlled distribution center. MTC is investing approximately \$61 million at the Port of Mobile generating 50 to 70 direct jobs at the new facility.

"Our MTC Logistics Team is extremely excited about this growth opportunity for our company. It is truly a collaboration and partnership with the welcoming community of Mobile, Ala., MTC Logistics customers and our long-term partnerships helping to make this facility a reality. We will be on the cutting edge of innovation in areas of refrigeration, material handling, I.T. systems while providing best in class customer service. Mobile is a natural next step for expanding our service offering into the Southeast," said Andy Janson, president of MTC Logistics.

When completed in the fourth quarter of 2020, the new facility will provide shippers with seamless supply chain solutions focused on global commerce. MTC provides shippers a comprehensive suite of services, including blast freezing, port drayage and LTL consolidation. MTC will ex-

pand the seaport's blast freeze capability by accommodating 30 truckloads per day and providing 40,000 racked pallet positions of storage.

The Alabama State Port Authority, with assistance from Alabama economic development officials, recruited MTC to expand blast freezing and refrigerated storage capability for Alabama and regional refrigerated cargo shippers of poultry and seafood. The terminal will also handle a wide variety of refrigerated products for retail distribution. "We're extremely pleased to add this high caliber company to our portfolio of port services. MTC will more than quadruple available capacity for our export poultry producers, as well as attract new shippers," said James K. Lyons, director and chief executive officer for the Alabama State Port Authority.

The facility is located outside the gates of the seaport's container terminal with immediate access to I-10. The project received favorable endorsements by local and state officials. Ernie Ferguson, vice president of sales with MTC Logistics, added "This strategic location on the U.S. Gulf Coast will allow us to expand our service offering and we will have a significant focus on import cargo to help balance refrigerated container supply in Mobile."



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Scholarship winners: Madisyn Ross and Lucas Edmonds



Zero-turn lawn mower winner, Misty Morris of Holton

Marshall County Holds Annual Meet

The Marshall County Poultry & Egg Association held its annual meeting on Friday, July 26, on the beautiful shores of Lake Guntersville at Civitan Park. The weather was warm, but the meeting was well attended, with numerous vendors setting up displays outside the pavillion.

Koch Foods provided the chicken for the barbecue chicken meal that was served.

Scholarships were awarded to Lucas Edmonds, son of Wayne Farms growers Phillip and Yvonne Edmonds; and Madisyn Ross, daughter of Koch Foods growers Shane and Jessica Ross.

After the awarding of door prizes, donated by local merchants, there was a raffle drawing for a Kubota Zero-turn lawn mower. The winner was Misty Morton of Holton.



Nancy and Phillip Garrison present Edwin Carter with the Hall of Fame plaque and his wife, Barbara, with flowers.



Adam and Sabrina Hudson won the raffle for the John Deere Gator. Maybe they will let daughter, Etta, drive it.

Cullman County Holds Meeting

The Cullman County Poultry & Egg Association held its annual meeting on Saturday, July 27 at the Cullman Civic Center. A barbecue chicken meal was served to the nearly 300 attendees.

Highlights of the meeting included: the recognition of non-profit organizations, with each receiving checks; recognition of school Ag departments in Cullman County; a contribution to the Wanda Linker Scholarship Fund; recognition of Mike and Karen Hill as Alabama Poultry Farm Family of the Year; and the presentation of the 2019 Cullman County Poultry & Egg Hall of Fame recipient. That honor went to Edwin Carter, who has been involved with poultry since 1952.



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It's AP&EA Annual Meeting Time

The weather was balmy at the 2019 A&EA Annual Meeting at the Sandestin Hilton. On Sunday, July 14, at the "Welcome to the Beach" get-together for sponsors and board members, it was a time to meet new folks and catchup with friends. The food and conversation was flowing well when AP&EA President Mitchell Pate welcomed and thank our generous sponsors.

Bright and early the next morning, the business meeting got started. With board members, industry advisors and Association members present, President Pate introduced Alabama Department of Agriculture and Industries Commissioner Rick Pate, who spoke briefly, thanking the Association for its support. He was followed by U.S. Poultry & Egg Association Communications Director Gwen Venable. She spoke on a new report on anti-microbial use set for release in August (see pg.4).

Dr. Sarge Bilgili, interim head of the department of poultry science, talked about the new incoming freshman class and the developments at the Miller Center.

Delivering the Allied Industry Committee report, Steve Smith said that the Allied Scholarship Golf Tournament is on Oct. 18, at Chesley Oaks Golf Course.

State Veterinarian Dr. Tony Frazier reported that he is developing a new tabletop simulation for an AI emergency response plan to meet USDA regulations. He hopes to hold it in the spring.

Later that afternoon, the actual annual meeting was held, and new officers were elected. Jason Spann was elected president; Jason Shell, vice president; Casey Jones, treasurer; and Stanley Usery, secretary.

With the formalities out of the way, everyone hustled off to get ready for the evening's festivities. Volunteers worked feverishly to lay out the silent auction items for bidding. Like last year, we used the HandBid System that posted the items online. After some initial hesitation, everyone seems to like it. The silent auction went off without a problem.



New Executive Committee members and officers: Steve Smith, member at large; Casey Jones, treasurer; Ryan Turner, member at large; Jason Shell, vice president; Jason Spann, president; Stanley Usery, secretary; and Mitchell Pate, immediate past president.





Karen and Mike Hill, our 2019 Alabama Poultry Farm Family of the Year.



Casey Jones received the Presidential Award.



Barry Fuller received the Distinguished Service Award.



Chelsea Hooks Boston accepted a special award in honor of her late grandmother, Wanda Linker.



Outgoing President Mitchell Pate passed the gavel to Jason Shell, the new AP&EA president.

Annual Meeting Award Banquet

Monday night featured an impressive banquet and silent auction. President Mitchell Pate, once again thanked all of the sponsors and then introduced the new Association officers. That was followed by the annual recognition ceremony for all those who had made outstanding contributions to the Association over the past year or years.

For the first time the annual meeting our Alabama Farm Family of the Year, Mike and Karen Hill, was recognized and presented a plaque.

President Mitchell Pate presented Casey Jones, of L.B. White, with the Presidential Award for his service to the industry, working with the Allied Committee, over the past year.

Barry Fuller, of Aviagen, received the Distinguished Service Award for his being an instrumental part of the Association from meeting planning to golf tournaments, partic-

ularly the allied golf tournament.

The most poignant award went to the late Wanda Linker for her 44 years of faithful service to the Association. Accepting the award for the family was her granddaughter, Chelsea Hooks Boston.

In his last action before taking over as President, Vice President Jason Spann, in his capacity as Evening of Fun ticket sales chairman, handed out awards for ticket sales.

With the awards finished, it was time for the installation of the Association's new president. Outgoing President Mitchell Pate thanked the Association for the opportunity to serve and passed the gavel to our new President Jason Spann.

Following his remarks, the live auction began. Auctioneer Kent Stanford kept the bidding lively. There were guns, hunting trips, golf packages and spa packages to bid on.

2019 Evening of Fun Ticket Sales Awards



The Top Salesman for \$200 Tickets Award went to Roger Witt, Koch, Ashland.



The Top Salesman to Broiler Growers Award, also known as the Rhonell Word Award, for the third year, went to Judy Dutton, Tyson Foods, Snead.



The Top Salesman to Breeder Growers Award, also known as the Harold Robinson Award, went to Barry Smith, Tyson Foods, Snead. Barry has won the award for six straight years.



Also accepting the Tyson Team Quota Award was Barry Smith and Judy Dutton.



The Top Rookie Sales award went to Cliff Rule, Pilgrim's, Guntersville. It was accepted by Ryan Turner, who also accepted the award for reaching team quota for Pilgrim's, Guntersville.



Thomas Brown and Roger Witt accept the Top Team based on total number of tickets sold, Top Team based on largest percent of quota sold and Team Quota Award for Koch Foods, Gadsden.



Jason Shell accepts the Team Quota Award for the Allied Team.



Keith Martin accepts the Team Quota Award for Mar-Jac Poultry



Keith Rhodarmer accepts the Team Quota Award for Koch Foods, Collinsville

Keystone Foods – Eu-faula, Peco Foods and Koch Foods of Ashland also met team quota. We will get their awards to them at a later date.

• Mike Glass, Peco Foods, was not present to accept the award for sales to new purchasers.

Annual Meeting Golf

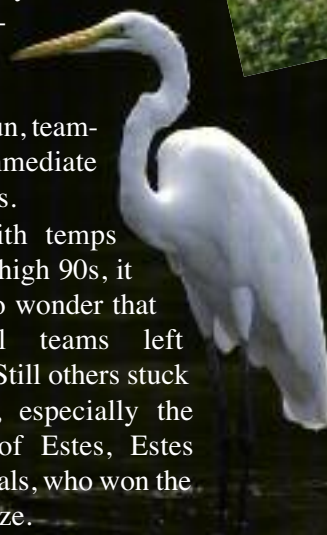
As usual for July, the Baytowne Golf Club was hot, but a little heat could not stop the poultry pros from hitting the beautiful links. Surrounded by multi-million dollar condos, bungalows and just plain mansions, they battled mightily.

Fortunately, lovely young ladies kept appearing as angels of mercy in their refreshment carts. Always ready with a smile and a cold one, they were always welcomed. They added to the fun and camaraderie.

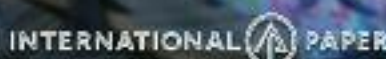
Even Commissioner Rick Pate joined the fun, teaming up with AP&EA CEO Johnny Adams, Immediate Past President Mitchell Pate, and Randall Ennis.



With temps in the high 90s, it was no wonder that several teams left early. Still others stuck it out, especially the team of Estes, Estes and Rials, who won the top prize.



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Larry Fortenberry: What Ever It Takes – And a Whole Lot More

In 1969, Larry Fortenberry started working on the cleanup crew at Spring Valley poultry processing plant in Gadsden, primarily cleaning the carcass chiller. He started doing that, as he says, just to get along for a while, but, he laughs, “Once that chicken stuff gets in your blood stream, you can’t ever get it out.” He was working 12 hours a day, five days a week, and eight hours on the sixth day.

One day, the maintenance manager, George Vines, asked him if he’d like to join the maintenance team. Larry said, “Yes.”

There was one problem, Vines explained – Larry would have to take a cut in pay. Larry balked. Vines went on, “You make \$2.01 an hour and I’ll pay you \$2.00 and hour.” Knowing that there was more of a future in maintenance than in cleanup, Larry agreed.

It wasn’t long before Vines developed enough confidence in Larry’s ability and drive that he began training him in refrigeration. Vines successor as maintenance manager also recognized Larry’s aptitude, and continued his training.

Automation was starting to make inroads into the poultry processing industry. Spring Valley, one of the largest facilities in the world, introduced it on their six eviscerating lines. Larry was moved from maintenance and put in charge of the automation equipment. It gave him the opportunity to learn about the electrical components of the equipment as well as the IT side.

From there he went to Gold Kist in Trussville. He worked there for a year before transferring to the plant in Guntersville. He had been there for about a year when he received a call from Wayne Farms in Albertville. They offered him a position as maintenance manager.

So, in 1982, he started as maintenance manager over refrigeration and waste water. Shortly thereafter, he was assigned the de-boning area. He had 108 women and two supervisors working under him, and he was working 80 hours a week. He says he was loving it.



There was, however, a fly in the ointment. By 1987, the USDA was causing constant problems. In frustration, he went to his boss, Billy Davidson. He shared his complaint and said that he was planning on leaving, but not immediately. It was just a heads-up to Davidson to begin looking for his replacement. Larry had decided that he needed to go out and do something else, he just wasn’t sure what that something else was.

When he began looking it didn’t take long to find a need to fill. Automation equipment manufacturers were very lax when it came to installing the equipment that they had sold. Larry’s maintenance crew had installed most of the equipment in the plant.

He saw a need for an equipment installation service. The problem was, he had no money. He solved the money problem by borrowing \$5,000 against his 401k from his boss, Billy Davidson.

Davidson, who had been with Wayne Farms for 33 years, and was as frustrated as Larry, was originally going to leave Wayne Farms and partner with Larry – in fact, the “D” in D&F, stands for Davidson. At the last moment however, Davidson’s wife developed bone cancer. Insurance problems caused him to remain at Wayne Farms. Within several months, Larry bought out Davidson’s interest in the company, offering him \$37,000 payable over six months. Which Larry did, giving Davidson a great return on his investment.

Larry had taken three of his key maintenance people with

him when he left. They went to work immediately, still it was a struggle. On the road visiting potential customers, he slept a lot of nights in the back of his old Chevy S-10 Blazer, with his work files tucked in the backseat floor board. He also took a lot of sponge baths in service station restrooms, but he built the business. Everyone knew that you could take his handshake to the bank. If he told you he would do it, you could count on it. The industry recognized that he had something special. People trusted him to do what he said that he would do.

He'd say, "This is my name, and this is my card – we'll do anything that you want." He laughs, "We hung paneling, light fixtures, laid brick – anything to do in a poultry plant, we did it." That's where the spirit of "Whatever It Takes" was born. That spirit enabled them to double sales each year for four straight years.

He teamed up with George Cantrell of Cantrell Machine in Gainesville, Ga. D&F Equipment would build the equipment and Cantrell would sell it. After a while, the poultry industry became aware of the quality work that Larry's company was doing, so they started coming to him directly. He was reluctant at first but went to Cantrell and negotiated a deal.

The business quickly began to grow, and as it grew, Larry gave more and more back to the industry. The primary recipient of his generosity was the Auburn University department of poultry science scholarship program. Even as an avid Crimson Tide fan, when it came to Auburn's poultry science department, Larry was open handed.

He speaks with great affection for Chris Gary, Mark Wilton and Dean Paul Patterson. He points with great pride to the day that he presented a check for \$500,000 to Auburn University to begin construction of the poultry processing building on the campus of the Charles C. Miller, Jr. Poultry Research & Education Center. He says that it was one of the greatest days of his life.

Over the years, he developed a close relationship with the Alabama Poultry & Egg Association, especially with Administrative Director Wanda Linker, over the first few years in Cullman and then in Montgomery. Larry was always willing to sponsor association events, and Wanda was never shy about asking. Larry never turned her down.

Larry, sort of retired about five years ago. He actually bought a company in Springdale, Ark., turning a \$4,000,000 a year company to a \$12,000,000 a year company. It has become D&F's Western Division. There are plans in the works to build a new 100,000 sq. ft. state-of-the-art facility in Springdale to meet the needs of the western division plant.

D&F currently has about 300 employees in the two

plants, but Larry thinks of them as extended family. Many of the "extended family" have been with the company since the very beginning. They are well paid and proud of their "family" status.

Larry keeps his own family close. On the company's web site, his daughter, Dawn Knox, and son, Lynn Fortenberry, are listed as owners. Youngest son, Brad, also an owner, helps run the Arkansas plant.



With Larry are daughter, Dawn Knox; son, Lynn; and youngest son, Brad.

Larry and his wife, Sharron, are very close to their 10 grandchildren, taking them on road trips in their RV. Larry recounts a trip to San Francisco and bicycling across the Golden Gate Bridge. Half way across the bridge, he told the kids to get out their cell phones and take a picture of him, because, as he says, "this was the last time that I'm was going to do this." He recently returned from taking nine of the grandkids to Africa, just for fun.

Larry and Sharron are dedicated Christians. They are active in their church, Compassion City Church. Sharron has a ministry to women who are experiencing difficulties. Larry gets emotional when he talks about his faith and how God has blessed his life.

They are involved in a number of charitable works. One project involves working with a pastor in the Dominican Republic. They have built a bakery there and have plans to build a second one soon.

Larry Fortenberry grew up in Alabama City, a largely industrial area of Gadsden where his father worked in a cotton mill. Larry struggled his way through high school, but is proud enough of the accomplishment to still wear his class ring. When he started work at Spring Valley, 50 years ago, on the maintenance crew, as he says, "just to get along," he had no idea of how far getting along would take him. Somewhere the "just getting along" turned into "whatever it takes," and that built a business and a Hall of Fame worthy career.



Larry Fortenberry, Dean Paul Patterson, AP&EA CEO Johnny Adams, and Auburn Poultry Science Research Unit Director Mitchell Pate review plans for the new processing plant at the Miller Center.



The Fortenberry clan gathered for Larry's big day.



Alabama Poultry Hall of Famers: Dr. J. Lee Alley, Larry Fortenberry, Jan Powell and Fred Cespedes.

A Hall of Fame Day For Larry Fortenberry

AUBURN – The new Administrative Building of the Charles C. Miller, Jr. Poultry Research & Education Center was packed for Larry Fortenberry's induction into the Alabama Poultry Hall of Fame on Aug. 16. It was a most appropriate place since it is the permanent home of the Alabama Poultry Hall of Fame.

Not only was the Fortenberry family on hand for the celebration, but also three other Hall of Fame Members: Jan Powell, inducted in 1997; Dr. J. Lee Alley, inducted in 2000; and Fred Cespedes, inducted in 2015. Many of Larry's old friends and associates were there as well.

In his acceptance speech, he singled out his relationship over the years with the late AP&EA Administrative Director Wanda Linker. "She was always there," he said. "Whenever I needed to get some information or find out who to talk to, I'd call Wanda."

He also had very warm words for Mark Wilton, Dr. Paul Patterson and Dr. Don Conner and Auburn University. He cited a time when he and his wife, Sharron, had been invited to an Iron Bowl game on campus. "We showed up with all our Alabama gear on, and they treated us like family, and that was before we gave them a dime," he laughed.

Always strong on family, he thanked his family for their support over the years, including the D&F employees, whom he considers as extended family. Seeing all of the D&F employees at the induction ceremony, it is easy to see that they love him as well.

Larry has three priorities in his life: his relationship to God, his love of family (including his extended family) and his friends. We are so thankful that the Alabama poultry industry is counted in the "friends list." **Congratulations, Larry!**



Larry and old friend, Bobby Copeland.



Larry and Mark Wilton.



Larry and wife, Sharron, share a quiet moment.



Madeline Frazier is in school on a Fortenberry scholarship.



D&F President Greg Cagle and Larry share the moment.



Larry and AP&EA CEO Johnny Adams at the presentation.



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Dr. Sarge Bilgili Awarded the PSA Distinguished Poultry Industry Career Award, Sponsored by U.S. Poultry & Egg Association

TUCKER, Ga. – Dr. Sacit “Sarge” Bilgili, interim department head of Auburn University’s Department of Poultry Science, was recently recognized with the 2019 Poultry Science Association Distinguished Poultry Industry Career Award, sponsored by U.S. Poultry & Egg Association (USPOULTRY). The award was presented during the annual Poultry Science Association meeting in Montréal, Canada, by Larry Brown, retired USPOULTRY vice president of education.

The Distinguished Career Award recognizes distinctive, outstanding contributions by an industry leader. In addition to sponsoring the award, USPOULTRY also makes an annual contribution to the Poultry Science Association Foundation on behalf of the award recipient.

USPOULTRY is pleased to honor industry leaders exemplified by Dr. Sarge Bilgili. He is widely recognized for his many years of work and contribution to poultry welfare within the industry, with his scholarly work uniquely bridging the live production and processing phases of the broiler industry,” said John Starkey, president of USPOULTRY.



Larry Brown (right), retired USPOULTRY vice president of education., presenting the Poultry Science Association Distinguished Poultry Industry Career Award to Dr. Sacit “Sarge” Bilgili, interim department head of Auburn University’s Department of Poultry Science.

“Dr. Bilgili has also been personally involved with USPOULTRY,” Starkey continued. “For many years he was advisor to our Poultry Processor Committee and was often a speaker on the Poultry Processor Workshop program. We have also recognized him for his outstanding research work. It is this service and dedication that has helped make the poultry industry one of the most proficient and productive segments of modern animal agriculture.”

Bilgili received his DVM from Ankara University in Turkey, his MS from Oregon State University and Ph.D. from Auburn University. He joined the Department of Poultry Science at Auburn University in 1985 as an assistant professor and extension poultry processing specialist, later attaining the ranks of associate professor (1991) and professor (1996). Bilgili retired as professor emeritus in 2015 and recently came out of retirement to serve as interim department head of Auburn University’s Department of Poultry Science.

Dozier Named Poultry Science Department Head

William A. “Bill” Dozier, Auburn University professor and noted poultry nutritionist, will assume a new role Sept. 1 as head of Auburn’s Department of Poultry Science. He also will serve as executive director of the 30-acre Charles C. Miller Jr. Poultry Research and Education Center, which is scheduled for completion in 2020.

Dozier’s selection followed a national search, College of Agriculture Dean Paul Patterson said. “I believe Dr. Dozier’s extensive experience as a professor and as a research and extension scientist positions him exceptionally well for his new position,” Patterson said.

Dozier, an Opelika native and Auburn College of Agriculture alumnus who returned as a faculty member in 2008, said it is an exciting time to lead Auburn’s poultry science and food science programs.

“I am excited to embrace the opportunities to impact research, teaching, and extension programs in poultry and food industries in Alabama and around the globe,” he said. “The world-class Miller Center complex will enable Auburn to build a premier poultry science program from production to consumption. We also intend to raise the visibility of our food science program.”

Dozier is recognized internationally for his groundbreaking research in determining the dietary amino acid requirements for broiler chickens and in evaluating co-products, such as crude glycerin from biodiesel plants and corn co-products from ethanol production, as alternative feed ingredients for broilers. Today, corporate poultry nutritionists in the U.S. and abroad use his data to formulate broiler feeds that maximize production efficiency.

He graduated from Auburn with a B.S. in animal and dairy science in 1992 and a doctorate in poultry science in 2000, then spent the first four years of his career as extension poultry scientist and assistant professor at the University of Georgia. Prior to joining the Auburn faculty, he was a research animal scientist with the USDA Poultry Research Unit in Starkville, Miss. Over the course of his career, Dozier has been awarded almost \$3.5 million in research funding.





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For more information and details, contact Randall Smith

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Aviagen Opens Its 9th and Largest Hatchery in US



HUNTSVILLE – To meet a growing demand for quality broiler breeding stock around the world, Aviagen® has built a new parent stock (PS) hatchery in Quitman, Ga. The grand opening ceremony was held on Aug. 22, where Aviagen CEO Jan Henriksen welcomed and extended his appreciation to Quitman Mayor Nancy Dennard, other state and local government officials, and many who played a significant role in establishing the new facility.

Aviagen's largest US hatchery

The 78,000-square-foot state-of-the-art facility becomes the 9th and largest in Aviagen's US fleet, with the ability to set 1.1 million eggs per week. The company has invested \$28 million in the Quitman hatchery, which will result in the creation of up to 100 new jobs for the local workforce.

With construction taking just under a year, the new hatchery became fully operational at the end of May, with a first shipment including an export and a domestic order in mid-June.

High capacity and biosecurity features

The hatchery's significant production capacity is made

possible using 80 Jamesway Platinum 2.0 next generation incubators and 56 Jamesway Platinum next generation hatchers. Modern environmental and hygiene-control features ensure the maximum health, welfare and biosecurity for the hatching eggs and chicks.

Another highlight that represents the latest in hatchery innovation are chick storage rooms by HatchTech. While chicks wait in these rooms before transport, they are kept comfortable with the ideal temperature, humidity, airflow and other environmental conditions – another measure to optimize chick health and welfare. Aviagen's Sallisaw, Okla., hatchery also uses this technology.

Greater service to valued customers

The Quitman GP hatchery will enable the company to better serve the needs of customers in the US and abroad, while meeting an ever-increasing demand for quality breeding stock. While the Quitman hatchery will supply domestic customers, it is also strategically located near major interstate corridors, allowing easy access to Miami and Hartsfield-Jackson Atlanta international airports for easy export to more than 80 countries around the world. We anticipate that the majority of international shipments from the Quitman hatchery will be destined for customers in Latin America.

Henriksen explains, "Aviagen is very much about our people in local communities, and shares with our customers a mission to provide a nutritious and affordable protein source that they can depend on. Through continuous improvements in our breeding program and strategic investments such as the Quitman hatchery, we strengthen our ability to secure a consistent supply of healthy, robust breeding chicks to our customers on a global scale."



Blake Gibson

Gibson Named Global Sales Manager for Jones-Hamilton

WALBRIDGE, OH—Jones-Hamilton Co. announces the promotion of Blake Gibson to the role of Global Sales Manager for the Agricultural Division. Gibson joined the company in 1994 as the Agricultural division's founding employee, where he worked to introduce to the poultry industry to PLT® - Poultry Litter Treatment one farm at a time.

Over the last 25 years, Gibson has become a well-known speaker, educating producers, integrators and other industry professionals on litter and water management in broiler, turkey and cage-free production. In his new role, he will lead the division's sales staff and manage product development and sale in US and international markets.

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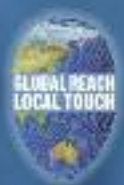


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Vaccinations: The Why and How

J. J. Giambrone, K. S. Macklin, and R. Hauck

Department of Poultry Science, Auburn University

The purpose of vaccination is to stimulate the immune response to prevent a disease. A chicken, which is rendered resistant to a disease by vaccination, is termed immunized. Besides, from vaccination, immunity may also result from recovery from a natural outbreak of a disease or can be transferred from an immunized hen to the chick through the yolk.

Vaccines are prepared from the organisms causing the disease. In the development of a vaccine, the organism, which cause disease can be “attenuated” or weakened, or the organism may be inactivated or killed. Most viral vaccines consist of living attenuated organisms, whereas bacterial vaccines usually contain, but not always, inactivated organisms. Molecular (recombinant) vaccines contain an attenuated vaccine (vector) and a portion of one or more other inserted desired target organism’s genes. When the recombinant vectored vaccine replicates, it will also replicate the inserted genes, resulting in immunity to both the vaccine vector and inserted genes. This allows immunity to several organisms at the same time and the inserted genes cannot cause disease, making it a safer vaccine.

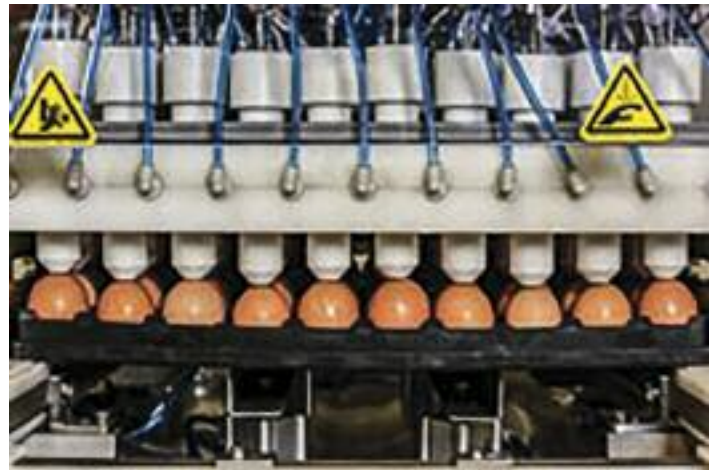
Live or recombinant vaccines must multiply within the body to produce immunity. Live vaccines may produce a mild disease from which the chickens rapidly recovers. Some reaction to the vaccine normally occurs, and, in general, the greater the reaction, the greater the immune response. Live vaccines can spread from vaccinated to non-vaccinated birds. This can be positive because birds that initially missed the vaccine will get it from other birds in the flock. However, the spread of live vaccines also poses a risk, because the vaccine can spread to flocks that were not intended to be vaccinated.

Inactivated vaccines contain adjuvants, a kind of immune response booster, which will increase the immune response. Adjuvants are usually composed of a milky white oil base that serves to slowly release vaccine particles, which continually stimulate the immune response over time.

There is always an interval of time between the administration of a vaccine and development of immunity. This varies between vaccines, but usually takes from seven to 10 days. In maternal or passive immunity, immunity is induced in the hen by vaccination and then transferred to the day-old chick through the egg yolk. Passive immunity imparts an immediate, although temporary, state of immunity against an infection and protects the chick against disease organisms during the first few weeks of life.

Most vaccines will induce a state of immunity persisting for four to six weeks, with partial protection for longer periods. Chicks do not respond well to vaccines. The capacity to fully respond to vaccines is termed “immunologically com-

petence”. Chicks generally do not become fully “immunological competent” until the 6th week of age, although they can develop partial competence during the 12th day of embryonation and can be immunized as early as the 18th day of embryonation by *in ovo* (in the egg) immunization.



Vaccines can be administered in the following ways:

- In ovo (embryo)
- Drinking Water
- Coarse spray (in the hatchery or at the farm)
- Injection
- Eye drop
- Feed or gel-like particles
- Wing web puncture

Vaccination for most chickens starts in the egg (*in ovo*) at 18 days of embryonation and/or after hatch in a coarse spray cabinet. Boosting for some viral respiratory diseases especially in the winter from 10 to 18 days in the drinking water or with coarse spray is often done. Administrations by spray or water are mass methods of vaccine application and are preferred, because of reduced labor costs, but work only with live vaccines. Inactivated vaccines have to be given by injection.

In all cases where chicks are vaccinated against respiratory diseases, administration by spray is the most effective. Water administration of vaccines may be unsatisfactory with nipple waterers, if the water is of poor quality or biofilms exists in the water lines. If the water has a large amount of scale due to salts (hard water) acetic acid or a commercial product should be given to clear the lines, followed by powdered milk to neutralize the sanitizer. Biofilm is common in water lines and is seen as a slimy material coating the inside of the water lines. Biofilms can attach to vaccine particles and render them unavailable to the birds. To remove biofilm from water lines, hydrogen peroxide or a water line additive that is effective in removing biofilms can be added to the line 24

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3 Factors that Impact Paw Health

Chicken paws have become a lucrative commodity in the industry with millions in exports annually. Paws also serve as an indicator of animal welfare during audits and can be a direct indicator of bird performance. Footpad dermatitis (FPD), the ulcerated lesions that can form on the pad of the paw, has the power to disrupt their potential. For the sake of welfare, profitability and performance, it's important to understand the top three factors that influence paw health.

1/ Litter Moisture

High litter moisture content has been shown to be a sole contributing factor to the development of FPD, especially before two weeks and as early as 3-5 days of age, with levels greater than 30% being very detrimental. Focus on litter and moisture management year-round to help avoid FPD. Even decaked and windrowed litter can cause severe burns if excess moisture is present.

2/ Bedding material and depth

The role of bedding material is to absorb and then allow for evaporation of moisture, which can be influenced by the material's particle size, moisture content and build up, and rate of caking. New bedding is often placed at inadequate depths. Research has shown a direct correlation between litter depth and FPD with paw scores improving as litter depth increased (Bilgili et al 2009). Increased litter depth leads to decreased moisture levels and improved paw quality, which positively impacts bird performance and health (Shepard et al 2017).

3/ Nutrition

Nutrition can impact the development of FPD in various ways, including affecting feces consistency and thus litter quality. For example, excess sodium can increase water intake thereby increasing litter moisture. One study that examined diets with equal protein:energy ratio with either low- or high-density levels showed broilers raised on the low-density diet had significantly fewer FPD cases than the high-density fed birds (de Jong et al 2015).

hours prior to vaccination and then fresh water is used the next day to flush out this sanitizer prior to addition of the vaccine.



Coarse Spray Vaccination in the Hatchery

Live vaccines come in small glass bottles (vials) containing a freeze dried power and must be mixed with a liquid diluent, often containing a vegetable dye, provided with the vaccine. Each vial can contain from 1,000 to 30,000 doses depending on the number and size of the houses on a farm. Vaccines are metered through a proportioner generally at 1 oz. of vaccine per gallon of water. The dosage of vaccine and amount of water to be used will be determined by the age and number of birds in the house. Waterers should not be lowered until the dye is seen at the end of the water line. All vaccine should be consumed within 2 hours. Booster vaccinations on the farm are normally given between 14 and 18 days of age and several times in pullets, usually at 6 to 8 week intervals. Birds should be walked in the house every half hour, and feed lines run to encourage all birds to drink the water. The success of administration can be determined by examining the mouth and tongue of 20 birds per house for the presence of the dye color.

Precautions need to be taken when vaccines are given in drinking water. Be conscious of the following: The equipment must be free from disinfectants. As little as 1ppm chlorine or quaternary ammonium compound may inactivate or reduce the effectiveness (titer) of vaccines. The vaccine water must be free from organic matter such as feces and debris. Rusty iron is adverse to the titer of the vaccine.

To prepare the water to add vaccine. Add one pound (500 grams) of powdered skim milk to 50 gallons (190 liters) of water, or one packet (90 grams) per 10 gallons (37 liters). The milk protects the vaccine against residues of disinfectants and the presence of feces or other organic matter.

Every bird must get a dose of vaccine. Normally water is withheld for a period of time before vaccine is given,

and all birds will be thirsty. As many birds as possible should drink the water within 2 hours. If water is withheld too long, birds may fight, or waste vaccine by splashing it. During cooler months, 2 hours is normally sufficient, whereas during warmer months 1 hour of withdrawing water is satisfactory.

Vaccination by coarse spray in the hatchery is done by special spray cabinets, which, ideally, spray the vaccine evenly on the chickens in each tray. Vaccination by coarse spray at the farm is technical and persons applying it must be knowledgeable in doing it properly and with the correct equipment. When using sprayers, all curtains should be raised and fans turned off and two passes, up and back, in a house should be made for thorough coverage. The efficacy of spray administration can be determined by examining the heads or feathers of the chickens for dye. The amount of vaccine and water added to the sprayer will depend on the number and size of the birds in the house.



Course spray vaccination in the house

More severe reactions to the vaccine will occur with spray than drinking water applications, especially if the birds are of poor quality, are stressed, or have existing infections. However, coverage and efficacy of spray is superior to water and there are fewer persistent reactions as are common with the water route. Vaccine reactions usually appear by the third day and reach their peak by the seventh day. If reactions persist past the tenth day, water additives such as Gatorade®, Chlorox®, vinegar, hydrogen peroxide, iodine, citrate-based compounds, quaternary ammonium, or other approved products can be given to prevent secondary bacterial infections. Precautions should be used when these are added and proper dosage should be applied otherwise damage can occur to the birds' digestive system.

A booster vaccination for breeder or layer pullets using an inactivated vaccine is normally given around 18 weeks when the pullets are moved from the rearing to layer farms. These vaccines must be given by injection in the breast mus-



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cle or under the skin. They are given to protect the birds during the laying cycle as well as to provide chicks with a uniform high level of passive immunity after hatch. The vaccines normally come in 500 dose plastic bottles and contain a milky oil based adjuvant emulsion that provides vaccine over an extended period. These bottles must be shaken often to maintain the emulsions.



Vaccination of breeder pullets with an inactivated vaccine

Facts and tips for successful vaccination

Facts

- The vaccination schedule is only a guide. Poultry Health ex-

perts must tailor the program to meet the specific needs of each farm.

- Strict sanitation and isolation are essential for a satisfactory vaccination program. Vaccination is no substitute for effective management.
- Do not use outdated vaccines. An old product may not have adequate potency. Do not mix live or inactivate vaccines together from different manufactures; their titers of diluents may be incompatible.
- Each vaccine is designed for a specific method of application. Use only the recommended method and dosage.

Tips

Service personnel and farmers must pay attention to the foll. wing:

- Use vaccines according to the manufacturer's directions. (Note the expiration date on the vaccine packet. Do not use expired vaccines. The effective amount of vaccine particles (titer) drops slowly even under optimum holding conditions.)
- Refrigerate the vaccine at all times other than when they are being administered. Most vaccines consist of living organisms, and will die if not refrigerated. Lack of proper

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holding is a common cause for vaccination "failures". However, inactivated vaccines should be brought to room temperature before administering them to the birds.

- Know the disease history of your farm. Obtain a laboratory diagnosis of all disease problems.
- Record all vaccination dates and manufacturer's lot numbers.
- Acquaint yourself with the advantages and limitations of each vaccine.
- Protect vaccines from heat and direct sunlight, which may inactivate live vaccines or cause the emulsions in inactivated vaccines to destabilize.
- Follow the manufacturer's instructions.
- Be sure each bird gets its proper dose of vaccine.
- Use a full 500 doses for 500 birds. Do not stretch the vaccine.
- Do a careful job; do not rush. The time saved may be costly.

- When using the drinking water method, be sure the water is free of sanitizers. These chemicals destroy live vaccines. Always add powdered milk to live vaccines
- Most vaccines contain living organisms and therefore must be handled with care.
- After vaccinating, burn or disinfect all opened containers to prevent accidental spread to other poultry. (Do not break seal on container until ready to vaccinate).

Vaccines are expensive and therefore should be handled and administered with the utmost care. Vaccination are an important step in disease control, but will never compensate for deficient biosecurity and suboptimal management. With a continued government mandated reduction of antibiotics given to chickens, disease control will become increasing important in the future.

*Photos were provided by Boehringer-Ingelheim, Inc.

After 42 Years, Giambrone Retires from Auburn

In Feb. of 2019, Dr. Joe Giambrone, professor emeritus in the Auburn University department of poultry science retired, after 42 years in the department.

In 1977, Joe Giambrone completed a Ph.D. degree from the University of Georgia in microbiology. In the same year, he was appointed an assistant professor in the poultry science department at Auburn University. In 1980 he became an adjunct assistant professor in the department of the microbiology in the College of Veterinary Medicine. He was appointed a member of the graduate faculty and associate professor with tenure in 1983, and in 1989 he was appointed to full professor.

Since coming to Auburn, Dr. Giambrone has been involved in teaching, research, and extension in the area of poultry health. Dr. Giambrone taught undergraduate, on-line, and graduate courses in poultry health.

Over the years, he has mentored numerous undergraduate and graduate students, who have gone on to careers in laboratory diagnostics, pharmaceutical laboratory research, and academic institutions. He developed the first CD ROM in poultry health and diseases. He has also served as a visiting scientist in Australia and China.

Thanks, Joe, for your service to the Alabama poultry industry. You will be missed.



Dr. Joe Giambrone, Professor Emeritus in the department of poultry science has received the Bruce W. Calnek Applied Poultry Research Achievement Award. This award recognizes a member of AAAP who has made outstanding research contributions resulting directly or indirectly in a measurable, practical impact on the control of one or more important diseases of poultry. This definitely describes Dr. Giambrone's 42 year career at Auburn University!

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CALENDAR OF EVENTS

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¹ Data on file.

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*2015 S&P Financial Report. Based on company data.

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