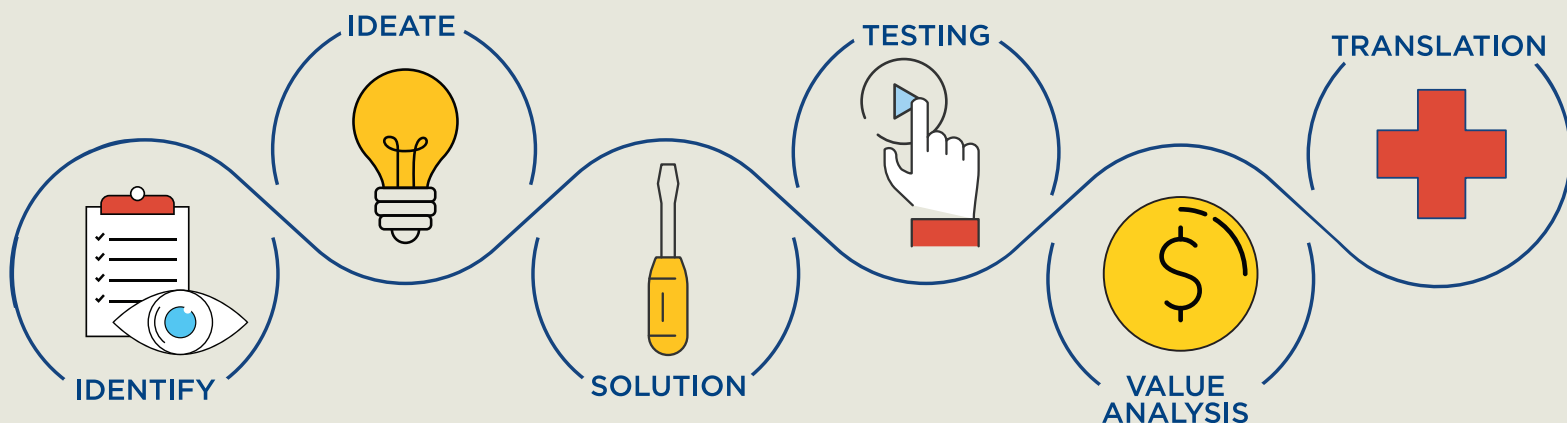




DukeNursing

Advancing Nursing Education, Research and Clinical Practice

Creating **Pathways** for



Innovation

4 Creating New Pathways
for Innovation

14 Powering Innovative Connections

32 2019 Alumni Awards



4 Creating New Pathways for Innovation

Creating Pathways for Innovation

4 Creating New Pathways for Innovation

14 Powering Innovative Connections

32 2019 Alumni Awards

School News

20 New Faculty, Recent Grant Awards and Promotions

23 Accomplishments & Honors

40 Class Notes

44 Obituaries

On the cover: Innovation@ DUSON graphic - 2019 Ryan Shaw, PhD, RN and Duke University School of Nursing

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Innervating Innovation

Throughout my career, I have firmly believed that if you bring a team of nurses with diverse backgrounds together in a room, that they can solve any problem you give them. Any problem at all. That is what real innovation is about. As nurses, we don't innovate just to innovate, we innovate to create solutions that address the problems and challenges we face.

Innervating means "to stimulate to action" and "to supply with energy." It requires a new way of thinking and new, exciting collaborations with others. At DUSON, we are creating a culture in which faculty and staff are encouraged, stimulated and even expected to develop new, creative ways to address challenges in education, research and clinical practice.

Nursing and health care innovation does not necessarily require a lot of resources (although they certainly help), but it does require focus, a willingness to open ourselves up to new ways of thinking about our profession, exploring new collaborations with colleagues with who we may not have traditionally worked, and to accept the risk of failure.

Each of us gets out of bed every morning with a passion for at least one aspect of nursing. It might be a passion for clinical practice, or for research or for education. If we as nursing leaders can focus the passion that each of our organizations possess, and encourage it towards creative problem solving today, while building capacity for solving tomorrow's problems, then we have created a true culture of innovation.

I invite you to learn how we at Duke are attempting to innervate innovation within education, research, clinical practice and health care policy. I sincerely hope some of our experiences will spark a new idea or two for your nursing community, or stimulate a conversation about how together we can build upon the best of our profession and prepare for a very exciting future.

Sincerely,

Marion E. Broome, PhD, RN, FAAN

Dean and Ruby Wilson Professor of Nursing,
Duke University School of Nursing
Vice Chancellor for Nursing Affairs, Duke University
Associate Vice President for Academic Affairs for Nursing,
Duke University Health System

Behind the Scrubs

Following a presentation of a device for repositioning immobile patients in acute and long-term care at the *2017 Duke Innovation Jam*, an annual event created and managed by the Duke Institute for Health Innovation, a partnership evolved between DUSON, Duke Health and Seneca Devices.

The product is designed to improve caregiver productivity, reduce caregiver back strain and reduce life-threatening patient complications. The device automates the patient turning and boosting process, allowing one caregiver to reposition the patient at the push of a button.

DUSON's Health Innovation Lab assisted with simulated field tests to assess the device's safety, effectiveness and ease-of-use.

Shown here testing the device in the DUSON Simulation lab are current Pratt Engineering Student **Venice Leone**, inventor **Samuel Fox E'18**, **Michele Kuszajewski, DNP, RN, CHSE**, assistant director, Center for Nursing Discovery, **Nashonda Thomas**, staff assistant, Center for Nursing Discovery and DUSON associate professor and Director of DUSON's Health Innovation Lab, **Ryan Shaw PhD'12, RN**.





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Creating New Pathways for Innovation





EBP PEDAGOGY

ACCELERATE DISCOVERY & TRANSLATIONAL RESEARCH

IPE COLLABORATIONS

PRECISION HEALTHCARE

CREATING INNOVATIVE PATHWAYS

BIG DATA ANALYSIS

TECHNOLOGY INTEGRATION

Fundamentally, nursing is about solving problems, whether it's in a clinic, a classroom or a lab. At Duke University School of Nursing (DUSON) we understand this and strive to educate our students in ways that support creativity and innovation, core skills for problem-solving. In a digital world, where access to information is virtually limitless, teaching and curricula must assume the added challenge of capitalizing on new ideas and approaches to health care while continuing to honor proven nursing practices and traditions.

To **Dean Marion E. Broome, PhD, RN, FAAN**, and Ruby Wilson Professor of Nursing, nurses are natural innovators. Especially when they come from a variety of perspectives and experiences, she says, the sky is the limit. "My observation has been you can give me any challenge, and if I can put a group of nurses in a room together, who are very different and come from different backgrounds, we can make huge strides toward solving the problem. I don't care what it is."

Because today's practitioners and researchers rely so much on readily available digital health information, faculty must continually adapt their approach to teaching, mentoring and guiding their students, she adds. An important task they have is helping students filter through the mass of information and resources,

since many students may not yet have the knowledge to effectively interpret them. "The best teachers can translate knowledge in a way that users can find accessible," Broome says.

Being innovative in instruction is critical to keeping up with the dynamic and increasingly digital age of health care because that is what practitioners and nurse scientists are dealing with every day, and their learning processes must reflect that reality. It's natural to teach how one has learned, but because the world of science and information has changed so much, faculty have to acknowledge and adjust to those changes in not just what we know, but how we access and translate that knowledge, Broome says. "Younger generations have different ways of looking at information that sometimes includes data, but also includes their impressions of other people's assessments of that data. It's more a 'group think'," she says. "They trust their intuition more than I did when I was a nurse scientist. I always wanted data and more data to make decisions."

Even though a quick Google search can render almost every bit of information on a topic, that information becomes much more powerful and complex in the hands of someone who has years of deep study and learning, heightening the importance of savvy instructors. "It takes a certain kind of thinking to really be innovative. I think almost everybody is innovative in some parts

"Nurses are
natural innovators."



“Being innovative

in instruction is critical to keeping up with the dynamic and increasingly digital age of health care.”



of their life. But innovation truly takes somebody who’s okay about failing at certain times and also is able to then re-conceptualize their approach and see new possibilities in order to move forward,” Broome says, noting that technology is one tool of innovation, but not the ultimate one. “It’s one mechanism to use, but it’s not the be all end all. Innovators rely on data, intuition and cues from disparate sources, combined with their vision of what could be.”

Teaching students how to think creatively by structuring classes in new ways is another way of being innovative. A class can be broken up into smaller groups and given a case or problem to solve, Broome says. For instance, an observation about a consistent increase in no-shows at pediatric and prenatal appointments among certain groups of women should signal a need for change. Students may be tasked with researching and gathering data about what has been happening, hearing from providers and the women about their perspectives of the problem. They might also observe a typical clinic visit from beginning to end or even take transportation women typically take to clinic. Then they collaborate in small groups to puzzle out what social, political or economic issues might be driving the increase and also to look at the downstream effects of more no-shows. Each group could come up with different viable solutions for how to reverse the trend or deal with its ramifications, thus giving the class as a whole a broader and more complex view of problem-solving.

“When those students go out into practice and a problem arises on their unit, they’re going to think about solutions in an entirely different way,” Broome says, noting that this type of teaching gives students the room and support to collaborate and expand their thinking. One question faculty should be asking, Broome says, is “How do we really pull out the very best of our students and let them take their ideas and talents way beyond what we thought they could?”

Health Care Innovation

DUSON will be offering a new course on health care innovation, created by Associate Professor **Ryan Shaw, PhD’12, RN**, and director of the Duke Health Innovation Lab (HIL). The class will be situated within an inter-professional education framework, Shaw says, with the goal to teach not only nurses, but also physicians, physical therapists and engineers to work as a group to create change.

“We’re trying to empower nurses to be able to act upon their ideas and unmet needs to improve health and health outcomes,” Shaw says, noting that collaboration with other disciplines enhances problem-solving skills. “We will educate our students to think in different ways so that when they do graduate and they go into their own practice, they have the skills and knowledge to be empowered to innovate.”

The HIL provides the support and resources for students, faculty and practitioners at Duke who want



“Innovators rely on data, intuition and cues from disparate sources, combined with their vision of

what could be.”

to improve processes and patient care through innovative thinking and ideas. Whether it’s testing the viability of a new product or brainstorming about changing how data are collected, stored and used, the goal is to support creative potential, Shaw says. “I think it’s important for us to create a strategy so that the School has direction for how to create new opportunities for both our students and faculty. And we also want to collaborate with practicing clinicians who identify real-world problems within health care and to be able to make a difference.”

Duke not only has the resources to innovate—through its faculty, funding sources, and state-of-the-art labs and tools—it also has a tradition of altruism. “The beauty of being at Duke is that’s what we are all about: knowledge in the service of society,” Broome said. Creating new ways to teach so that the new generation of nurses learn in a way that will serve them in a digital age can be a daunting task, but it’s necessary to the pursuit of excellence, she says. But innovation doesn’t mean change for change’s sake, Broome warns. It must be methodical and thoughtful.

Her advice is to start with one course. “You don’t need to reinvent the entire curriculum, start with just one course. Present students with a set of challenges in health care and let them try to solve them,” Broome said. “The outcomes could be exciting. Alternative

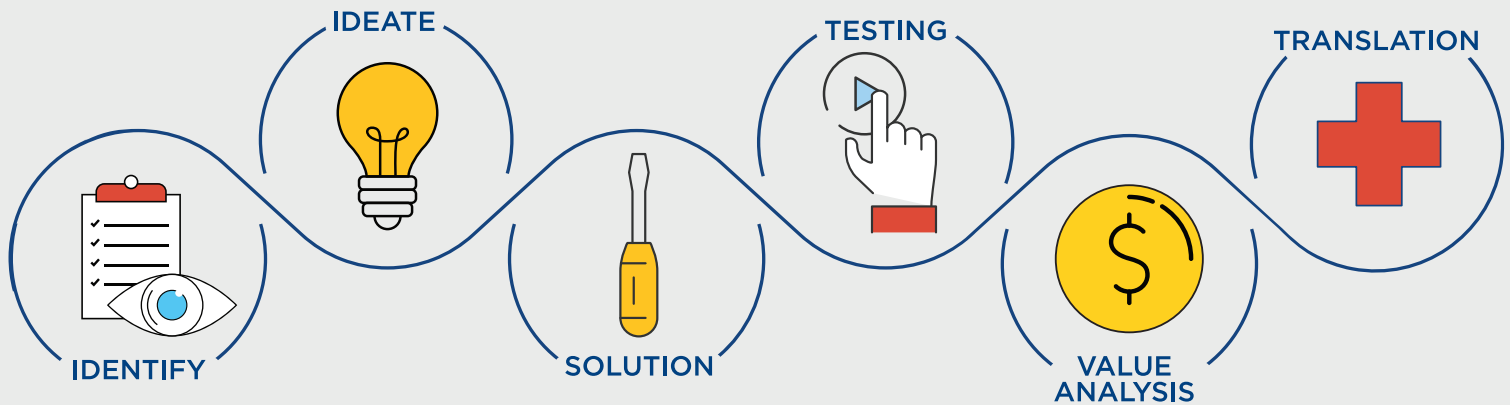
learning that acknowledges different approaches and perspectives on health care produces students who are better prepared to be critical and innovative thinkers, and ultimately better nurses when they graduate,” she added.

“The Accelerated Bachelor of Science in Nursing (ABSN) programs are perfect for this type of approach because these students all come with previous degrees. So they already come with different perspectives and approaches to problem solving—maybe one’s an engineer, one’s a sociologist,” Broome says. “They’re going to learn much more from each other and it will be a deeper learning experience.”

And that’s what innovation is all about, Broome says. “I look at DUSON and the intellectual and social capital here, it’s pretty amazing. We have people who are incredibly strong researchers, incredibly strong practitioners, incredibly strong educators. And when they bring it to bear on a challenge or an issue, there’s very little stopping them.”

Broome encourages other schools to find ways to foster innovation and creative problem solving. “Innovation doesn’t have to be expensive,” Broome said “Regardless of where you are, there is never enough time and never enough resources. It’s really about identifying new ways of thinking and doing what nurses already do so well.” ■

INNOVATION @ DUSON



- + Current need/problem?
- + Health Implications?
- + Data collection
- + Brainstorm
- + List potential solutions
- + Prioritize ideas
- + Prototype
- + Mockups
- + Iterate
- + Test devices
- + Test processes
- + Get feedback
- + Improve design
- + Cost
- + ROI
- + Clinical evidence
- + Business plan
- + Product development
- + Investment
- + Clinical trial

INPUTS

- + STUDENT SCHOLARS
- + FACULTY
- + CLINICIANS
- + INTERDISCIPLINARY PARTNERS

OUTPUTS

- + STUDENTS
 - MARKETABLE SKILLS
 - CAPSTONE/DISSERTATIONS
 - CAREER OPPORTUNITIES
- + PRODUCTS
- + CARE DELIVERY MODELS
- + ENTREPRENEURSHIP
- + GRANT FUNDING
- + INVESTORS
- + SCHOLARSHIP
- + REPUTATION
- + LEADERSHIP
- + HEALTH/HEALTH CARE
- + POLICY

This model provides a human-centered framework to identify and solve complex unmet needs in nursing. By breaking down the process into iterative steps, this approach strengthens the potential for innovation.

Adapted from the Design Thinking model at the Hass-Plattner Institute of Design at Stanford University.

Clinical Innovation

DUSON and Duke Health System Partner to Launch DNP Quality Improvement Scholars Program

Across the country, there is significant demand within health care organizations to improve the quality of individual patient care and the health of populations, while reducing costs. Clinically, DNP-prepared nurses are well qualified to lead entity or system-wide quality and safety improvement initiatives, but may lack some of the specific knowledge in the areas of data analytics and implementation science.

The DUSON-DUHS Quality Implementation Scholars Program, a unique three-year pilot program between DUSON and Duke Nursing, was created through a collaboration led by **Marion E. Broome, PhD, RN, FAAN**, dean of Duke University School of Nursing and **Mary Ann Fuchs, DNP'10, MSN'90, RN, NEA-BC, FAAN**, vice president of patient care and system chief nurse executive for Duke University Health System.

The first cohort of four DUSON-DUHS Quality Implementation Scholars began a 12-month certificate program this summer. The students selected are already leaders in their field and will continue to grow as quality improvement experts.

"This partnership is the first of its kind, and will allow senior-level DNP-educated nurses to develop the skills necessary to provide solutions and implementation plans for improving



Broome

quality of care for our patients and their families who we serve, said Broome. "At DUSON, we are creating innovative partnerships that can change the trajectory of the role of nursing in major health systems."

"The initial cohort is rich with experience and expertise. These nurse leaders will be on the cutting edge of implementing new quality processes that will have a significant impact on the patients that our health system serves," said Fuchs.

"DNP-prepared nurses within the Duke Health System are an untapped resource as we explore ways to improve the quality of care and patient outcomes," said **Staci Reynolds, PhD, RN, ACNS-BC, CCRN, CNRN, SCRN**, lead faculty for this Program. "In our health system, DNP-prepared nurses



Fuchs

hold a variety of roles in administration and advanced practice. They serve as formal and informal leaders who can, with the additional knowledge gained through the program, provide the practical expertise and leadership to affect organizational change on a larger scale."

Scholars will participate in courses focused on analytic, methodologic and leadership competences associated with implementation science. In addition to their full-time responsibilities in the health system, scholars will implement a quality improvement project utilizing data from existing databases and/or the electronic medical record to evaluate the effectiveness of a change on quality, safety, cost and patient outcomes. ■



Reynolds

Policy Innovation

A Nursing Perspective Enhances **Health Policy Discussions**

Advocacy has always played a central role in nursing. Whether advocating for a single patient or on a larger public health issue, nurses can provide a unique voice and perspective to health care discussions at the local, state and national level.

“Our roots in advocacy go as far back as the early 1900s when nurses worked with underserved populations to push for public health and health care policy changes, said **Dean Marion E. Broome PhD, RN, FAAN**. “Today it is more than just advocacy, nurses must be able to incorporate evidence into their advocacy. Given that many people who work in health policy aren’t clinicians, nurses can help bring that perspective to conversation.”

Through an innovative partnership and program at the Margolis Center for Health Policy at Duke, nurses’ experiences as both researchers and clinicians are being brought into health care discussions in a very unique way. The Margolis Scholars Program in Health Policy and Management is an interdisciplinary cohort approach for graduate and professional students to engage in real-world public health policy advocacy. The two-year program combines academic and experiential training in health policy and management working on practical challenges including Medicare and other payer

reforms, as well as improving models for drug access and development.

Initially, the cohorts included Duke students representing public policy and law. However, in 2018 two nursing students—one DNP and one PhD—were added to the program, and in 2019 the cohort is being expanded to include medical and business students.

“I am thrilled to have nurses represented among our Margolis Scholars,” said **Mark McClellan, MD, MPH**, director of the Duke-Margolis Center for Health Policy and Robert J. Margolis, MD, professor of business, medicine and health policy. “As someone who has studied and worked on methods to expand the role of nurses in alternative payment models and care delivery models, I am deeply committed to enhancing the role of nurses in improving health outcomes,” McClellan said.

PhD in Nursing student **Michelle Franklin** and **Lauren Arrington** from the Doctor of Nursing Practice Program were selected as DUSON’s first students to be admitted to the Margolis Scholars Program.

For Franklin, a pediatric nurse practitioner, the Margolis Scholars Program is helping to change how nursing is viewed in broader health policy discussions. “We gain health policy exposure in our individual programs and disciplines,” said Franklin. “However, the



Margolis Scholars Lauren Arrington (l) and Michelle Franklin (r) join Dean Marion E. Broome in Washington D.C.

Margolis Program, by bringing diverse disciplines together, provides a rich opportunity for real world application. The coupling of health policy education in an interdisciplinary setting is crucial for translating knowledge into action.”

continued on page 12

Patient Care Innovation

Health Policy Discussions

continued from page 11

The Margolis Scholars Program is meeting both personal and professional aspirations for Arrington. “I became a nurse-midwife so that I could develop clinical skills to serve my community and understand their needs and experiences,” she said. “Most graduate students are siloed in their particular discipline. Through the Margolis Scholars Program, we establish a precedent for interdisciplinary collaboration that will follow us throughout our careers. We have a seat at the table.”

“Working with Mark McClellan and the Margolis Center has provided a wonderful opportunity for our DNP and PhD students to work on high-powered interdisciplinary research teams,” said Broome. “They can hone their articulation skills to lend a voice as well-educated nurse researchers and clinicians that will help ground health policy in the real world.”

The Robert J. Margolis, MD, Center for Health Policy was established in January 2016 with a \$16.5 million gift from Duke medical school alumnus Robert J. Margolis and his wife Lisa, through the Robert and Lisa Margolis Family Foundation. The Center's mission is to improve health and the value of health care through practical, innovative and evidence-based policy solutions. ■

Transition to Home Care Innovations Reduces Readmissions—Improves Patient Outcomes



DEFT Center Creator, Cristina Hendrix conducts a training class for family caregivers prior to their patient's discharge.

When an older patient is discharged from the hospital, everyone is hopeful the patient continues to recover and rehabilitate. Avoiding hospital readmission is a top priority—not just from the patient and their family's perspective, but also from a financial one. It's costly on many fronts when a patient returns for hospitalization. For the past two years, the Duke Elder Family/Caregiver Training (DEFT) Center has been uniquely addressing this issue, improving 30-day readmission rates through an innovative approach to post-hospitalization support of elderly patients.

Research by DEFT founder **Cristina Hendrix, DNS, CNP-BC, FNP, FAAN**, associate professor at DUSON, shows that training and direct follow-up with a patient's support group post hospitalization are keys to avoiding readmission. “The involvement of family and friends is critical to preventing those adverse events from occurring in elderly patients as a result of not knowing what to do when they're recovering at home, or not fully following post-hospitalization instructions,” Hendrix said. “We want to increase the level of confidence and preparedness in home caregiving and minimize preventable 30-day

readmissions among the patients.”

The DEFT program, funded for three years by The Duke Endowment, brings together case managers, physicians and nurses to broaden care protocols to include what happens after a patient is released from the hospital. Providers identify family or friends who will help the patient at home and refer them to DEFT. Before the patient is discharged, their caregivers receive training, including learning how to do simple procedures. The training also educates caregivers on managing follow-up appointments and prescriptions, and identifying red flags that would signal the need for immediate medical intervention. In addition to the training, caregivers also receive follow-up phone calls during the first 14 days after a patient’s discharge to answer questions and ensure better compliance with discharge instructions.

According to one caregiver, “the DEFT program was introduced to me when my wife was in Duke suffering from kidney failure. I participated in the training session while my wife was just starting dialysis. The support from the DEFT staff was superb. Once discharged from Duke, the DEFT staff kept in contact with me, asking what resources that I needed.”

Looking beyond simply training caregivers, the impact the DEFT program makes is tremendous. “The greatest thing

that I gained from my exposure to the Duke Elder Family/Caregiver program was the caring and genuine concern for the patient, as well as the care and concern for me the caregiver,” he said. “No one else seemed to know what struggles that I was going through as a caregiver and it was so good to talk to someone who would listen and offer help as needed.”

Hendrix said after closely assessing the program since its launch in spring 2017, she has additional ideas for improving the training and expanding it beyond post-hospitalization. For instance, making it easier for caregivers to access training is one area for possible improvement. Hendrix said some caregivers face obstacles with scheduling or transportation to their assigned training sessions. She believes it’s possible to overcome these barriers by providing some of the training digitally, using a closed system where information is downloaded for the caregiver to access at home on a mobile tablet.

“Caregivers are thirsty for knowledge of certain points in time along the chronic illness trajectory. If everything is going well, the caregivers may not be as interested. But if there’s a crisis—during hospitalization, during an initial diagnosis or after discharge—that’s when they need the knowledge and will absorb as much as they can because they want

to understand the situation.” Providing information that can be absorbed and acted upon is an important aspect of the DEFT approach.

Looking beyond DEFT, Hendrix envisions caregiver support and training being employed for other situations, such as for chronic disease management with an aim of preventing the first hospitalization, or during the transition to end-of-life palliative care. “We started with post-hospital or the hospital-to-home transition. Our intent is not to stop there,” Hendrix said.

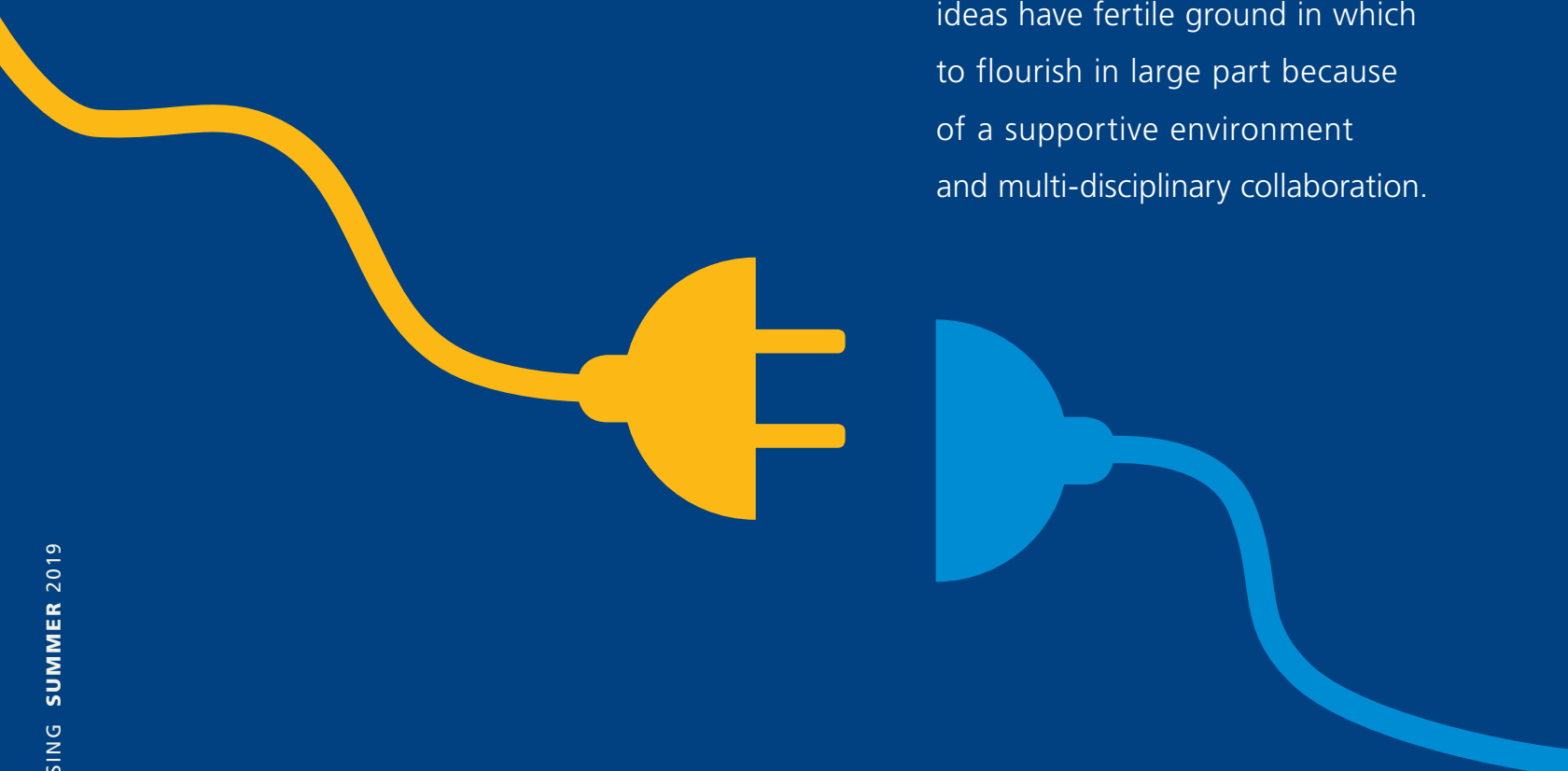
At DUSON, Hendrix has created an elective course on caregiver training. Pre-licensure ABSN students also have the opportunity to observe the graduate students as they train caregivers, to enrich their education outside the classroom, Hendrix said.

Hendrix believes DEFT has proven itself clinically, and she is now focused on creating a business plan that is cost-effective and sustainable so that this innovative approach may reach its full potential, not only at Duke, but elsewhere.

“If we can demonstrate to the other hospitals and schools of nursing how we were able to put an idea into action and with good outcomes,” Hendrix said, “then it might interest them to replicate us.” ■

Powering Innovative Connections

Innovation in nursing happens at multiple levels, but it all starts with an idea. Some ideas are simple and grow from a practical need a nurse might face in clinical care. Other ideas may be more complex, and involve the use of technology or computer algorithms and databases to assist the research of a nurse scientist. In all cases at **Duke School of Nursing (DUSON)**, ideas have fertile ground in which to flourish in large part because of a supportive environment and multi-disciplinary collaboration.



Health Innovation Lab

Three years ago **Ryan Shaw, PhD'12, RN**, associate professor and Elizabeth C. Clipp Term Chair of Nursing and director of the Duke Health Innovation Lab (HIL) at DUSON, needed a place to test new technology in a clinical environment. He created the HIL to provide structure and a physical home for clinicians, nurses, doctors and even engineers and computer scientists to explore their ideas in a practical setting.

"It's a place to be able to ideate, prototype and test concepts," Shaw said, noting that before the lab, there was a limited support

process to follow through on ideas being generated by nurse faculty and clinicians. "There was no pathway if you did invent something, or you found a new way to deliver care to know what to do next. If your concept was successful, then what did you do? Who could you talk with for advice about whether or not you could move forward with a patent prototyping or feasibility testing in the hospital?"

The HIL, in conjunction with the School's Business Development Office and resources like the Duke Innovation & Entrepreneurship

"It's a place to be able to ideate, prototype and test concepts."

Ryan Shaw, PhD'12, RN

Ryan Shaw, PhD'12, RN, works with ABSN students on TRINA, a collaborative robotics project between the DUSON's Health Innovation Lab and the Pratt School of Engineering



Marybeth Tetlow, MSN'17 explains her invention, Line Snugglers to Duke University President Vincent E. Price. Line Snugglers was tested and refined through DUSON's Health Innovation Lab.



“It was a simple concept, but it was something that really needed to be shared across the entire hospital and across the country.”

Ryan Shaw, PhD'12, RN

Initiative (Duke I&E), the Office of License and Ventures (OLV) and the Global Digital Health Science Center at Duke, now facilitate that pathway not just for students and faculty at DUSON, but for scholars and practitioners across Duke as well.

The lab helps test viability by assisting with setting up clinical trials of innovative ideas. One such idea, the Line Snuggler, has reached the patent pending stage with Shaw's help. A Duke pediatric nurse, **Marybeth Tetlow, MSN'17**, created a waterproof sleeve to house the multiple lines and tubes that would often get tangled or soiled by young ICU patients. “It was a simple concept, but it was something that really needed to be shared across the entire hospital and across the country,” Shaw said.

Shaw is currently working with **Samuel Fox, E'18**, who is creating an improved bed with special fabric that will help keep inclined patients from sliding down. The device also is a mechanism to help move the patient up

in bed if they do slide, a common problem that can cause complications such as skin abrasions or unnecessary discomfort for patients. (see *Behind the Scrubs*, page 2)

With this concept, nurses came into the HIL to provide the engineer with direct feedback on his idea, so that he could then refine and further test the product.

Collaboration across disciplines, a Duke tradition, becomes important when the innovation moves into other phases of development, Shaw said. “For example, I might point you to the DUSON Business Development Office for additional support, or to Duke I&E or OLV for more advanced business planning or to identify possible funding sources,” he said. Both offices are sources of educational support, such as instructions about the process of how to get a patent, or what it means to license intellectual property.

Through DUSON, the HIL and Duke I&E are currently working to create a graduate certificate in innovation and entrepreneurship, which already exists at the undergraduate level at Duke, that can be offered to nursing students.

“As a campus-wide initiative, Duke I&E helps form relationships that might be more difficult for faculty and those at individual schools to create themselves,” said I&E director **Jon Fjeld, PhD**, who teaches in the Fuqua School of Business and is also executive director of the School’s Center for Entrepreneurship and Innovation.

“The School of Nursing has always seemed very interested in the subject of innovation and entrepreneurship,” Fjeld said, noting that he recently used TAMS, a data-driven teaching management system born at DUSON and part of the School’s business development efforts, that is now used at nearly two-dozen schools nationwide, as a class project in the MBA program.



Fjeld

In a similar vein, he hopes to help create a course at DUSON that would bring teams from different schools together to work on focused projects. One such example is the Duke Elder Family/Caregiver Training (DEFT) Center, created by **Cristina Hendrix, DNS, GNP-BC, FNP, FAAN**, associate professor at DUSON that facilitates caregiver training for elderly patients’ post-hospitalization (see story on page 12). Fjeld envisions this innovative program as the type of project that would be useful for students in his course.

“Bringing people from outside nursing into the School of Nursing to help identify problems, imagine solutions and then push those solutions forward—that’s what engagement should look like,” Fjeld said.

Duke I&E also supports the efforts of an annual event, the Innovation Jam, created and managed by the Duke Institute for Health Innovation (DIHI) in which DUSON participates. “[The Innovation Jam] is a way to stimulate enthusiasm for innovation and also identify some early funding and advice for promising projects,” Fjeld said. He is optimistic about what those future projects might be, as DUSON and Duke I&E develop their collaboration. “If we have this conversation in two years, I believe we’ll be talking about lots of exciting things that we’ve done together.”

“The School of Nursing has always seemed very interested in the subject of innovation and entrepreneurship.”

Jon Fjeld, PhD

“...to help create something that’s potentially more effective, and test those ideas in a research setting.”

Dori Steinberg, PhD, MS, RD

Digital Health

One of DUSON’s largest areas of innovation and collaboration revolves around the trend of digital health and data management. DUSON works closely with Duke’s Global Digital Health Science Center, whose mission includes how best to leverage mobile technologies, and **Dori Steinberg, PhD, MS, RD**, associate professor at DUSON, is associate director of the center. Mobile technologies can be as simple as a website, mobile apps, text messaging or using connective devices like blood pressure cuffs, glucose monitors, and scales, Steinberg said.

“A lot of what our Center is trying to do is to work with the market as it currently is to help create something (with those technologies) that’s potentially more effective, and test those ideas in a research setting,” Steinberg said.

Accessible technology can be a double-edged sword, with endless information that can often be overwhelming and difficult to manage, but at the same time, can also help individuals with their self-care needs. “As technologies become more available, health care is rapidly moving

“At Duke, we want to give our students and faculty opportunities to solve very complex kinds of issues.”

Marion E. Broome, PhD, RN, FAAN

into the hands of all types of consumers, said **Marion E. Broome, PhD, RN, FAAN**, DUSON Dean and Ruby F. Wilson Professor of Nursing.

With almost half of the nation’s population suffering from a chronic disease, each person must actively manage their illnesses. As technology evolves, health care professionals may not always fully understand all of the technology patients and families could be using to monitor and improve their health and illnesses, Broome said. “Those people who are developing devices and technology day in and day out are engineers and programmers,” she said. “This is why reaching out to other disciplines is important to nursing innovation, and the reverse can be true as well, for engineers and programmers who are looking for

real-world problems to solve,” she said. “That’s why we have interdisciplinary collaboration, in order to identify those clinical examples,” Broome said. “At Duke, we want to give our students and faculty opportunities to solve very complex kinds of issues. That’s why faculty in other schools here at Duke often come to DUSON.”

Mobile phone apps are a common and excellent way to connect with underserved populations who need help with daily management of their chronic health conditions, such as diabetes, hypertension and obesity. Steinberg has a background in nutrition and her research focuses on using these apps to improve health outcomes.

“(With apps) patients are tracking their steps and they’re tracking their diet,” she says of the population that uses fitness or nutrition apps. “But they don’t know what to do with that information. So the innovation here is that we help those patients make better sense of the data they are collecting and provide them with the support to really make the effective life changes they need to achieve and sustain their results.”

Using a technology platform known as “Prompt” to gather the data from the various personal devices, the Global Digital Health Science Center creates logic algorithms that make use of the data in different ways. For example, a participant who has increased their number of steps they take each day might receive automated text messages congratulating them for their results and encouraging them to continue their progress. Or, if a participant using a diet app that logs a meal that is high in

Dori Steinberg, PhD, MS, RD, associate professor and associate director of the Duke Global Digital Health Science Center



fat, the algorithm could offer healthier food options for the next meal in order to better balance the patient's nutrition.

"The innovation is not necessarily the creation of a new tool that can collect your data, but really how to take that data and make it effective for actual change. The next stage is where we can implement that data into systems so it's really useful to patients and their health care providers," she said. Resources like the HIL can help with that process.

"What I'm doing is trying to help the individual better change their behaviors and make the apps they are using more useful to them. We don't necessarily need to make more apps that collect data, we need to do better with the data that we already have."

Beyond proliferation of various apps, another concern for Steinberg is that many health apps aren't approved by the FDA. Currently, there is a push to have more scientists and health care professionals working on the development teams for these new technologies. And while there are certainly areas where new apps and technologies are waiting to be discovered, Steinberg believes a big part of nursing innovation is taking what's already there and launching new ideas from that platform.

The ultimate goal in any health care innovation, no matter how simple or complex, is improved health outcomes for patients. Digital technologies that help patients help themselves, while gathering data for electronic health records so caregivers can access it more effectively, brings the process full circle, Steinberg said. "There's a lot of initiative at Duke to try and do that to help people make sense of the data and to make it easier for the physician or nurse to access it." ■



Health Innovation Lab Director, Ryan Shaw, PhD'12, RN and Glenn Masty, Project Manager, Duke Health Facility Planning, Design and Construction, review the future home of the Health Innovation Lab housed in the new Interprofessional Education and Care Center building which will be connected to the current School of Nursing.

MAKE YOUR MARK ON

Health Innovation

A naming opportunity is available in the new education building, which is scheduled to open this fall.

The Health Innovation Lab will be located on the second floor of the new building and will sit adjacent to the Interprofessional Education space. The lab will serve as the home base for collaborations among students and faculty from DUSON and across Duke as they develop and test new products and innovative ideas.

Alumni and friends have the chance to be a part of these innovations by making a gift to name the lab.

A gift of \$1 million will name the lab and will support research that creates new ideas, innovations, products, procedures, or interventions and health system changes to benefit the health of individuals and populations.

For more information, contact Anita Stallings, associate dean for development and alumni affairs, at (919) 684-8862.

New Faculty Appointments



Mulawa



Reynolds



Marta Mulawa, PhD, MHS, is an assistant professor. She is a behavioral scientist whose research focuses on improving population health by examining and addressing social and behavioral determinants of HIV treatment and prevention outcomes in global settings. As a postdoctoral scholar in the Duke Global Health Institute, funded through Duke's T32 Interdisciplinary Research Training Program in AIDS, she contributed to research implementing and evaluating social and behavioral HIV treatment and prevention interventions in South Africa and Tanzania. Mulawa's research also aims to improve our understanding of how social networks influence HIV-related behaviors in these contexts. She is engaged in a new research collaboration in Cape Town, South Africa to collect and analyze social network data among a cohort of perinatally HIV-infected adolescents and she received a Bass Connections award to customize a software tool to collect these complex network data among participants in this setting. Her most recent line of research is focused on the use of mobile health (mHealth) interventions for HIV treatment and prevention in both global and domestic settings. Mulawa is interested in developing innovative mHealth interventions that engage social networks to improve HIV-related outcomes. She received her MHS in International Health from Johns Hopkins Bloomberg School of Public Health and her PhD in Health Behavior from the University of North Carolina at Chapel Hill.

Staci Reynolds, PhD, RN, ACNS-BC, CCRN, CNRN, SCRN, has held a joint position between Duke University School of Nursing (DUSON) and Duke University Hospital (DUH) since 2015. Reynolds isn't new to Duke. She taught in our ABSN and DNP programs, coordinated the Duke Advance of Nursing, Center of Excellence (DANCE) academic-practice partnership, and is a clinical nurse specialist (CNS) at Duke Hospital. In July 2019, as a new member of the regular rank faculty, she will continue as the coordinator of DANCE and will also split her time as a CNS in the Duke University Hospital Infection Prevention Department. Reynolds research interests include implementation science, quality of care, evidence based practice, and infection prevention. Currently, she is the Principal Investigator (PI) for a stepped-wedge cluster randomized implementation science trial that aims to improve compliance with chlorhexidine gluconate bathing in adult and pediatric ICUs and Bone Marrow Transplant (BMT) units to decrease central line-associated bloodstream infections. Before coming to Duke, Reynolds was a neuro critical care nurse and a neuroscience clinical nurse specialist at Indiana University Health Methodist Hospital. She received a bachelor of nursing in science degree, a Master's degree as a clinical nurse specialist, and completed her PhD from Indiana University.

Recent Grant Awards

National Institutes of Health / R01 Administrative Supplement

"Acculturation Stress, Biomarkers, and Psychopathology Among Hispanic Immigrants"

PI Rosa Gonzalez-Guarda / Gabriela Nagy Carrasquel

\$331,254 (February 1, 2019 – May 21, 2021)

Nursing & Patient Care Innovations

"Line Snugglers"

PI Ryan Shaw

\$16,930

(September 26, 2018 – September 30, 2019)

Research Triangle Institute

"Development of strategies for Family Planning programs to enhance service delivery for men in FP settings in The Philippines and Ethiopia"

PI Eleanor Stevenson

\$71,961



Promotions and Transitions



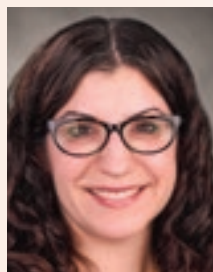
Howard



Walker



Gonzalez-Guarda



Steinberg



Cadavero



Falyar



Oyesanya



Tola



Vacchiano

Valerie M. Howard

appointed as Professor, Track II

Julia K.L. Walker

promoted to Professor with tenure, Track I

Rosa Gonzalez-Guarda

promoted to Associate Professor with tenure, Track I

Dori Steinberg

promoted to Associate Professor, Track I

Allen A. Cadavero

appointed as Assistant Professor, Track II

Christian Falyar

appointed as Assistant Professor, Track II

Tolulope Oyesanya

appointed as Assistant Professor, Track I

Denise H. Tola

appointed as Assistant Professor, Track II

Charles A. Vacchiano

appointed as Professor Emeritus

Global Teaching Experience Creates New Horizons and Perspectives

by Stephanie Scheller

When **Carol Bartlett, MSN'19** was considering where to pursue her MSN in Nursing Education degree, one of the factors that convinced her to select DUSON was the availability for global immersion experiences for not only the ABSN students, but also for MSN students. Bartlett recently put her aspirations for teaching at the international level to the test through a teaching practicum and working with preceptors at Kilimanjaro Christian Medical College (KCMC) School of Nursing, a 600 bed teaching hospital in Moshi, Tanzania. The experience was profound, and more than what Bartlett had hoped it would be.

"It was an amazing opportunity to see daily life and the practice of nursing in another culture," she said. "You cannot fully appreciate the health care needs of a community by reading about them in a book or online. Being fully immersed in a culture allows you to truly feel like you are a part of the community and understand the difference we can make as nurses."

Due to a significant shortage of physicians, nurses in Tanzania are absolutely essential to ensure adequate health care is being delivered throughout the country, especially in the rural communities that KCMC serves. In many cases, students at KCMC know that once they graduate, they may be the only health care professional in their community, so they must have a comprehensive understanding of, and a confidence in, their ability to handle a multitude of cases from the routine to the advanced.

This was a responsibility Bartlett did not take lightly.

"Planning for this experience was difficult. Not only did I have to plan a nursing lesson, but I had to plan it for a group of students taking into account the cultural differences I knew were present," said Bartlett. "I took great care to create a clear foundational lesson plan after I had taken the time to observe the nursing faculty at KCMC. I was very impressed with the students' enthusiasm and receptivity to the content."

It was by working with student nurses in Tanzania that she realized that nurses around the world enter the profession for the same reasons – to help make a difference in the communities they serve and in the lives of their patients.

Taking advantage of this global experience broadened Bartlett's perspective of her own abilities as a nurse educator, a perspective that will help inform and shape how she sees herself within her career.

"The reasons we become nurses are truly universal," she said. "My desire to care for people and help educate future generations of nurses is not restricted to my native country. I want to care for communities of people and I can do this by educating others and extending my reach to many." ■





Wei



McConnell



Corazzini

■ Nursing and Engineering Students Collaborate to Enhance Care Outcomes

PhD student **Sijia Wei** recently worked with Pratt School of Engineering student and Biomedical Engineering Design Fellow Kayla Wright-Freeman to explore how to measure social networks in people living with dementia and their caregivers. With the data collected through the initial project, Wei will develop intervention techniques and possibly provide data to enhance wellbeing of those affected by dementia.

This DUSON-Pratt collaboration is also part of a Center for Nursing Research funded population health pilot grant that **Eleanor McConnell, PhD, MSN, RN, GCNS, BC**, associate professor, and **Kirsten Corazzini, PhD, FGSA**, associate professor, are co-principal investigators examining how the social networks of people who are living with dementia and their care partners relate to their wellbeing.

■ VA–Duke Selected for Health Care Quality Improvement Fellows Program

The Durham Veterans Affairs Health Care System, the Duke University Health System and the Duke University Schools of Medicine and Nursing have been selected as one of just 12 sites nationally to participate in a VA health care quality improvement fellows program.

Eleanor McConnell, PhD, MSN, RN, GCNS, BC, associate professor is leading the DUSON participation in the program that uses a unique interdisciplinary approach that applies advanced quality improvement, clinical and research approaches to improve health care delivery systems and patient outcomes. The program's intent is to develop the next generation of leaders who will improve patient safety and health care delivery through innovation and quality improvement.



Dean Marion E. Broome, PhD, RN, FAAN, received an honorary doctorate of science degree during the University of Wisconsin-Milwaukee's (UWM) 120th commencement ceremony. She is the first nursing leader to receive this recognition from the university. "It was a privilege to recognize your commitment and renowned expertise in the field of pediatrics and your lifetime of research and service in the field of nursing and health care worldwide," said UWM Chancellor, Mark A Mone. "Your extraordinary contributions and accomplishments warrant you being honored with this prestigious award," he said.

Accomplishments & Honors



Oyesanya



Richard-Eaglin

■ Inspiration Behind Netflix's *Mindhunter* Discusses Rape Trauma at 2019 Harriet Cook Carter Lecture

Between 25 and 30 percent of females and 10 percent of males will be sexually assaulted over their life span and more than half will never report the crime to law enforcement.

Ann Burgess, DNSc, APRN, BC, FAAN, professor of psychiatric mental health nursing at Boston College Connell School of Nursing and professor emerita from the University of Pennsylvania shared these and other insights at the 2019 Harriet Cook Carter Lecture. Burgess' lecture "Have We Advanced? Rape Trauma Circa 2019" examined multiple high profile cases throughout history and the effects on the public's view of rape.

In her presentation, Burgess discussed the history of rape trauma and the neurobiology of rape-related PTSD using cases to illustrate the types of sexual trauma throughout the life cycle and current outlined models for victims and legal outcome alternatives for offenders.

She is the inspiration behind character Wendy Carr in the Netflix hit TV show *Mindhunter*, based on her research in the 1970s when she and a colleague conducted a study based on interviews with rape victims. When the FBI learned of Burgess' research, she was hired as a lecturer at the FBI Academy in Quantico, Virginia where she helped advance their understanding of violent sexual crimes through her pioneering research on rape trauma syndrome.

As an internationally recognized pioneer in the assessment and treatment of victims of rape trauma and abuse, she co-founded one of the first hospital-based crisis interventions programs for rape victims at Boston City Hospital before working with FBI special agents studying serial offenders and the links between child abuse, juvenile delinquency and subsequent perpetration.

■ Oyesanya ACRM Early Career Networking Group Chair-elect

Tolu Oyesanya, PhD, RN, assistant professor, was recently appointed as chair-elect with the Early Career Networking Group, housed under the American Congress of Rehabilitation Medicine (ACRM). In her new role, Oyesanya will be responsible for coordinating mentoring services with ACRM, including expanding the mentoring program for junior faculty, organizing mentoring-focused activities for the Early Career Development Course and publishing content for the Early Career Networking Group's quarterly newsletter.

■ Richard-Eaglin Selected as 2019 FAANP Fellow

Angela Richard-Eaglin, DNP, APRN, FNP-BC, assistant professor, was selected as a 2019 Fellow of the American Association of Nurse Practitioners.

She will join a group of leaders whose scholarly and forward-thinking contributions have led to meaningful improvements to health care and the nurse practitioner role.

The American Association of Nurse Practitioners fellows impact national and global health by engaging recognized nurse practitioners to lead new initiatives and support the American Association of Nurse Practitioners mission.





Jackson



Heflin

■ DNP Student Jackson Selected as Duke - Johnson & Johnson Nurse Leadership Program Fellow

Kina Jackson, DNP student, was recently selected as a fellow for the Duke - Johnson & Johnson Nurse Leadership Program.

The Duke - Johnson & Johnson Nurse Leadership Program is a one-year professional development experience and

is a partnership between Duke University School of Medicine, Duke University School of Nursing and Johnson & Johnson.

The program was created in 2013 to provide leadership development for advanced practice nurses.

■ Heflin to Lead Interprofessional Education and Care Center

Mitchell T. Heflin, MD, MHS, associate professor of medicine, has been named associate dean for Interprofessional Education and Care and director of the new Center for Interprofessional Education and Care (IPEC).

With support from Chancellor Washington, the Schools of Nursing and Medicine worked collaboratively to establish the Center. As a priority goal of the education

pillar of the 2016 Duke Health Strategic Framework, the center will provide an organizational home for this new initiative and will advance interprofessional education, research, and collaborative practice across Duke Health. The Center will help transform the culture and practice of patient and family-centered, team-based health care by co-educating students from Duke's four health education programs.

■ DUSON Represented at SNRS Conference

A number of DUSON community members recently presented at the 2019 Southern Nursing Research Society (SNRS) "Imagining the Future through Nursing Research and Innovation" Conference.

Representing DUSON during conference and pre-conference presentations were faculty members, **Debra Brandon, PhD, RN, CCNS, FAAN**, associate professor; **Victoria Goode, PhD, CRNA**, assistant professor; **Nancy Crego, PhD, RN, CCRN, CHSE**, assistant professor; **Deirdre Thornlow, PhD, RN, CPHQ**, assistant professor; and **Michael Cary, PhD, RN**, associate professor.

In addition, **Nicole Calhoun**, PhD student; **Allison Stafford**, postdoctoral associate; **Eunji Cho**, PhD student; **Nicole Caviness-Ashe**, Bridge Scholar; **Uzoji Nwanaji**, Bridge Scholar; and **Yesol Yang**, PhD student; also presented at the conference.

Congratulations to MSN student and Duke Life Flight nurse **Edward Stene** who was recently commissioned into the United States Army Reserve! Dean Marion E. Broome, Lt. Col. (Ret) assisted with the ceremonies. We thank Edward for his service and share our thanks to all of our DUSON community, past and present, who have served our country.



Accomplishments & Honors



Oermann



De Gagne



Phillips



Watson



Reuter-Rice

■ Authors! Authors!

Marilyn Oermann, PhD, RN, ANEF, FAAN, Thelma M. Ingles professor of Nursing; **Jennie De Gagne, PhD, DNP, RN-BC, CNE, ANEF, FAAN**, associate professor; **Beth Phillips, PhD, RN, CNE**, associate professor; and DNP student **Joni Watson** authored books that were awarded the American Journal of Nursing Book of the Year designations in their respective categories.

Oermann, De Gagne and Phillips' book "Teaching in nursing and role of the educator: The complete guide to best practice in teaching, evaluation, and curriculum development (2nd edition)" was awarded Book of the Year in the Nursing Education/ Continuing Education/ Professional Development category.

Watson's book "Your Guide to Cancer Prevention" was awarded Book of the Year in the Consumer Health category.



■ Phillips Named to NLN Standards Committee

Beth Phillips, PhD, RN, CNE, associate professor, has assumed a position on the National League for Nursing (NLN) Standards Committee. This position is for an educator to represent BSN education. She was appointed for a two-year term, with the possibility of a second two-year appointment.



■ Reuter-Rice On Panel that Updates Pediatric Brain Trauma Guidelines

Karin Reuter-Rice, PhD, CPNP-AC, FCCM, FAAN, associate professor, recently served on a panel of pediatric critical care, neurosurgery and other pediatric experts to issue the 3rd edition of the Brain Trauma Foundation Guidelines for the Management of Pediatric Severe Traumatic Brain Injury. An expert in the area of trauma and head injury, Reuter-Rice and the panel updated the global guidelines to reflect the addition of nearly 50 research studies and include eight new, or revised, treatment recommendations for health care providers that range from the use of intracranial monitoring to the use of hypertonic saline to reduce acute brain swelling.

The original Brain Trauma Foundation Guidelines were published in 2003 and last updated in 2012. The 3rd edition was developed as part of the Brain Trauma Evidence-based Consortium based at the Stanford University School of Medicine. The Pacific Northwest Evidence-based Practice Center at OHSU managed the effort, which included experts from OHSU, the University of Pittsburgh, Boston Children's Hospital, Phoenix Children's Hospital, Children's National Medical Center, Seattle Children's Hospital, the University of Utah, the University of British Columbia and Duke University.

Dean Broome Receives Nurse.com's award for Diversity, Inclusion and Sustainability in Nursing Education



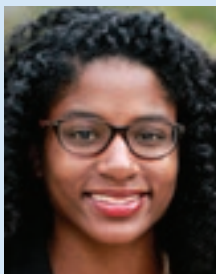
Dean Marion E. Broome, PhD, RN, FAAN, Ruby Wilson Professor of Nursing, Duke University School of Nursing; Vice Chancellor for Nursing Affairs, Duke University; Associate Vice President for Academic Affairs for Nursing, Duke University Health System, recently received Nurse.com's award for Diversity, Inclusion and Sustainability in Nursing Education at the 2019 American Association of Colleges of Nursing Dean's Annual Meeting.

Her award recognizes her outstanding contributions that champion diversity, inclusion and sustainability in nursing education.

At the conference, Dean Broome shared her story on how DUSON has built a strong community through differences that led to an organizational culture marked by inclusive excellence.



Accomplishments & Honors



Bulgin



Tanabe

■ Bulgin Joins Inaugural National Clinician Scholars Cohort

Dominique Bulgin, PhD student, was accepted into the first cohort of interdisciplinary medical researchers selected for the newly established Duke National Clinician Scholars Program (NCSP). Duke became the fifth location of the National Clinician Scholars Program, a consortium of prestigious academic-health care research institutions that provide training for doctors and post-doctoral nurses to become change agents for driving policy-relevant research and partnerships to improve health and health care.

The Duke NSCP is a partnership between the Durham VA Health Care System and the Duke University Schools of Medicine and Nursing. The Duke NSCP joins the consortium that includes UCLA, Yale University, University of Pennsylvania and the University of Michigan.

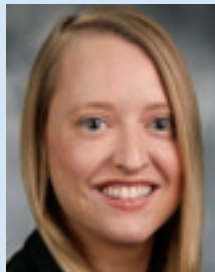
■ New Clinical Trial to Compare ED Treatment Protocols for Sickle Cell Disease Complications

Sickle cell disease patients arriving at a hospital emergency department (ED), are often in significant pain from an acute vaso-occlusive episode (VOE), a common complication of sickle cell disease. With no standard treatment approach in most EDs, patients are likely to receive highly variable doses of pain medication. This situation results in pain treatment that patient surveys frequently describe as inadequate.

COMPARE-VOE is a new study led by **Paula Tanabe, PhD, MSN, MPH, RN, FAEN, FAAN**, associate dean for research affairs and professor and the Duke Clinical Research Institute. The study hopes to determine whether an individual patient-based analgesic protocol would provide greater relief than a protocol based on the patient's weight. The study was recently funded by two companion grants from the National Heart, Lung and Blood Institute, which is seeking to test recommendations for VOE treatment that it issued in 2014.

COMPARE-VOE is a phase III randomized clinical trial based on a pilot study recently completed by DUSON. The earlier trial determined that the patient-specific protocol had greater pain reduction than the weight-based protocol. Patients also experienced fewer side effects from opioid dosing, and were admitted to the hospital less often when using the patient-specific approach. Those findings, however, were limited to two sites.

Accomplishments & Honors



Blumig



Bazzell



Nikpour

■ Blumig Joins Alumni Development Team

Sarah Blumig joined DUSON as Director of Annual Giving and the Bessie Baker Society. Prior to coming to Duke, Blumig served as Assistant Director of Annual Giving at Fordham University School of Law where she managed the school's leadership annual giving society. Previously, she was Senior Development Associate at Georgetown University. Blumig is a graduate of Gettysburg College.

■ PhD Students Bazzell and Nikpour Receive Future of Nursing Scholars Grant

PhD students **Angela Bazzell** and **Jacqueline Nikpour** are recipients of the 2018 Robert Wood Johnson Foundation (RWJF) Future of Nursing Scholar at Johnson & Johnson grant supporting their research in the PhD program.

Bazzell's research interests focus on factors influencing adherence to cancer treatment guidelines and their relation to quality of life and overall survival in cancer patients.

Nikpour's research interests span health policy and community health initiatives, such as the effects of APRN scope of practice on chronic disease management, expanded

roles of school nurses and community-based health promotion interventions.

Bazzell and Nikpour each received \$125,000 in financial support in addition to mentoring and leadership development with the commitment to complete the PhD program in three years. The Future of Nursing Scholars program is part of the RWJF's Leadership for Better Health theme aiming to ensure that the nation has a diverse, well-trained leadership and workforce to build a culture of health across the nation.

#8

in National Institutes of Health-Funded Research

The Challenge for Investment:

An Opportunity to Accelerate Nursing Research

Recognizing that nursing research is a key driver in delivering quality, effective health care, Marion E. Broome, dean of Duke University School of Nursing, and A. Eugene Washington, Duke University's chancellor for health affairs, have established a new challenge aimed at raising \$2 million for nursing research at Duke.

Through the *Challenge for Investment*, Broome and Washington hope to accelerate translational nursing research within the School of Nursing. They have set aside \$1 million to match donor contributions. With these matching funds, the *Challenge for Investment* will allow individual donors to support start-up, pilot and bridge funding that will ultimately attract additional sustained research support, doubling the value and impact of philanthropic contributions designated for School of Nursing research.

The goal of the challenge is to build a pool of \$2 million in unrestricted and targeted research funding by 2022.

For more information on how to support the *Challenge for Investment*, contact Anita Stallings at anita.stallings@duke.edu.





Giving Back for Nursing Education and Research

"I've always believed in the importance of education and research. It has been instilled in me since my childhood. I have decided to provide funding for education and nursing research through my estate plans."

Mary-Alyce McCullough, BSN'65, MSN, of Atlanta, Georgia, has made a planned gift commitment to Duke University School of Nursing to support research and teaching.

The School of Nursing is a leader in accelerating the discovery and translation of knowledge and innovation that impact education and research. The School currently conducts over 70 nursing research projects that span the care continuum and seek to increase knowledge, improve patient outcomes, and inform evidence-based practice.

To learn about making a planned gift, please contact:

Anita Stallings at anita.stallings@duke.edu or Diana Staples at diana.staples@duke.edu in the Office of Development and Alumni Affairs or call (919) 684-8862.

 **Duke University School of Nursing**

Transforming Lives through Research

Alumna works to improve care for families dealing with addiction and domestic violence

by Bernadette Gillis

Substance abuse and domestic violence are two issues that are difficult for families to cope with and discuss among themselves, let alone with their health care providers. Fear of being stigmatized or judged are valid concerns. **Mary Ellen Wright, BSN'81, PhD, APRN, CPNP**, discovered this early on in her career as an OB-GYN and pediatric nurse practitioner.

In particular, she says she observed a disconnect between providers and pregnant patients struggling with addiction. Oftentimes the providers were so focused on making sure the infants were safe and not affected by their mothers' addictions that the unique concerns of the mothers were neglected. "We did a good job caring for the babies, but we kind of forgot to care for the mothers," Wright explains.

Now an assistant professor and a Clemson University Scholar for Health Research at Clemson University School of Nursing, Wright seeks to change that and hopes her work will make a difference in how nurses care for mothers with addiction and those affected by domestic violence. Because they serve on the frontline of health care, nurses like Wright have insight into problems and



how to solve them. She is just one example of nurse researchers who—through targeted research—are improving health outcomes, advancing nursing practice and transforming health care.

Wright currently studies addiction, particularly opioid addiction, and its effect on mothers and their families. In a study that was completed this year, she collected stories of mothers with substance use disorder. Participants called a phone number and anonymously shared their stories of addiction.

Through the stories, Wright gained better insight into the role that positive support from family and friends can play in recovery. She found that isolating the mothers or waiting for them to hit rock bottom before providing services is not ideal; it is best to offer support sooner. Wright says, "When positive social supports and positive systems surrounded them, they were able to go into recovery and able to stay in recovery."



Wright teaches at Clemson University and is a member of DUSON's Nursing Alumni Council.



The study also showed that, contrary to what many believe about mothers who use substances, the mothers cared deeply for their children and were motivated to seek recovery for the sake of their children.

Wright hopes to study ways to further support mothers and help them improve their parenting skills. Most importantly, she also hopes the study will lead to more open conversations between providers and patients.

"I think addiction has been perceived as a choice and not as a disease," Wright says. "It's hard for health care professionals and others to not blame a mother for exposing an infant in utero to a substance. But the reality is that the mother has a disease of substance use disorder. She's not intentionally trying to hurt the child."

She adds: "If we can create an environment of honesty so that they can tell us what's going on in their lives, we can provide the best care possible and the best resources. By decreasing the stigma, we open the opportunity to really have an effect on the mother's long term-care and the future of her children's care."

Another area that is important to Wright is domestic violence. She recently completed a five-year study of victims of domestic and interpersonal violence. This study had a significant impact on families living in western North Carolina, where Wright also holds an appointment as a nurse scientist in women's and children's health for Mission Health System.

In the study, Wright again collected stories anonymously by phone. Participants shared

their experiences with seeking help after suffering domestic or interpersonal violence.

The study data, which Wright shared with the Western North Carolina Consortium for Safety, assisted to inform the creation of the Family Justice Center in Asheville and resulted in major changes in how domestic violence victims in the area navigate the system. Each victim is assigned an advocate. Also, victims no longer have to travel from agency to agency repeating their story multiple times. Previously, agencies were located in various locations around town. They now are all located in the Family Justice Center, which also offers welcoming spaces for the victims' children.

As a result of Wright's work on the study, the Family Justice Center created a domestic violence awareness campaign. Life-sized silhouettes representing some of the victims' stories are now displayed around Asheville. The silhouettes also include information on where those experiencing domestic violence can go for help.

Wright says all of her research projects are driven by her underlying desire to help young families, which she initially discovered while studying abroad as a Duke University School of Nursing student. She spent a semester in England working with the Royal College of Midwives.

"It was at that point that I realized that it wasn't the delivery (of babies) that I was interested in; it was everything surrounding developing families and making sure new mothers have the support that they need." She adds, "That has always been a big theme in my work." ■



2019 Alumni Awards

Duke University School of Nursing recognizes distinguished alumni, faculty and friends for their significant contributions to the School and the nursing community at large. The awards are presented each spring during Nursing Reunion Weekend in April. This year, the School presented the following awards: Distinguished Alumna, Lifetime Achievement, Honorary Alumna, Trailblazer, Clinical Practice Excellence and Distinguished Contributions to Nursing Science.

**Janet Baker-Craig,
BSN'64, MSN'66, DHA, MBA, CENP, ELNEC**

Janet Baker-Craig, BSN'64, MSN'66, DHA, MBA, CENP, ELNEC, was among the students in Duke University School of Nursing's first master of science in nursing degree program. Throughout her career, Baker-Craig demonstrated an exceptional ability to balance the many facets of nursing, including clinical practice, administration, research and publication.

For nearly 20 years, she held various administrative roles in the Greenville Hospital System in South Carolina. During her time as the administrator for both the Emergency Department and Rehabilitation Hospital, she recruited trauma surgeons and developed a level 1 trauma program in conjunction with the Department of Surgery and oversaw an expansion of the traumatic brain injury program.

As chief nursing officer at the HCA Palmyra Medical Center in Albany, Georgia, she developed strategic community partnerships and implemented strategies to improve emergency department operations.

Baker-Craig taught in the undergraduate and graduate programs at Clemson University School of Nursing from 2002 to 2012. In addition to receiving several awards for excellence in research, leadership and education, Baker-Craig received recognition for excellence in teaching with the Clemson Board of Trustees Award for Faculty Excellence.

Baker-Craig earned an MBA from Georgia State University and a doctor of health administration degree from MUSC. She obtained certification in nursing executive practice from the American Organization of Nurse Executives and ELNEC certification from the American Association of Colleges of Nursing.



Jacquelyn Campbell, BSN'68, PhD, RN, FAAN

Jackie Campbell, BSN'68, PhD, RN, FAAN, is a national leader in research and advocacy in the field of domestic and intimate partner violence (IPV). She is a professor and the Anna D. Wolf Chair at the Johns Hopkins School of Nursing.

Campbell's studies paved the way for a growing body of interdisciplinary investigations by researchers in the disciplines of nursing, medicine and public health.

As a nurse educator and mentor, she teaches an undergraduate and graduate elective in family violence as well as in the PhD program and is the principal investigator of a NIH-funded fellowship, which provides funding for pre- and postdoctoral fellows in violence research.

She was elected to the Institute of Medicine (IOM) in 2000 and was a senior scholar in residence at the institute as well as at the American Academy of Nursing and the American Nurses' Foundation.

Campbell was named a Pathfinder Distinguished Researcher by the National Institute of Nursing Research, received the Outstanding Alumna and Distinguished Contributions to Nursing Science Awards from Duke University School of Nursing, and the American Society of Criminology's Vollmer Award.

Campbell received a bachelor of science in nursing degree from Duke University School of Nursing, a master of science in nursing degree from Wright State University and a PhD from the University of Rochester.



Lynn Erdman, BSN, MSN, RN, FAAN

With more than 35 years in hospital and health care and non-profit sectors, Lynn Erdman, BSN, MSN, RN, FAAN, is a national leader in health care and nursing. She held key positions with the American Cancer Society, Susan G. Komen, American College of Surgeons, and the Association of Women's Health, Obstetric and Neonatal Nurses.

Executive director of Carolina Breast Friends, she held leadership positions in Carolinas HealthCare and Novant Health systems. She was the first nurse appointed by the governor to chair the North Carolina Cancer Board and was also the first woman and nurse to chair the Breast and Cervical Cancer Committee of the American Cancer Society.

With more than 800 lectures nationally and internationally, she frequently posts on the *Huffington Post*, and she has been quoted in the *New York Times*, *U.S. News & World Report* and has appeared on the *TODAY* show.

Erdman is a Fellow in the American Academy of Nursing and named a distinguished alumnus by the University of North Carolina at Greensboro.

She serves on the Board of Advisors for Duke University School of Nursing and the Board of Trustees for William Peace University.

Erdman received a bachelor of science in nursing degree from the University of North Carolina in Greensboro and a master of science in nursing degree from the University of South Carolina.



Judith Krebs Snyderman, RN

Judith Krebs Snyderman, RN, serves as a board member and recording secretary for the Duke Medical Faculty Wives and volunteers at the Nearly New Shoppe, which for more than 50 years has contributed millions of dollars in scholarship awards for medical and nursing students at Duke.

A generous supporter of Duke University School of Nursing for many years, she joined the School of Nursing Advisory Council in 1996. After serving 10 years, she became an emeritus member continuing to advance the mission of the council. In further support of the School, the Krebs and Snyderman families created the Herman and Rose Krebs Scholarship Fund that will benefit generations of nursing students from underserved areas.

During her career, Snyderman worked in the cardiac care unit at Duke University Hospital, an IVF program coordinator at UNC Hospitals, an in-service education director at the Hillhaven Convalescent Center and as a nursing instructor at Durham Tech.

She studied art at the UNC-Chapel Hill Art School and received a bachelor of fine arts in painting degree from the San Francisco Arts Institute (SFAI). Her paintings have been displayed in juried art shows and art centers in California and North Carolina.

Snyderman received her registered nurse certification from the Jewish Hospital of Brooklyn and a bachelor of science degree in psychology from the University of Maryland.



Susan Haynes Little, DNP'17, RN, PHNA-BC, CPH, CPHQ, CPM

Since her graduation from the Doctor of Nursing Practice degree program at Duke University School of Nursing, Susan Haynes Little, DNP'17, RN, PHNA-BC, CPH, CPHQ, CPM, has had a widespread impact on the practice of nursing and public health policy.

Little is manager of public health nursing, administrative, and financial consultation in the Local Training and Technical Assistance Branch of the N.C. Division of Public Health.

As a student, she was selected for a national task force of four public health nursing practice and academic leaders updating the Quad Council Coalition of Public Health Nursing Organizations' (QCC) competencies for public health nurses that was published in 2018.

She was selected as the American Nurses Credentialing Center's 2018 Certified Advanced Public Health Nurse of the year for her innovation, collaboration, leadership and professional risk-taking, and patient-centered care.

Little created and manages two social media sites for the N.C. Public Health Nursing community including a Twitter account that shared public health information during Hurricane Florence in September 2018.

She is chair of the nursing section of the N.C. Public Health Association, one of the largest American Public Health Association's affiliates in the U.S.

She received a bachelor of science in nursing degree from UNC-Wilmington, a master of science in nursing degree from UNC-Charlotte and a doctor of nursing practice degree from Duke University School of Nursing.



**Rémi M. Hueckel,
MSN'96, DNP'11, CPNP-AC, CHSE, FAANP**

Rémi M. Hueckel, MSN'96, DNP'11, CPNP-AC, CHSE, FAANP, is assistant professor and an assistant director for the master of science in nursing program and lead faculty for the acute care pediatric nurse practitioner major at Duke University School of Nursing. Hueckel is an expert clinician in the Pediatric Intensive Care Unit and a leader in patient safety, simulation education and process improvement at Duke University Hospital.

A member of the pediatric critical care nurse practitioner team, Rémi is a leader in clinical education and simulation.

Her clinical experience in patient safety and emergency response teams allow her to integrate simulation into the acute care pediatric primary care nurse practitioner (PNP) management courses creating opportunities for intra-professional collaboration between undergraduate and graduate students.

Hueckel is the chair elect of the pediatric advanced practice providers subcommittee of the Society of Critical Care Medicine. She also serves on the acute care PNP exam committee of the Pediatric Nursing Certification Board and is a reviewer for the Journal of Pediatric Health Care.

She has contributed significantly to the advancement of the ACPNP role nationally. In 2014, she was inducted as a Fellow of the American Academy of Nurse Practitioners.

She received a bachelor of science in nursing degree from Purdue University and master of science in nursing and doctor of nursing practice degrees from Duke University School of Nursing.



**Eileen Tomaselli Lake,
BSN'81, PhD, MSN, MA, FAAN**

Eileen Tomaselli Lake, BSN'81, PhD, MSN, MA, FAAN, has made a significant impact on nursing care practice through research on clinical work environments and nurse staffing levels in hospitals. Lake is a professor of nursing and sociology, the Jessie M. Scott Endowed Term Chair in Nursing and Health Policy, and associate director of the Center for Health Outcomes and Policy Research at the University of Pennsylvania School of Nursing.

She developed a foundational measure of nursing care performance to demonstrate nursing's impact on patient outcomes—the Practice Environment Scale of the Nursing Work Index.

With support from the NIH, the Agency for Healthcare Research and Quality, and the Robert Wood Johnson Foundation, Lake conducted multiple studies on Magnet hospitals and neonatal intensive care units (NICUs) in the U.S. To evaluate NICU nurse staffing levels nationally, she developed definitions for five infant acuity levels in neonatal intensive care. The National Database of Nursing Quality Indicators added the infant acuity definitions to the annual Registered Nurse survey in 2016.

Lake is editor in chief of the journal, *Research in Nursing & Health* and is a member of the Nursing Advisory Council of the Joint Commission on accreditation of health care organizations.

She received a bachelor of science in nursing degree from Duke University School of Nursing, master of arts degree from Georgetown University and master of science in nursing and PhD in sociology degrees from the University of Pennsylvania.



Reunion Recap 2019



During the Reunion luncheon, members of the class of 1969, along with alumni who graduated from the School 50 or more years ago, were inducted into the Half Century Society.



More than 100 alumni and their families returned to campus to reunite and reconnect with friends and classmates from their days at Duke. Held April 11-12, the reunion included several highlights—from celebrating the accomplishments of seven alumni (see page 32) to the opportunity for alumni to partici-

pate in an ABSN class and share their experiences, both personal and professional, as Duke-educated nurses. Alumni were also treated to a faculty showcase featuring hands-on demonstrations with state-of-the-art equipment, nursing research and training using virtual reality.

Reunion 2019 was a great success and exciting plans are already underway for Reunion 2020! Scheduled for April 16-17, 2020, alumni whose class years end in 0 or 5 will be invited back to celebrate. We are especially looking forward to welcoming the class of 1970, who will be celebrating their 50th reunion!



Reuniting Classes



Half Century Society



1959



38 DUKE NURSING SUMMER 2019



1989





1974



1979



1984



1969



2017



1950s

Phyllis Punshon, BSN'53, 91, and her sister, **Joanne Mertz, MD'51**, who joined her in Denver three years ago, are leaving Punshon's home of 52 years and moving to a senior living community. Punshon says that Duke has always held a special spot in her heart, and she always watches Duke Blue Devils games on TV.

1960s

Sandi Averitt, BSN'67, and her husband, Dick, hope to complete their Great Loop adventure this year. This is their third year of sailing and currently the boat is in Alexandra Bay, Ontario, Canada. They hope to be south of Chicago by October 1. To see the first two years of their journey and follow them this next year, see: averittsadventure.wordpress.com.

Susan Mason, BSN'68, has moved to a retirement community in a suburb of Charlotte, North Carolina. She enjoys her lovely and sunny apartment, which is just five minutes from her daughter, husband and two grandchildren and only an hour from her son and his family. They all keep her very busy, as well as church, volunteer jobs, bridge and friends.

Kristina Meservey, BSN'69, married her childhood sweetheart, James Ross MacLean, on July 30, 2018. Their children participated in the ceremony. Meservey's former roommates, **Abigail Norfleet James, AB'70**, and **Rebecca Reynolds Zielinski, BSN'69**, along with several former Navy Nurse Corps colleagues and supervisors attended the wedding.



Betty Futrell-Shepherd, BSN'67, and her husband moved to a retirement community in Charlotte, North Carolina, last year to be close to their son and grandchildren. Futrell-Shepherd retired as a full professor from Virginia Western Community College in 2008, after teaching nursing and personal and community health for 31 years. She continues to volunteer as a health educator with the American Heart Association and conducts health fairs in many work places throughout Virginia.



Marti Boland, BSN'66, has been happily married for 50 years. She has two children, and she enjoys retirement.

1970s

Phylis Alford, BSN'75, retired from the U.S. Army Reserve as a colonel in 2013. She also served as a family nurse practitioner in the Department of Veterans Affairs. She volunteers as a member of a citizen review panel for the Liberty and Long Counties in the Georgia Juvenile Court System. Alford and her husband, Avery, have a beautiful blended family of six adult children and eight grandchildren. They serve on the ministry team at Fort Stewart Grace Gospel Chapel, where Alford is also actively engaged with the Protestant Women of the Chapel.



Connie Bishop, BSN'75, DNP'12, spoke about using data analytics to create National Council Licensure Examination student success dashboards at the North Carolina National League for Nursing conference. Bishop also presented at the Quality and Safety Education for Nurses international conference and talked about the current status of nursing knowledge and the Big Data Science Initiative. At the American Nursing Informatics Association annual conference, Bishop spoke about the use of health information technology across the bachelor of science in nursing degree curriculum.

Tina Marrelli, BSN'75, published two books that received honors in 2018 AJN Book of the Year Awards in their respective categories. "The Handbook of Home Health Standards: Quality, Documentation, and Reimbursement" (6th edition) received a Second Place award in the Community/Public Health Category and the "Hospice and Palliative Care Handbook" was awarded Second Place in the Palliative Care And Hospice Category.

Melinda Watman, BSN'77, is CEO and co-founder of IV SafeT, a medical device company in the vascular access field. She spent 15 years working as a certified nurse-midwife and was director of the nurse-midwifery education program at the University of Southern California and a founding member of the Massachusetts General Hospital Vincent Obstetrical Service. Watman has earned an MBA with a focus in entrepreneurship and worked with health care startups. She is an expert on weight bias and founded THE F WORD FAT to improve how the world views, perceives and acts towards people with obesity. Watman also serves on the board of directors of the Obesity Action Coalition. She is married and lives in Boston and enjoys entertaining, knitting and designing and creating Nuno felting shawls.

Katie Oppenheim, BSN'78, had a busy year in 2018. She attended the 40th reunion in April and is proud of her class for raising money for Duke University School of Nursing. She was the chief negotiator of the collective bargaining agreement for 6,000 nurses in her organization. She traveled to El Paso, to assist the children's prison (Tornillo, now closed), and to England, France, Ireland and Hawaii. In 2019,



she plans to travel to South Africa as well as attend the International Council of Nurses meeting in Singapore.

Gretchen Geist, BSN'79, is working part time caring for low-income, uninsured persons at the Open Arms Free Clinic in Elkhorn, Wisconsin. She also serves on the Wisconsin Association for Free and Charitable Clinics Standards Committee. On the national level, she is clinical co-lead on a multi-year project to develop quality measures specific to the free and charitable clinic sector. Geist enjoys gardening, reading and spending time with her family and her two toddler grandchildren.

1980s

Rev. Bonnie Rose, BSN'80, is senior minister of the Ventura Center for Spiritual Living. Her ministry focuses on bringing kindness to all beings. Rose lives in Ventura County, California, with her husband and a large menagerie.



Tina Alster, BSN'81, MD'86, was awarded the highly coveted 2019 Practitioner of the Year Award from the Dermatology Foundation during the annual meeting of the American Academy of Dermatology in March.



Susan Dresser, MSN'89, is married to her college sweetheart, **Michael Dresser, MD'85, PhD'85**. They have two adult daughters and a son, who is completing service as a Peace Corps volunteer in Guinea, Africa. Dresser is completing a PhD in Nursing at the University of Kansas this spring, and her dissertation is a qualitative study exploring the factors that influence nurses' clinical judgment in situations of acute patient deterioration. She has worked as an advanced practice registered nurse—Clinical Nurse Specialist (CNS) in cardiology since 1989, and currently she teaches CNS students. She was inducted into the inaugural class of fellows of the Clinical Nurse Specialist Institute, which was founded by the National Association of Clinical Nurse Specialists (NACNS), and received the NACNS 2019 CNS Educator of the Year Award. Dresser has completed serving as an elected member of the 2018 nominating committee for the American Association of Critical Care Nurses. She enjoys flower gardening, traveling, reading and taking ballet classes.

2000s

Monica McKitterick, MSN'08, opened her own direct primary care office April 1, 2019, in Cedar Park, Texas. She is very excited for this journey as an entrepreneur and looks forward to treating patients.

Kathryn Duarte, BSN'09, became nurse manager of operations at the Pediatric Hematology and Oncology Unit at Duke University Hospital.

Allen Cadavero, MSN'09, PhD, has joined the Duke University School of Nursing faculty as an assistant professor in the ABSN Program. Prior to joining the School's faculty, Cadavero was a part-time clinical instructor at the School.



2010s

Joe Schomburg, MSN'11, recently accepted an associate director-spine position. He and his wife welcomed their son, William, in April 2018. Schomburg writes that William is "already a huge Duke fan!"

Caitlin Whiteman, BSN'12, received a master of science in nursing degree from the University of Texas at Austin in May 2018, and has been working as a pediatric nurse practitioner since July 2018.



Emily Scranton, MSN'13, and her husband, **Patrick Scranton, AB'13**, welcomed their son, William, in May 2017. They are expecting a second son in July of this year.

Samantha Gardner, MSN'15, DNP'17, welcomed her son, Bennett Reagan Gardner, in March 2018.

A Legacy of Leadership

When **Marilee Rasmussen, BSN'59**, passed away in 2016, she left behind a legacy that will impact the School of Nursing for years to come. Through her estate planning, Rasmussen gifted more than \$1 million to the School which will allow Dean Marion E. Broome, and future deans, to designate those funds to address areas of greatest need. Dean Broome is proud to announce that a portion of the funds will be used to continue critical faculty leadership programs.

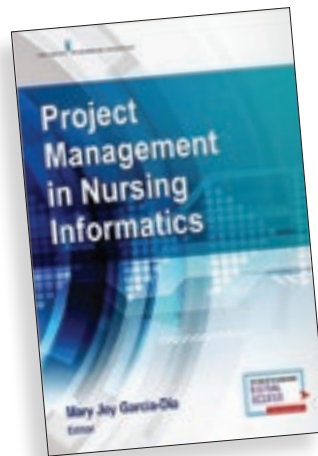
"Committed faculty positively impact all areas of the School," says Broome. "Leadership training programs are essential for the development of effective teaching and research faculty and allow the School to continue to thrive. We cannot remain a top-ranked school without exceptional faculty leaders."

Throughout her life, Rasmussen was dedicated to supporting the School and gave faithfully each year for more than 20 years. "I am deeply grateful for Ms. Rasmussen's steadfast commitment to the School of Nursing and for trusting us to carry on this legacy of support," says Broome.

To learn more about supporting the School of Nursing through your estate plans, contact Anita Stallings, associate dean for development and alumni affairs, at (919) 684-8862.

Michael Graham, DNP'14, was appointed as associate professor of nursing and director of the bachelor of science in nursing program in the College for Adults at St. Catherine University, Minneapolis.

Jennifer Dizon, DNP'15, is a contributing author of the nursing informatics textbook, *Project Management in Nursing Informatics*. The book is now available for pre-order on Amazon.



Obi Oji, DNP'16, is an assistant professor and director of the family nurse practitioner program at Houston Baptist University.

Nadia Luna, DNP'16, is a Nevada Nurses Foundation 50 Under 50 Award recipient.

Kimberly Hermis, DNP'16, is associate director of ambulatory nursing at the University of Texas MD Anderson Cancer Center.



Carmen Shaw, DNP'16, was selected to join the Leadership North Carolina class of 2018-2020. Leadership North Carolina is the premier leadership program in the state which aims to inform, develop and engage committed leaders by broadening their understanding of and involvement in issues and opportunities facing the state of North Carolina.

Shana Webb, MSN'16, recently became a certified nephrology nurse practitioner through the Nephrology Nursing Certification Commission.



Tasha Martin-Peters, MSN'17, graduated from Duke University School of Nursing in May 2017 and is an adjunct professor at Drexel University. In 2018, she was offered a full-time position as an assistant clinical professor.

Emilee Gutzmer, BSN'18, began her nursing career at the spine unit at the United Hospital in



Saint Paul, Minnesota. The hospital is part of Allina Health System, Minnesota's largest health care system. Gutzmer is thankful for the Duke University School of Nursing for preparing her to be a successful nurse.

Kaylee Ehman, MSN'18, received a national certified counselor certification as a board certified Neonatal Nurse Practitioner (NNP) last year, and had accepted an NNP position at Seattle Children's Hospital.

Rhonda Lanning, DNP'18, assistant professor at the University of North Carolina School of Nursing, received the Tanner Award for Excellence in Undergraduate Teaching. Students nominate deserving faculty members for the award, and Lanning was one of five faculty members from across the university to receive it. The award recognizes recipients for their care for students, mentorship and effective use of classroom methods.

1930s

Margaret Seawell Brion, RN'39

1940s

Lucy Osborne Whiteley, RN'44
Hazel Durner Howell, RN'45
Vivian Gambrell Taylor, BSN'46
Martha Bishop Garrick, BSN'47
Audrey Hatcher Vaughan, BSN'47
Mary Williams Whitford, RN'47
Lula Moshoures Redmond, RN'49

1950s

Elinor Wetherington Grant, BSN'52
Evelyn Parker Patrick, BSN'56
Kay Thompson Manning, RN'57
Sarah Anita Hager, RN'57
Nancy Davis Hauser, BSN'58
Mary Sayre Tilbury, BSN'59

1960s

Signe Ann Christensen, BSN'66

1970s

Marjorie Fine Mead, BSN'70
Janet Larson Gelein, MSN'70

2000s

Mary Joanne Hovey, MSN'07
Janice Butler Ryckley, Cert'09

2010s

Cassandra "Cass" Ortenblad Kernstine, MSN'17



Oh What a Time with the Class of 1959!

Ellen D. Barnhart, BSN'59,
Nancy Anderson BSN'59, MSN'65
and Judith Grybowski, BSN'59
share memories of their classmates
and their days at Duke.

Duke Nursing Magazine
DUMC 3322
307 Trent Drive
Durham, NC 27710



Congratulations, Class of 2019!

