Team ECU: Preventing falls in older adults

Employing hope and recovery from addiction

Restoring rhythm for stroke survivors
I always enjoy writing the dean’s message for Alliance because it gives me a chance to review our annual progress with all of you, and I am proud to say the College of Allied Health Sciences has experienced another successful year.

Fall 2008 was the 40th anniversary of the arrival of our first class of students. We celebrated this historic anniversary during homecoming with a reception and an awards luncheon attended by a record 193 participants. Many of the 40 distinguished alumni honored last year helped us recognize 40 outstanding students this year. Dr. Ed Monroe, founding dean of allied health, provided a wonderful glimpse of the early years and good advice for the honorees.

Our college has grown from 465 students in 2001 to 794 students in 2008, a 71 percent increase in enrollment. To meet that demand, in the fall 2008, 246 courses were offered by the college accounting for 492 classes a week. Thirty-five courses are Web-based distance education, and 211 are face-to-face with 3,816 students attending class weekly. These students have been succeeding; the first-time pass rates of last year’s graduates were slightly higher than 96 percent, and indications are that pass rates will increase this year. In addition, we raised $450,000 last year including the Barbara Bremer Endowed Professorship in the Department of Communication Sciences and Disorders, the first in the college, as well as an increased number of student scholarships across the college.

Research is also thriving. Last year, we experienced a 53 percent increase in grant submissions. Research and special projects emphasis areas include falls in the elderly, gait and balance, health informatics, elder adult drivers, Project Working Recovery, Wounded Warrior/Project Re-entry, pediatric healthy weight, older runners and learning disabilities, to name a few. Many of these collaborative, high-impact projects have received external funding and contribute to improved clinical application. Regarding service, this year’s fifth annual Jean Mills Health Symposium on minority and rural health issues was held on Feb. 6 on the topic, “Empowering Individuals to Take Responsibility for Their Own Health.” Some of these projects and events are covered in this issue of Alliance.

Our new building has not only served to expand and enhance teaching, research, service and clinical practice but also has helped to recruit top faculty and students and has been the envy of allied health faculty and deans around the state and nation. This year, the college filled all of its faculty positions, something that has not happened since my employment here in 1980.

I hope you enjoy this issue of Alliance and take pride in what your participation and support have helped the College of Allied Health Sciences accomplish. Please stay in touch and visit us when you are in the area. We would love to show you what we are doing.

Stephen W. Thomas, EdD
Dean and Professor

A message from the dean

Due to declining state and university budgets, this will be the last print issue of Alliance until financial conditions improve. Next year this time, the electronic version of Alliance will be posted on our Web site at www.ecu.edu/ah.
Yennyemb takes his education a long distance

Running with purpose

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Assessments assist older adults

I am an ECU allied health sciences student

Lessons in faith
People with diabetes who use spirituality to cope have better health

Employing hope
Clinical work their way to recovery from addiction

Restoring rhythm
Research shows Interactive Metronome helps stroke survivors regain function

Beth Velde ‘walks the walk’
As director of ECU’s new Outreach Scholars Academy

The science of reading
Dr. Marianna Walker named college’s first endowed professor

From bedside to the bench

Pat Frede: Development news

Class notes

ECU welcomes 10 new faculty

On the cover: Colorful petri dishes await students in clinical laboratory science.
Emmanuel Yennymb has taken the positive attitude that helped him earn a bachelor’s degree at East Carolina University across the continent, where he’s leading the installation of an electronic health record system in Alaska.

Yennymb is the clinical application coordinator for the Indian Health Service at Maniilaq Health Center in Kotzebue, which comprises one hospital and 13 clinic sites. The 2005 graduate of the health information management program in the College of Allied Health Sciences did much of his coursework online while working full-time. He has continued his online work, earning a master’s of business administration degree and working on a doctorate in information technology through Capella University in Minnesota.

Distance learning takes preparation and dedication, Yennymb said. “You have to do your homework first,” he said. “You have to determine what works for you. It takes a lot of discipline. You have to make your plans and work on your plans daily.”

His enthusiasm for his work and for the opportunities in health information management is hard to miss. “Health care I.T. is one of the areas that still needs a lot of improvement,” Yennymb said. “When you say hospital, people think of nurses and doctors. But you have a lot more services in a hospital. You have an array of areas you can work.”

With the federal government’s push toward electronic health records, those areas are likely to multiply. “If each hospital becomes electronic, how are we going to be able to transmit information? How are you going to transmit that information from one system to another? How do they all talk together?” Yennymb said, summing up a significant hurdle to converting venerable paper medical records to an electronic health exchange system.

Yennymb was born in Nigeria and grew up in Ottawa, Canada. He came to the United States with his wife, who was recruited here as a nurse. They have two daughters and one son.

Faculty members knew he would be successful once he graduated. “As a student, he had such a positive, ‘can-do’ attitude, which he still projects today,” said Dr. Elizabeth Layman, chair of health information management at ECU. “He listened to feedback and incorporated it into his projects. In class discussion and projects, he had the unique ability to translate abstract theoretical concepts and didactic learning into concrete recommendations and practice. He was particularly sensitive to the human side of leadership and management.”

Yennymb’s family still lives in Greenville, and he returns to visit monthly. His job also takes him to other parts of the country, an aspect he enjoys. He encourages students to stay focused on their goals and work hard to achieve them.

“It’s amazing if you put your mind to it what you can accomplish,” he said. “You can do whatever you want to.”
By Crystal Baity

Putting one foot in front of the other carried Erin McClure and Angela Coton 26.2 miles through the streets of Chicago.

After months of training, the graduate students in physician assistant studies completed the Chicago Marathon on Oct. 12. McClure’s time was 5 hours, 31 minutes and Coton’s time was 5 hours, 42 minutes.

In doing so, they raised more than $2,500 for research close to their hearts. McClure ran in her father’s memory for the American Brain Tumor Association. Gary “Rock” McClure, a 1973 ECU graduate, died of a brain tumor in May 2001. He was diagnosed with glioblastoma when she was a high school senior. She watched her healthy, vibrant father slowly lose his battle with the disease.

“I think that experience will make me a better health care provider,” said McClure. “Because of that, I’ll have a better understanding of what people go through during difficult times.”

Coton, a Chicago native and secretary for the physician assistant studies class of 2009, raised funds for the Organization for Autism Research in honor of her best friend Gaby Mattan’s son, Jacob, who was recently diagnosed.

Coton developed an interest in physician assistant studies after spending a couple of weeks with her father in intensive care. She asked a lot of questions and a nurse asked if she were in medicine. “She said, if you’re not, you should be,” Coton recalled. She had been accepted and planned to go to law school, but a serendipitous meeting on an airplane changed everything. She sat next to a woman interviewing for a spot in a physician assistant studies program and Coton soon made a new career plan.

McClure had been a regular runner; Coton was not. It was the first marathon for both. To prepare, they followed a weekly training schedule that began with short runs and cross training with swimming or riding a bike. They increased their mileage by 20 percent each week, building up to a 20-mile run a couple of weeks before the marathon. At that point, they were putting in 30 miles each week.

The hardest part of training, besides making time for it with a full-time class schedule, was the lack of safe places to run. Many areas don’t have sidewalks. McClure and Coton created running routes that could be repeated to extend their mileage. They considered running from Greenville to Washington on U.S. 264 but decided it would be too dangerous.

“This summer, we lucked out when we had our long runs in July, August and September. It was pretty cool each time,” Coton said.

Marathon day was exceptionally hot for Chicago in early fall: 83 degrees and high humidity. Runners were advised to take care. The event could have been cancelled if conditions worsened.

They ran together the first 18 miles. There were 33,000 runners. About 31,000 completed the race out of 45,000 who initially registered. Staggered starts kept people moving and uncongested. “A couple of miles into it, we had a clear running path,” McClure said.

People watching, talking – even overhearing a couple who argued for miles and eventually dropped out – helped keep them going. Cheers and homemade signs posted by spectators, water stations, and funny nicknames runners put on their shirts like “Hot Dog” and “Tall Paul” was additional motivation. “When you were laughing, you weren’t thinking about running,” Coton said.

They traversed 29 different neighborhoods, often hearing music from mariachi to the Village People through open windows. Residents even pulled out water hoses to help cool down runners as they passed. “The city is so supportive,” said Coton, a die-hard Chicago Cubs fan.

They celebrated their accomplishment, and Coton’s 30th birthday that same weekend, by going out to dinner in high heels the night of the marathon. In the days that followed, their muscles were so sore that they had to walk down steps sideways.

McClure said she would run a half-marathon again, but isn’t sure about a full marathon. Coton, who has continued to walk and run regularly since marathon training, said she would do it again but not during graduate school. “I think we took on a big challenge on top of another challenge,” Coton said. “Time itself was the biggest challenge.”

Both are in clinical rotations now. They began the first of eight, six-week rotations on Jan. 5, and plan to graduate in December.

Graduate student Jennifer Brewer and assistant professor Leslie Allison hold Miriam Lilja’s hands as she completes tasks in the ECU falls prevention clinic.

The team provides comprehensive screening, identifies risk factors for falling, refers patients to resources in their community, and provides recommendations to patients and their caregivers to reduce fall-related risk factors. Participants are contacted weekly by physical therapy graduate students for three months as a follow-up to determine any concerns, questions or compliance with recommendations.

"Falls are an epidemic, and it’s going to get much worse," said Allison, assistant professor of physical therapy. "The boomers are coming in the ‘silver tsunami’. The health care system and public are unaware of the size and dramatic effect it will have on the health care system."

Recently, 90-year-old Miriam Lilja of Bethel completed a battery of tests in the falls clinic after being referred from the hospital. A wound on her forehead was still healing.

Armed with stopwatches and notepads, Allison and physical therapy graduate student Jennifer Brewer asked Lilja to do a variety of things – getting up from a sitting position and walking, stepping over a box, turning around in a circle, walking around a cone – to evaluate her balance and walking. Lilja said she was shuffling and not picking her feet up well. Her left leg felt limp.

Later, Brewer used a filament to touch different parts of Lilja’s feet as she kept her eyes closed. Lilja was asked to describe which part of her foot they were touching.

"I must be numb," said Lilja, who had trouble feeling some areas on the bottom of her feet. To compare, they tried the same exercise on her hands. She had no problem identifying which finger the filament was touching while her eyes were closed.

"When she can feel it, the response is rapid and accurate," Allison said. "With her feet, the response is slower and not as accurate."

After a brief rest, Lilja continued the assessment by walking normally, then at a faster pace, then slower, and repeated the pattern as Brewer and Allison timed and took notes. "Go as quickly as you safely can," Allison said.

The information is used to calculate Lilja’s risk for falls and make recommendations for modification. A regular exerciser, Lilja swims, does water aerobics and practices Tai Chi. "I knew it would help me on my balance," said Lilja, a New York native who relocated many years ago with her job at Burroughs-Wellcome.

The falls clinic is being looked at as a possible prototype for the entire state, said Painter, associate professor of occupational therapy. Allison and Painter visited states with similar programs, Wisconsin and Maine, and brought back evidence-based strategies to adapt for use here.

Statistics back up the need for the clinic. Falls resulted in more than 193,000 emergency department visits – the top cause of injury-related visits – in North Carolina in 2007, according to the Injury and Violence Prevention Branch of the North Carolina Department of Health and Human Services. One-third of people 65 and older, and nearly half of people 85 and older, fall at least once a year. Half of those will fall repeatedly. And an estimated 15 percent to 20 percent of falls lead to injury, and 5 percent result in death.

Team ECU: Preventing falls
Assessment assists older adults

By Crystal Baity
East Carolina University is a leader in research into falls in older adults and now operates a pilot clinic aimed at preventing people who have fallen from falling again.

People 65 and older seen in the emergency department at Pitt County Memorial Hospital for fall-related injuries are referred to the Brody School of Medicine’s Geriatric Center in the Department of Family Medicine for evaluation. The clinic started in July, funded by a $49,936 grant from the Pitt Memorial Hospital Foundation through ECU’s physical therapy and occupational therapy departments. The hospital, serving 29 counties in eastern North Carolina, admitted more than 1,200 people for falls in 2006 and often treats repeat fallers.

Once enrolled, participants receive an information packet to fill out at home and send in before they come to the clinic, where they get a free, thorough evaluation by an ECU team: physical therapist Leslie Allison, occupational therapist Jane Painter, geriatrician Ken Steinweg and pharmacist Ann Nye.

“When they come, we already know a lot about them,” said Steinweg, interim chair of family medicine. The team provides comprehensive screening, identifies risk factors for falling, refers patients to resources in their community, and provides recommendations to patients and their caregivers to reduce fall-related risk factors. Participants are contacted weekly by physical therapy graduate students for three months as a follow-up to determine any concerns, questions or compliance with recommendations.

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Falls are the leading cause of injury-related accidental death in older adults.

"Falls are not inevitable, and prevention is possible," Allison said. Falls are not a part of the normal aging process, but certain chronic health conditions, such as stroke, Parkinson's disease or diabetic peripheral neuropathy, combined with medication side effects, can decrease balance and increase the risk for falls in older adults, Steinweg said. "With all these things going on at the same time, it makes someone more likely to fall," he said.

If someone has a decrease in balance, unsteady gait, touches furniture or other objects in order to move around, or experiences a near fall, he or she should be evaluated by a health care provider, Allison said. "If you do nothing, it gets worse, and you will fall again," Allison said.

If someone with two or more falls within six months is left unchecked, the odds are almost certain they will fall again. Fear of falling, which Painter has studied with support from the community partnership Pitt Partners for Health, is a separate but related problem that can lead to isolation, depression and anxiety; decreased flexibility and increased risk of falls by adopting a sedentary lifestyle. "This is exactly the wrong approach," Allison said.

A significant reduction in falls and fall risk can occur with proper diagnosis and education. It requires behavior change, adoption and adherence to exercise and physical activity, home modifications and good judgment, said Allison, who with Painter is co-chair of the Eastern North Carolina Fall Prevention Task Force, with representatives from 20 agencies working to increase awareness and education about falls, provide service and engage in community research and collaboration. The task force developed a primary care physician survey and a program on screening older adults for fall risk which Allison and Painter presented to more than 100 health care professionals at six hospitals in eastern North Carolina. Data from the surveys is being analyzed.

In addition, Painter is a Matter of Balance master trainer, a community-based fear of falling education program, and the task force has sponsored a Matter of Balance workshop in which 22 health professionals from all areas of North Carolina were trained as master trainers. "It is our goal that these new master trainers will begin to teach this course to seniors throughout the state," Painter said.

As baby boomers age, education and awareness about fall prevention becomes more critical. "In 2011, every 11 seconds someone will turn 65. If that doesn't speak to the tsunami that's coming, I don't know what does," Painter said.
Lessons in Faith

People with diabetes who use spirituality to cope have better health.
Diabetes is a chronic disease in which the body does not produce or properly use insulin, a hormone needed to convert sugar, starches and other food to energy, according to the American Diabetes Association. Controlling diabetes requires rigorous daily management and medication, diet and exercise to keep blood sugar levels in check. The disease can lead to serious complications like blindness, kidney damage, amputation and cardiovascular disease, even premature death, but prevention is possible with proper self-care.

“There are several studies that show spirituality does have a positive impact on health conditions in general. I wanted to look at it specifically to diabetes and eastern North Carolina,” said Harris, an assistant professor in the Department of Health Services and Information Management with 18 years’ experience in health care administration.

She mailed a 45-question survey to 2,615 people with diabetes in eastern North Carolina. Individuals with a fasting blood glucose level of 126 or more were classified as diabetic. Harris looked at the A1c levels, a measurement of glucose in hemoglobin in a three- to four-month timeframe, over a 10-year period. The test monitors whether treatment is working or if it needs to change. People with diabetes who had at least three A1c levels documented over a 12-month period were used in the study. Average A1c levels along with slopes of the data were analyzed. The study is a significant addition to the literature because it used a biological measure, the mean A1c level, as a criterion for health status. Most studies that use A1c levels tend to rely on a single A1c measurement at one point in time, Harris said.

For the study, spirituality was defined as believing in God or a higher being. Thirty-nine percent of the respondents said they used spirituality as a coping mechanism for their diabetes more than 90 percent of the time. Twenty-eight percent used it 50 percent to 80 percent of the time, and 28 percent used it less than 40 percent of the time. Five percent didn’t answer.

Harris’ research showed that support systems also were important. A total of 28 percent said their support system included family, church and a health care program, while 23 percent used only family support, and 22 percent had family and church support. Another 16 percent said they used a combination of family and a health care program, while 11 percent relied on some other combination.

“I do not remember not being a diabetic,” said Harris, who has had Type 1 or insulin-dependent diabetes since she was 9. For 17 years, she has been on an insulin pump, which provides tight control over blood sugar with fewer fluctuations. Before, she took two to three insulin shots daily to manage her diabetes.

“I’m so thankful my diabetes is like it is, and I know my faith plays a part,” Harris said. “It makes me an optimistic person – always with hope. I think of my diabetes as a challenge not as an obstacle.”

If not for faith, Harris said she probably wouldn’t have survived a severe brain injury at age 11 when a van hit her while riding her bike. She was thrown 20 feet in the air and landed on the pavement. She lay in a coma with intermittent seizures for seven days at Pitt County Memorial Hospital, where a neurosurgeon told her parents if she survived, she would likely be in a permanent vegetative state. Their "Prayer changes things," she said. Dr. Daniel Wong, professor and director of doctoral studies in the Department of Rehabilitation Studies, initially doubted Harris’ ability to complete the program because of the time requirements needed for a full-time faculty member who also holds a master’s degree in a different field.

“She not only completed her study on schedule, but was also the first graduate from our doctoral program,” said Wong, adding the research has “tremendous potential to contribute greatly to the body of knowledge in the study of spirituality, health care and health conditions.”

Harris hopes her research will help educate other people with diabetes on the role of proper care. “If you’re able to take control of it, you will save yourself numerous complications.”

Proverbs 3:6
In all thy ways acknowledge him, and he shall direct thy paths.

Dr. Susie Harris reads the Bible daily, teaches Sunday school, sings in the choir, and is one of the founding members of Liberty Free Will Baptist Church in Greenville.
Employing hope
Clients work their way to recovery from addiction

By Crystal Baity

Choosing, getting and keeping a job as a means to sustain recovery from addiction is the mainstay of a new East Carolina University service and research project called Project Working Recovery.

The innovative program assists recovering substance abusers with resume preparation, job searches, mock interviews and other work-related skills, a complement to standard substance abuse treatment. It is run by graduate and doctoral students and Dr. Paul Torriello, associate professor in the Department of Rehabilitation Studies, and funded by the Kate B. Reynolds Charitable Trust. Progress is tracked and funded by the Kate B. Reynolds Health Organization, the project has expanded to about a dozen local agencies including the Walter B. Jones Alcohol and Drug Abuse Treatment Center, half-way houses, homeless shelters and word-of-mouth.

Many have suffered chronic abuse with a history of multiple treatment attempts. Often individuals with substance abuse issues have another diagnosis such as anxiety, depression, bipolar or post-traumatic stress disorder.

“Most have gaps in their employment history,” Torriello said.

A potential barrier to successful employment is a criminal record, which follows a person wherever they go. “We do a lot of counseling and role playing,” said Leigh Atkinson, PWR coordinator. Counselors coach clients to show how they’ve changed to prospective employers. “It gets them thinking of their history in a new way. It’s less of a barrier and more of a stepping stone,” he said. “We try to better direct and not set them up for failure.”

NormaEason, a 47-year-old community college graduate, has participated in the program since August. “It’s been a great experience,” Carbaugh said. “I don’t think I would have gotten as much counseling experience without being here.”

Tuesday through Friday, counselors see an average of seven clients each day who are unemployed or under employed in a treatment program. An estimated 50 percent are homeless and most do not have health insurance, instead relying on public clinics for medical care. About half are Caucasian, and there are twice as many males as females.

A promising component of Project Working Recovery is the database Zeng created. An assessment instrument takes a composite score of a client’s severity issues while constantly updating scores using follow-up information from each visit.

“The beauty of this is its functionality. It provides real-time analysis of the data every day and shows trends,” Torriello said. “It gives us the ability to look at the no-show rate daily, weekly and monthly. You can cross-reference. For substance abuse treatment, it’s light years ahead.”

Zeng has used the project as case studies for his students in database design. “It’s a real-world project,” he said.

On a qualitative level, Torriello is seeing the outcomes he expected. The sample size has been too small for a quantitative study. In the coming

Clients prepare resumes, search for jobs, participate in mock interviews and fine tune work-related computer skills through ECU’s innovative program.
Employment is the cornerstone of recovery,” said Tracie Campbell, PWR coordinator. “We try to motivate them and keep that in their mindset.”

months, Torriello said, they will be able to answer quantitatively if Project Working Recovery is successful.

Anecdotally, there’s been progress since the program began in October 2007. One woman who had been living in a halfway house eventually got a job as a homeless shelter supervisor. “She loves it, and she refers back to us,” Torriello said.

Finding a job in a recession may seem a tall order. “We’re seeing a lot of people getting seasonal work, short-term jobs, but they’re still coming in because of the realization that the job is short-lived,” Campbell said. “I personally think that is a big step. To see the growth, looking beyond the short-term, and trying to look ahead. To see them take that step, it’s very encouraging.”

In the future, Torriello and Zeng will continue to develop the database, seek additional grant funding and move toward state licensure to enable the clinic to bill Medicaid for services and sustain the program for years to come.

There are only a few other places in the nation with similar programs. “We’re modifying the interventions, and continue to, based on how our clients perform,” Torriello said. 

Rehabilitation studies graduate student Dave Bautista helps a client in the lab.
Alliance 2009

By Doug Boyd

Kim Baucom looks plenty fit as well as stylish in her jeans, sandals and painted toenails. She appears to walk and talk with ease.

But appearances don’t always tell the whole story. Baucom is recovering from a stroke she experienced in 2008. That’s what has brought her to East Carolina University, where she’s working with occupational therapists in the College of Allied Health Sciences on timing and rhythm with a neuro-motor assessment tool called the Interactive Metronome.

The device was developed in the early 1990s as an aid to improving the neurological processes of motor planning and sequencing. According to the company Web site, therapists use it to help children with learning and developmental disorders as well as adult neurological rehabilitation patients. It became available to the public around 2000.

Motor planning and sequencing, such as coordinating movements for walking or putting the words of a sentence in order, are central to human activity. The metronome works by using neuro-sensory and neuro-motor exercises developed to improve the brain’s inherent ability to repair or remodel itself through a process called neuroplasticity.

“As the name implies, metronome, it is about timing, about sound,” said Dr. Leonard Trujillo, chair of occupational therapy at ECU. “Just like when you’re a pianist, a musician, they want you to get your timing down, they put a metronome there. The concept of being in time with others has been around for centuries, really. These help integrate the individual’s ability to move in a rhythmical, smooth pattern.”

The human brain’s efficiency and performance depend on the seamless transition of neuronetwork signals from one area of the brain to another. One study suggests the metronome works by augmenting the brain’s internal processing speed. The key regions of the brain that are affected appear to be the cerebellum, prefrontal cortex, cingulate gyrus and basal ganglia, according to the company Web site (http://www.interactivemetronome.com). These parts of the brain are responsible for timing as well as other daily functions such as sustained attention, language formulation, motor coordination and balance.

The metronome program challenges the patient to synchronize a range of hand and foot exercises to a precise computer-generated tone heard through headphones. The patient attempts to match the rhythmic beat with repetitive motor actions: clapping, tapping the hand to the thigh, tapping the foot. A patented auditory-visual guidance system provides immediate feedback measured in milliseconds. Green signals mean the participant was within 15 milliseconds of the tone. Yellow signals mean the participant was within a 100 milliseconds before or after the tone. Red means the participant was more than 100 milliseconds off. The colors appear to the left or right of the center marker to indicate whether the user was early or late.

Over the course of the treatment, patients learn to focus and pay attention longer, increase physical endurance and stamina, filter out distractions, improve their ability to monitor mental and physical actions as they are occurring and progressively improve coordinated performance. Targeted patient populations include attention-deficit hyperactivity disorder, traumatic brain injury, stroke, multiple sclerosis and others.

“It does challenge the full body,” Trujillo said. “It does challenge two-hands and two-sided movement.”

With a $20,000 grant from Interactive Metronome, Trujillo is leading a study of post-stroke patients to see if the device can help them gain more fluid movement and better coordination.
“The person who’s had a stroke has lost the movement,” Trujillo said. “If we can use this to encourage development and get a return of that movement, that’s invaluable for the client.” He’s seen some patients who did regain movement in their limbs and hands and improve their function.

“There are people who had a stroke three years ago and were told by physicians they would not get anything back, so we’re seeing these kinds of positive changes. It doesn’t matter what the physician says. We are making changes,” Trujillo said.

Other faculty members are also using the metronome in research. Dr. Jane Painter, an associate professor of occupational therapy, is supervising graduate students who have recently completed a study to determine if the metronome is an effective method of improving balance among older adults. They worked with two married couples, and one of the men had Parkinson’s disease. They are in the early stages of data analysis.

At the other end of the age scale, Dr. Carol Lust, an assistant professor, is using the metronome as part of a writing study with children in the federal Head Start programs.

In the past, ECU researchers have used the device to improve coordination among older drivers. ECU studies have shown an average 25 percent improvement in participants’ base scores in the metronome’s timing and coordination exercises.

In Trujillo’s study, participants work with the metronome twice a week for 45 minutes each time. The study began last July and goes through this July. Study subjects take part for eight weeks.

Baucom, 45, is a former amateur tennis player who reached the nationals with her Ohio league in 1997 before she moved to North Carolina. Last year, while preparing dinner at her Farmville home, she felt dizzy, then noticed an odd feeling in her left arm and then had trouble eating. She couldn’t keep her food in her mouth.

“I looked at my husband and said, ‘I think I had a stroke,’” she said. Even so, she cleaned her kitchen a little before the couple drove to Pitt County Memorial Hospital. Doctors determined she did have a severe stroke and kept her in the hospital for five days but couldn’t determine whether she had an ischemic or hemorrhagic stroke.

Now, she can walk well and drives herself, but lacks fine motor skills, especially with her left arm and hand. “I thought I would see more progress, because it’s been nine months,” she said of her rehabilitation.

As an accomplished athlete, her hand-eye coordination excelled before the stroke. It still shines with the Interactive Metronome. In one exercise, she hit the target 17 consecutive times. After four weeks in the study, she said her bilateral movement is better. She can now fold towels, which she couldn’t do before.

Baucom also has some musical training, which helps her have good timing, according to occupational therapist and clinical researcher Annette Jones.

“If they’ve been trained in music, they start off at a higher level,” said Jones, who’s working with Baucom and other study participants. “It’s the rhythm, the beat and the timing.”

Another patient, John DeCook, had a stroke three years ago. Today, he has speech difficulty and disability on his right side. But he drives each week from his home in Jacksonville to work with the metronome. Working and concentrating hard, DeCook, 54, breaks into a sweat during the exercises. He has seen some improvement, saying he can more easily put on his shirts, walk and climb stairs. His right arm is also more relaxed.

After each exercise, he sighs, sounding disappointed because his competitive nature makes him want to master the metronome. But he also has an easy laugh with the therapists as they get ready for the next round.

Trujillo said that’s a common reaction from patients who know they’re getting better.

“They’re like little kids,” he said. “They get a big smile on their face.”

Alison Grieshop, an ECU occupational therapy graduate student, helps John DeCook of Jacksonville get ready for an exercise using the Interactive Metronome.
Dr. Beth Velde knows the importance of community engagement in scholarly work. For 11 years, she has partnered with the small, North Carolina community of Tillery on research, health services, grants and publications. The benefits, she said, have flowed both ways. “Tillery has been my teacher,” said Velde, professor of occupational therapy and assistant dean in the College of Allied Health Sciences. “I always said they have given me far more than I have ever done for their community.”

Now, Velde will be encouraging other ECU faculty members to pursue scholarship related to community outreach, partnership and curricular engagement as the director of ECU’s new Outreach Scholars Academy. Housed within the Office of Engagement, Innovation and Economic Development, the academy’s purpose is to cultivate engaged scholars who can be leaders in their professions while working with communities to improve quality of life and foster economic prosperity.

Dr. Ted Morris, associate vice chancellor for Engagement, Innovation and Economic Development, said the academy developed out of recognition that “more could be done to support and enhance faculty knowledge and capacity to secure external funding and conduct scholarly work throughout the region.”

“The academy is an important part of ECU’s response to the UNC Tomorrow Commission and the university’s application to the Carnegie Foundation for the Foundation’s Engaged University classification,” he said.

Ten faculty members embarked on the program this spring including Dr. Jane Painter, associate professor of occupational therapy in the College of Allied Health Sciences. Representing a range of disciplines, these tenured, tenure-track and fixed-term faculty members were nominated by their deans and chosen by a selection committee. They will attend six three-hour workshops to learn about community-based research and resources available to them on campus, and work with a coach to develop their research plans. In the fall, scholars who complete the program will be given a seed grant to help launch their studies.

ECU, its students and community partners will benefit from the program. The academy will raise ECU’s profile as an engaged, doctoral institution and leverage external grants for faculty research, Velde said.

“The scholarship of engagement and work with community has become a high profile issue for universities across the nation, and, I think because of ECU’s motto, ‘To Serve,’ this fits really well with what we’ve done in the past,” Velde said.

Evaluating opportunities that develop in these projects, and community agencies will gain by partnering with scholars on high-quality research initiatives, she said. “These projects will start to address some really difficult needs in our communities, for example, the health disparities issue, the difficulties that K-12 schools are experiencing and some of the environmental issues that are prevalent in this region,” Velde said.

Research can involve global initiatives, though studies focused on eastern North Carolina will be encouraged.

Dr. Deirdre Mageean, vice chancellor for research and graduate studies, said that, through the academy, ECU will “enhance the already strong link this university has with the communities of eastern North Carolina.”

Velde is excited to head the academy, especially since much of her academic career has engaged the greater community. In addition to her work in Tillery, she has done quality-of-life research with the Caswell Center and the Parent Support Group for Children with Asperger’s Syndrome, and has organized service-learning projects throughout the region. “This is an evolution in my role at ECU, and it represents something that has been meaningful to me, both personally and professionally. I’m very excited about it. The academy verifies our commitment to our communities and to our recently awarded Carnegie Foundation Community Engagement Classification,” Velde said.

Mageean described the choice of Velde to lead the program as a “no-brainer.” “I think it is always best when you can have somebody lead by example,” Mageean said. “Beth can walk the walk as well as talk the talk.”

Dr. Beth Velde is encouraging faculty members to pursue scholarship related to community outreach, partnership and curricular engagement.
The science of reading
Dr. Marianna Walker named distinguished professor in communication sciences and disorders

By Crystal Baity
Early in her teaching career, Dr. Marianna Walker developed a course in language and learning disabilities.

Soon she was forging a new frontier with research into the science behind learning to read and write.

Walker, a speech-language pathologist and associate professor in the East Carolina University Department of Communication Sciences and Disorders, is studying the underlying causes of reading disorders and the ways that normal readers and dyslexic readers can work with educators to enhance the development of reading and oral language abilities.

This semester, Walker is sharing more than 20 years experience as an educator, clinician and researcher with other disciplines at ECU since being named the College of Allied Health Sciences’ first endowed professor in August.

Now Walker is sharing more than 20 years experience as an educator, clinician and researcher with other disciplines at ECU since being named the College of Allied Health Sciences’ first endowed professor in August.

As the Barbara W. Bremer Distinguished Professor in Language Learning and Literacy Disorders, Walker is promoting teaching and learning between communication sciences and disorders, the Thomas Harriot College of Arts and Sciences, the College of Education and the Brody School of Medicine.

“Were trying to establish a consortium with education, English, medicine and child development,” Walker said. “We want to provide an interdisciplinary venue for learning how to work with children having language learning disorders. We would like to offer classroom and practicum experiences for a group of students, from various disciplines, who will seek professions in working with children having language and learning disorders.

We want these students to all learn together and from each other.”

As part of the fellowship, adolescent psychiatry fellow will shadow Walker this semester.

“I want to develop that interdisciplinary piece to teach education students about the science of reading and language, how it translates to the classroom, and how speech language pathologists can work with educators to enhance the development of reading and oral language abilities,” Walker said.

Two of Walker’s communication sciences and disorders students are Donna Lawrence Wolfe and Brittney Gee.

“You have the language side, the neurosciences to reading, not just ‘there’s a problem, but why?’” said Gee, a graduate assistant and clinical researcher. “It’s a whole new world.”

First-year graduate students gain evidence-based practice and focus on language systems. “With oral language, reading and written language, if one is deficient, it will affect the other,” Wolfe said. “All those systems are involved.

Wolfe is a licensed speech-language pathologist and third-year doctoral student. She is researching the comprehension abilities of average readers and those with reading disorders by measuring how fast someone can read or react to a word.

“If you increase reading rate, you increase comprehension, but at what point does it decrease?” said Wolfe, who previously worked in the public schools.

Walker inspires her students.

“She is a great mentor,” Wolfe said. “She has such a passion for this field. It makes a huge difference when you’re a student.”

Another objective of the fellowship is service. Walker, in addition to a nationally-known researcher in language and literacy disorders, will deliver the annual Bremer lecture.

She also will design clinical studies, seek grant funding and coordinate the collection of research data to the North Carolina Scottish Rite Childhood Language Disorders and Dyslexia Program in the ECU Speech Language and Hearing Clinic.

Walker has been evaluating children and teens in the clinic for many years, and sees the opportunity to entice her students to get involved in evaluation and research in this area.

The clinic is where Walker first saw the connection between learning language and literacy disorders.

“When you think about a child with a problem, you have to think about the total child, and you have to think about all the disciplines involved to help the child achieve,” Walker said. “We can’t work in little silos.”

And collaboration among disciplines is the goal of the Bremer professorship.

Walker first met Bremer when both were in graduate school at ECU. Walker received her bachelor’s and master’s degrees in speech language and auditory pathology from ECU. She earned her doctoral degree in literacy and language from North Carolina State University.

She serves as chair of the North Carolina Board of Examiners for Speech & Language Pathologists and Audiologists.

Dr. Marianna Walker studies the underlying causes of reading disorders. Top left, 69-year-old Jorden Dail of Winterville works in the ECU Speech Language and Hearing Clinic. Bottom left, Donna Lawrence Wolfe, left, and Brittney Gee, right, compile data in the lab with Walker. Dr. Chris Bremer, professor emeritus of family medicine in the Brody School of Medicine, has a long history of supporting students.

In addition to the professorship, a scholarship in Walker’s name is awarded annually to communication sciences and disorders graduate students. ©
Novice Hoskins
From bedside to the bench

By Crystal Baity

Sitting down with the Sunday newspaper is one of Novice Hoskins’ favorite things, along with reading nursing blogs and watching cable or network news. “I’m addicted to it. I try to keep up with current events,” she said.

Not that she ever lingers long. A registered nurse, she works part time and attends class full time as a junior in the Department of Clinical Laboratory Science.

Hoskins began as a nursing assistant, became a certified medical assistant and phlebotomist and put herself through college in Greenville, S.C. She has worked at Greenville Technical College in Greenville, S.C. She has worked nursing school at Greenville Technical and UNC Hospitals and in private practice dialysis. Most recently she’s been on night shift caring for patients at Tower Manor in Greenville.

“The main thing is the acuity. People are a lot sicker now and people are living longer now,” said Hoskins, a Macon, Ga., native.

Her patients range from middle-aged to more than 90 and her caseload is typically 20 to 25 patients.

“I like my patients. I try to have a connection with my patients. I like to be able to solve problems,” Hoskins said. “I’ve been told I’m a good nurse.”

Working as a phlebotomist led her to her interest in clinical lab science.

“I went into nursing not knowing the stress level. When I was a lab assistant or phlebotomist, I didn’t see the nurses at their stressful moments,” said Hoskins as describing the physical and emotional strain. “Nursing has made me a better leader. I don’t regret going into nursing at all.”

As a non-traditional student, her re-entry into academic life has gone well. “It’s been at least five years since I had a microbiology class,” said Hoskins, who completed pre-med coursework at Clemson University before transferring to Greenville Tech for nursing.

“Novice is a good student and has a strong background in the health sciences,” said Dr. Richard Bamberg, professor and chair of clinical laboratory sciences. “She is very disciplined and has a high level of integrity and professionalism.”

Hoskins received the 2008 scholarship from the North Carolina Society for Clinical Laboratory Science, a chapter of the American Society for Clinical Laboratory Science, the only one awarded in the state last year.

Evaluating a blood cell count for infection or identifying a microorganism is some of the behind-the-scenes work that a medical technologist does. “People don’t know how that works. When I tell people I’m going into clinical lab science, they say, you already know how to do it (because she’s a nurse).” It’s frustrating, the professor. “I’m going into now, you actually perform the test, not just collect the specimen. I’m performing the tests that I use as a nurse to take care of my patients.”

After graduation, Hoskins hopes to be a generalist or work in a clinical chemistry department.

“I hope I will enjoy working in a lab and I still want to go to medical school one day. I’m leaning toward pathology,” said Hoskins, who is on track to graduate in 2010. Novice Hoskins is a nurse and a junior in the Department of Clinical Laboratory Science.

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Scholarships

Sarah Parker Womack was one of five recipients of the Robert H. Wright Alumni Leadership Award. Womack of Washington received a bachelor’s degree in health services management last May. The $250 award recognizes academic achievement, service to the university and community and leadership qualities.

Kristal N. Mills, an anthropology doctoral student from Trenton, received the Bebeker Foundation Fellowship valued at $3,000. The scholarship honors exceptional accomplishment, commitment and skill toward a career in allied health sciences. Mills also received a $500 graduate student travel award from the Association for Research in Otolaryngology.

LaTonya R. Taylor, a junior from Kinston in the Department of Communication Sciences and Disorders, received the ECU Medical & Health Sciences Foundation Scholarship. The $1,500 scholarship honors recipients who contribute at least a 3.0 grade point average who are financially need and scholarship.

Jennifer Long received the Health Sciences Golf assistant studies student from Asheville who are financial need and scholarship.

David Peeples received the American Academy of Physician Assistants Veteran’s Covenant scholarship valued at $1,250. Eligibility is based upon the student’s scholarship, service, and recommendation of department chair Larry Dennis.

Mark Allen, a Physician Assistant Program medical student from Asheville, received the Health Sciences Golf assistant studies student from Asheville who are financial need and scholarship.

Classical Scholarship. The $3,000 scholarship honors recipients with at least a 3.5 grade point average, achievement in clinical study and community service.

The following students were honored in the Department of Physical Therapy: Danielle Bogner received the Catherine Virginia McCalley Memorial Scholarship. The $1,500 award is given annually for outstanding academic achievement, caring attitude and professional commitment.

Katie Korose DeJena and Kali Phillips received the George Hamilton Scholarship. Hamilton began the physical therapy department and chaired it 19 years. Each scholarship is $500 and assists third-year students enrolled full-time with grade point averages of 3.5 or more.

Amanda Mahaffie of Raleigh received the Lyllian Pearl Eason Award. The $1,000 scholarship is awarded to a second-year student interested in geriatric physical therapy. Mahaffie also received the Gravely Foundation Scholarship valued at $500. Academic excellence, financial need, good citizenship and dedication to the enhancement of the professional major are requirements for the award.

Jenna Safer King received the Dale A. Huggins Scholarship. The $1,250 award goes annually to a student who plans to practice in eastern North Carolina and who demonstrates financial need.

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What a year it has been

By Pat Frede

I never imagined so many wonderful things could happen in only a year. In November, our alumni, students and their parents joined in celebrating the 40th anniversary of the first class of students in the School of Allied Health Professions and Medical Education Center, under the first dean, Dr. Edwin Monroe. We were grateful that so many of you took the time to "come home." We also have several milestones to be thankful for: the establishment of the first distinguished professorship, the creation of college-wide funds for research and student leadership, and the College of Allied Health Sciences’ Patriot Scholarship.

Through the generosity of our donors, we have endowed scholarships in every department of the college. We sincerely appreciate all you give, whether it is a monetary gift, your time in teaching or mentoring our students, your willingness to hire our students, or the way you represent ECU in our communities through service and health care. We are updating our alumni database so we can stay in touch. Please visit the Web site www.ecu.edu/alumni to add class notes, tell us what’s new with you and your family, and add or update your e-mail address or other contact information so we can keep you posted on what’s going on in the college and your department. We would like to plan more reunions and we can keep you up to date on that as well. At ECU, we say “tomorrow starts here” and our tomorrow holds great promise thanks to all of you. On behalf of the College of Allied Health Sciences, we are very proud of you and we thank you.

Editor’s note: Frede, senior chief petty officer in Operation Enduring Freedom and former active duty and reservist with the United States Navy, has been recalled to active duty in support of Operation Iraqi Freedom. She is now working at Let’s Talk Speech and Language Services in Raleigh, a business she and a past student opened.

Determination

pays off for little girl, alumna and ECU

A new endowed scholarship will honor an East Carolina University graduate in speech language pathology and a child she has helped learn to talk.

Frank and Renee Floyd of Raleigh have established the Tammy Johnson McDowell & Riley Floyd Endowed Scholarship in Speech-Language Pathology in honor of their 10-year-old daughter and her speech language pathologist.

This is the first of its kind at ECU. The recipient will share McDowell’s passion for children and “never give up” attitude.

McDowell, a 1987 ECU graduate with a master’s degree in speech language and auditory pathology, has a passion for helping children succeed. That passion is clearly evidenced in her work at Let’s Talk Speech and Language Services in Raleigh, a business she and a partner started some 13 years ago.

Her work has improved the lives of numerous children and their families including the Floyds, whom McDowell met when Riley was 2. She was non-verbal and exhibited a severe form of childhood apraxia of speech, a disorder in which children are unable to execute speech articulatory movements because of motor planning and coordination problems. These children know what they want to say, but just can’t say it.

The Floyds were searching for the miracle that would enable their child to talk. McDowell gave them hope. “I believe she will talk,” she said.

McDowell now has Riley evaluated by a nationally known expert in the field, who offered no encouraging words and suggested she wouldn’t be able to talk. McDowell persevered, and through determination, creativity and hard work, Riley now is able to speak in sentences and express her wants and needs. Although her speech is not perfect, McDowell saw first-hand the impact of her hard work.

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McDowell now has Riley evaluated by a nationally known expert in the field, who offered no encouraging words and suggested she wouldn’t be able to talk. McDowell persevered, and through determination, creativity and hard work, Riley now is able to speak in sentences and express her wants and needs. Although her speech is not perfect, McDowell saw first-hand the impact of her hard work.
1974
Bonnie Jean Rettgers (BS speech, language and auditory pathology; MS '80 audiology, Colorado State University; AuD '04 Arizona School of Health Sciences) of Tihoga, Calif., received the Leadership Award from the American Academy of Audiology in 2004. She is a member of The Flying Samaritans and Amneal Med, who provide medical care to people in remote areas of Mexico.

1979
John Dwight Penno (BS physical therapy) is pursuing a doctorate of physical therapy at Virginia Commonwealth University. He works for Professional Therapies Inc. in Roanoke, Va. He and his wife Sarah, ’79 ECU nursing, have two sons, Matthew and Daniel.

1980
Sheila Jones Summer (BS speech language auditory pathology, MS ’82) is intake coordinator at Raleigh Children’s Developmental Services. Her husband is Wes Summer, ’78 ECU, and they have three children.

1982
Lori Leeds (BS physical therapy) of San Jose, Calif., is a physical therapist, certified ergonomist and manager with North Coast Medical. She has an 18-year-old son.

1983
Mary Margaret White Walsh (BS occupational therapy) of Raleigh works with Triangle Orthopedics. She and her husband, Mike, have two sons, Ryan and Will.

1984
Joy Harder (BS medical record administration) of Ayden is a private officer and an administrator in the Office of Audit and Compliance for University Health Systems of Eastern Carolina in Greenville.

1985
Sarah Sutton Wilbert (BS health information management) is a manager of health information at LifeCare Hospital in Plano, Texas. She and her husband have two children, Madeline and Luke.

1986
Heidi Williamson Neuborg (MS rehabilitation counseling and substance abuse) is a licensed rehabilitation counselor and has started a private practice in New Jersey.

1991
Timothy L. Grubel (BS physical therapy) of Winston-Salem graduated from Wake Forest University School of Medicine in 2005. He is completing an anesthesiology residency and will begin a cardiothoracic anesthesiology fellowship this year at WFLU. He and his wife, Laura Winde, an ECU alumna, have three children.

1993
David A. Keller (BS occupational therapy) of Rural Hall became a certified hand therapist in 2002 and has been a hand therapist for 13 years. He married Lisa Michelle Helmon, also an occupational therapist, on Feb. 2, 2008. Tracy Benton Nunn (BS physical therapy) of Lexington is clinical director of Performance Physical Therapy in Cary. He and his wife, Melissa Coltrin Capannola (ECU ’97 BS physical therapy), have two children.

1994
Edward A. Bissel (BS occupational therapy) of Rural Hall became a certified hand therapist in 2002 and has been a hand therapist for 13 years. He married Lisa Michelle Helmon, also an occupational therapist, on Feb. 2, 2008. Tracy Benton Nunn (BS physical therapy) of Lexington is assistant director of rehabilitation services and site director at North Davidson Rehabilitation. She and her husband, Mike, have two children, Ryan and Olivia. Jamey Tisdale (BS clinical laboratory science) is group product manager for Microsoft Corporation and founder of www.GeekGamers.com. He lives with his wife and three sons in Davall, Wash.

1995
Sarah Sutton Wilbert (BS health information management) is a manager of health information at LifeCare Hospital in Plano, Texas. She and her husband have two children, Madeline and Luke.

1996
Kelli McCarthy Black (MS physical therapy) is assistant director for the outpatient physical therapy at St. John’s Health System in Springfield, Mo.

2001
Nina McClellan Atchley (MS audiology) and her husband, Allen Powell Atchley, ECU ’01 MS audiology, celebrated the birth of their son, Nathan McClellan Atchley, on Oct. 28, 2008.

2002
Kaij Lonsbary (BS physical therapy) of Greenville works in the information technology department at ECU. She is pursuing a master’s degree in adult education.

2003
Kris Shue McColl (BS health information management) is assistant manager of the medical record department at Gaston Memorial Hospital in Concord. She is completing a master’s degree in health administration.

2004
Jana L. Stoddard (MS physical therapy) of seaside Ferry had a son, Charles Jackson Lowman, on Aug. 31, 2007. She works at New Hanover Regional Medical Center in Wilmington.

2005
David Reach (BS health services management) of Baefour is director of clinical education in the respiratory therapy program at Carteret Community College in Morehead City.

2006
Michael Casey (MS rehabilitation studies) is a rehabilitation counselor for the West Virginia Division of Rehabilitation Services in Charleston.

2007
Frey Hardy Lynch (health services management) married Del Lynch in September 2008. She is practice manager of Carolina Behavioral Health in Durham.

2008
Abigail Elizabeth Martinez (MS speech language and auditory pathology) is an elementary school speech language pathologist in Stafford, Va.
The College of Allied Health Sciences welcomes new faculty

10 degrees in statistics from the University of Iowa. His research interests are in statistics and audiology and foreign languages at West Virginia University, a master’s degree in speech pathology at the University of Cincinnati, and a doctorate from Washington University in St. Louis.

Michael T. Hartley is an assistant professor in the Department of Rehabilitation Studies. He is a certified rehabilitation counselor and member of the American Counseling Association. In the past, he worked as a rehabilitation counselor to assist individuals with disabilities to live independently in the community. He also served as a director and advocate for a Rural Independent Living Center.

Andrada Ivanescu, assistant professor in the Department of Biostatistics, received her master’s and doctoral degrees in statistics from Florida State University. As a graduate student, she worked on meta-analysis to find the optimal body weight of individuals across a collection of cohorts from different nations.

Sue Leach has joined the Department of Physical Therapy. She holds a bachelor’s degree in human performance from the University of Toledo, a master’s in physical therapy from Columbia University, and a doctorate in motor behavior from Louisiana State University. She is a nationally board-certified clinical specialist in neurologic physical therapy. She previously worked in a rehabilitation hospital and a rehabilitation center treating patients with stroke, spinal cord injuries, amputation, brain injuries and other diagnoses.

Jacob N. Thorp, assistant professor in the Department of Physical Therapy, received a bachelor’s degree in biology from Teresa University, a physical therapy degree from Dos Mares University, an osteopathic medical center, and a doctorate in health science from the University of Indianapolis. He has a manual therapy certification from St. Augustine University. Thorp previously was an outpatient orthopedic therapist and clinic director with Physical Therapy Associates in Nashville, Tenn., and a staff therapist at Vanderbilt Medical Clinic. His research interests include kinematics of the jaw joint and its relation to the cervical spine and posture.

Jane Trapp, clinical associate professor in the Department of Physician Assistant Studies, earned her bachelor’s degree and physician assistant certificate from George Washington University. She completed a post-graduate physician assistant surgical residency program at Nova Southeastern University. She received a master’s degree in educational leadership from Walker University. Trapp previously was a faculty member and program director at Pennsylvania College of Technology in Williamsport, Pa. She has been a physician assistant in emergency medicine and urgent care in several facilities in Pennsylvania, Ohio and North Carolina.

Shawn M. Wagner has joined the Department of Physician Assistant Studies as clinical assistant professor and clinical coordinator. He received a bachelor’s in medical science (physician assistant) and a master’s in medical science (with emphasis in emergency medicine) from Alderson-Broaddus College in Philippi, W.Va. Wagner has been practicing a physician assistant in emergency medicine for 16 years.

Alliance is published annually by the East Carolina University College of Allied Health Sciences for alumni, faculty, staff and friends of the school. Send your story ideas or comments to the Editor, ECU News Services, Division of Health Sciences, Lakeside Annex #3, 200 Mose Boulevard, Greenville, NC 27858, 252-744-7564, or e-mail news@ecu.edu.

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U.P. 09-32G. Printed on recycled paper.

Dr. Carmen Jones, a family physician, epidemiologist and research director on social determinants of health and equity for the Centers for Disease Control and Prevention, provided the keynote address for the annual Jean Mills Health Symposium held Feb. 6 at the Greenville Hilton and Greenville Convention Center. More than 570 people registered for the event featuring experts who use a health empowerment model. Research and services that empower individuals to take responsibility for improving their health, thereby reducing health disparities, was the focus of the day.
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In each issue of Alliance, we share news with your classmates wherever they are. We love hearing from you, so please log onto www.ecu.edu/cs-dhs/ah/alumni.cfm to update your information. Due to declining state and university budgets, this will be the last print issue of Alliance until financial conditions improve. Next year this time, an electronic version will be posted on our Web site at www.ecu.edu/ah.

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